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~32" corrugated stickup

Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: RW-#11-O
Event: 2H21
Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade __	2-in __	PVC __
Upright ✓	4-in __	SS __
Vault __	Other 32-in	Other ✓ corrugated pipe

Hydrologic Monitoring
for TRC
Houston, Texas

(134)

Well Inspection Information Gauge only

Initials: OSD

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
9-14-21	1135	19.92	20.01	0.09	22.20	NA	yes	yes	yes*	yes		Weather: Sunny 90's

* Latch Broken

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
			0.5								*Low-flow groundwater sample:*
			1.0								(A) peristaltic pump w/ ded tubing
			1.5								B) ded bladder pump
			2.0								C) non-ded bladder pump; or
			2.5								*Standard groundwater sample:*
			3.0								D) bailer due to limited column; or
			3.5								E) recovery well cycling sample
			4.0								F) irrigation well grab sample
											(Historically not sampled)

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments Lab: Pace National, Mt. Juliet, TN
		RW-#11-O								Per COC	Per COC	

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

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(until further notice, do not address in any way, per Navajo 4-26-16)

Monitoring Well Purging and Sampling Record

(Farmer - Jack Jay, 575-365-6042)

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: KWB-9
Event: 2H21
Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade __	2-in ✓	PVC ✓
Upright ✓	4-in __	SS __
Vault __	Other __	Other __

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: GB (135)

Well Inspection Information

(Historically - well casing obstructed @ 15.11')

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft TOC)	Well Inspection					Comments
							Can	Casing	Well Secured	Label	Other	
9/14/21	1118	NM	NM	NM	NM	NA	—	—	—	—		Weather: Sunny, 70's

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
			0.5								*Low-flow groundwater sample:*
			1.0		DO NOT ADDRESS						(A) peristaltic pump w/ ded tubing
			1.5								B) ded bladder pump
			2.0								C) non-ded bladder pump; or
			2.5								*Standard groundwater sample:*
			3.0								D) baller due to limited column; or
			3.5								E) recovery well cycling sample
			4.0								F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
		KWB-9										Lab: Pace National, Mt. Juliet, TN
										Per COC	Per COC	

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

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Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: KWB-12A
Event: 2H21
Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade ✓	2-in __	PVC ✓
Upright __	4-in ✓	SS __
Vault	Other __	Other __

Hydrologic Monitoring
for TRC
Houston, Texas

Initials OSO (136)

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection: Cap	Casing	Well Secured	Label	Other	Comments
9-14-21	935	NP	19.79	0.00	25.03	24.9	yes	yes	yes	yes		Weather: Clear 70S

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (l)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
9-14-21	940	19.81	0.5	6.69	24.7	4100	3.9	28.1	12.5	Colorless/Clear	*Low-flow groundwater sample:*
	943	19.81	1.0	6.65	24.2	4070	3.5	34.4	10.7		(A) peristaltic pump w/ ded tubing
	945	19.81	1.5	6.63	24.0	4060	3.3	38.4	9.8		B) ded bladder pump
	948	19.81	2.0	6.60	23.9	4060	3.2	42.1	9.1		C) non-ded bladder pump; or
	950	19.81	2.5	6.58	23.8	4050	3.1	48.6	8.7		*Standard groundwater sample:*
	953	19.81	3.0	6.55	23.8	4050	3.1	53.1	8.5		D) bailer due to limited column; or
	955	19.81	3.5	6.53	23.7	4040	3.0	59.9	8.3		E) recovery well cycling sample
	958	19.81	4.0	6.50	23.6	4040	3.0	63.1	8.1		F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
9-14-21	1000	KWB-12A	19.81	6.50	23.6	4040	3.0	63.1	8.1	Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

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Monitoring Well Purging and Sampling Record

+Dup-REST-05
+EB-REST-05

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: KWB-12B
Event: 2H21
Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade ✓	2-in __	PVC ✓
Upright __	4-in ✓	SS __
Vault __	Other __	Other __

+Trip Blank-REST-02

Hydrologic Monitoring for TRC
Houston, Texas

Initials: OSD (137)

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection: Cap	Casing	Well Secured	Label	Other	Comments
9-14-21	840	NP	19.70	0.00	39.39	35.2	NO *	yes	yes	yes		Weather: Clear 70s

*Well CAP (slight crack) to be fixed/replaced in 1H22. -SCH

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
9-14-21	845	19.79	0.5	7.01	21.3	4010	4.3	44.2	9.1	Colorless/clear	Low-flow groundwater sample:
	848	19.79	1.0	6.91	21.7	3850	4.1	40.7	8.7		A) peristaltic pump w/ ded tubing
	850	19.80	1.5	6.87	22.3	3710	3.8	37.1	8.3		(B) ded bladder pump
	853	19.80	2.0	6.83	22.4	3630	3.6	33.6	7.5		C) non-ded bladder pump; or
	855	19.80	2.5	6.81	22.5	3610	3.5	30.7	7.1		Standard groundwater sample:
	858	19.80	3.0	6.78	22.7	3590	3.4	28.1	6.6		D) bailer due to limited column; or
	900	19.80	3.5	6.73	22.6	3580	3.4	25.4	6.1		E) recovery well cycling sample
	903	19.80	4.0	6.71	22.7	3570	3.3	23.1	5.8		F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
9-14-21	905	KWB-12B	19.80	6.71	22.7	3570	3.3	23.1	5.8	Per COC	Per COC	Lab: Pace National, MI, Juliet, TN
	1200	DUP-REST-05	19.80	6.71	22.7	3570	3.3	23.1	5.8	Per COC	Per COC	
	925	EB-REST-05	NA							Per COC	Per COC	

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

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Monitoring Well Purging and Sampling Record

* Heavy Vegetation, MARKED Well Location on the road

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: KWB-2R
Event: 2H21
Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade ✓	2-in ✓	PVC ✓
Upright	4-in	SS
Vault	Other	Other

Hydrologic Monitoring
for TRC
Houston, Texas

(138)

Well Inspection Information

* At-grade completion damaged; needs replacing Initials: DSD

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
9-14-21	820	25.52	25.65	0.13	39.39	32.4	Issue	Issue	Issue	Issue	*	Weather: Sunny 70's

Well Purging Record

* (Well Remains Functional)

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
			0.5								*Low-flow groundwater sample:*
			1.0		NOT SAMPLED;			LNAPL ≥ 0.03			(A) peristaltic pump w/ ded tubing
			1.5								B) ded bladder pump
			2.0								C) non-ded bladder pump; or
			2.5								*Standard groundwater sample:*
			3.0								D) bailer due to limited column; or
			3.5								E) recovery well cycling sample
			4.0								F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
		KWB-2R								Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

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Monitoring Well Purging and Sampling Record

* Heavy Vegetation, Marked Well Location off Road

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: MW-58
Event: 2H21
Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade ✓	2-in ✓	PVC ✓
Upright __	4-in __	SS __
Vault __	Other __	Other __

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: OSJ (139)

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
9-14-21	825	24.21	25.32	1.11	33.06	25.6	yes	yes	yes	yes		Weather: CLEAR 70°F

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
			0.5								*Low-flow groundwater sample:*
			1.0		Not Sampled Due to LNAPL						(A) peristaltic pump w/ ded tubing
			1.5		≥ 0.03						B) ded bladder pump
			2.0								C) non-ded bladder pump; or
			2.5								*Standard groundwater sample:*
			3.0								D) bailer due to limited column; or
			3.5								E) recovery well cycling sample
			4.0								F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
		MW-58								Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

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Gauge only

Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: KWB-13
Event: 2H21
Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade ✓	2-in ✓	PVC ✓
Upright __	4-in __	SS __
Vault __	Other __	Other __

* Due to Construction, access from Midway Rd (east of field)

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: GBS (140)

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
9/14/21	1210	NP	28.71	0.00	33.10	33.0	Yes	Yes	Yes	Yes		Weather: Sunny, 80's

Well Purging Record

(* Top of pump @ 29.40') [* may need short-cycles due to limited water column]

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
			0.5								*Low-flow groundwater sample:*
			1.0								A) peristaltic pump w/ ded tubing
			1.5								(B) ded bladder pump
			2.0								C) non-ded bladder pump; or
			2.5								*Standard groundwater sample:*
			3.0								D) bailer due to limited column; or
			3.5								E) recovery well cycling sample
			4.0								F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
		KWB-13								Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN
			No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample									

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Sign-in & permit from South Crude (Hoech) Control Room prior to entry

Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: MW-103
Event: 2Q21
Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade	2-in __	PVC ✓
Upright ✓	4-in ✓	SS __
Vault __	Other __	Other __

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: SCM (141)

Well Inspection Information Gauge only

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
9/14/21	1245	NP	17.70	0.00	25.22	22.2	Yes	Yes	Yes	Yes		Weather: Clear, 90s

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
			0.5								*Low-flow groundwater sample:*
			1.0								(A) peristaltic pump w/ ded tubing
			1.5								B) ded bladder pump
			2.0								C) non-ded bladder pump; or
			2.5								*Standard groundwater sample:*
			3.0								D) bailer due to limited column; or
			3.5								E) recovery well cycling sample
			4.0								F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
		MW-103								Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

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Sign-in & Permit from South Crude Control Room prior to entry

Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: MW-104
Event: 2H21
Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade __	2-in __	PVC ✓
Upright ✓	4-in ✓	SS __
Vault __	Other __	Other __

("Tower Tech" water technology structure built adjacent to well, 2H21 (does not affect access)

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: SCH

(142)

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
9/14/21	1250	NP	15.17	0.00	21.97	19.0	Yes	Yes	Yes	Yes		Weather: Clear, 90s

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
9/14/21	1255	15.30	0.5	7.03	32.2	2180	2.1	-325.3	2.4	colorless; clear	*Low flow groundwater sample:*
	1257	15.36	1.0	6.96	32.1	2160	2.0	-327.4	1.9		(A) peristaltic pump w/ ded tubing
	1300	15.41	1.5	6.94	32.0	2150	1.9	-329.8	1.5		B) ded bladder pump
	1302	15.45	2.0	6.88	31.9	2130	1.9	-333.6	1.4		C) non-ded bladder pump; or
	1305	15.48	2.5	6.87	31.8	2120	1.8	-334.6	1.4		*Standard groundwater sample:*
	1307	15.51	3.0	6.86	31.8	2120	1.8	-335.5	1.3		D) baller due to limited column; or
	1310	15.54	3.5	6.85	31.8	2110	1.8	-335.7	1.2		E) recovery well cycling sample
	1312	15.57	4.0	6.85	31.7	2110	1.8	-336.0	1.2		F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
												Lab: Pace National, Mt. Juliet, TN
9/14/21	1315	MW-104	15.57	6.85	31.7	2110	1.8	-336.0	1.2	Per COC	Per COC	

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

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Bagged tube; stretch to outside of berm

Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: MW-64
Event: 2H21
Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade __	2-in __	PVC ✓
Upright ✓	4-in ✓	SS __
Vault __	Other __	Other __

Hydrologic Monitoring
for TRC
Houston, Texas

(143)

Well Inspection Information

(Removed sock prior to sampling; replaced when finished)

Initials: SLM

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
9/14/21	1330	NP	20.75	0.00	34.08	26.6	yes	yes	Yes	Yes		Weather: clear, 90s

Well Purging Record

Date	Time	Depth to Water (Ft TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
9/14/21	1340	20.95	0.5	6.75	38.1	2460	1.9	-319.9	23.0	colorless; clear / odor	*Low-flow groundwater sample:*
	1342	21.04	1.0	6.74	38.3	2480	2.1	-324.9	23.2		(A) peristaltic pump w/ ded tubing
	1345	21.11	1.5	6.71	38.1	2490	2.2	-328.2	23.5		B) ded bladder pump
	1347	21.15	2.0	6.69	37.7	2490	2.3	-331.2	23.7		C) non-ded bladder pump; or
	1350	21.16	2.5	6.68	37.5	2490	2.3	-333.4	21.4		*Standard groundwater sample:*
	1352	21.16	3.0	6.67	37.4	2490	2.3	-335.0	19.9		D) bailer due to limited column; or
	1355	21.16	3.5	6.66	37.4	2490	2.4	-336.0	19.5		E) recovery well cycling sample
↓	1357	21.16	4.0	6.65	37.3	2490	2.4	-337.2	19.2	↓ ↓ ↓	F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
9/14/21	1400	MW-64	21.16	6.65	37.3	2490	2.4	-337.2	19.2	Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL and collect groundwater sample

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Bagged tube; Located in front of Navajo storage shed.

Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: MW-65
Event: 2Hz1
Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade ✓	2-in	PVC ✓
Upright __	4-in ✓	SS __
Vault __	Other __	Other __

Pulled sock prior to gauging; then reinstalled

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: SLA (144)

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
9/15/21	840	18.21	18.95	0.74	28.78	23.8	Yes	Yes	Yes	Yes		Weather: PC cloudy, 70s

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
			0.5								*Low-flow groundwater sample:*
			1.0								(A) peristaltic pump w/ ded tubing
			1.5								B) ded bladder pump
			2.0								C) non-ded bladder pump; or
			2.5								*Standard groundwater sample:*
			3.0			No	Sample; LNAPL				D) bailer due to limited column; or
			3.5								E) recovery well cycling sample
			4.0								F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
		MW-65								Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN
			No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample									

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Gauge to top of guide pipe

Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: RW-5R
Event: 2H21
Area of Concern: REST

Above-grade

Completion	Casing Diam.	Casing Material
At-Grade __	2-in __	PVC ✓
Upright __	4-in __	SS __
Vault ✓	Other ✓	Other __

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: GM (145)

Well Inspection Information Gauge only

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection: Cap	Casing	Well Secured	Label	Other	Comments
9/15/21	930	19.60	25.35	5.75	NM	24.0	Yes	Yes	Yes	Yes		Weather: ph cloudy, 70s
					(pump tubing repacked total depth = 35.30 Ft-TOC)							

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
			0.5								*Low-flow groundwater sample:*
			1.0								A) peristaltic pump w/ ded tubing
			1.5								B) ded bladder pump
			2.0								C) non-ded bladder pump; or
			2.5								*Standard groundwater sample:*
			3.0								D) bailer due to limited column; or
			3.5								(E) recovery well cycling sample
			4.0								F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
		RW-5R								Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL and collect groundwater sample

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Bagged tube; do not dedicate, per historical observations.

Monitoring Well Purging and Sampling Record

+ Dup - REST - 02
+ EB - REST - 02

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: MW-102
Event: 2H21
Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade __	2-in __	PVC ✓
Upright ✓	4-in ✓	SS __
Vault __	Other __	Other __

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: SCH (146)

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
9/14/21	1440	NP	15.62	0.00	26.45	21.3	Yes	Yes	Yes	Yes		Weather: clear, 90s

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
9/14/21	1445	15.65	0.5	6.80	30.5	2.332	1.8	-319.2	21.6	colorless; clear	*Low-flow groundwater sample:*
	1447	15.65	1.0	6.72	29.9	0360	1.7	-322.2	15.4		(A) peristaltic pump w/ ded tubing
	1450	15.65	1.5	6.68	29.7	2370	1.7	-324.2	12.7		B) ded bladder pump
	1452	15.65	2.0	6.66	29.5	2370	1.8	-326.6	9.1		C) non-ded bladder pump; or
	1455	15.65	2.5	6.65	29.1	2380	1.8	-327.4	7.4		*Standard groundwater sample:*
	1457	15.65	3.0	6.65	28.5	2390	1.9	-329.2	5.9		D) bailer due to limited column; or
	1500	15.65	3.5	6.65	28.1	2390	1.9	-329.9	5.6		E) recovery well cycling sample
↓	1502	15.65	4.0	6.64	28.2	2390	1.9	-329.6	5.3	↓ ↓	F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
9/14/21	1505	MW-102	15.65	6.64	28.2	2390	1.9	-329.6	5.3	Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN
	1520	Dup-REST-02	15.65	6.64	28.2	2390	1.9	-329.6	5.3	Per COC	Per COC	
↓	1520	EB-REST-02	NA							Per COC	Per COC	

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

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Bagged tube. Gauge only

Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: RW-4
Event: 2H21
Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade __	2-in __	PVC ✓
Upright ✓	4-in __	SS __
Vault __	Other ✓	Other __

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: SLM (147)

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
9/15/21	815	18.48	19.03	0.57	36.62	31.6	Yes	Yes	Yes	Yes		Weather: pt. cloudy, 70s

Well Purging Record

* Gauge/Sample through labeled guide-pipe.
* Drawdown not measured (narrow diam. guide-pipe)

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
		NM *	0.5								*Low-flow groundwater sample:*
			1.0								(A) peristaltic pump w/ ded tubing
			1.5								B) ded bladder pump
			2.0								C) non-ded bladder pump; or
			2.5								*Standard groundwater sample:*
			3.0								D) bailer due to limited column; or
			3.5								E) recovery well cycling sample
			4.0								F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
		RW-4								Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; If LNAPL thickness is measured at 0.01" or 0.02', remove LNAPL, and collect groundwater sample

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Bagged tube. Gauge only

Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: RW-6
Event: 2H21
Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade __	2-in __	PVC ✓
Upright ✓	4-in __	SS __
Vault __	Other ✓	Other __

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: SCG (148)

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
9/15/21	822	18.12	21.55	3.43	34.90	30.0	Yes	Yes	Yes	Yes		Weather: pt. cloudy, 70s

Well Purging Record

* Gauge/sample through labeled guide-pipe
* Drawdown not measured (narrow diam. guide-pipe)

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
		NM *	0.5								*Low-flow groundwater sample:*
			1.0								(A) peristaltic pump w/ ded tubing
			1.5								B) ded bladder pump
			2.0								C) non-ded bladder pump; or
			2.5								*Standard groundwater sample:*
			3.0								D) bailer due to limited column; or
			3.5								E) recovery well cycling sample
			4.0								F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
		RW-6								Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

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Position marked on adjacent fence; well is ~4' N. of chain-link fence; possibly covered by gravel/silt.

Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: MW-99
Event: 2H21
Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade ✓	2-in ___	PVC ✓
Upright ___	4-in ✓	SS ___
Vault ___	Other ___	Other ___

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: SLG (149)

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
9/15/21	855	20.70	21.19	0.49	27.80	22.8	Yes	Yes	Yes	Yes		Weather: pt. cloudy, 80s

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
			0.5								*Low-flow groundwater sample:*
			1.0								(A) peristaltic pump w/ ded tubing
			1.5								B) ded bladder pump
			2.0								C) non-ded bladder pump; or
			2.5			Not Sampled; LNAPL ≥ 0.03					*Standard groundwater sample:*
			3.0								D) bailer due to limited column; or
			3.5								E) recovery well cycling sample
			4.0								F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
		MW-99								Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN
			No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample									

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Middle of gravel road; location marked on adjacent chain-link fence.

Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: MW-66
Event: 2H21
Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade ✓	2-in __	PVC ✓
Upright __	4-in ✓	SS __
Vault __	Other __	Other __

(In middle of road; may be obscured w/ gravel)

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: SCM (150)

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection (adjacent fence marked)					Comments
							Cap	Casing	Well Secured	Label	Other	
9/15/21	1005	19.52	19.76	0.24	29.80	26.8	yes	yes	yes	yes		Weather: ph cloudy, 80s

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
			0.5								*Low-flow groundwater sample:*
			1.0								(A) peristaltic pump w/ ded tubing
			1.5								B) ded bladder pump
			2.0	Not Sampled due to LNAPL						≥ 0.03	C) non-ded bladder pump; or
			2.5								*Standard groundwater sample:*
			3.0								D) bailer due to limited column; or
			3.5								E) recovery well cycling sample
			4.0								F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
		MW-66								Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN
			No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample									

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Bagged tube.

Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: MW-28
Event: 2H21
Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade __	2-in __	PVC ✓
Upright ✓	4-in __	SS __
Vault __	Other 6-in	Other __

Formerly: Extended vertically through gravel berm
Converted to upright completion (in area of former berm, cut out to ground surface, pre 1Q20.

Initials: SEM

Hydrologic Monitoring
for TRC
Houston, Texas

151

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
9/15/21	915	20.00	21.95	1.95	27.82	23.8	Yes	Yes	Yes	Yes		Weather: ph. cloudy, 80's

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
			0.5								*Low-flow groundwater sample:*
			1.0								(A) peristaltic pump w/ ded tubing
			1.5								B) ded bladder pump
			2.0	Not Sampled / LNAPL ≥ 0.03					1		C) non-ded bladder pump; or
			2.5								*Standard groundwater sample:*
			3.0								D) bailer due to limited column; or
			3.5								E) recovery well cycling sample
			4.0								F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
		MW-28								Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN
			No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample									

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Gauge only

Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: MW-59
Event: 2H21
Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade __	2-in __	PVC ✓
Upright ✓	4-in ✓	SS __
Vault __	Other __	Other __

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: SM (152)

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
9/15/21	945	15.96	16.60	0.64	32.72	25.3	Yes	Yes	Yes	Yes		Weather: pt. cloudy, 80s

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
			0.5								*Low-flow groundwater sample:*
			1.0								(A) peristaltic pump w/ ded tubing
			1.5								B) ded bladder pump
			2.0								C) non-ded bladder pump; or
			2.5								*Standard groundwater sample:*
			3.0								D) bailer due to limited column; or
			3.5								E) recovery well cycling sample
			4.0								F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments Lab: Pace National, Mt. Juliet, TN
		MW-59								Per COC	Per COC	
			No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample									

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(Support - trailer parking area)

Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: MW-60
Event: 2H21
Area of Concern: REST

Completion	Casing Diam.	Casing Materia:
At-Grade __	2-in __	PVC ✓
Upright ✓	4-in ✓	SS __
Vault __	Other __	Other __

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: SCG (153)

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
9/15/21	950	17.38	17.65	0.27	37.78	26.7	Yes	Yes	Yes	Yes		Weather: pt. cloudy, 80s

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
			0.5								*Low-flow groundwater sample:*
			1.0								(A) peristaltic pump w/ ded tubing
			1.5								B) ded bladder pump
			2.0								C) non-ded bladder pump; or
			2.5								*Standard groundwater sample:*
			3.0		No	Sample; LNAPL ≥ 0.03					D) bailer due to limited column; or
			3.5								E) recovery well cycling sample
			4.0								F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
		MW-60								Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; If LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

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Gauge only

Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: MW-107
Event: 2H21
Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade ✓	2-in __	PVC ✓
Upright __	4-in ✓	SS __
Vault __	Other __	Other __

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: SCH (154)

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
9/08/21	925	16.19	18.50	2.31	19.05	17.1	Yes	Yes	Yes	Yes		Weather: pt. Cloudy, BW

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
			0.5								*Low-flow groundwater sample:*
			1.0								(A) peristaltic pump w/ ded tubing
			1.5								B) ded bladder pump
			2.0								C) non-ded bladder pump; or
			2.5								*Standard groundwater sample:*
			3.0								D) bailer due to limited column; or
			3.5								E) recovery well cycling sample
			4.0								F) Irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
		MW-107								Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

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Located 15' NW of NW corner of berm; Commonly buried by gravel / silt

Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: MW-128
Event: 2H21
Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade ✓	2-in ✓	PVC ✓
Upright	4-in	SS
Vault	Other	Other

Hydrologic Monitoring
for TRC
Houston, Texas

(155)

Well Inspection Information

(careful - may be covered by road gravel)

Initials: SCM

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
9/15/21	930	18.29	20.25	1.96	35.35	25.4	Yes	Yes	Yes	Yes		Weather: pc cloudy, 80s

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
			0.5								*Low-flow groundwater sample:*
			1.0								(A) peristaltic pump w/ ded tubing
			1.5								B) ded bladder pump
			2.0		Not Sampled; LNAPL ≥				0.03		C) non-ded bladder pump; or
			2.5								*Standard groundwater sample:*
			3.0								D) bailer due to limited column; or
			3.5								E) recovery well cycling sample
			4.0								F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
		MW-128								Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

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Bagged extension (when Flooded)

Monitoring Well Purging and Sampling Record

+Trip Blank-REST-03

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: MW-116
Event: 2421
Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade __	2-in ✓	PVC ✓
Upright ✓	4-in __	SS __
Vault __	Other __	Other __

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: TAB

(156)

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection: Cap	Casing	Well Secured	Label	Other	Comments
9/15/21	1000	NP	14.60	0.00	27.63	20.0	yes	yes	yes	yes		Weather: 91/cloudy 70°

Well Purging Record

Date	Time	Depth to Water (Ft TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
9/15/21	1005	14.62	0.5	7.38	23.2	3550	1.7	-256.3	14.2	Yellowish/Colorless	Low-flow groundwater sample:
	1007	14.62	1.0	7.35	23.2	3620	1.5	-256.5	11.6		(A) peristaltic pump w/ ded tubing
	1010	14.62	1.5	7.32	22.8	3710	1.4	-258.4	10.2		B) ded bladder pump
	1013	14.62	2.0	7.30	22.8	3740	1.3	-260.9	9.9		C) non-ded bladder pump; or
	1015	14.62	2.5	7.28	22.6	3750	1.3	-261.8	7.6		Standard groundwater sample:
	1017	14.62	3.0	7.27	22.5	3760	1.2	-262.0	7.0		D) bailer due to limited column; or
	1020	14.62	3.5	7.26	22.5	3770	1.1	-262.1	6.2		E) recovery well cycling sample
	1023	14.62	4.0	7.25	22.5	3780	1.1	-262.3	5.4		F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/l)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
9/15/21	1025	MW-116	14.62	7.25	22.5	3780	1.1	-262.3	5.4	Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

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Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: MW-46R
Event: 2Q21
Area of Concern: TMD

Completion	Casing Diam.	Casing Material
At-Grade ✓	2-in ✓	PVC ✓
Upright __	4-in __	SS __
Vault __	Other __	Other __

N. side of dirt road; in-line with westernmost row of pecan trees; Position marked on adjacent chain-link fence (12' S. of fence)

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: SCM

157

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
9/15/21	1015	NP	11.73	0.00	19.36	14.1	Yes	Yes	Yes	Yes		Weather: Pt. cloudy, 80s

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Curr. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
9/15/21	1025	11.75	0.5	6.65	25.0	2960	2.3	-44.9	11.1	Colorless; clear	*Low-flow groundwater sample:*
	1027	11.75	1.0	6.66	24.9	2960	2.2	-44.1	8.9		(A) peristaltic pump w/ ded tubing
	1030	11.75	1.5	6.66	24.4	2960	2.2	-43.5	8.4		B) ded bladder pump
	1032	11.75	2.0	6.67	24.8	2970	2.1	-42.6	7.1		C) non-ded bladder pump; or
	1035	11.75	2.5	6.68	24.8	2970	2.1	-41.9	6.5		*Standard groundwater sample:*
	1037	11.75	3.0	6.69	24.7	2970	2.0	-41.0	5.9		D) bailer due to limited column; or
	1040	11.75	3.5	6.69	24.7	2970	2.0	-40.6	5.3		E) recovery well cycling sample
	1042	11.75	4.0	6.69	24.7	2970	2.0	-40.3	5.1		F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
9/15/21	1045	MW-46R	11.75	6.69	24.7	2970	2.0	-40.3	5.1	Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN
			No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample									

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Gauge only

Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: RW-#18A
Event: 2H21
Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade __	2-in __	PVC ✓
Upright ✓	4-in ✓	SS
Vault __	Other __	Other __

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: ECY

(12.2) (157.05)

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
9/14/21	820	NP	15.16	0.00	17.78	16.7	Yes	Yes	Yes	Yes		Weather: clear, 70s

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
			0.5								*Low-flow groundwater sample:*
			1.0								(A) peristaltic pump w/ ded tubing
			1.5								B) ded bladder pump
			2.0								C) non-ded bladder pump; or
			2.5								*Standard groundwater sample:*
			3.0								D) baller due to limited column; or
			3.5								E) recovery well cycling sample
			4.0								F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
		RW-#18A								Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; If LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

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[New well installed pre-2H20]

Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: MW-145
Event: 2H21
Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade __	2-in ✓	PVC ✓
Upright ✓	4-in __	SS __
Vault __	Other __	Other __

(Screen: 9-29 ft)

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: SC4

157.1

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
9/14/21	1105	NP	17.92	0.00	32.10	31.10	Yes	Yes	Yes	Yes		Weather: clear, 80s

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
9/14/21	1110	17.95	0.5	6.99	25.6	4730	2.6	56.0	19.3	colorless, clear	*Low-flow groundwater sample:*
	1112	17.95	1.0	6.80	25.3	4750	2.8	93.6	11.3		(A) peristaltic pump w/ ded tubing
	1115	17.95	1.5	6.75	25.0	4750	1.9	99.7	10.0		B) ded bladder pump
	1117	17.95	2.0	6.74	24.9	4750	1.8	101.6	8.2		C) non-ded bladder pump; or
	1120	17.95	2.5	6.73	24.9	4750	1.9	103.8	7.2		*Standard groundwater sample:*
	1122	17.95	3.0	6.72	24.9	4750	1.9	105.3	7.0		D) bailer due to limited column; or
	1125	17.95	3.5	6.72	25.0	4750	1.9	106.9	6.8		E) recovery well cycling sample
	1127	17.95	4.0	6.72	24.9	4760	1.9	107.3	6.7		F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
9/14/21	1130	MW-145	17.95	6.72	24.9	4760	1.9	107.3	6.7	Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

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[New well installed pre-2H20]

Monitoring Well Purging and Sampling Record

+ Dup - REST-04
+ EB - REST-04

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: MW-146
Event: 2H21
Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade __	2-in ✓	PVC ✓
Upright ✓	4-in __	SS __
Vault __	Other __	Other __

(Screen : 10-30 Ft)

Hydrologic Monitoring
for IRC
Houston, Texas

Initials: SCH

157.2

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection: Cap	Casing	Well Secured	Label	Other	Comments
9/14/21	955	NP	21.68	0.00	33.40	32.40	Yes	Yes	Yes	Yes		Weather: Clear, 80s

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
9/14/21	1000	21.70	0.5	6.97	25.1	4948	2.9	64.0	21.0	colorless, clear	*Low-flow groundwater sample:*
	1002	21.70	1.0	6.91	24.7	4910	2.4	98.4	13.3		(A) peristaltic pump w/ ded tubing
	1005	21.76	1.5	6.88	24.5	4896	2.1	101.5	8.7		B) ded bladder pump
	1007	21.70	2.0	6.86	24.4	4860	1.9	103.8	6.6		C) non-ded bladder pump; or
	1010	21.70	2.5	6.84	24.4	4850	1.9	105.4	6.3		*Standard groundwater sample:*
	1012	21.70	3.0	6.83	24.3	4840	1.9	106.8	6.1		D) bailer due to limited column; or
	1015	21.70	3.5	6.83	24.2	4830	1.7	107.9	6.0		E) recovery well cycling sample
	1017	21.70	4.0	6.82	24.2	4830	1.7	108.0	6.0		F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments: Lab: Pace National, Mt. Juliet, TN
9/14/21	1020	MW-146	21.70	6.82	24.2	4830	1.7	108.0	6.0	Per COC	Per COC	
	900	Dup-REST-04	21.70	6.82	24.2	4830	1.7	108.0	6.0	Per COC	Per COC	
	1035	EB-REST-04	NA							Per COC	Per COC	

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

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Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: MW-135
Event: 2H21
Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade ✓	2-in ✓	PVC ✓
Upright __	4-in __	SS __
Vault __	Other __	Other __

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: GDJ

15 of 25 (96)

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
9/14/21	1630	NP	30.31	0.00	65.55	50.0	Ya	Ya	Ya	Ya		Weather: Sunny, 90's

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
9/14/21	1635	30.32	0.5	7.28	21.8	7740	3.8	12.4	4.6	CLEAR	*Low-flow groundwater sample:*
	1637	30.32	1.0	7.02	19.5	8510	3.4	26.7	16.1		A) peristaltic pump w/ ded tubing
	1640	30.32	1.5	6.97	19.0	8620	3.2	29.1	20.8		(B) ded bladder pump
	1643	30.32	2.0	6.93	18.9	8550	3.1	30.6	19.7		C) non-ded bladder pump; or
	1645	30.32	2.5	6.89	18.9	8520	3.1	31.5	17.3		*Standard groundwater sample:*
	1647	30.32	3.0	6.89	19.0	8510	3.1	33.1	16.9		D) bailer due to limited column; or
	1650	30.32	3.5	6.86	18.9	8480	3.1	33.7	17.2		E) recovery well cycling sample
	1653	30.32	4.0	6.85	18.9	8410	3.1	34.6	16.5		F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/l)	Oxidation Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
9/14/21	1655	MW-135	30.32	6.85	18.9	8410	3.1	34.6	16.5	Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

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[New well installed pre-21420]

Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: MW-147
Event: 2421
Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade ✓	2-in ✓	PVC ✓
Upright __	4-in __	SS __
Vault __	Other __	Other __

(Screen : 20-40 Ft)

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: SCH

157.3

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection: Cap	Casing	Well Secured	Label	Other	Comments
9/14/21	830	NP	29.84	0.00	39.83	38.83	YES	YES	YES	YES		Weather: Clear, 70s

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
9/14/21	835	29.84	0.5	6.22	21.2	5690	6.8	112.1	75.1	sl. cloudy; colorless	*Low-flow groundwater sample:*
	837	29.84	1.0	6.32	21.1	5730	6.2	117.5	50.4	↓	A) peristaltic pump w/ ded tubing
	840	29.84	1.5	6.36	21.0	5780	6.4	118.7	45.8		(B) ded bladder pump
	842	29.84	2.0	6.48	20.9	5790	6.4	121.1	42.7		C) non-ded bladder pump; or
	845	29.84	2.5	6.43	21.0	5800	6.5	122.0	38.4	clear	*Standard groundwater sample:*
	847	29.84	3.0	6.51	20.9	5820	6.6	123.9	33.0		D) bailer due to limited column; or
	850	29.84	3.5	6.54	20.9	5830	6.6	125.1	32.5		E) recovery well cycling sample
	852	29.84	4.0	6.55	20.9	5840	6.6	125.3	32.1	↓	F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
9/14/21	855	MW-147	29.84	6.55	20.9	5840	6.6	125.3	32.1	Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

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[New well installed pre-2H20]

Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: MW-148
Event: 2H21
Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade ✓	2-in ✓	PVC ✓
Upright __	4-in __	SS __
Vault __	Other __	Other __

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: SLG

157.4

Well Inspection Information

(Screen: 20-40 Ft)

Date	Time	Depth to LNAPL (Ft TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection: Cap	Casing	Well Secured	Label	Other	Comments
9/14/21	915	NP	35.94	0.00	40.38	39.38	Yes	Yes	Yes	Yes		Weather: clear, 70's

Well Purging Record

* Top of pump @ 33.30' TOC; pulled pump to gauge DTW.

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
9/14/21	925		0.5								*Low-flow groundwater sample:*
			1.0	* Historically, immediately upon starting low-flow purging,							(A) peristaltic pump w/ ded tubing
			1.5	well runs dry; therefore grab sample collected using							(B) ded bladder pump *
			2.0	disposable bailer							C) non-ded bladder pump; or
			2.5								*Standard groundwater sample:*
			3.0								D) bailor due to limited column; or
			3.5								E) recovery well cycling sample
			4.0								F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments (Lab: Pace National, Mt. Juliet, TN)
9/14/21	930	MW-148	NM	6.93	22.1	3740	6.2	106.0	95.0	Per COC	Per COC	sl. cloudy

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

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Furthest west "City well"

Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: UG-3R
Event: 2H21
Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade ✓	2-in __	PVC ✓
Upright __	4-in ✓	SS __
Vault __	Other __	Other __

DO NOT ADDRESS AT ALL - 2H21

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: (158)

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection: Cap	Casing	Well Secured	Label	Other	Comments
9/14/21					38.58	35.6						Weather:

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
			0.5								*Low-flow groundwater sample:*
			1.0								A) peristaltic pump w/ ded tubing
			1.5								B) ded bladder pump
			2.0								C) non-ded bladder pump; or
			2.5								*Standard groundwater sample:*
			3.0								D) bailer due to limited column; or
			3.5								E) recovery well cycling sample
			4.0								F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
		UG-3R								Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

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Location @ Northside park

Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: UG-4
Event:
Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade ✓	2-in ✓	PVC ✓
Upright __	4-in __	SS __
Vault __	Other __	Other

DO NOT ADDRESS AT ALL IN 2021

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: (159)

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection: Cap	Casing	Well Secured	Label	Other	Comments
9/14/21					39.24	34.5						Weather:

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
			0.5								*Low-flow groundwater sample:*
			1.0								(A) peristaltic pump w/ ded tubing
			1.5								B) ded bladder pump
			2.0								C) non-ded bladder pump; or
			2.5								*Standard groundwater sample:*
			3.0								D) bailer due to limited column; or
			3.5								E) recovery well cycling sample
			4.0								F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
		UG-4								Per COC	Per COC	Lab: Pace Nafinnal, Mt. Juliet, TN

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

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North of elementary school

Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: UG-1
Event:
Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade ✓	2-in ✓	PVC ✓
Upright	4-in __	SS __
Vault __	Other __	Other __

DO NOT ADDRESS AT ALL in ZHZ1

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: (160)

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection: Cap	Casing	Well Secured	Label	Other	Comments
9/19/24					24.08	19.1						Weather:

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
			0.5								*Low-flow groundwater sample:*
			1.0								(A) peristaltic pump w/ ded tubing
			1.5								B) ded bladder pump
			2.0								C) non-ded bladder pump; or
			2.5								*Standard groundwater sample:*
			3.0								D) bailer due to limited column; or
			3.5								E) recovery well cycling sample
			4.0								F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
		UG-1								Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

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Located near E-W alley, NW of Artesia Hotel

Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: UG-2
Event:
Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade ✓	2-in __	PVC ✓
Upright __	4-in ✓	SS __
Vault __	Other __	Other __

DO NOT ADDRESS AT ALC in 2H21

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: (161)

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection: Cap	Casing	Well Secured	Label	Other	Comments
9/14/21					24.28	24.3						Weather:

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
			0.5								*Low-flow groundwater sample:*
			1.0								(A) peristaltic pump w/ ded tubing
			1.5								B) ded bladder pump
			2.0								C) non-ded bladder pump; or
			2.5								*Standard groundwater sample:*
			3.0								D) bailer due to limited column; or
			3.5								E) recovery well cycling sample
			4.0								F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
		UG-2								Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

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(Recompleted at-grade prior to 1H20)

Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: MW-101
Event: 2H21
Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade ✓	2-in __	PVC ✓
Upright	4-in ✓	SS __
Vault	Other __	Other __

+ Trip Blank - REST-04

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: TAS (162)

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
9/15/21	900	NP	17.16	0.00	24.10	20.75	yes	yes	yes *	yes		Weather: pt/cloudy ~70°

Well Purging Record

* Exposed PVC (no outer casing)

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (l)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
9/15/21	905	17.21	0.5	7.61	25.4	1925	2.4	-305.3	21.1	clear	*Low-flow groundwater sample:*
	907	17.22	1.0	7.43	25.3	1921	2.1	-312.2	12.4		(A) peristaltic pump w/ ded tubing
	910	17.23	1.5	7.25	25.1	1903	1.8	-325.1	6.8		B) ded bladder pump
	913	17.23	2.0	7.20	24.9	1898	1.6	-327.9	7.2		C) non ded bladder pump; or
	915	17.23	2.5	7.19	24.8	1896	1.4	-330.1	6.3		*Standard groundwater sample:*
	917	17.23	3.0	7.17	24.9	1895	1.3	-331.2	6.4		D) bailer due to limited column; or
	920	17.23	3.5	7.15	24.9	1895	1.3	-331.9	5.7		E) recovery well cycling sample
↓	923	17.23	4.0	7.15	24.8	1896	1.2	-332.7	5.1	↓	F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
9/15/21	925	MW-101	17.23	7.15	24.9	1896	1.2	-332.7	5.1	Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

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Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: MW-105
Event: 2H21
Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade ✓	2-in __	PVC ✓
Upright __	4-in ✓	SS __
Vault __	Other __	Other __

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: TAB (163)

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
9/15/21					17.20	14.2						Weather:

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Curr. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
			0.5								*Low-flow groundwater sample:*
			1.0								(A) peristaltic pump w/ ded tubing
			1.5								B) ded bladder pump
	2H21		2.0	Not	located;	covered	with	gravel	assoc.	w/	C) non-ded bladder pump; or
			2.5								*Standard groundwater sample:*
			3.0					site	construction		D) bailer due to limited column; or
			3.5								E) recovery well cycling sample
			4.0								F) irrigation well grab sample
				(Navajo	was	notified					

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
		MW-105								Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN
			No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample									

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Located in "Doghouse"; Bagged tube

Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: RW-2
Event: 2H21
Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade __	2-in __	PVC ✓
Upright ✓	4-in ✓	SS
Vault __	Other __	Other __

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: TAS (164)

Well Inspection Information Gauge only

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection: Cap	Casing	Well Secured	Label	Other	Comments
9/14/21	1335	17.95	18.70	0.75	36.13	31.1	yes	yes	yes	yes		Weather: Clear 80*

Well Purging Record * Gauge/Sample through labeled 1-in guide-pipe

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
			0.5								*Low-flow groundwater sample:*
			1.0								(A) peristaltic pump w/ ded tubing
			1.5								B) ded bladder pump
			2.0								C) non-ded bladder pump; or
			2.5								*Standard groundwater sample:*
			3.0								D) bailer due to limited column; or
			3.5								E) recovery well cycling sample
			4.0								F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
		RW-2								Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

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Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: MW-61
Event: 2H21
Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade ✓	2-in __	PVC ✓
Upright __	4-in ✓	SS __
Vault __	Other __	Other __

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: TAB (165)

Well Inspection Information

Date	Time	Depth to NAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection: Cap	Casing	Well Secured	Label	Other	Comments
9/14/21	1120	NP	12.73	0.00	29.30	24.3	yes	yes	yes	yes		Weather: Partly Cloudy 80°

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
9/14/21	1125	12.91	0.5	7.36	26.9	2800	1.6	-417.2	9.9	clear	Low-flow groundwater sample:
	1127	12.93	1.0	7.24	26.7	2780	1.4	-417.5	6.2		(A) peristaltic pump w/ ded tubing
	1130	13.22	1.5	7.13	26.7	2770	1.5	-419.3	5.8		B) ded bladder pump
	1133	13.30	2.0	7.06	26.4	2690	1.5	-420.9	4.4		C) non-ded bladder pump; or
	1135	13.40	2.5	7.04	26.3	2680	1.4	-421.5	4.1	Reduced flow	Standard groundwater sample:
	1140	13.50	3.0	7.03	26.3	2670	1.3	-422.2	3.8	Flow 1L/min	D) bailer due to limited column; or
	1145	13.60	3.5	7.03	26.2	2670	1.2	-422.6	3.6		E) recovery well cycling sample
↓	1150	13.64	4.0	7.02	26.1	2660	1.2	-423.0	3.0	↓	F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
9/14/21	1155	MW-61	13.64	7.02	26.1	2660	1.2	-423.0	3.0	Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

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Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: MW-62
Event: 2H21
Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade ✓	2-in __	PVC ✓
Upright __	4-in ✓	SS __
Vault __	Other __	Other __

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: TAB (166)

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
9/14/21	1215	NP	15.92	0.00	29.50	21.3	Yes	Yes	Yes	Yes		Weather: PT Cloudy 80°

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
9/14/21	1220	16.13	0.5	6.74	27.0	2960	4.1	-413.9	5.8	clear/clear	*Low-flow groundwater sample:*
	1223	16.27	1.0	6.73	25.9	2760	3.8	-415.4	5.0		(A) peristaltic pump w/ ded tubing
	1225	16.33	1.5	6.70	25.3	3040	3.4	-414.1	4.4		B) ded bladder pump
	1227	16.39	2.0	6.68	25.0	3240	3.3	-408.5	4.2		C) non-ded bladder pump; or
	1230	16.43	2.5	6.67	27.6	3190	3.2	-406.7	3.6		*Standard groundwater sample:*
	1233	16.46	3.0	6.66	27.6	3180	3.1	-404.1	3.3		D) bailer due to limited column; or
	1235	16.49	3.5	6.66	27.6	3190	3.0	-403.5	3.1		E) recovery well cycling sample
↓	1237	16.51	4.0	6.65	27.7	3200	2.9	-402.6	2.6	↓ ↓	F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
9/14/21	1240	MW-62	16.51	6.65	27.7	3200	2.9	-402.6	2.6	Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

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[New well installed pre-2H20]

Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: MW-62R
Event: 2H21
Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade ✓	2-in ✓	PVC ✓
Upright __	4-in __	SS __
Vault __	Other __	Other __

(Screen: 5-25 Ft)

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: TR RS (1641)

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection: Cap	Casing	Well Secured	Label	Other	Comments
9/14/21	1300	NP	15.61	0.00	24.51	22.51	yes	yes	yes	yes		Weather: Clear 85°

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
9/14/21	1305	15.81	0.5	6.93	27.4	2780	2.9	-365.3	3.1	Clear / odorless	Low-flow groundwater sample:
	1307	15.86	1.0	6.86	26.5	2670	2.7	-362.7	3.0		(A) peristaltic pump w/ ded tubing
	1310	15.88	1.5	6.83	26.1	2640	2.6	-366.2	2.6		B) ded bladder pump
	1313	15.88	2.0	6.80	26.0	2620	2.0	-364.3	2.0		C) non-ded bladder pump; or
	1318	15.88	2.5	6.79	26.0	2620	1.9	-364.1	1.8		Standard groundwater sample:
	1317	15.88	3.0	6.78	26.0	2620	1.8	-364.2	1.5		D) bailer due to limited column; or
	1320	15.88	3.5	6.77	26.0	2610	1.8	-364.3	1.3		E) recovery well cycling sample
↓	1323	15.88	4.0	6.76	25.9	2610	1.8	-363.8	1.1	↓ ↓	F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
9/14/21	1325	MW-62R	15.88	6.76	25.9	2610	1.8	-361.8	1.1	Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

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Gauge only

Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: MW-93
Event: 2H21
Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade ✓	2-in __	PVC ✓
Upright __	4-in ✓	SS __
Vault __	Other __	Other __

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: TAB (167)

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection: Cap	Casing	Well Secured	Label	Other	Comments
9/14/21	1345	*	*	*	20.23	15.9						Weather: Clear 80°

Well Purging Record

* Covered with gravel; unable to locate. Reported to Navajo 9/14/21

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
			0.5								*Low-flow groundwater sample:*
			1.0								(A) peristaltic pump w/ ded tubing
			1.5								B) ded bladder pump
			2.0								C) non-ded bladder pump; or
			2.5								*Standard groundwater sample:*
			3.0								D) bailer due to limited column; or
			3.5								E) recovery well cycling sample
			4.0								F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
		MW-93								Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

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Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: MW-43
Event: 2H21
Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade ___	2-in ___	PVC ✓
Upright ✓	4-in	SS ___
Vault ___	Other 6-in.	Other ___

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: TAB (168)

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
9/14/21	1450	10.80	10.85	0.05	19.67	16.5	yes	yes	yes	yes		Weather: Clear, 80s

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
			0.5								*Low-flow groundwater sample:*
			1.0								(A) peristaltic pump w/ ded tubing
			1.5								B) ded bladder pump
			2.0	NOT Sampled Due to LNAPL					20.03		C) non-ded bladder pump; or
			2.5								*Standard groundwater sample:*
			3.0								D) bailer due to limited column; or
			3.5								E) recovery well cycling sample
			4.0								F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
		MW-43								Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

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Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: MW-137
Event: 2H21
Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade ✓	2-in ✓	PVC ✓
Upright __	4-in __	SS __
Vault __	Other __	Other __

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: TAB (169)

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection: Cap	Casing	Well Secured	Label	Other	Comments
9/4/24	1400	11.70	12.10	0.40	29.60	24.6	yes	yes	yes	yes		Weather: Clear 80s

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
			0.5								*Low-flow groundwater sample:*
			1.0								(A) peristaltic pump w/ ded tubing
			1.5								B) ded bladder pump
			2.0								C) non-ded bladder pump; or
			2.5	NOT SAMPLED DUE TO LNAPL							*Standard groundwater sample:*
			3.0								D) bailer due to limited column; or
			3.5								E) recovery well cycling sample
			4.0								F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
		MW-137								Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

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[New well installed pre-2H20]

Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: MW-137A
Event: 2H21
Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade ✓	2-in ✓	PVC ✓
Upright _	4-in __	SS __
Vault __	Other __	Other __

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: IAB (169.1)

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
9/14/21	1430	11.84	12.44	0.60	14.88		YES	YES	YES	YES		Weather: Clear 80°
						Intake at base of well (if not dry; if no LNAPL; if scheduled for sampling)						

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
			0.5								*Low-flow groundwater sample:*
			1.0								(A) peristaltic pump w/ ded tubing
			1.5								B) ded bladder pump
			2.0	NOT SAMPLED DUE TO LNAPL					20.03		C) non ded bladder pump; or
			2.5								*Standard groundwater sample:*
			3.0								D) bailer due to limited column; or
			3.5								E) recovery well cycling sample
			4.0								F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
		MW-137A								Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

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Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: MW-138
Event: 2H21
Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade ✓	2-in ✓	PVC ✓
Upright __	4-in __	SS __
Vault __	Other __	Other __

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: TAB (170)

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
9/14/21	1420	12.72	16.61	3.89	24.81	19.8	yes	yes	yes	yes		Weather: Clear 80°

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
9/14/21			0.5								*Low-flow groundwater sample:*
			1.0								(A) peristaltic pump w/ ded tubing
			1.5								B) ded bladder pump
			2.0	NOT SAMPLED DUE TO LNAPL						20.03'	C) non-ded bladder pump; or
			2.5								*Standard groundwater sample:*
			3.0								D) bailer due to limited column; or
			3.5								E) recovery well cycling sample
			4.0								F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
		MW-138								Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

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New well installed pre-2H20

Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: MW-138A
Event: 2H21
Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade ✓	2-in ✓	PVC ✓
Upright __	4-in __	SS __
Vault __	Other __	Other __

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: TAB

170.1

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
9/14/21	1410	12.62	12.79	0.17	15.03		YES	YES	YES	YES		Weather: Clear 80s
						(Intake at base of well (if not dry); if no LNAPL; if scheduled for sampling)						

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
			0.5								*Low-flow groundwater sample:*
			1.0								(A) peristaltic pump w/ ded tubing
			1.5								B) ded bladder pump
			2.0	NOT SAMPLED DUE TO LNAPL					≥ 0.03		C) non-ded bladder pump; or
			2.5								*Standard groundwater sample:*
			3.0								D) baller due to limited column; or
			3.5								E) recovery well cycling sample
			4.0								F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
		MW-138A								Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; If LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

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Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: MW-23
Event: 2H21
Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade	2-in	PVC ✓
Upright ✓	4-in	SS
Vault	Other 6-in	Other

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: TAB (171)

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
9/14/21	1355	16.16	18.01	1.85	23.10	17.9	Yes	Yes	Yes	Yes		Weather: Clear 80s°

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
			0.5								*Low-flow groundwater sample:*
			1.0								(A) peristaltic pump w/ ded tubing
			1.5								B) ded bladder pump
			2.0	Not Sampled Due to LNAPL					20.03		C) non-ded bladder pump; or
			2.5								*Standard groundwater sample:*
			3.0								D) bailer due to limited column; or
			3.5								E) recovery well cycling sample
			4.0								F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
		MW-23								Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL and collect groundwater sample

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Monitoring Well Purging and Sampling Record

+ Dup-TEL-01
+ EB-TEL-01

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: TEL-4
Event: 2H21
Area of Concern: TEL

Completion	Casing Diam.	Casing Material
At-Grade __	2-in ✓	PVC __
Upright ✓	4-in __	SS ✓
Vault	Other __	Other __

+ Trip Blank-TEL-01

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: TAB (172)

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection: Cap	Casing	Well Secured	Label	Other	Comments
9/14/21	830	NP	13.05	0.00	27.27	22.2	yes	yes	yes	yes		Weather: pc/cloudy 70°

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Curr. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
9/14/21	805	13.30	0.5	6.26	22.7	4150	2.2	-224.7	17.9	clear	*Low-flow groundwater sample:*
	807	13.30	1.0	6.37	22.6	4010	1.9	-256.4	9.8		(A) peristaltic pump w/ ded tubing
	810	13.30	1.5	6.39	22.5	4020	1.8	-260.1	7.3		B) ded bladder pump
	813	13.30	2.0	6.41	22.5	3960	1.7	-272.8	6.9		C) non-ded bladder pump; or
	815	13.30	2.5	6.43	22.5	3950	1.7	-279.6	5.7		*Standard groundwater sample:*
	817	13.30	3.0	6.44	22.5	3940	1.6	-280.1	5.0		D) bailer due to limited column; or
	820	13.30	3.5	6.45	21.5	3930	1.6	-281.4	4.9		E) recovery well cycling sample
↓	823	13.30	4.0	6.46	22.4	3930	1.6	-281.9	4.7	↓	F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
9/14/21	823	TEL-4	13.30	6.46	22.4	3930	1.6	-281.9	4.7	Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN
	900	DUP-TEL-01	13.30	6.46	22.4	3930	1.6	-281.9	4.7	Per COC	Per COC	
↓	840	EB-TEL-01	NA	—	—	—	—	—	→	Per COC	Per COC	

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

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Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: TEL-3
Event: 2H21
Area of Concern: TEL

Completion	Casing Diam.	Casing Material
At-Grade __	2-in ✓	PVC __
Upright ✓	4-in __	SS ✓
Vault __	Other __	Other __

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: TAB (173)

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
9/14/21	900	13.52	16.91	3.39	27.19	22.2	YES	yes	yes	YES		Weather: 89/cloudy; 70°

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
9/14/21			0.5								*Low-flow groundwater sample:*
			1.0								(A) peristaltic pump w/ ded tubing
			1.5								B) ded bladder pump
			2.0	NOT sampled due LNAPL ≥ 0.03'							C) non-ded bladder pump; or
			2.5								*Standard groundwater sample:*
			3.0								D) bailer due to limited column; or
			3.5								E) recovery well cycling sample
			4.0								F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
		TEL-3								Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

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Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: TEL-2
Event: 2H21
Area of Concern: TEL

Completion	Casing Diam.	Casing Material
At-Grade __	2-in ✓	PVC __
Upright ✓	4-in __	SS ✓
Vault __	Other __	Other

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: TAS (174)

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection: Cap	Casing	Well Secured	Label	Other	Comments
9/14/21	915	16.58	16.18	1.60	27.20	22.1	yes	yes	yes	yes		Weather: 91 F cloudy 20%

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
9/14/21			0.5								*Low-flow groundwater sample:*
			1.0								(A) peristaltic pump w/ ded tubing
			1.5								B) ded bladder pump
			2.0	Not Sampled			Due TO LNAPL			20.03	C) non-ded bladder pump; or
			2.5								*Standard groundwater sample:*
			3.0								D) bailer due to limited column; or
			3.5								E) recovery well cycling sample
			4.0								F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
		TEL-2								Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; If LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

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Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: TEL-1
Event: 2H21
Area of Concern: TEL

Completion	Casing Diam.	Casing Material
At-Grade __	2-in ✓	PVC __
Upright ✓	4-in __	SS ✓
Vault __	Other __	Other __

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: TAG (175)

Well Inspection Information

Date	Time	Depth to NAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection: Cap	Casing	Well Secured	Label	Other	Comments
9/14/21	930	13.95	14.07	0.12	27.00	22.9	YES	YES	YES	YES		Weather: 81 Cloudy 76°

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
9/14/21			0.5								*Low-flow groundwater sample:*
			1.0								(A) peristaltic pump w/ ded tubing
			1.5								B) ded bladder pump
			2.0								C) non-ded bladder pump; or
			2.5	NOT	SAMPLED	DUE TO	LNAPL		20.03'		*Standard groundwater sample:*
			3.0								D) bailer due to limited column; or
			3.5								E) recovery well cycling sample
			4.0								F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
		TEL-1								Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL and collect groundwater sample

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Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: MW-39
Event: 2H21
Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade __	2-in ✓	PVC __
Upright ✓	4-in __	SS ✓
Vault __	Other __	Other __

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: TAS (176)

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
9/14/21	1630	14.98	14.65	0.17	25.44	20.4	yes	yes	yes	yes		Weather: Clear 90°

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
9/14/21			0.5								*Low-flow groundwater sample:*
			1.0								(A) peristaltic pump w/ ded tubing
			1.5								B) ded bladder pump
			2.0								C) non ded bladder pump; or
			2.5	NOT SAMPLED DUE TO LNAPL					≥ 0.03		*Standard groundwater sample:*
			3.0								D) bailer due to limited column; or
			3.5								E) recovery well cycling sample
			4.0								F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
		MW-39								Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

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Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: MW-98
Event: 2H21
Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade ✓	2-in __	PVC ✓
Upright __	4-in ✓	SS __
Vault __	Other __	Other __

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: TA BB (177)

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
9/14/21	1030	ND	12.81	0.00	25.60	21.5	yes	yes	yes	yes		Weather: Cloudy 70s

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
9/14/21	1035	12.86	0.5	6.93	28.3	3200	1.1	-407.8	3.3	Clear/odor	*Low-flow groundwater sample:*
	1037	12.86	1.0	6.88	27.7	3180	0.9	-409.8	3.0		(A) peristaltic pump w/ ded tubing
	1040	12.86	1.5	6.81	26.7	3190	1.1	-410.2	2.8		B) ded bladder pump
	1043	12.87	2.0	6.79	26.5	3190	1.1	-414.3	2.6		C) non-ded bladder pump; or
	1045	12.87	2.5	6.77	26.2	3160	1.2	-414.2	2.2		*Standard groundwater sample:*
	1047	12.88	3.0	6.76	26.1	3150	1.2	-415.3	2.0		D) bailer due to limited column; or
	1050	12.88	3.5	6.76	26.1	3140	1.3	-416.4	1.8		E) recovery well cycling sample
↓	1053	12.89	4.0	6.76	26.0	3140	1.3	-414.9	1.6	↓ ↓	F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
9/14/21	1055	MW-98	12.89	6.76	26.0	3140	1.3	-414.9	1.6	Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

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Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: RW-10
Event: 2H21
Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade __	2-in __	PVC ✓
Upright ✓	4-in __	SS __
Vault __	Other 8-in	Other __

Hydrologic Monitoring
for TRC
Houston, Texas

(178)

Well Inspection Information The former RW-10 is permanently covered by heavy steel box. Current RW-10 is the stand-pipe ~50' South of former RW-10 per Navajo. Initials: TAB

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
9/14/21	940	13.95	16.99	3.04	22.49	17.5	yes	yes	yes	yes		Weather: pt/cloudy 70°

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
			0.5								*Low-flow groundwater sample:*
			1.0								(A) peristaltic pump w/ ded tubing
			1.5								B) ded bladder pump
			2.0								C) non-ded bladder pump; or
			2.5								*Standard groundwater sample:*
			3.0								D) bailer due to limited column; or
			3.5								E) recovery well cycling sample
			4.0								F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
		RW-10								Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03"; if LNAPL thickness is measured at 0.01" or 0.02", remove LNAPL, and collect groundwater sample

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Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: MW-40
Event: 2H21
Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade __	2-in ✓	PVC ✓
Upright ✓	4-in __	SS __
Vault __	Other __	Other __

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: TAS (179)

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
9/4/21	1640	19.24	16.78	4.54	24.75	21.8	yes	yes	yes	yes	*	Weather: Clear 80s

* Site has scraped soil in/around pad area

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
			0.5								*Low-flow groundwater sample:*
			1.0								(A) peristaltic pump w/ ded tubing
			1.5								B) ded bladder pump
			2.0								C) non-ded bladder pump; or
			2.5								*Standard groundwater sample:*
			3.0								D) bailer due to limited column; or
			3.5								E) recovery well cycling sample
			4.0								F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
		MW-40								Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

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Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: MW-41
Event: 2H21
Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade __	2-in ✓	PVC ✓
Upright ✓	4-in	SS __
Vault __	Other __	Other __

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: TAB (180)

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
9/14/21	1600	12.05	12.89	0.84	21.56	18.6	YES	YES	YES	YES		Weather: Clear 80s

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
			0.5								*Low-flow groundwater sample:*
			1.0								(A) peristaltic pump w/ ded tubing
			1.5								B) ded bladder pump
			2.0								C) non-ded bladder pump; or
			2.5								*Standard groundwater sample:*
			3.0								D) bailer due to limited column; or
			3.5								E) recovery well cycling sample
			4.0								F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
		MW-41								Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; If LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

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Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: RW-9
Event: 2H21
Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade __	2-in __	PVC ✓
Upright ✓	4-in __	SS __
Vault __	Other 8-in	Other __

Hydrologic Monitoring
for TRC
Houston, Texas

(181)

Well Inspection Information The former RW-9 is permanently covered by heavy steel box, ~50' East of former RW-9, per Navajo. Initials: TAB

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
9/14/21	1620	NP	14.36	0.00	21.83	16.8	yes	yes	yes	yes		Weather: Clear 80°

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
			0.5								*Low-flow groundwater sample:*
			1.0								(A) peristaltic pump w/ ded tubing
			1.5								B) ded bladder pump
			2.0								C) non-ded bladder pump; or
			2.5								*Standard groundwater sample:*
			3.0								D) bailer due to limited column; or
			3.5								E) recovery well cycling sample
			4.0								F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
		RW-9								Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

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Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: MW-42
Event: 2H21
Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade __	2-in ✓	PVC ✓
Upright ✓	4-in __	SS __
Vault __	Other __	Other __

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: TAR (182)

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
9/14/21	1550	NP	14.66	0.00	24.32	21.3	yes	yes	yes	yes		Weather: Clear 80°

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
			0.5								*Low-flow groundwater sample:*
			1.0								(A) peristaltic pump w/ ded tubing
			1.5								B) ded bladder pump
			2.0								C) non-ded bladder pump; or
			2.5								*Standard groundwater sample:*
			3.0								D) bailer due to limited column; or
			3.5								E) recovery well cycling sample
			4.0								F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
		MW-42								Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample.

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Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: MW-29
Event: 2H21
Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade __	2 In __	PVC ✓
Upright ✓	4-in __	SS __
Vault __	Other 6-in	Other __

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: TAB / MDB (183)

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
9/14/21	1650	ND	19.74	0.00	24.22	19.2	Yes	yes	yes	yes		Weather: Clear 80°
9-15-21	1000	ND	19.87									

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
9-15-21	1005	19.88	0.5	6.75	28.0	5840	3.5	-163.7	8.2	Clear / colorless	*Low-flow groundwater sample:*
	1009	19.88	1.0	6.72	27.8	5830	2.9	-165.3	7.9		(A) peristaltic pump w/ ded tubing
	1012	19.88	1.5	6.71	27.7	5830	2.7	-166.4	7.5		B) ded bladder pump
	1017	19.88	2.0	6.71	27.7	5830	2.6	-167.6	7.2		C) non-ded bladder pump; or
	1015	19.89	2.5	6.70	27.6	5840	2.5	-168.5	6.8		*Standard groundwater sample:*
	1017	19.89	3.0	6.70	27.6	5840	2.4	-169.1	6.4		D) bailer due to limited column; or
	1020	19.89	3.5	6.70	27.6	5840	2.3	-169.8	6.3		E) recovery well cycling sample
	1022	19.89	4.0	6.70	27.5	5840	2.3	-170.0	6.1		F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
												Lab: Pace National, Mt. Juliet, TN
9-15-21	1024	MW-29	19.89	6.71	27.5	5840	2.3	-170.0	6.1	Per COC	Per COC	
			No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample									

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Monitoring Well Purging and Sampling Record

Gauge only

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: RW-#16B
Event: 2H21
Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade __	2-in __	PVC ✓
Upright ✓	4-in __	SS __
Vault	Other 8-in	Other __

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: IAB (184)

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
9/14/21	1540	NP	15.72	0.00	17.70	14.7	Yes	Yes	Yes	Yes		Weather: Clear 85°
							1	1	1	1		

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
			0.5								*Low-flow groundwater sample:*
			1.0								(A) peristaltic pump w/ ded tubing
			1.5								B) ded bladder pump
			2.0								C) non-ded bladder pump; or
			2.5								*Standard groundwater sample:*
			3.0								D) bailer due to limited column; or
			3.5								E) recovery well cycling sample
			4.0								F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
		RW-#16B								Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

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Gauge only

Monitoring Well Purging and Sampling Record (Not in "Sampling" Program)

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: MW-30
Event: 2H21
Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade __	2-in __	PVC ✓
Upright ✓	4-in __	SS __
Vault __	Other 6-in	Other __

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: TAB

(185)

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection: Cap	Casing	Well Secured	Label	Other	Comments
9/14/21 (9/14/21)	1510	NP	14.20	0.00	23.50	NS	YES	YES	YES	YES		Weather: Clear 80s

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
			0.5								*Low-flow groundwater sample:*
			1.0								A) peristaltic pump w/ ded tubing
			1.5								B) ded bladder pump
			2.0								C) non-ded bladder pump; or
			2.5								*Standard groundwater sample:*
			3.0								D) bailer due to limited column; or
			3.5								E) recovery well cycling sample
			4.0								F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
		MW-30								Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

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Gauge only

Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: MW-56
Event: 2H21
Area of Concern: NCL

Completion	Casing Diam.	Casing Material
At-Grade __	2-in ✓	PVC ✓
Upright ✓	4-in __	SS __
Vault __	Other __	Other __

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: TPB (186)

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
9/14/21	1530	n/p	14.85	0.00	26.50	21.4	yes	yes	yes	yes		Weather: Clear 80s

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/l)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
			0.5								*Low-flow groundwater sample:*
			1.0								(A) peristaltic pump w/ ded tubing
			1.5								B) ded bladder pump
			2.0								C) non-ded bladder pump; or
			2.5								*Standard groundwater sample:*
			3.0								D) bailer due to limited column; or
			3.5								E) recovery well cycling sample
			4.0								F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/l)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
		MW-56								Per COC	Per COC	Lab: Pace National, Mt. Juliet TN

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

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Located under yellow barricade

Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: MW-49
Event: 2H21
Area of Concern: TEL

Completion	Casing Diam.	Casing Material
At-Grade ✓	2-in ✓	PVC ✓
Upright __	4-in __	SS __
Vault __	Other __	Other __

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: TAB/MDB (187)

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
9/14/21	1650	NP	12.46	0.00	33.07	27.8	yes	yes	yes	yes		Weather: Clear 80°
9-15-21	815	NP	12.52	0.00								

Well Purging Record

Date	Time	Depth to Water (Ft TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
9-15-21	820	12.68	0.5	6.84	27.1	3420	4.8	-317.5	11.9	Clear/colorless/odor	*Low-flow groundwater sample:*
	822	12.72	1.0	6.80	26.8	3440	3.7	-320.4	10.6		(A) peristaltic pump w/ ded tubing
	825	12.74	1.5	6.78	26.7	3290	3.2	-320.6	9.5		B) ded bladder pump
	827	12.75	2.0	6.76	26.6	3200	3.0	-319.2	8.7		C) non-ded bladder pump; or
	830	12.75	2.5	6.76	26.5	3160	2.9	-322.8	8.4		*Standard groundwater sample:*
	832	12.75	3.0	6.75	26.5	3110	2.8	-324.6	7.7		D) bailer due to limited column; or
	835	12.75	3.5	6.74	26.5	3080	2.7	-331.8	7.1		E) recovery well cycling sample
	837	12.75	4.0	6.74	26.5	3040	2.7	-336.9	6.9		F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
												Lab: Pace National, Mt. Juliet, TN
9-15-21	840	MW-49	12.75	6.74	26.5	3040	2.7	-336.9	6.9	Per COC	Per COC	
			No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'. If LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample									

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May get covered with gravel

Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: MW-106
Event: 2H21
Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade ✓	2-in __	PVC ✓
Upright __	4-in ✓	SS __
Vault __	Other __	Other __

Hydrologic Monitoring
for TRC
Houston, Texas

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Well Inspection Information *Located in-line with the Final letter "A" from "Ammonia" sign on grey tank with yellow ladder. Initials: TAB

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
9/15/21					22.80	17.5						Weather:

Well Purging Record

Date	Time	Depth to Water (Ft TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
			0.5								*Low-flow groundwater sample:*
		2H21	1.0	Not Located,							(A) peristaltic pump w/ ded tubing
			1.5	Cover with gravel			assoc. w/		site construction		B) ded bladder pump
			2.0								C) non-ded bladder pump; or
			2.5								*Standard groundwater sample:*
			3.0								D) bailer due to limited column; or
			3.5	(Navajo	was	not	notified)				E) recovery well cycling sample
			4.0								F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
		MW-106								Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

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Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: MW-45
Event: 2H21
Area of Concern: NCL

Completion	Casing Diam.	Casing Material
At-Grade ✓	2-in ✓	PVC ✓
Upright __	4-in __	SS
Vault __	Other __	Other __

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: TAB / MAB

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Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
9-15-21	905	NP	9.83	0.00	15.05	12.3	Yes	Yes	Yes	Yes		Weather: Pt. Cloudy 80s

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
9-15-21	910	9.87	0.5	7.04	27.5	5020	3.5	-155.2	9.9	Clear/Colorless	*Low-flow groundwater sample:*
	915	9.87	1.0	7.01	27.3	5050	3.0	-153.7	8.4		(A) peristaltic pump w/ ded tubing
	915	9.87	1.5	7.00	27.0	5060	2.7	-151.6	7.2		B) ded bladder pump
	917	9.87	2.0	6.99	26.8	5080	2.5	-150.0	6.5		C) non-ded bladder pump; or
	920	9.87	2.5	6.98	26.7	5090	2.3	-147.1	5.2		*Standard groundwater sample:*
	921	9.87	3.0	6.97	26.6	5080	2.2	-152.2	4.6		D) bailer due to limited column; or
	925	9.87	3.5	6.96	26.6	5080	2.1	-149.3	3.9		E) recovery well cycling sample
	927	9.87	4.0	6.96	26.5	5080	2.1	-146.7	3.4		F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
9-15-21	930	MW-45	9.87	6.96	26.5	5080	2.1	-146.7	3.4	Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

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SW corner of Louder Bldg. Installed 2019.

Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: MW-139
Event: 2021
Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade ✓	2-in ✓	PVC ✓
Upright __	4-in __	SS __
Vault __	Other __	Other __

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: ESM (190)

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
9.14.21	1535	NP	13.33	0.00	29.60	24.6	Yes	Yes	Yes	Yes		Weather: Sunny 90's

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
9.14.21	1540	13.38	0.5	6.96	25.9	2990	1.7	-247.2	8.2	Colorless / clear	*Low-flow groundwater sample:*
	1542	13.39	1.0	6.95	25.7	2910	1.5	-249.8	6.5	↓	(A) peristaltic pump w/ ded tubing
	1545	13.39	1.5	6.95	25.7	2870	1.4	-251.3	6.1		B) ded bladder pump
	1547	13.40	2.0	6.94	25.6	2860	1.2	-252.1	5.4		C) non-ded bladder pump; or
	1550	13.40	2.5	6.93	25.6	2840	1.1	-252.7	4.8		*Standard groundwater sample:*
	1552	13.40	3.0	6.93	25.6	2830	1.0	-253.4	3.6		D) bailer due to limited column; or
	1555	13.40	3.5	6.92	25.5	2820	1.0	-254.5	3.4		E) recovery well cycling sample
↓	1557	13.40	4.0	6.92	25.5	2830	1.1	-254.9	3.1	↓	F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
9.14.21	1600	mw-139	13.40	6.92	25.5	2830	1.1	-254.9	3.1	Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN
			No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample									

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Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: MW-50
Event: 2H21
Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade __	2-in ✓	PVC ✓
Upright ✓	4-in __	SS
Vault __	Other __	Other

Hydrologic Monitoring
for TRC
Houston, Texas

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Well Inspection Information *Located in Artesia Wool laydown yard, N. of main warehouse.

Initials: RJM

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
9.14.21	915	NP	13.50	0.00	28.22	24.1	Yes	Yes	Yes	Yes		Weather: Sunny 70's

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
9.14.21	920	13.52	0.5	6.85	24.9	8210	2.2	-25.7	8.8	Colorless / Clear	*Low-flow groundwater sample:*
↓	922	13.52	1.0	6.83	24.5	8200	2.0	-21.3	8.0	↓	(A) peristaltic pump w/ ded tubing
↓	925	13.53	1.5	6.83	24.4	8190	1.9	-20.9	7.3	↓	B) ded bladder pump
↓	927	13.53	2.0	6.82	24.3	8190	1.9	-18.4	6.4	↓	C) non-ded bladder pump; or
↓	930	13.53	2.5	6.81	24.7	8170	1.8	-17.8	6.2	↓	*Standard groundwater sample:*
↓	932	13.54	3.0	6.81	24.2	8160	1.8	-17.2	6.0	↓	D) bailer due to limited column; or
↓	935	13.54	3.5	6.81	24.1	8150	1.8	-16.5	6.1	↓	E) recovery well cycling sample
↓	937	13.54	4.0	6.80	24.1	8140	1.7	-15.1	5.3	↓	F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
												Lab: Pace National, Mt. Juliet, TN
9.14.21	940	MW-50	13.54	6.80	24.1	8140	1.7	-15.1	5.3	Per COC	Per COC	
			No groundwater sample collected if LNAPL thickness is greator than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample									

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Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: MW-97
Event: 2H21
Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade ✓	2-in __	PVC ✓
Upright	4-in ✓	SS __
Vault __	Other __	Other __

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: RJM (192)

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
9.14.21	845	NM	NM	NM	21.20	5' aff	NA	NA	NA	NA		Weather: Sunny 70's
						base						

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
			0.5								*Low-flow groundwater sample:*
			1.0								(A) peristaltic pump w/ ded tubing
			1.5		As noted in Previous events;						B) ded bladder pump
			2.0		unable to locate. Searched						C) non-ded bladder pump; or
			2.5		extensively for well; Reported to Navajo						*Standard groundwater sample:*
			3.0								D) bailer due to limited column; or
			3.5								E) recovery well cycling sample
			4.0								F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
		MW-97								Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN
			No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample									

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Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: MW-92
Event: 2H21
Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade __	2-in __	PVC ✓
Upright ✓	4-in ✓	SS __
Vault __	Other __	Other __

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: RJM (193)

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
9.14.21	830	13.48	14.30	0.82	22.60	17.6	yes	yes	yes	yes		Weather: Sunny 70's

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
			0.5								*Low-flow groundwater sample:*
			1.0								(A) peristaltic pump w/ ded tubing
			1.5								B) ded bladder pump
			2.0		Not Sampled; LNAPL ≥ 0.03						C) non-ded bladder pump; or
			2.5								*Standard groundwater sample:*
			3.0								D) bailer due to limited column; or
			3.5								E) recovery well cycling sample
			4.0								F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/l)	Oxidation Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
		MW-92								Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; If LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

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Bagged tube

Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: RW-1
Event: 2H21
Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade __	2-in __	PVC ✓
Upright ✓	4-in ✓	SS __
Vault __	Other __	Other __

Gauge only

Hydrologic Monitoring
for TRC
Houston, Texas

Well Inspection Information In "doghouse"; gauge/sample through 4-in guide-pipe

Initials: R.J.M (194)

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection: Cap	Casing	Well Secured	Label	Other	Comments
9.14.21	810	15.13	17.90	2.77	35.39	30.4	Yes	Yes	Yes	Yes		Weather: Sunny, 70's

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
			0.5								*Low-flow groundwater sample:*
			1.0								(A) peristaltic pump w/ ded tubing
			1.5								B) ded bladder pump
			2.0								C) non-ded bladder pump; or
			2.5								*Standard groundwater sample:*
			3.0								D) bailer due to limited column; or
			3.5								E) recovery well cycling sample
			4.0								F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
		RW-1								Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

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Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: MW-91
Event: 2H21
Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade __	2-in __	PVC ✓
Upright ✓	4-in ✓	SS __
Vault __	Other __	Other __

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: RJM (195)

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
9.14.21	755	13.13	13.34	0.21	25.35	17.9	yes	yes	yes	yes		Weather: Sunny 70's

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
9.14.21			0.5								*Low-flow groundwater sample:*
			1.0								(A) peristaltic pump w/ ded tubing
			1.5								B) ded bladder pump
			2.0		Not Sampled; LNAPL ≥ 0.03						C) non-ded bladder pump; or
			2.5								*Standard groundwater sample:*
			3.0								D) bailer due to limited column; or
			3.5								E) recovery well cycling sample
			4.0								F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
		MW-91								Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN
			No groundwater sample collected if LNAPL thickness is greater then, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample									

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Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: MW-90
Event: 2H21
Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade __	2-in __	PVC ✓
Upright ✓	4-in ✓	SS __
Vault __	Other __	Other __

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: RJM (196)

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection: Cap	Casing	Well Secured	Label	Other	Comments
9.14.21	1035	NP	12.61	0.00	22.80	21.5	Yes	Yes	Yes	Yes		Weather: Sunny 80's

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
9.14.21	1040	12.65	0.5	6.89	27.5	4300	1.9	-311.4	10.6	Colorless / clear	*Low-flow groundwater sample:*
	1042	12.68	1.0	6.86	27.3	3950	1.9	-329.5	9.7		(A) peristaltic pump w/ ded tubing
	1045	12.71	1.5	6.84	27.2	3670	1.8	-350.6	9.4		B) ded bladder pump
	1047	12.75	2.0	6.81	27.2	3580	1.9	-371.2	8.9		C) non-ded bladder pump; or
	1050	12.79	2.5	6.79	27.1	3540	1.7	-369.5	8.7		*Standard groundwater sample:*
	1052	12.81	3.0	6.78	26.9	3510	1.6	-364.8	8.8		D) bailor due to limited column; or
	1055	12.83	3.5	6.77	26.8	3490	1.6	-365.0	8.5		E) recovery well cycling sample
▽	1057	12.85	4.0	6.77	26.8	3470	1.5	-362.3	8.0	▽	F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
9.14.21	1100	MW-90	12.85	6.77	26.8	3470	1.5	-362.3	8.0	Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN
			No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample									

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Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: MW-96
Event: 2H21
Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade __	2-in __	PVC ✓
Upright ✓	4-in ✓	SS __
Vault	Other __	Other __

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: RJM (197)

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
9.14.21	1135	NP	13.09	0.00	25.57	21.2	Yes	Yes	Issue	Yes		Weather: Sunny 80's

Well was struck prior to 2H17 event, hinge is broken, well not secure.

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
9.14.21	1140	13.09	0.5	6.90	27.4	2320	2.0	-324.9	9.0	Colorless/Clear	*Low-flow groundwater sample:*
	1142	13.11	1.0	6.89	27.0	2280	1.8	-345.2	7.6		(A) peristaltic pump w/ ded tubing
	1145	13.14	1.5	6.87	26.5	2240	1.8	-358.4	7.2		B) ded bladder pump
	1147	13.16	2.0	6.84	26.3	2210	1.7	-361.3	6.5		C) non-ded bladder pump; or
	1150	13.18	2.5	6.83	26.1	2190	1.7	-365.2	5.9		*Standard groundwater sample:*
	1152	13.19	3.0	6.82	25.9	2170	1.7	-369.7	5.2		D) bailer due to limited column; or
	1155	13.20	3.5	6.80	25.7	2160	1.6	-371.1	4.5		E) recovery well cycling sample
↓	1157	13.21	4.0	6.80	25.6	2140	1.6	-373.4	4.2	↓	F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
9.14.21	1200	MW-96	13.21	6.80	25.6	2140	1.6	-373.4	4.2	Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN
			No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample									

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Bagged tube

Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: MW-94
Event: 2H21
Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade __	2-in __	PVC ✓
Upright ✓	4-in ✓	SS __
Vault __	Other	Other __

Hydrologic Monitoring
for TRC
Houston, Texas

(198)

Initials: BA

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
9-14-21	815	15.56	18.09	2.53	23.45	16.0	Yes	Yes	Yes	Yes		Weather: Sunny, 60s

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
			0.5								*low-flow groundwater sample:*
			1.0								A) peristaltic pump w/ ded tubing
			1.5								B) ded bladder pump
			2.0		NOT SAMPLED		- LNAPL ≥ 0.03				C) non-ded bladder pump; or
			2.5								*Standard groundwater sample:*
			3.0								D) bailer due to limited column; or
			3.5								E) recovery well cycling sample
			4.0								F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
		MW-94								Per COC	Per COC	Lab: Pace National, Mt. Juliet TN

No groundwater sample collected if LNAPL thickness is greater then, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

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Bagged tube Gauge only

Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: RW-8
Event: 2H21
Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade __	2-in __	PVC ✓
Upright ✓	4-in ✓	SS __
Vault __	Other __	Other __

Hydrologic Monitoring
for TRC
Houston, Texas

(199)

Well Inspection Information In "doghouse"; gauge/sample through 1-in. guide-pipe.

Initials: BA

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft TOC)	Well Inspection: Cap	Casing	Well Secured	Label	Other	Comments
9-14-21	805	14.24	15.68	1.48	37.22	35.2	YES	YES	YES	YES		Weather: Sunny, 60s

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
			0.5								*Low-flow groundwater sample:*
			1.0								(A) peristaltic pump w/ ded tubing
			1.5								B) ded bladder pump
			2.0								C) non-ded bladder pump; or
			2.5								*Standard groundwater sample:*
			3.0								D) bailer due to limited column; or
			3.5								E) recovery well cycling sample
			4.0								F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
										Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

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Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: MW-67
Event: 2H21
Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade ✓	2 in __	PVC ✓
Upright __	4 in ✓	SS __
Vault __	Other __	Other __

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: BA

200

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
9-14-21	755	12.54	13.15	0.61	27.30	19.9	YES	YES	YES	YES		Weather: Sunny, 60's

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
			0.5								*Low-flow groundwater sample:*
			1.0								(A) peristaltic pump w/ ded tubing
			1.5								B) ded bladder pump
			2.0		NO SAMPLE;	LNAPL	70.03				C) non-ded bladder pump; or
			2.5								*Standard groundwater sample:*
			3.0								D) bailer due to limited column; or
			3.5								E) recovery well cycling sample
			4.0								F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
		MW-67								Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

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Gauge only

Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: MW-95
Event: 2H21
Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade __	2-in __	PVC ✓
Upright ✓	4-in ✓	SS __
Vault __	Other __	Other __

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: RJM (201)

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
9.14.21	1330	15.15	15.82	0.67	25.37	20.4	Yes	Yes	Yes	Yes		Weather: Sunny 90's

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
			0.5								*Low-flow groundwater sample:*
			1.0								(A) peristaltic pump w/ ded tubing
			1.5								B) ded bladder pump
			2.0								C) non-ded bladder pump; or
			2.5								*Standard groundwater sample:*
			3.0								D) bailer due to limited column; or
			3.5								E) recovery well cycling sample
			4.0								F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
		MW-95								Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

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Gauge only

Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: RW-7
Event: 2H21
Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade __	2-in __	PVC ✓
Upright ✓	4-in ✓	SS __
Vault __	Other __	Other __

Hydrologic Monitoring
for TRC
Houston, Texas

Well Inspection Information In "doghouse"; gauge / sample through 1-in guide-pipe.

Initials: BA (202)

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
9.14.21	825	16.46	16.99	0.53	37.00	32.0	Yes	Yes	Yes	Yes		Weather: Sunny, 60's

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
			0.5								*Low-flow groundwater sample:*
			1.0								(A) peristaltic pump w/ ded tubing
			1.5								B) ded bladder pump
			2.0								C) non-ded bladder pump; or
			2.5								*Standard groundwater sample:*
			3.0								D) bailer due to limited column; or
			3.5								E) recovery well cycling sample
			4.0								F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
		RW-7								Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01" or 0.02', remove LNAPL, and collect groundwater sample

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Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: NCL-34A
Event: 2H21
Area of Concern: NCL

Completion	Casing Diam.	Casing Material
At-Grade __	2-in ✓	PVC ✓
Upright ✓	4-in __	SS __
Vault __	Other __	Other __

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: BA

(203)

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
9-14-21	835	13.80	16.21	2.41	19.26	16.8	YES	YES	YES	YES		Weather: Sunny, 60s
									Lock			

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
			0.5								*Low-flow groundwater sample:*
			1.0								(A) peristaltic pump w/ ded tubing
			1.5								B) ded bladder pump
			2.0		NO SAMPLE - 0.03 of LNAPL						C) non-ded bladder pump; or
			2.5								*Standard groundwater sample:*
			3.0								D) bailer due to limited column; or
			3.5								E) recovery well cycling sample
			4.0								F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
		NCL-34A								Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

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Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: NCL-33
Event: 2H21
Area of Concern: NCL

Completion	Casing Diam.	Casing Material
At-Grade __	2-in ✓	PVC ✓
Upright ✓	4-in __	SS __
Vault __	Other __	Other __

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: BA (204)

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
9-14-21	1005	ND	12.22	0.00	19.60	17.7	YES	YES	YES	YES		Weather: SUNNY, 70s

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
9-14-21	1010	12.35	0.5	6.74	23.3	4020	2.0	-48.6	15.1	clear, color less	*Low-flow groundwater sample:*
	1013	12.44	1.0	6.70	22.8	4030	1.8	-40.1	14.0	↓	(A) peristaltic pump w/ ded tubing
	1015	12.51	1.5	6.66	22.0	4040	1.6	-38.2	13.6		B) ded bladder pump
	1018	12.57	2.0	6.64	21.9	4050	1.4	-36.6	12.9		C) non-ded bladder pump; or
	1020	12.63	2.5	6.62	21.7	4050	1.2	-35.5	11.7		*Standard groundwater sample:*
	1023	12.69	3.0	6.60	21.6	4050	1.2	-34.1	11.0		D) bailer due to limited column; or
	1025	12.72	3.5	6.58	21.6	4060	1.1	-33.7	10.5		E) recovery well cycling sample
↓	1028	12.75	4.0	6.56	21.5	4060	1.1	-33.0	9.9	↓	F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
9-14-21	1030	NCL-33	12.75	6.56	21.5	4060	1.1	-33.0	9.9	Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

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Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: NCL-44
Event: 2H21
Area of Concern: NCL

Completion	Casing Diam.	Casing Material
At-Grade __	2-in ✓	PVC ✓
Upright ✓	4-in __	SS __
Vault	Other __	Other __

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: BA

(205)

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
9-14-21	925	NP	12.14	0.00	21.34	16.3	Yes	Yes	Yes	Yes		Weather: Sunny, 70's

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
9-14-21	930	12.20	0.5	6.70	21.6	2700	1.9	-97.0	10.0	clear, colorless	*Low-flow groundwater sample:*
	933	12.21	1.0	6.74	21.1	2690	1.7	-100.1	9.4		(A) peristaltic pump w/ ded tubing
	935	12.21	1.5	6.71	20.9	2650	1.5	-103.7	8.9		B) ded bladder pump
	938	12.21	2.0	6.71	20.6	2640	1.4	-105.1	8.3		C) non-ded bladder pump; or
	940	12.21	2.5	6.71	20.5	2630	1.4	-107.0	7.8		*Standard groundwater sample:*
	943	12.21	3.0	6.70	20.5	2620	1.3	-107.9	7.2		D) bailer due to limited column; or
	945	12.21	3.5	6.70	20.4	2620	1.3	-108.3	6.7		E) recovery well cycling sample
	948	12.21	4.0	6.69	20.4	2610	1.2	-108.8	6.0		F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
9-14-21	950	NCL-44	12.21	6.69	20.4	2610	1.2	-108.8	6.0	Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

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Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: NCL-32
Event: 2H21
Area of Concern: NCL

Completion	Casing Diam.	Casing Material
At-Grade ✓	2-in ✓	PVC ✓
Upright	4-in	SS
Vault	Other	Other

Hydrologic Monitoring
for TRC
Houston, Texas

(206)

Initials: BA

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
9-14-21	845	NP	12.39	0.00	20.04	18.1	YES	YES	YES	YES		Weather: Sunny, 70's

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
9-14-21	850	12.41	0.5	6.50	20.5	2790	2.0	44.3	18.6	Clear, colorless	*Low-flow groundwater sample:*
↓	853	12.45	1.0	6.58	20.0	2750	1.6	34.9	18.0		(A) peristaltic pump w/ ded tubing
	855	12.47	1.5	6.62	19.9	2740	1.4	32.9	17.4		B) ded bladder pump
	858	12.47	2.0	6.64	19.9	2740	1.3	30.7	16.9		C) non-ded bladder pump; or
	900	12.47	2.5	6.66	19.8	2730	1.1	29.2	16.1		*Standard groundwater sample:*
	903	12.47	3.0	6.68	19.7	2720	1.1	28.8	15.7		D) bailer due to limited column; or
	905	12.47	3.5	6.70	19.4	2720	1.1	28.5	15.0		E) recovery well cycling sample
↓	908	12.47	4.0	6.72	19.3	2710	1.0	28.0	14.8	↓ ↓	F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
9-14-21	910	NCL-32	12.47	6.72	19.3	2710	1.0	28.0	14.8	Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

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*Access on foot

Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: MW-108
Event: 2H21
Area of Concern: NCL

Completion	Casing Diam.	Casing Material
At-Grade __	2-in __	PVC ✓
Upright ✓	4-in ✓	SS __
Vault __	Other __	Other

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: RJM (207)

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
9.14.21	1235	NP	16.10	0.00	27.74	22.5	yes	yes	yes	yes		Weather: Sunny 90's

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
9.14.21	1240	16.19	0.5	7.02	27.0	2150	1.2	-336.4	12.4	Colorless/Clear	*Low-flow groundwater sample:*
|	1242	16.25	1.0	6.99	26.7	2090	1.0	-346.5	9.7	|	(A) peristaltic pump w/ ded tubing
|	1245	16.31	1.5	6.97	26.4	2050	1.0	-349.2	9.2	|	B) ded bladder pump
|	1247	16.36	2.0	6.98	26.3	2030	0.9	-353.8	8.8	|	C) non-ded bladder pump; or
|	1250	16.40	2.5	6.96	26.1	2010	0.9	-356.1	8.3	|	*Standard groundwater sample:*
|	1252	16.44	3.0	6.95	25.9	1998	0.9	-358.0	8.1	|	D) bailer due to limited column; or
|	1255	16.46	3.5	6.95	25.8	1987	0.8	-360.5	7.7	|	E) recovery well cycling sample
↓	1257	16.49	4.0	6.94	25.6	1981	0.8	-362.3	7.5	↓	F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
9.14.21	1300	MW-108	16.49	6.94	25.6	1981	0.8	-362.3	7.5	Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN
			No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample									

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SW of NCL field

Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: NCL-31
Event: 2H21
Area of Concern: NCL

Completion	Casing Diam.	Casing Material
At-Grade __	2-in ✓	PVC ✓
Upright ✓	4-in __	SS __
Vault __	Other __	Other __

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: BH

(208)

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft TOC)	Well Inspection: Cap	Casing	Well Secured	Label	Other	Comments
9-14-21	1105	NP	12.52	0.00	20.16	17.4	NO *	YES	YES	YES		Weather: Sunny, 80's

* unable to close protective lid and fit cap, therefore no cap present

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
9-14-21	1110	12.71	0.5	7.38	24.1	2220	1.6	-150.1	23.0	slightly cloudy	*Low-flow groundwater sample:*
↓	1113	12.75	1.0	7.30	23.0	1990	1.3	-145.7	19.1	↓	(A) peristaltic pump w/ ded tubing
	1115	12.76	1.5	7.25	22.5	1930	1.1	-139.1	17.8		B) ded bladder pump
	1118	12.76	2.0	7.21	22.1	1902	1.1	-133.7	17.0	clear, colorless	C) non-ded bladder pump; or
	1120	12.76	2.5	7.20	22.0	1890	1.0	-131.6	16.5		*Standard groundwater sample:*
	1123	12.76	3.0	7.18	21.9	1870	1.0	-128.8	15.9		D) bailer due to limited column; or
	1125	12.76	3.5	7.16	21.6	1850	1.0	-125.6	15.4		E) recovery well cycling sample
↓	1128	12.76	4.0	7.14	21.5	1840	1.0	-122.7	14.0	↓	F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
9-14-21	1130	NCL-31	12.76	7.14	21.5	1840	1.0	-122.7	14.0	Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

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Gauge only

Monitoring Well Purging and Sampling Record (Not in "Sampling" Program)

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: MW-19
Event:
Area of Concern: NCL

Completion	Casing Diam.	Casing Material
At-Grade __	2-in __	PVC ✓
Upright ✓	4-in __	SS __
Vault __	Other 6-in	Other __

Hydrologic Monitoring
for TRC
Houston, Texas

209

Initials: JS

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection: Cap	Casing	Well Secured	Label	Other	Comments
9-14-21	1055	NP	12.89	0.00	22.08	NS	YES	YES	YES *	Yes		Weather: Sunny, 70s

Well Purging Record

* No outer protective casing

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
			0.5								*Low-flow groundwater sample:*
			1.0								A) peristaltic pump w/ ded tubing
			1.5								B) ded bladder pump
			2.0								C) non-ded bladder pump; or
			2.5								*Standard groundwater sample:*
			3.0								D) bailer due to limited column; or
			3.5								E) recovery well cycling sample
			4.0								F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
		MW-19								Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

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Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: MW-55
Event: 2H21
Area of Concern: NCL

Completion	Casing Diam.	Casing Material
At-Grade __	2-in ✓	PVC ✓
Upright ✓	4-in __	SS __
Vault __	Other __	Other __

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: RJM (210)

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
9.14.21	1355	ND	13.95	0.00	26.85	21.7	Yes	Yes	Yes	Yes		Weather: Sunny 90's

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
9.14.21	1400	13.97	0.5	7.01	26.8	3070	2.5	-49.5	9.7	Colorless / Clear	*Low-flow groundwater sample:*
↓	1402	13.97	1.0	7.00	26.5	3030	2.3	-47.8	9.4	↓	(A) peristaltic pump w/ ded tubing
	1405	13.98	1.5	6.98	26.3	2990	2.3	-40.4	8.2		B) ded bladder pump
	1407	13.98	2.0	6.95	26.7	2970	2.2	-36.1	7.2		C) non-ded bladder pump; or
	1410	13.98	2.5	6.93	26.2	2960	2.1	-31.6	7.3		*Standard groundwater sample:*
	1412	13.98	3.0	6.92	26.0	2960	2.1	-29.8	6.9		D) bailer due to limited column; or
	1415	13.98	3.5	6.90	25.9	2950	2.0	-29.0	6.8		E) recovery well cycling sample
▽	1417	13.98	4.0	6.89	25.8	2950	2.0	-27.2	6.5	▽	F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
												Lab: Pace National, Mt. Juliet, TN
9.14.21	1420	MW-55	13.98	6.89	25.8	2950	2.0	-27.2	6.5	Per COC	Per COC	

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

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Gauge only

Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: RW-#17A
Event: 2H21
Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade __	2-in __	PVC ✓
Upright ✓	4-in __	SS __
Vault	Other 6-in	Other __

[Bell-shaped PVC stickup w/ PVC slip cap]

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: RJM (211)

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
9-14-21	1455	107	13.86	0.00	16.01	14.0	Yes	Yes	Yes	Yes		Weather: Sunny 90's

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
			0.5								*Low-flow groundwater sample:*
			1.0								(A) peristaltic pump w/ ded tubing
			1.5								B) ded bladder pump
			2.0								C) non-ded bladder pump; or
			2.5								*Standard groundwater sample:*
			3.0								D) bailer due to limited column; or
			3.5								E) recovery well cycling sample
			4.0								F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
		RW-#17A								Per COC	Per COC	Lab: Pace National, ML Julial, TN

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

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Gauge only

Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: MW-18
Event: 2H21
Area of Concern: NCL

Completion	Casing Diam.	Casing Material
At-Grade __	2-in __	PVC ✓
Upright ✓	4-in __	SS __
Vault __	Other 6-in	Other ...

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: BA (212)

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
9-19-21	1045	NP	14.13	0.00	22.20	20.2	YES	YES	YES	YES		Weather: Sunny, 70s

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
			0.5								*Low-flow groundwater sample:*
			1.0								(A) peristaltic pump w/ ded tubing
			1.5								B) ded bladder pump
			2.0								C) non-ded bladder pump; or
			2.5								*Standard groundwater sample:*
			3.0								D) bailer due to limited column; or
			3.5								E) recovery well cycling sample
			4.0								F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
		MW-18								Per COC	Per COC	Lab: Pace National, ML Juliet, TN

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

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Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: MW-54A
Event: 2H21
Area of Concern: NCL

Completion	Casing Diam.	Casing Material
At-Grade __	2-in ✓	PVC ✓
Upright ✓	4-in __	SS __
Vault __	Other __	Other

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: BA (213)

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
9-14-21	1340	NP	14.84	0.00	31.30	23.6	YES	YES	YES	YES		Weather Sunny, 96s

Well Purging Record

Date	Time	Depth to Water (Ft TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
9-14-21	1345	14.90	0.5	6.92	28.3	2550	2.0	35.3	10.2	Clear, colorless	*Low-flow groundwater sample:*
↓	1348	14.92	1.0	6.80	27.0	2550	1.8	40.7	9.5	↓	(A) peristaltic pump w/ ded tubing
	1350	14.92	1.5	6.75	25.5	2540	1.5	46.9	9.0		B) ded bladder pump
	1353	14.92	2.0	6.72	25.0	2530	1.3	52.2	8.6		C) non-ded bladder pump; or
	1355	14.92	2.5	6.71	24.7	2520	1.3	-55.4	7.9		*Standard groundwater sample:*
	1358	14.92	3.0	6.70	24.6	2520	1.2	-57.8	7.4		D) bailer due to limited column; or
	1400	14.92	3.5	6.68	24.5	2510	1.2	-60.7	6.7		E) recovery well cycling sample
↓	1403	14.92	4.0	6.67	24.4	2510	1.1	-63.2	6.1	↓	F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
												Lab: Pace National, Mt. Juliet, TN
9-14-21	1405	MW-54A	14.92	6.67	24.4	2510	1.1	-63.2	6.1	Per COC	Per COC	
			No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample									

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Gauge only

Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: MW-54B
Event: 2H21
Area of Concern: NCL

Completion	Casing Diam.	Casing Material
At-Grade __	2-in ✓	PVC ✓
Upright ✓	4-in __	SS __
Vault __	Other __	Other __

Hydrologic Monitoring
for TRC
Houston, Texas

214

Initials: BA

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
9-14-21	1330	NP	14.89	0.00	46.80	41.8	Yes	Yes	Yes	Yes		Weather: Sunny, 90s

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
			0.5								*Low-flow groundwater sample:*
			1.0								(A) peristaltic pump w/ ded tubing
			1.5								B) ded bladder pump
			2.0								C) non-ded bladder pump; or
			2.5								*Standard groundwater sample:*
			3.0								D) bailer due to limited column; or
			3.5								E) recovery well cycling sample
			4.0								F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
		MW-54B								Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

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Monitoring Well Purging and Sampling Record

+ Dup - NCL-01
+ EB - NCL-01

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: NCL-49
Event: 2H21
Area of Concern: NCL

Completion	Casing Diam.	Casing Material
At-Grade __	2-in ✓	PVC __
Upright ✓	4-in __	SS ✓
Vault __	Other __	Other __

+ Trip Blank - NCL-01

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: BA (215)

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection: Cap	Casing	Well Secured	Label	Other	Comments
9-14-21	1215	NP	18.13	0.00	32.18	27.2	YES	YES	YES	YES		Weather: Sunny, 90s

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
9-14-21	1220	18.21	0.5	7.40	25.6	3000	2.0	37.6	20.0	Clear, colorless	*Low-flow groundwater sample:*
	1223	18.21	1.0	7.25	23.3	3110	1.6	45.4	18.1		(A) peristaltic pump w/ ded tubing
	1225	18.21	1.5	7.18	22.4	3120	1.5	50.2	16.5		B) ded bladder pump
	1228	18.21	2.0	7.16	22.1	3120	1.5	52.3	14.3		C) non-ded bladder pump; or
	1230	18.21	2.5	7.13	22.0	3120	1.5	53.4	12.1		*Standard groundwater sample:*
	1233	18.21	3.0	7.11	21.8	3130	1.5	54.5	10.3		D) bailer due to limited column; or
	1235	18.21	3.5	7.10	21.6	3130	1.5	55.0	9.0		E) recovery well cycling sample
↓	1238	18.21	4.0	7.09	21.4	3140	1.4	55.4	8.2	↓	F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
9-14-21	1240	NCL-49	18.21	7.09	21.4	3140	1.4	55.4	8.2	Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN
	1000	DUP-NCL-01	18.21	7.09	21.4	3140	1.4	55.4	8.2	Per COC	Per COC	
↓	1255	EB-NCL-01	NA						→	Per COC	Per COC	

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

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(Replacement well for MW-53, that was destroyed by construction activities)

Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: MW-53R
Event: 2421
Area of Concern: NCL

Completion	Casing Diam.	Casing Material
At-Grade ✓	2-in ✓	PVC ✓
Upright __	4-in __	SS __
Vault __	Other __	Other __

Located ~15' North of 70 mi marker (Hwy 285 Northbound)

Hydrologic Monitoring
for TRC
Houston, Texas

Well Inspection Information Gauge Only

Initials: BA

216

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
9-14-21	1200	NP	12.63	0.00	24.05	19.1	Yes	Yes	Yes	Yes	Yes	Weather: Sunny, 90s

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	
			0.5								*Low-flow groundwater sample:*
			1.0								(A) peristaltic pump w/ ded tubing
			1.5								B) ded bladder pump
			2.0								C) non-ded bladder pump; or
			2.5								*Standard groundwater sample:*
			3.0								D) bailer due to limited column; or
			3.5								E) recovery well cycling sample
			4.0								F) irrigation well grab sample

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
										Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

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Instrument Calibration Log

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Hydrologic Monitoring
for TRC
Houston, Texas

Date	Time	pH Hanna (Std. units)	Specific Conductivity Hanna (umho/cm)	Dissolved Oxygen Hanna (Slope Cal. in saturated air)	Turbidity Lamotte (NTU)	ORP Hanna HI 7020 Soln (200-275 mV)	PID Thermo Environmental 100 ppm Isobutylene	Initials / Comments
9/14/21	0700	4.01/7.00	1,000	100%	10.0	245.1	NA	SCG
9/14/21	0703	4.01/7.00	1,000	100%	10.0	240.6	NA	SCD
9-14-21	0705	4.01/7.00	1.000	100%	10.0	236.1	NA	MDB
9-14-21	0708	4.01/7.00	1,000	100%	10.0	217.2	NA	BA
9/14/21	0711	4.01/7.00	1,000	100%	10.0	242.6	NA	BD
9/14/21	0715	4.01/7.00	1,000	100%	10.0	230.7	NA	BRH
9/14/21	0719	4.01/7.00	1,000	100%	10.0	241.9	NA	GMJ
9-14-21	0722	4.01/7.00	1.000	100%	10.0	219.3	NA	RJM
9-14-21	0725	4.01/7.00	1,000	100%	10.0	250.3	NA	TAB
9-14-21	0728	4.01/7.00	1,000	100%	10.0	246.6	NA	DED
9/15/21	0645	4.01/7.00	1,000	100%	10.0	247.2	NA	SCG
9/15/21	0650	4.01/7.00	1,000	100%	10.0	249.7	NA	TAB
9-15-21	0652	4.01/7.00	1.000	100%	10.0	228.1	NA	MDB
9/15/21	0700	4.01/7.00	1,000	100%	10.0	249.1	NA	GMJ
9-15-21	0705	4.01/7.00	1,000	100%	10.0	228.5	NA	BRH

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3.1+0=3.1 4.4+0=4.4 3.9+0=3.9 .2+0=.2 1.7+0=1.7 1.8+0=1.8 2.6+0=2.6 3.0+0=3.0 5.0+0=5.0

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Austin, TX 78752

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Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com**

Project Description: **Artesia Fall 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **425135.0000.0000.**

Lab Project # **TRCATX-ARTESIA**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **(Navajo - Artesia)**

P.O. # **165614**

Collected by (signature): Scott Ude

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page 1 of 19

Pace Analytical
National Center for Testing & Innovation

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Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# M04464
Table #
Acctnum: TRCATX
Template: T194233
Prelogin: P870645
TSR: 526
PB:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260OXY - 40mlAmb HCl	DROLVI- 40mlAmb-HCl-BT	GRO - 40mlAmb HCl	Total Short List Metals 250mlHDPE-HNO3	Anions. TDS - 250mlHDPE-NoPres	NO2NO3 - 250mlHDPE-H2SO4	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
MW-85	Grab	GW		LNAPL		10	X	X	X	X	X	X						
MW-86	Grab	GW		LNAPL		11	X	X	X		X	X	X	X				
MW-120	Grab	GW		9/14/21	950	12	X	X	X	X	X	X				X		01
MW-121	Grab	GW		9/14/21	1035	7		X	X	X	X	X						02
MW-84	Grab	GW		9/14/21	1650	7		X	X	X	X	X						03
MW-122	Grab	GW		9/14/21	1215	7		X	X	X	X	X						04
MW-79	Grab	GW		9/14/21	1125	7		X	X	X	X	X						05
MW-74	Grab	GW		9/14/21	1535	7		X	X	X	X	X						06
MW-2A	Grab	GW		9/14/21	1300	7		X	X	X	X	X						07
OCD-6	Grab	GW		9/14/21	1400	7		X	X	X	X	X						08

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:
Cations are being analyzed with Total Metals except where noted.

2799/2777/1460/9185/9163/9174/2768/1471
2803/2207/1954/1503/1937/1420

Samples returned via: ___ UPS ✓ FedEx ___ Courier ___

Tracking # 516377205417 7143 2355 1955

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

Trip Blank Received: Yes / No HCL / MeoH TBR

Temp: 2.6+0=2.6 °C Bottles Received: 1018

If preservation required by Login: Date/Time

Hold:

Conditions NCF / OK

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	9/15/21	1200	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			K. Holan

Date: 9/16/21 Time: 9:02

3.6+0=3.6 3.5+0=3.5 1.2+0=1.2 4.1+0=4.1 1.2+0=1.2 4.1+0=4.1 1.2+0=1.2 4.1+0=4.1 3.4+0=3.4 3.1+0=3.1 2.1+0=2.1 3.4+0=3.4 3.1+0=3.1 2.1+0=2.1

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apinvoiceapproval@trcsolutions.com

Pres Chk

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com**

Project Description: **Artesia Fall 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **425135.0000.0000.**

Lab Project # **TRCATX-ARTESIA**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **(Navajo - Artesia)**

P.O. # **165614**

Collected by (signature): Scott Ude
Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page 2 of 19

Pace Analytical* National Center for Testing & Innovation
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# M044381

Table #

Acctnum: TRCATX
Template: T194233
Prelogin: P870645
TSR: 526
PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260OXY - 40mlAmb HCl	DROLVI- 40mlAmb-HCl-BT	GRO - 40mlAmb HCl	Total Short List Metals 250mlHDPE-HNO3	Anions. TDS - 250mlHDPE-NoPres	NO2NO3 - 250mlHDPE-H2SO4	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
OCD-7AR	Grab	GW		9/14/21	1440	7		X	X	X	X	X						09
MW-48	~~Grab~~	~~GW~~				~~10~~	X	X	X	X	X	X	bailed;		unlocated			-
MW-130	Grab	GW		9/14/21	825	10	X	X	X	X	X	X						10
KWB-4	~~Grab~~	~~GW~~		LNAPL		~~8~~	X	X		X	X	X						
EB-EP-01	Grab	GW		9/14/21	1550	7		X	X	X	X	X						11
EB-EP-04	Grab	GW		9/14/21	1140	7		X	X	X	X	X						12
TRIP BLANK-EP-01	Grab	GW		9/14/21	—	1	X											13

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
Scott Ude	9/15/21	1200		9	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 1.7+0.5=2.6 °C Bottles Received: 10 18	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) K. Thacker	Date: 9/16/21 Time: 9:00	Hold: Condition: NCF / OK

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505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
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Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Pres Chk

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com**

Project Description: **Artesia Fall 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **425135.0000.0000.**

Lab Project # **TRCATX-ARTESIA**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **(Navajo - Artesia)**

P.O. # **165614**

Collected by (signature): Scott Ude

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

Quote #

Analysis / Container / Preservative

Chain of Custody Page 3 of 19

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Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L # 142440Y

Table #

Acctnum: TRCATX

Template: T194233

Prelogin: P870645

TSR: 526

PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260OXY - 40mlAmb HCl	DROLVI- 40mlAmb-HCl-BT	GRO - 40mlAmb HCl	Total Short List Metals 250mlHDPE-HNO3 <2	Anions. TDS - 250mlHDPE-NoPres	NO2NO3 - 250mlHDPE-H2SO4	Total Long List Metals 250mlHDPE-HNO3 <2	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
MW-76	Grab	GW		9/14/21	1710	7		X	X	X	X	X						14
MW-75	Grab	GW		9/14/21	1805	7		X	X	X	X	X						15
MW-83	Grab	GW		9/14/21	1625	7		X	X	X	X	X						16
MW-3	Grab	GW		9/14/21	1535	7		X	X	X	X	X						17
MW-88	Grab	GW		9/14/21	1220	5		X	X	X							No Cations	18
MW-22A	Grab	GW		9/14/21	1300	7		X	X	X	X	X						19
MW-10	Grab	GW		9/14/21	1400	7		X	X	X	X	X						20
MW-123	Grab	GW		9/14/21	1445	7		X	X	X	X	X						21
MW-4A	Grab	GW		9/14/21	1125	7		X	X	X	X	X						22
MW-5A	Grab	GW		9/14/21	1020	7		X	X	X	X	X						23

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP ✓ N
COC Signed/Accurate: ✓ Y N
Bottles arrive intact: ✓ Y N
Correct bottles used: ✓ Y N
Sufficient volume sent: ✓ Y N
If Applicable
VOA Zero Headspace: ✓ Y N
Preservation Correct/Checked: ✓ Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Scott Ude	9/15/21	1200		9
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4.7 °C Bottles Received: 18
				2.6±0.2.6
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 9/16/21 Time: 9:00
			K. Rodeen	

If preservation required by Login: Date/Time

Hold: Condition: NCF / OK

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
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Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Pres Chk

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com**

Project Description: **Artesia Fall 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **425135.0000.0000.**

Lab Project # **TRCATX-ARTESIA**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **(Navajo - Artesia)**

P.O. # **165614**

Collected by (signature): Scott Ude

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260OXY - 40mlAmb HCl	DROLVI- 40mlAmb-HCl-BT	GRO - 40mlAmb HCl	Total Short List Metals 250mlHDPE-HNO3	Anions. TDS - 250mlHDPE-NoPres	NO2NO3 - 250mlHDPE-H2SO4	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
MW-7A	Grab	GW		9/14/21	920	10	X	X	X	X	X	X						24
OCD-8A	Grab	GW		9/14/21	835	8		X	X		X	X	X	X				25
DUP-EP-01	Grab	GW		9/14/21	900	10	X	X	X	X	X	X						26
DUP-EP-02	Grab	GW		9/14/21	1200	7		X	X	X	X	X						27
DUP-EP-03	Grab	GW		9/14/21	1300	7		X	X	X	X	X						28
EB-EP-03	Grab	GW		9/14/21	1035	7		X	X	X	X	X						29
TRIP BLANK-EP-02	Grab	GW		9/14/21	—	1	X											30

Chain of Custody Page 4 of 19

Pace Analytical®
National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L #

Table #

Acctnum: TRCATX
Template: T194233
Prelogin: P870645
TSR: 526
PB:

Shipped Via:

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP __Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCl / MeoH TBR
Scott Ude	9/15/21	1200		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4.7+2.1 °C Bottles Received: 2.6±0.2.6 1018
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) K. Holleman	Date: 9/16/21 Time: 9:00

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Pres Chk

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com**

Project Description: **Artesia Fall 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **425135.0000.0000.**

Lab Project # **TRCATX-ARTESIA**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **(Navajo - Artesia)**

P.O. # **165614**

Collected by (signature): Scott Ude
Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page 5 of 19

Pace Analytical® National Center for Testing & Innovation

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Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 404404

Table #

Acctnum: TRCATX
Template: T194233
Prelogin: P870645
TSR: 526
PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260OXY - 40mlAmb HCl	DROLVI- 40mlAmb-HCl-BT	GRO - 40mlAmb HCl	Total Short List Metals 250mlHDPE-HNO3	Anions. TDS - 250mlHDPE-NoPres	NO2NO3 - 250mlHDPE-H2SO4	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
OCD-1R	Grab	GW		9/14/21	1610	7		X	X	X	X	X						31
OCD-2A	Grab	GW		9/14/21	1220	5		X	X	X							No Cations	32
OCD-3	Grab	GW		9/14/21	1305	5		X	X	X							No Cations	33
OCD-4	Grab	GW		9/14/21	1345	5		X	X	X							No Cations	34
MW-11A	Grab	GW		9/14/21	1510	3				X	X	X					Only Cats.	35
OCD-5	Grab	GW		9/14/21	1430	7		X	X	X	X	X						36
MW-87	Grab	GW		9/14/21	840	5		X	X	X							No Cations	37
MW-18A	Grab	GW		9/14/21	925	6		X			X	X	X	X				38
MW-70	Grab	GW		9/14/21	1020	5		X	X	X							No Cations	39
MW-124	Grab	GW		9/14/21	1110	7		X	X	X	X	X						40

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Scott Ude	9/15/21	1200		9
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 2.6 °C Bottles Received: 1018
				2.6 +0 = 2.6
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 9/16/21 Time: 9:50
			K. Holleran	

If preservation required by Login: Date/Time

Hold: Condition: NCF / OK

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Pres Chk

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com**

Project Description: **Artesia Fall 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **425135.0000.0000.**

Lab Project # **TRCATX-ARTESIA**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **(Navajo - Artesia)**

P.O. # **165614**

Collected by (signature): Scott Ude
Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page 6 of 19

Pace Analytical® National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 41044

Table #

Acctnum: TRCATX
Template: T194233
Prelogin: P870645
TSR: 526
PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260OXY - 40mlAmb HCl	DROLVI- 40mlAmb-HCl-BT	GRO - 40mlAmb HCl	Total Short List Metals 250mlHDPE-HNO3	Anions. TDS - 250mlHDPE-NoPres	NO2NO3 - 250mlHDPE-H2SO4	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
MW-52	Grab	GW		9/15/21	950	11	X	X	X		X	X	X	X				41
MW-109	Grab	GW		9/15/21	830	12	X	X	X	X	X	X				X		42
MW-110	Grab	GW		9/15/21	910	12	X	X	X	X	X	X				X		43
EB-EP-02	Grab	GW		9/14/21	1125	7		X	X	X	X	X						44
TRIP BLANK-EP-03	Grab	GW		9/14/21	—	1	X											45

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP ✓Y __N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: ✓Y __N
Correct bottles used: ✓Y __N
Sufficient volume sent: ✓Y __N
If Applicable
VOA Zero Headspace: ✓Y __N
Preservation Correct/Checked: ✓Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: (Yes / No) HCL / MeOH TBR	If preservation required by Login: Date/Time
Scott Ude	9/15/21	1200		Yes	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4.7+.CC 2.6+0=2.6 Bottles Received: 18	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) K. Kolacek	Date: 9/16/21 Time: 9:00	Hold: Condition: NCF / OK

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Pres Chk

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com**

Project Description: **Artesia Fall 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **425135.0000.0000.**

Lab Project # **TRCATX-ARTESIA**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **(Navajo - Artesia)**

P.O. # **165614**

Collected by (signature): Scott Ude

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Chain of Custody Page 7 of 19

Pace Analytical® National Center for Testing & Innovation

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Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 140464

Table #

Acctnum: TRCATX
Template: T194233
Prelogin: P870645
TSR: 526
PB:

Shipped Via:

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260OXY - 40mlAmb HCl	DROLVI- 40mlAmb-HCl-BT	GRO - 40mlAmb HCl	Total Short List Metals 250mlHDPE-HNO3	Anions. TDS - 250mlHDPE-NoPres	NO2NO3 - 250mlHDPE-H2SO4	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
MW-113	Grab	GW		9/14/21	1530	14	X	X	X	X	X	X			X	X		46
KWB-8	~~Grab~~	~~GW~~		LNAPL		~~9~~	X	X			X	X	X	X				
MW-133	~~Grab~~	~~GW~~		LNAPL		~~10~~	X	X	X	X	X	X						
MW-134	Grab	GW		9/15/21	840	12	X	X	X	X	X	X				X		47
RA-4798	Grab	GW		9/14/21	1745	10	X			X	X	X			X	X	Only Cats.	48
RA-4196 Not Sampled	Grab	GW	Pump shorted out; as previous			~~10~~	X			X	X	X			X	X	Only Cats.	
KWB-7	Grab	GW		9/14/21	1435	9	X	X			X	X	X	X				49
MW-135	Grab	GW		9/14/21	1655	12	X	X	X	X	X	X				X		50
NP-1	Grab	GW		9/15/21	955	7	X								X	X		51
MW-21	Grab	GW		9/15/21	1045	12	X	X	X	X	X	X				X		52

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: ___Y ___N
COC Signed/Accurate: ___Y ___N
Bottles arrive intact: ___Y ___N
Correct bottles used: ___Y ___N
Sufficient volume sent: ___Y ___N
If Applicable
VOA Zero Headspace: ___Y ___N
Preservation Correct/Checked: ___Y ___N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeOH TBR	If preservation required by Login: Date/Time
Scott Ude	9/15/21	1200			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 2.6 °C Bottles Received: 2.6+0=2.6 10/8	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) K. Holder	Date: 9/16/21 Time: 9:00	Hold: / Condition: NCF / OK

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Pres Chk

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com**

Project Description: **Artesia Fall 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **425135.0000.0000.**

Lab Project # **TRCATX-ARTESIA**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **(Navajo - Artesia)**

P.O. # **165614**

Collected by (signature): Scott Ude

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

Quote #

Analysis / Container / Preservative

Chain of Custody Page 8 of 19

Pace Analytical®
National Center for Testing & Innovation

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Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 140464

Table #

Acctnum: TRCATX
Template: T194233
Prelogin: P870645
TSR: 526
PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260OXY - 40mlAmb HCl	DROLVI- 40mlAmb-HCl-BT	GRO - 40mlAmb HCl	Total Short List Metals 250mlHDPE-HNO3	Anions. TDS - 250mlHDPE-NoPres	NO2NO3 - 250mlHDPE-H2SO4	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
KWB-11A	Grab	GW		9/14/21	1200	15	X	X	X		X	X	X	X	X	X		53
KWB-11B	Grab	GW		9/14/21	1245	15	X	X	X		X	X	X	X	X	X		54
MW-115	Grab	GW		9/14/21	1100	10	X	X	X	X	X	X						55
MW-114	Grab	GW		9/14/21	1015	14	X	X	X	X	X	X			X	X		56
MW-125	Grab	GW		9/14/21	930	10	X	X	X	X	X	X						57
DUP-REST-01	Grab	GW		9/14/21	1200	14	X	X	X	X	X	X			X	X		58
EB-REST-01	Grab	GW		9/14/21	1550	14	X	X	X	X	X	X			X	X		59
DUP-REST-03	Grab	GW		9/15/21	800	12	X	X	X	X	X	X				X		60
EB-REST-03	Grab	GW		9/15/21	900	12	X	X	X	X	X	X				X		61
TRIP BLANK-REST-01	Grab	GW		9/15/21	—	1	X											62

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP Y __N
COC Signed/Accurate: Y __N
Bottles arrive intact: Y __N
Correct bottles used: Y __N
Sufficient volume sent: Y __N
If Applicable
VOA Zero Headspace: Y __N
Preservation Correct/Checked: Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
Scott Ude	9/15/21	1200		9	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4.1 °C 2.6+0=2.6 Bottles Received: 10/8	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) K. Holcomb	Date: 9/16/21 Time: 9:00	Hold: Condition: NCF / OK

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Pres Chk

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com**

Project Description: **Artesia Fall 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **425135.0000.0000.**

Lab Project # **TRCATX-ARTESIA**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **(Navajo - Artesia)**

P.O. # **165614**

Collected by (signature): Scott Ude

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page 9 of 19

Pace Analytical® National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 142404

Table #

Acctnum: TRCATX
Template: T194233
Prelogin: P870645
TSR: 526
PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260OXY - 40mlAmb HCl	DROLVI- 40mlAmb-HCl-BT	GRO - 40mlAmb HCl	Total Short List Metals 250mlHDPE-HNO3	Anions. TDS - 250mlHDPE-NoPres	NO2NO3 - 250mlHDPE-H2SO4	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
TRIP BLANK-TMD-01	Grab	GW		9/15/21	—	1	X											63
MW-117	Grab	GW		9/14/21	1350	12	X	X	X	X	X	X				X		64
MW-118	Grab	GW		9/14/21	1305	10	X	X	X	X	X	X						65
MW-119	Grab	GW		9/14/21	1215	10	X	X	X	X	X	X						66
MW-136	Grab	GW		9/14/21	855	11	X	X	X		X	X	X	X				67
MW-126A	~~Grab~~	~~GW~~		LNAPL	—	~~10~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~						
MW-126B	Grab	GW		9/14/21	1000	14	X	X	X	X	X	X			X	X		68
MW-127	~~Grab~~	~~GW~~		~~9/14/21~~	LNAPL	~~14~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~			~~X~~	~~X~~		
KWB-1A	~~Grab~~	~~GW~~		LNAPL	—	~~9~~	~~X~~	~~X~~			~~X~~	~~X~~	~~X~~	~~X~~				
KWB-10R	~~Grab~~	~~GW~~		LNAPL	—	~~10~~	~~X~~	~~X~~		~~X~~	~~X~~	~~X~~				~~X~~		

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y N
COC Signed/Accurate:		Y N
Bottles arrive intact:		Y N
Correct bottles used:		Y N
Sufficient volume sent:		Y N
If Applicable		
VOA Zero Headspace:		Y N
Preservation Correct/Checked:		Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	9/15/21	1200	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) K. Holder

Trip Blank Received: (Yes / No) HCL / MeoH TBR

Temp: 2.6 °C Bottles Received: 1018

2.6+0=2.6

Date: 9/16/21 Time: 9:00

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Pres Chk

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com**

Project Description: **Artesia Fall 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **425135.0000.0000.**

Lab Project # **TRCATX-ARTESIA**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **(Navajo - Artesia)**

P.O. # **165614**

Collected by (signature): Scott Ude

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

Quote #

Analysis / Container / Preservative

Chain of Custody Page 10 of 19

Pace Analytical® National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 140404

Table #

Acctnum: TRCATX
Template: T194233
Prelogin: P870645
TSR: 526
PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260OXY - 40mlAmb HCl	DROLVI- 40mlAmb-HCl-BT	GRO - 40mlAmb HCl	Total Short List Metals 250mlHDPE-HNO3	Anions. TDS - 250mlHDPE-NoPres	NO2NO3 - 250mlHDPE-H2SO4	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
MW-131	Grab	GW		LNAPL		10	X	X	X	X	X	X						
KWB-5	Grab	GW		LNAPL		8	X	X		X	X	X						
MW-111	Grab	GW		LNAPL		14	X	X	X	X	X	X			X	X		
KWB-6	Grab	GW		LNAPL		12	X	X		X	X	X			X	X		
MW-112	Grab	GW		LNAPL		10	X	X	X	X	X	X						
MW-132	Grab	GW		LNAPL		10	X	X	X	X	X	X						
MW-57	Grab	GW		9/14/21	1055	10	X	X	X	X	X	X						69
KWB-12A	Grab	GW		9/14/21	1000	11	X	X	X		X	X	X	X				76
KWB-12B	Grab	GW		9/14/21	905	11	X	X	X		X	X	X	X				71
KWB-2R	Grab	GW		LNAPL		10	X	X		X	X	X				X		

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP ✓Y __N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: ✓Y __N
Correct bottles used: ✓Y __N
Sufficient volume sent: ✓Y __N
If Applicable
VOA Zero Headspace: ✓ __N
Preservation Correct/Checked: ✓Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeOH TBR	If preservation required by Login: Date/Time
Scott Ude	9/15/21	1200		✓	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4.7 °C 2.6+0=2.6 Bottles Received: 1018	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 9/16/21 Time: 9:05	Hold: / Condition: NCF / OK

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Pres Chk

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com**

Project Description: **Artesia Fall 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **425135.0000.0000.**

Lab Project # **TRCATX-ARTESIA**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **(Navajo - Artesia)**

P.O. # **165614**

Collected by (signature): Scott Ude

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260OXY - 40mlAmb HCl	DROLVI- 40mlAmb-HCl-BT	GRO - 40mlAmb HCl	Total Short List Metals 250mlHDPE-HNO3	Anions. TDS - 250mlHDPE-NoPres	NO2NO3 - 250mlHDPE-H2SO4	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
MW-58	Grab	GW		LNAPL		9	X	X			X	X	X	X				
DUP-REST-05	Grab	GW		9/14/21	1200	11	X	X	X		X	X	X	X				72
EB-REST-05	Grab	GW		9/14/21	925	11	X	X	X		X	X	X	X				73
TRIP BLANK-REST-02	Grab	GW		9/14/21		1	X											74

Chain of Custody Page 11 of 19

Pace Analytical®
National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 140464

Table #

Acctnum: TRCATX

Template: T194233

Prelogin: P870645

TSR: 526

PB:

Shipped Via:

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP __Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Scott Ude	9/15/21	1200		9
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4.7 °C Bottles Received: 2.6-0.26 1018
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) K. Holder	Date: 9/16/2 Time: 9:02

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Pres Chk

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com**

Project Description: **Artesia Fall 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **425135.0000.0000.**

Lab Project # **TRCATX-ARTESIA**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **(Navajo - Artesia)**

P.O. # **165614**

Collected by (signature): Scott Ude

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

Quote #

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260OXY - 40mlAmb HCl	DROLVI- 40mlAmb-HCl-BT	GRO - 40mlAmb HCl	Total Short List Metals 250mlHDPE-HNO3	Anions. TDS - 250mlHDPE-NoPres	NO2NO3 - 250mlHDPE-H2SO4	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
MW-104	Grab	GW		9/14/21	1315	12	X	X	X	X	X	X				X		75
MW-64	Grab	GW		9/14/21	1400	10	X	X	X	X	X	X						76
MW-65	~~Grab~~	~~GW~~		LNAPL		~~10~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~						
MW-102	Grab	GW		9/14/21	1505	14	X	X	X	X	X	X			X	X		77
MW-99	~~Grab~~	~~GW~~		LNAPL		~~10~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~						
MW-66	~~Grab~~	~~GW~~		LNAPL		~~11~~	~~X~~	~~X~~	~~X~~		~~X~~	~~X~~	~~X~~	~~X~~				
MW-28	~~Grab~~	~~GW~~		LNAPL		~~13~~	~~X~~	~~X~~	~~X~~		~~X~~	~~X~~	~~X~~	~~X~~		~~X~~		
MW-60	~~Grab~~	~~GW~~		LNAPL		~~15~~	~~X~~	~~X~~	~~X~~		~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~		
MW-128	~~Grab~~	~~GW~~		LNAPL		~~10~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~						
MW-116	Grab	GW		9/15/21	1025	10	X	X	X	X	X	X						78

Analysis / Container / Preservative

Chain of Custody Page 12 of 19

Pace Analytical® National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 140464

Table #

Acctnum: TRCATX

Template: T194233

Prelogin: P870645

TSR: 526

PB:

Shipped Via:

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP Y __N
COC Signed/Accurate: Y __N
Bottles arrive intact: Y __N
Correct bottles used: Y __N
Sufficient volume sent: Y __N
If Applicable
VOA Zero Headspace: Y __N
Preservation Correct/Checked: Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeOH TBR
Scott Ude	9/15/21	1200		9
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 2.6 °C Bottles Received: 2.6+0=2.6 (018)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) K. Holcomb	Date: 9/16/21 Time: 9:00

If preservation required by Login: Date/Time

Hold: Condition: NCF / OK

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Pres Chk

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com**

Project Description: **Artesia Fall 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **425135.0000.0000.**

Lab Project # **TRCATX-ARTESIA**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **(Navajo - Artesia)**

P.O. # **165614**

Collected by (signature): Scott Ude

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page 13 of 19

Pace Analytical®
National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 140444

Table #

Acctnum: TRCATX
Template: T194233
Prelogin: P870645
TSR: 526
PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260OXY - 40mlAmb HCl	DROLVI- 40mlAmb-HCl-BT	GRO - 40mlAmb HCl	Total Short List Metals 250mlHDPE-HNO3	Anions. TDS - 250mlHDPE-NoPres	NO2NO3 - 250mlHDPE-H2SO4	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
MW-46R	Grab	GW		9/15/21	1045	8	X	X		X	X	X						79
MW-145	Grab	GW		9/14/21	1130	9	X	X	X	X	X						No Cations	80
MW-146	Grab	GW		9/14/21	1020	9	X	X	X	X	X						No Cations	81
MW-147	Grab	GW		9/14/21	855	9	X	X	X	X	X						No Cations	82
MW-148	Grab	GW		9/14/21	930	9	X	X	X	X	X						No Cations	83
DUP-REST-02	Grab	GW		9/14/21	1320	14	X	X	X	X	X	X			X	X		84
EB-REST-02	Grab	GW		9/14/21	1520	14	X	X	X	X	X	X			X	X		85
DUP-REST-04	Grab	GW		9/14/21	900	9	X	X	X	X	X						No Cations	86
EB-REST-04	Grab	GW		9/14/21	1035	9	X	X	X	X	X						No Cations	87
TRIP BLANK-REST-03	Grab	GW		9/15/21	—	1	X											88

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP ✓Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Scott Ude	9/15/21	1200		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4.7°C Bottles Received: 2 6 10=2.6 10 8
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) K. Hoelan	Date: 9/16/21 Time: 9:02

If preservation required by Login: Date/Time

Hold: Condition: NCF / OK

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Pres Chk

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com**

Project Description: **Artesia Fall 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **425135.0000.0000.**

Lab Project # **TRCATX-ARTESIA**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **(Navajo - Artesia)**

P.O. # **165614**

Collected by (signature): Scott Ude

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page 14 of 19

Pace Analytical® National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 424404

Table #

Acctnum: TRCATX
Template: T194233
Prelogin: P870645
TSR: 526
PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260OXY - 40mlAmb HCl	DROLVI- 40mlAmb-HCl-BT	GRO - 40mlAmb HCl	Total Short List Metals 250mlHDPE-HNO3	Anions. TDS - 250mlHDPE-NoPres	NO2NO3 - 250mlHDPE-H2SO4	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	SVOCs/8270DIOXANE-100ml Amb-NoPres	Remarks	Sample # (lab only)
MW-101	Grab	GW		9/15/21	925	12	X	X	X	X	X	X				X	1,4-D only	89
~~MW-105~~	~~Grab~~	~~GW~~	not located; covered by const. gravel			~~10~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~						
MW-61	Grab	GW		9/14/21	1155	12	X	X	X	X	X	X				X	1,4-D only	90
MW-62	Grab	GW		9/14/21	1240	14	X	X	X	X	X	X			X	X	1,4-D only	91
MW-62R	Grab	GW		9/14/21	1325	10	X	X	X	X	X	X						92
~~MW-43~~	~~Grab~~	~~GW~~		LNAPL		~~13~~	~~X~~	~~X~~	~~X~~		~~X~~	~~X~~	~~X~~	~~X~~		~~X~~	~~1,4-D only~~	
~~MW-137~~	~~Grab~~	~~GW~~		LNAPL		~~13~~	~~X~~	~~X~~	~~X~~		~~X~~	~~X~~	~~X~~	~~X~~		~~X~~	~~SVOCs only~~	
~~MW-137A~~	~~Grab~~	~~GW~~		LNAPL		~~11~~	~~X~~	~~X~~	~~X~~		~~X~~	~~X~~	~~X~~	~~X~~				
~~MW-138~~	~~Grab~~	~~GW~~		LNAPL		~~15~~	~~X~~	~~X~~	~~X~~		~~X~~	~~X~~	~~X~~	~~X~~		~~X~~		
~~MW-138A~~	~~Grab~~	~~GW~~		LNAPL		~~11~~	~~X~~	~~X~~	~~X~~		~~X~~	~~X~~	~~X~~	~~X~~				

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Scott Ude	9/15/21	1200		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 2.6 2.6 °C Bottles Received: 1018
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) K. Holen	Date: 9/16/21 Time: 9:02

If preservation required by Login: Date/Time

Hold: Condition: NCF / OK

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com**

Project Description: **Artesia Fall 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **425135.0000.0000.**

Lab Project # **TRCATX-ARTESIA**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **(Navajo - Artesia)**

P.O. # **165614**

Collected by (signature): Scott Ude
Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day
Date Results Needed

Quote #

Pres Chk

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260OXY - 40mlAmb HCl	DROLVI- 40mlAmb-HCl-BT	GRO - 40mlAmb HCl	Total Short List Metals 250mlHDPE-HNO3	Anions. TDS - 250mlHDPE-NoPres	NO2NO3 - 250mlHDPE-H2SO4	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
MW-23	~~Grab~~	~~GW~~		LNAPL		~~12~~	X	X	X	X	X	X				X		
TEL-4	Grab	GW		9/14/21	825	12	X	X	X	X	X	X				X		93
TEL-3	~~Grab~~	~~GW~~		LNAPL		~~10~~	X	X	X	X	X	X						
TEL-2	~~Grab~~	~~GW~~		LNAPL		~~10~~	X	X	X	X	X	X						
TEL-1	~~Grab~~	~~GW~~		LNAPL		~~10~~	X	X	X	X	X	X						
MW-39	~~Grab~~	~~GW~~		LNAPL		~~12~~	X	X	X	X	X	X				X		
MW-98	Grab	GW		9/14/21	1055	10	X	X	X	X	X	X						94
MW-49	Grab	GW		9/15/21	840	13	X	X	X		X	X	X	X		X		95
MW-106	~~Grab~~	~~GW~~	not	located; covered by const. gravel		~~12~~	X	X	X	X	X	X				X		
MW-45	Grab	GW		9/15/21	930	11	X	X			X	X	X	X		X		96

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking #

Relinquished by : (Signature) Scott Ude | Date: 9/15/21 | Time: 1200 | Received by: (Signature)

Trip Blank Received: Yes / No (9) HCL / MeoH TBR

Relinquished by : (Signature) | Date: | Time: | Received by: (Signature)

Temp: A 7.2°C 2.6 to 2.6 | Bottles Received: 10/8

If preservation required by Login: Date/Time

Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) K. Holder | Date: 9/16/21 | Time: 9:00

Hold: | Condition: NCF / OK

Sample Receipt Checklist
COC Seal Present/Intact: __NP ✓Y __N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: ✓Y __N
Correct bottles used: ✓Y __N
Sufficient volume sent: ✓Y __N
If Applicable
VOA Zero Headspace: ✓Y __N
Preservation Correct/Checked: ✓Y __N

Chain of Custody Page 15 of 19

Pace Analytical*
National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 1044464

Table #

Acctnum: TRCATX
Template: T194233
Prelogin: P870645
TSR: 526
PB:

Shipped Via:

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Pres Chk

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com**

Project Description: **Artesia Fall 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **425135.0000.0000.**

Lab Project # **TRCATX-ARTESIA**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **(Navajo - Artesia)**

P.O. # **165614**

Collected by (signature): Scott Ude
Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260OXY - 40mlAmb HCl	DROLVI- 40mlAmb-HCl-BT	GRO - 40mlAmb HCl	Total Short List Metals 250mlHDPE-HNO3	Anions. TDS - 250mlHDPE-NoPres	NO2NO3 - 250mlHDPE-H2SO4	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
MW-29	Grab	GW		9/15/21	1025	12	X	X	X	X	X	X				X		97
DUP-TEL-01	Grab	GW		9/14/21	900	12	X	X	X	X	X	X				X		98
EB-TEL-01	Grab	GW		9/14/21	840	12	X	X	X	X	X	X				X		99
TRIP BLANK-REST-04	Grab	GW		9/15/21	—	1	X											100
TRIP BLANK-TEL-01	Grab	GW		9/14/21	—	1	X											101

Chain of Custody Page 16 of 19

Pace Analytical® National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 142484

Table #

Acctnum: TRCATX
Template: T194233
Prelogin: P870645
TSR: 526
PB:

Shipped Via:

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCl / MeOH TBR	If preservation required by Login: Date/Time
Scott Ude	9/15/21	1200			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4.7+0.5=5.2 °C Bottles Received: 18	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 9/16/21 Time: 9:52	Hold: Condition: NCF / OK

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Pres Chk

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com**

Project Description: **Artesia Fall 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **425135.0000.0000.**

Lab Project # **TRCATX-ARTESIA**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **(Navajo - Artesia)**

P.O. # **165614**

Collected by (signature): Scott Ude
Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page 17 of 19

Pace Analytical® National Center for Testing & Innovation
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 140404

Table #

Acctnum: TRCATX
Template: T194233
Prelogin: P870645
TSR: 526
PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260OXY - 40mlAmb HCl	DROLVI- 40mlAmb-HCl-BT	GRO - 40mlAmb HCl	Total Short List Metals 250mlHDPE-HNO3	Anions. TDS - 250mlHDPE-NoPres	NO2NO3 - 250mlHDPE-H2SO4	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	SVOCs/8270DIOXANE-100mlAmb-NoPres	Remarks	Sample # (lab only)
MW-139	Grab	GW		9/14/21	1600	12	X	X	X	X	X	X				X	1,4-D only	102
MW-50	Grab	GW		9/14/21	940	12	X	X		X	X	X			X	X	1,4-D only	103
MW-97	Grab	GW	unable	to locate,	as previous	12	X	X	X	X	X	X				X	SVOCs only	
MW-92	Grab	GW		LNAPL		12	X	X	X	X	X	X				X	1,4-D only	
MW-91	Grab	GW		LNAPL		12	X	X	X	X	X	X				X	1,4-D only	
MW-90	Grab	GW		9/14/21	1100	12	X	X	X	X	X	X				X	1,4-D only	104
MW-96	Grab	GW		9/14/21	1200	10	X	X	X	X	X	X						105
MW-94	Grab	GW		LNAPL		12	X	X	X	X	X	X				X	1,4-D only	
MW-67	Grab	GW		LNAPL		13	X	X	X		X	X	X	X		X	1,4-D only	
MW-55	Grab	GW		9/14/21	1420	11	X	X	X		X	X	X	X				106

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: N N
Preservation Correct/Checked: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCl / MeoH TBR
Scott Ude	9/15/21	1200		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 2.6 2.6 °C Bottles Received: 101
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) K. Holan	Date: 9/16/21 Time: 9:02

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Pres Chk

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com**

Project Description: **Artesia Fall 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **425135.0000.0000.**

Lab Project # **TRCATX-ARTESIA**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **(Navajo - Artesia)**

P.O. # **165614**

Collected by (signature): Scott Ude

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page 18 of 19

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National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 140404

Table #

Acctnum: TRCATX
Template: T194233
Prelogin: P870645
TSR: 526
PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260OXY - 40mlAmb HCl	DROLVI- 40mlAmb-HCl-BT	GRO - 40mlAmb HCl	Total Short List Metals 250mlHDPE-HNO3	Anions, TDS - 250mlHDPE-NoPres	NO2NO3 - 250mlHDPE-H2SO4	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
~~NCL-34A~~	~~Grab~~	~~GW~~		LNAPL		8	X	X		X	X	X						
NCL-33	Grab	GW		9/14/21	1030	8	X	X		X	X	X						107
NCL-44	Grab	GW		9/14/21	950	8	X	X		X	X	X						108
NCL-32	Grab	GW		9/14/21	910	8	X	X		X	X	X						109
MW-108	Grab	GW		9/14/21	1300	12	X	X		X	X	X			X	X		110
NCL-31	Grab	GW		9/14/21	1130	10	X	X		X	X	X				X		111
MW-54A	Grab	GW		9/14/21	1405	10	X	X		X	X	X				X		112
NCL-49	Grab	GW		9/14/21	1240	10	X	X		X	X	X				X		113
DUP-NCL-01	Grab	GW		9/14/21	1000	10	X	X		X	X	X				X		114
EB-NCL-01	Grab	GW		9/14/21	1255	10	X	X		X	X	X				X		115

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP ✓Y __N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: ✓Y __N
Correct bottles used: ✓Y __N
Sufficient volume sent: ✓Y __N
If Applicable
VOA Zero Headspace: ✓Y __N
Preservation Correct/Checked: ✓Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Scott Ude	9/15/21	1200		9
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 2.6 to 2.6 °C Bottles Received: 108
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 9/16/21 Time: 9:10

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Pres Chk

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com**

Project Description: **Artesia Fall 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **425135.0000.0000.**

Lab Project # **TRCATX-ARTESIA**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **(Navajo - Artesia)**

P.O. # **165614**

Collected by (signature): Scott Ude
Immediately
Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260OXY - 40mlAmb HCl	DROLVI- 40mlAmb-HCl-BT	GRO - 40mlAmb HCl	Total Short List Metals 250mlHDPE-HNO3	Anions. TDS - 250mlHDPE-NoPres	NO2NO3 - 250mlHDPE-H2SO4	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
TRIP BLANK-NCL-01	Grab	GW		9/14/21	—	1	X											116

Analysis / Container / Preservative

Chain of Custody Page 19 of 19

Pace Analytical*
National Center for Testing & Innovation

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Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 140466

Table #

Acctnum: TRCATX
Template: T194233
Prelogin: P870645
TSR: 526
PB:

Shipped Via:

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP __Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeOH TBR
Scott Ude	9/15/21	1200		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4°C Bottles Received: 2.6±0=2.6 1018
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) K. Holder	Date: 9/16/21 Time: 9:02

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

ANALYTICAL REPORT

April 28, 2021

Revised Report

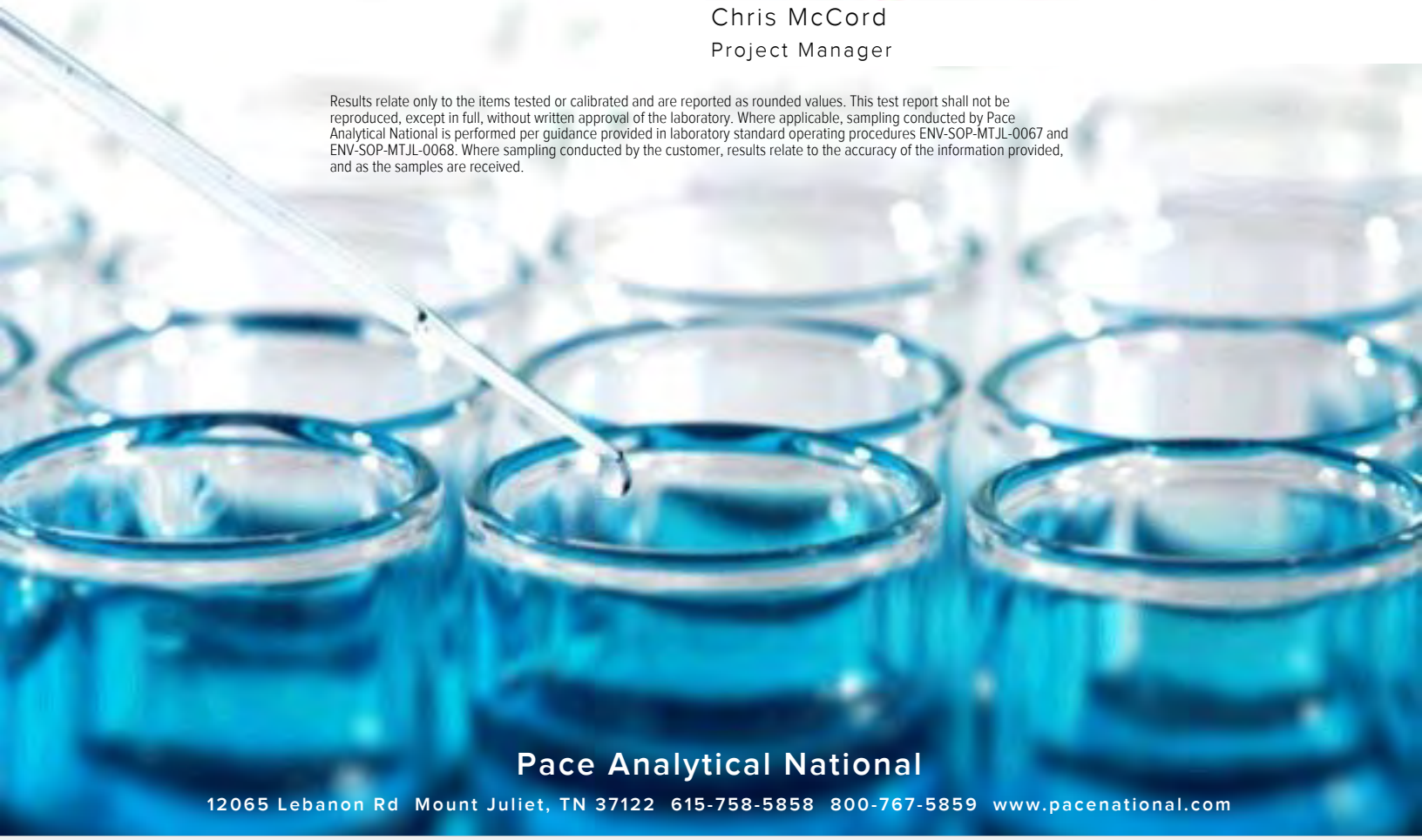
TRC Solutions - Austin, TX

Sample Delivery Group:	L1338279
Samples Received:	04/14/2021
Project Number:	425135.0000.0000
Description:	REST Spring 2021
Site:	REST (NAVAJO-ARTESIA)
Report To:	Julie Speer
	505 E. Huntland Dr, Ste 250
	Austin, TX 78752

Entire Report Reviewed By:

Chris McCord
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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UG-3R L1338279-01 GW

Collected by: Scott Ude / HMI Team
Collected date/time: 04/12/21 17:55
Received date/time: 04/14/21 12:22

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1652189	1	04/15/21 09:59	04/15/21 12:18	VRP	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1652922	1	04/16/21 07:49	04/16/21 07:49	SDL	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG1653986	1	04/18/21 18:36	04/19/21 16:18	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1654384	1	04/20/21 17:40	04/20/21 17:40	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1654384	50	04/20/21 17:53	04/20/21 17:53	MCG	Mt. Juliet, TN
Mercury by Method 7470A	WG1651656	1	04/15/21 13:50	04/16/21 10:02	ABL	Mt. Juliet, TN
Mercury by Method 7470A	WG1652514	1	04/16/21 08:39	04/16/21 12:47	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1654212	1	04/19/21 17:19	04/21/21 05:14	EL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1654218	1	04/21/21 12:25	04/23/21 00:25	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1654920	1	04/21/21 05:32	04/21/21 12:31	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1654929	1	04/20/21 23:06	04/21/21 20:05	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656419	1	04/22/21 03:02	04/22/21 10:36	TM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1654141	1	04/18/21 23:09	04/18/21 23:09	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1652593	1	04/16/21 12:15	04/16/21 12:15	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653356	1	04/17/21 02:36	04/17/21 02:36	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1653577	1	04/17/21 08:14	04/18/21 16:00	DMG	Mt. Juliet, TN

UG-4 L1338279-02 GW

Collected by: Scott Ude / HMI Team
Collected date/time: 04/12/21 17:00
Received date/time: 04/14/21 12:22

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1652189	1	04/15/21 09:59	04/15/21 12:18	VRP	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1652922	1	04/16/21 07:51	04/16/21 07:51	SDL	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG1653986	1	04/18/21 18:36	04/19/21 16:19	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1654384	5	04/20/21 18:06	04/20/21 18:06	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1654384	50	04/20/21 18:20	04/20/21 18:20	MCG	Mt. Juliet, TN
Mercury by Method 7470A	WG1651656	1	04/15/21 13:50	04/16/21 10:04	ABL	Mt. Juliet, TN
Mercury by Method 7470A	WG1652514	1	04/16/21 08:39	04/16/21 12:49	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1654212	1	04/19/21 17:19	04/21/21 05:17	EL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1654218	1	04/21/21 12:25	04/23/21 00:28	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1654920	1	04/21/21 05:32	04/21/21 12:35	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656419	1	04/22/21 03:02	04/22/21 10:39	TM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656517	1	04/27/21 00:36	04/27/21 10:39	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1654141	1	04/18/21 23:31	04/18/21 23:31	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1652593	1	04/16/21 12:35	04/16/21 12:35	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653356	1	04/17/21 02:56	04/17/21 02:56	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1653577	1	04/17/21 08:14	04/18/21 16:20	DMG	Mt. Juliet, TN

UG-1 L1338279-03 GW

Collected by: Scott Ude / HMI Team
Collected date/time: 04/12/21 16:10
Received date/time: 04/14/21 12:22

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1652189	1	04/15/21 09:59	04/15/21 12:18	VRP	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1652922	5	04/16/21 07:57	04/16/21 07:57	SDL	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG1654703	1	04/19/21 16:58	04/20/21 12:18	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1654384	1	04/20/21 18:33	04/20/21 18:33	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1654384	50	04/20/21 18:46	04/20/21 18:46	MCG	Mt. Juliet, TN
Mercury by Method 7470A	WG1651656	1	04/15/21 13:50	04/16/21 10:06	ABL	Mt. Juliet, TN
Mercury by Method 7470A	WG1652514	1	04/16/21 08:39	04/16/21 12:51	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1654212	1	04/19/21 17:19	04/21/21 05:21	EL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1654218	1	04/21/21 12:25	04/22/21 23:15	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1654920	1	04/21/21 05:32	04/21/21 12:38	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1654929	1	04/20/21 23:06	04/21/21 10:35	JPD	Mt. Juliet, TN

UG-1 L1338279-03 GW

Collected by: Scott Ude / HMI Team
Collected date/time: 04/12/21 16:10
Received date/time: 04/14/21 12:22

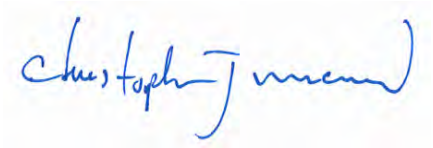
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICPMS) by Method 6020	WG1656419	1	04/22/21 03:02	04/22/21 10:43	TM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1654141	1	04/18/21 23:52	04/18/21 23:52	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1652593	1	04/16/21 12:56	04/16/21 12:56	TPR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1653577	1	04/17/21 08:14	04/18/21 16:41	DMG	Mt. Juliet, TN

UG-2 L1338279-04 GW

Collected by: Scott Ude / HMI Team
Collected date/time: 04/12/21 15:25
Received date/time: 04/14/21 12:22

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1652189	1	04/15/21 09:59	04/15/21 12:18	VRP	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1652922	5	04/16/21 07:58	04/16/21 07:58	SDL	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG1654703	1	04/19/21 16:58	04/20/21 12:19	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1654384	1	04/20/21 18:59	04/20/21 18:59	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1654384	20	04/20/21 19:12	04/20/21 19:12	MCG	Mt. Juliet, TN
Mercury by Method 7470A	WG1651656	1	04/15/21 13:50	04/16/21 10:08	ABL	Mt. Juliet, TN
Mercury by Method 7470A	WG1652514	1	04/16/21 08:39	04/16/21 12:53	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1654212	1	04/19/21 17:19	04/21/21 05:24	EL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1654219	1	04/21/21 12:28	04/22/21 12:18	KMG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1654920	1	04/21/21 05:32	04/21/21 12:41	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1654929	1	04/20/21 23:06	04/21/21 10:38	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656419	1	04/22/21 03:02	04/22/21 10:54	TM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1654141	1	04/19/21 00:14	04/19/21 00:14	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1652593	1	04/16/21 13:36	04/16/21 13:36	TPR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1653577	1	04/17/21 08:14	04/18/21 17:01	DMG	Mt. Juliet, TN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Chris McCord
Project Manager

Report Revision History

Level II Report - Version 1: 04/28/21 13:29

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	2300		50.0	1	04/15/2021 12:18	WG1652189

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	3.16		0.0500	0.100	1	04/16/2021 07:49	WG1652922

Wet Chemistry by Method 4500CN E-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Cyanide	U		0.00180	0.00500	1	04/19/2021 16:18	WG1653986

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	61.7		0.379	1.00	1	04/20/2021 17:40	WG1654384
Fluoride	0.466		0.0640	0.150	1	04/20/2021 17:40	WG1654384
Sulfate	1530		29.7	250	50	04/20/2021 17:53	WG1654384

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.000100	0.000200	1	04/16/2021 12:47	WG1652514
Mercury,Dissolved	U		0.000100	0.000200	1	04/16/2021 10:02	WG1651656

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Boron	0.169	J	0.0200	0.200	1	04/23/2021 00:25	WG1654218
Boron,Dissolved	0.187	J	0.0200	0.200	1	04/21/2021 05:14	WG1654212

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00140	J	0.000180	0.00200	1	04/21/2021 12:31	WG1654920
Arsenic,Dissolved	0.00138	J	0.000180	0.00200	1	04/21/2021 20:05	WG1654929
Barium	0.0221		0.000381	0.0200	1	04/21/2021 12:31	WG1654920
Barium,Dissolved	0.0236		0.000381	0.0200	1	04/21/2021 20:05	WG1654929
Cadmium	U		0.000150	0.00100	1	04/21/2021 12:31	WG1654920
Cadmium,Dissolved	U		0.000150	0.00100	1	04/21/2021 20:05	WG1654929
Calcium	489		0.0936	1.00	1	04/21/2021 12:31	WG1654920
Chromium	0.00429	B	0.00124	0.00200	1	04/21/2021 12:31	WG1654920
Chromium,Dissolved	U		0.00124	0.00200	1	04/22/2021 10:36	WG1656419
Cobalt	0.000113	J	0.0000596	0.00200	1	04/21/2021 12:31	WG1654920
Cobalt,Dissolved	0.000116	J	0.0000596	0.00200	1	04/21/2021 20:05	WG1654929
Iron	0.0430	J	0.0281	0.100	1	04/21/2021 12:31	WG1654920
Iron,Dissolved	0.0311	J	0.0281	0.100	1	04/21/2021 20:05	WG1654929
Lead	0.000853	J	0.000849	0.00200	1	04/21/2021 12:31	WG1654920
Lead,Dissolved	0.00106	J	0.000849	0.00200	1	04/21/2021 20:05	WG1654929
Manganese	0.00180	J	0.000704	0.00500	1	04/21/2021 12:31	WG1654920
Manganese,Dissolved	0.00707		0.000704	0.00500	1	04/21/2021 20:05	WG1654929
Nickel	0.00108	J	0.000816	0.00200	1	04/21/2021 12:31	WG1654920
Nickel,Dissolved	0.00278	B	0.000816	0.00200	1	04/21/2021 20:05	WG1654929

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Potassium	2.10		0.108	2.00	1	04/21/2021 12:31	WG1654920
Selenium	0.00420		0.000300	0.00200	1	04/21/2021 12:31	WG1654920
Selenium,Dissolved	0.00450		0.000300	0.00200	1	04/21/2021 20:05	WG1654929
Sodium	34.9		0.376	2.00	1	04/21/2021 12:31	WG1654920
Uranium	0.0181	J	0.0000700	0.0200	1	04/21/2021 12:31	WG1654920
Uranium,Dissolved	0.0175	J	0.0000700	0.0200	1	04/21/2021 20:05	WG1654929
Vanadium	0.00939		0.000664	0.00500	1	04/21/2021 12:31	WG1654920
Vanadium,Dissolved	0.00934		0.000664	0.00500	1	04/21/2021 20:05	WG1654929

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/18/2021 23:09	WG1654141
(S) a,a,a-Trifluorotoluene(FID)	*98.9*			*78.0-120*		*04/18/2021 23:09*	WG1654141

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/16/2021 12:15	WG1652593
Benzene	U		0.0000941	0.00100	1	04/16/2021 12:15	WG1652593
Bromodichloromethane	U	J4	0.000136	0.00100	1	04/16/2021 12:15	WG1652593
Bromoform	U		0.000129	0.00100	1	04/16/2021 12:15	WG1652593
Bromomethane	U		0.000605	0.00500	1	04/16/2021 12:15	WG1652593
n-Butylbenzene	U		0.000157	0.00100	1	04/16/2021 12:15	WG1652593
sec-Butylbenzene	U		0.000125	0.00100	1	04/16/2021 12:15	WG1652593
Carbon disulfide	U		0.0000962	0.00100	1	04/16/2021 12:15	WG1652593
Carbon tetrachloride	U		0.000128	0.00100	1	04/16/2021 12:15	WG1652593
Chlorobenzene	U		0.000116	0.00100	1	04/16/2021 12:15	WG1652593
Chlorodibromomethane	U		0.000140	0.00100	1	04/16/2021 12:15	WG1652593
Chloroethane	U		0.000192	0.00500	1	04/16/2021 12:15	WG1652593
Chloroform	U	J4	0.000111	0.00500	1	04/16/2021 12:15	WG1652593
Chloromethane	U		0.000960	0.00250	1	04/16/2021 12:15	WG1652593
1,2-Dibromoethane	U		0.000126	0.00100	1	04/16/2021 12:15	WG1652593
1,1-Dichloroethane	U		0.000100	0.00100	1	04/16/2021 12:15	WG1652593
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/16/2021 12:15	WG1652593
1,1-Dichloroethene	U		0.000188	0.00100	1	04/16/2021 12:15	WG1652593
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/17/2021 02:36	WG1653356
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/16/2021 12:15	WG1652593
1,2-Dichloropropane	U		0.000149	0.00100	1	04/16/2021 12:15	WG1652593
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/16/2021 12:15	WG1652593
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/16/2021 12:15	WG1652593
Ethylbenzene	U		0.000137	0.00100	1	04/16/2021 12:15	WG1652593
Isopropylbenzene	U		0.000105	0.00100	1	04/16/2021 12:15	WG1652593
p-Isopropyltoluene	U		0.000120	0.00100	1	04/16/2021 12:15	WG1652593
2-Butanone (MEK)	U		0.00119	0.0100	1	04/16/2021 12:15	WG1652593
2-Hexanone	U		0.000787	0.0100	1	04/16/2021 12:15	WG1652593
Methylene Chloride	U		0.000430	0.00500	1	04/16/2021 12:15	WG1652593
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/16/2021 12:15	WG1652593
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/16/2021 12:15	WG1652593
Naphthalene	U		0.00100	0.00500	1	04/16/2021 12:15	WG1652593
n-Propylbenzene	U		0.0000993	0.00100	1	04/16/2021 12:15	WG1652593
Styrene	U		0.000118	0.00100	1	04/16/2021 12:15	WG1652593
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/16/2021 12:15	WG1652593
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/16/2021 12:15	WG1652593
Tetrachloroethene	U		0.000300	0.00100	1	04/16/2021 12:15	WG1652593

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Toluene	U		0.000278	0.00100	1	04/16/2021 12:15	WG1652593
1,1,1-Trichloroethane	U	J4	0.000149	0.00100	1	04/16/2021 12:15	WG1652593
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/16/2021 12:15	WG1652593
Trichloroethene	U		0.000190	0.00100	1	04/17/2021 02:36	WG1653356
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/16/2021 12:15	WG1652593
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/16/2021 12:15	WG1652593
Vinyl chloride	U		0.000234	0.00100	1	04/16/2021 12:15	WG1652593
o-Xylene	U		0.000174	0.00100	1	04/16/2021 12:15	WG1652593
m&p-Xylene	U		0.000430	0.00200	1	04/16/2021 12:15	WG1652593
Xylenes, Total	U		0.000174	0.00300	1	04/16/2021 12:15	WG1652593
(S) Toluene-d8	*98.3*			*80.0-120*		*04/16/2021 12:15*	WG1652593
(S) Toluene-d8	*106*			*80.0-120*		*04/17/2021 02:36*	WG1653356
(S) 4-Bromofluorobenzene	*92.8*			*77.0-126*		*04/16/2021 12:15*	WG1652593
(S) 4-Bromofluorobenzene	*102*			*77.0-126*		*04/17/2021 02:36*	WG1653356
(S) 1,2-Dichloroethane-d4	*126*			*70.0-130*		*04/16/2021 12:15*	WG1652593
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*04/17/2021 02:36*	WG1653356

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0931	J	0.0247	0.100	1	04/18/2021 16:00	WG1653577
(S) o-Terphenyl	*82.6*			*31.0-160*		*04/18/2021 16:00*	WG1653577

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	3800		50.0	1	04/15/2021 12:18	WG1652189

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.491		0.0500	0.100	1	04/16/2021 07:51	WG1652922

Wet Chemistry by Method 4500CN E-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Cyanide	U		0.00180	0.00500	1	04/19/2021 16:19	WG1653986

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	76.0		1.90	5.00	5	04/20/2021 18:06	WG1654384
Fluoride	0.676	J	0.320	0.750	5	04/20/2021 18:06	WG1654384
Sulfate	2610		29.7	250	50	04/20/2021 18:20	WG1654384

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.000100	0.000200	1	04/16/2021 12:49	WG1652514
Mercury,Dissolved	U		0.000100	0.000200	1	04/16/2021 10:04	WG1651656

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Boron	0.983		0.0200	0.200	1	04/23/2021 00:28	WG1654218
Boron,Dissolved	1.06		0.0200	0.200	1	04/21/2021 05:17	WG1654212

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00146	J	0.000180	0.00200	1	04/21/2021 12:35	WG1654920
Arsenic,Dissolved	0.00130	J	0.000180	0.00200	1	04/27/2021 10:39	WG1656517
Barium	0.0150	J	0.000381	0.0200	1	04/21/2021 12:35	WG1654920
Barium,Dissolved	0.0140	J	0.000381	0.0200	1	04/27/2021 10:39	WG1656517
Cadmium	U		0.000150	0.00100	1	04/21/2021 12:35	WG1654920
Cadmium,Dissolved	U		0.000150	0.00100	1	04/27/2021 10:39	WG1656517
Calcium	635		0.0936	1.00	1	04/21/2021 12:35	WG1654920
Chromium	U		0.00124	0.00200	1	04/21/2021 12:35	WG1654920
Chromium,Dissolved	U		0.00124	0.00200	1	04/22/2021 10:39	WG1656419
Cobalt	0.000184	J	0.0000596	0.00200	1	04/21/2021 12:35	WG1654920
Cobalt,Dissolved	0.000211	J	0.0000596	0.00200	1	04/27/2021 10:39	WG1656517
Iron	0.0350	J	0.0281	0.100	1	04/21/2021 12:35	WG1654920
Iron,Dissolved	U		0.0281	0.100	1	04/27/2021 10:39	WG1656517
Lead	U		0.000849	0.00200	1	04/21/2021 12:35	WG1654920
Lead,Dissolved	U		0.000849	0.00200	1	04/27/2021 10:39	WG1656517
Manganese	0.00426	J	0.000704	0.00500	1	04/21/2021 12:35	WG1654920
Manganese,Dissolved	0.000787	J	0.000704	0.00500	1	04/27/2021 10:39	WG1656517
Nickel	U		0.000816	0.00200	1	04/21/2021 12:35	WG1654920
Nickel,Dissolved	0.000829	J	0.000816	0.00200	1	04/27/2021 10:39	WG1656517

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Potassium	1.82	J	0.108	2.00	1	04/21/2021 12:35	WG1654920
Selenium	0.00959		0.000300	0.00200	1	04/21/2021 12:35	WG1654920
Selenium,Dissolved	0.00987		0.000300	0.00200	1	04/27/2021 10:39	WG1656517
Sodium	164		0.376	2.00	1	04/21/2021 12:35	WG1654920
Uranium	0.0356		0.0000700	0.0200	1	04/21/2021 12:35	WG1654920
Uranium,Dissolved	0.0358		0.0000700	0.0200	1	04/27/2021 10:39	WG1656517
Vanadium	0.00929		0.000664	0.00500	1	04/21/2021 12:35	WG1654920
Vanadium,Dissolved	0.00765		0.000664	0.00500	1	04/27/2021 10:39	WG1656517

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/18/2021 23:31	WG1654141
(S) a,a,a-Trifluorotoluene(FID)	*98.8*			*78.0-120*		*04/18/2021 23:31*	WG1654141

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/16/2021 12:35	WG1652593
Benzene	U		0.0000941	0.00100	1	04/16/2021 12:35	WG1652593
Bromodichloromethane	U	J4	0.000136	0.00100	1	04/16/2021 12:35	WG1652593
Bromoform	U		0.000129	0.00100	1	04/16/2021 12:35	WG1652593
Bromomethane	U		0.000605	0.00500	1	04/16/2021 12:35	WG1652593
n-Butylbenzene	U		0.000157	0.00100	1	04/16/2021 12:35	WG1652593
sec-Butylbenzene	U		0.000125	0.00100	1	04/16/2021 12:35	WG1652593
Carbon disulfide	U		0.0000962	0.00100	1	04/16/2021 12:35	WG1652593
Carbon tetrachloride	U		0.000128	0.00100	1	04/16/2021 12:35	WG1652593
Chlorobenzene	U		0.000116	0.00100	1	04/16/2021 12:35	WG1652593
Chlorodibromomethane	U		0.000140	0.00100	1	04/16/2021 12:35	WG1652593
Chloroethane	U		0.000192	0.00500	1	04/16/2021 12:35	WG1652593
Chloroform	U	J4	0.000111	0.00500	1	04/16/2021 12:35	WG1652593
Chloromethane	U		0.000960	0.00250	1	04/16/2021 12:35	WG1652593
1,2-Dibromoethane	U		0.000126	0.00100	1	04/16/2021 12:35	WG1652593
1,1-Dichloroethane	U		0.000100	0.00100	1	04/16/2021 12:35	WG1652593
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/16/2021 12:35	WG1652593
1,1-Dichloroethene	U		0.000188	0.00100	1	04/16/2021 12:35	WG1652593
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/16/2021 12:35	WG1652593
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/16/2021 12:35	WG1652593
1,2-Dichloropropane	U		0.000149	0.00100	1	04/16/2021 12:35	WG1652593
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/16/2021 12:35	WG1652593
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/16/2021 12:35	WG1652593
Ethylbenzene	U		0.000137	0.00100	1	04/16/2021 12:35	WG1652593
Isopropylbenzene	U		0.000105	0.00100	1	04/16/2021 12:35	WG1652593
p-Isopropyltoluene	U		0.000120	0.00100	1	04/16/2021 12:35	WG1652593
2-Butanone (MEK)	U		0.00119	0.0100	1	04/16/2021 12:35	WG1652593
2-Hexanone	U		0.000787	0.0100	1	04/16/2021 12:35	WG1652593
Methylene Chloride	U		0.000430	0.00500	1	04/16/2021 12:35	WG1652593
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/16/2021 12:35	WG1652593
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/16/2021 12:35	WG1652593
Naphthalene	U		0.00100	0.00500	1	04/16/2021 12:35	WG1652593
n-Propylbenzene	U		0.0000993	0.00100	1	04/16/2021 12:35	WG1652593
Styrene	U		0.000118	0.00100	1	04/16/2021 12:35	WG1652593
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/16/2021 12:35	WG1652593
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/16/2021 12:35	WG1652593
Tetrachloroethene	U		0.000300	0.00100	1	04/16/2021 12:35	WG1652593

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Toluene	U		0.000278	0.00100	1	04/16/2021 12:35	WG1652593
1,1,1-Trichloroethane	U	J4	0.000149	0.00100	1	04/16/2021 12:35	WG1652593
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/16/2021 12:35	WG1652593
Trichloroethene	U		0.000190	0.00100	1	04/17/2021 02:56	WG1653356
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/16/2021 12:35	WG1652593
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/16/2021 12:35	WG1652593
Vinyl chloride	U		0.000234	0.00100	1	04/16/2021 12:35	WG1652593
o-Xylene	U		0.000174	0.00100	1	04/16/2021 12:35	WG1652593
m&p-Xylene	U		0.000430	0.00200	1	04/16/2021 12:35	WG1652593
Xylenes, Total	U		0.000174	0.00300	1	04/16/2021 12:35	WG1652593
(S) Toluene-d8	*96.5*			*80.0-120*		*04/16/2021 12:35*	WG1652593
(S) Toluene-d8	*107*			*80.0-120*		*04/17/2021 02:56*	WG1653356
(S) 4-Bromofluorobenzene	*94.6*			*77.0-126*		*04/16/2021 12:35*	WG1652593
(S) 4-Bromofluorobenzene	*102*			*77.0-126*		*04/17/2021 02:56*	WG1653356
(S) 1,2-Dichloroethane-d4	*124*			*70.0-130*		*04/16/2021 12:35*	WG1652593
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*04/17/2021 02:56*	WG1653356

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0643	J	0.0247	0.100	1	04/18/2021 16:20	WG1653577
(S) o-Terphenyl	*77.9*			*31.0-160*		*04/18/2021 16:20*	WG1653577

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2950		50.0	1	04/15/2021 12:18	WG1652189

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	11.1		0.250	0.500	5	04/16/2021 07:57	WG1652922

Wet Chemistry by Method 4500CN E-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Cyanide	U		0.00180	0.00500	1	04/20/2021 12:18	WG1654703

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	93.5		19.0	50.0	50	04/20/2021 18:46	WG1654384
Fluoride	0.638		0.0640	0.150	1	04/20/2021 18:33	WG1654384
Sulfate	1860		29.7	250	50	04/20/2021 18:46	WG1654384

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U		0.000100	0.000200	1	04/16/2021 12:51	WG1652514
Mercury,Dissolved	U		0.000100	0.000200	1	04/16/2021 10:06	WG1651656

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	0.741		0.0200	0.200	1	04/22/2021 23:15	WG1654218
Boron,Dissolved	0.791		0.0200	0.200	1	04/21/2021 05:21	WG1654212

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00134	J	0.000180	0.00200	1	04/21/2021 12:38	WG1654920
Arsenic,Dissolved	0.00143	J	0.000180	0.00200	1	04/21/2021 10:35	WG1654929
Barium	0.0137	J	0.000381	0.0200	1	04/21/2021 12:38	WG1654920
Barium,Dissolved	0.0130	J	0.000381	0.0200	1	04/21/2021 10:35	WG1654929
Cadmium	U		0.000150	0.00100	1	04/21/2021 12:38	WG1654920
Cadmium,Dissolved	U		0.000150	0.00100	1	04/21/2021 10:35	WG1654929
Calcium	499		0.0936	1.00	1	04/21/2021 12:38	WG1654920
Chromium	0.00204	B	0.00124	0.00200	1	04/21/2021 12:38	WG1654920
Chromium,Dissolved	0.00150	B J	0.00124	0.00200	1	04/22/2021 10:43	WG1656419
Cobalt	0.000148	J	0.0000596	0.00200	1	04/21/2021 12:38	WG1654920
Cobalt,Dissolved	0.000180	J	0.0000596	0.00200	1	04/21/2021 10:35	WG1654929
Iron	U		0.0281	0.100	1	04/21/2021 12:38	WG1654920
Iron,Dissolved	U		0.0281	0.100	1	04/21/2021 10:35	WG1654929
Lead	U		0.000849	0.00200	1	04/21/2021 12:38	WG1654920
Lead,Dissolved	0.00193	J	0.000849	0.00200	1	04/21/2021 10:35	WG1654929
Manganese	0.00184	J	0.000704	0.00500	1	04/21/2021 12:38	WG1654920
Manganese,Dissolved	0.00523		0.000704	0.00500	1	04/21/2021 10:35	WG1654929
Nickel	0.00238		0.000816	0.00200	1	04/21/2021 12:38	WG1654920
Nickel,Dissolved	0.00323	B	0.000816	0.00200	1	04/21/2021 10:35	WG1654929

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Potassium	1.19	B J	0.108	2.00	1	04/21/2021 12:38	WG1654920
Selenium	0.0167		0.000300	0.00200	1	04/21/2021 12:38	WG1654920
Selenium,Dissolved	0.0177		0.000300	0.00200	1	04/21/2021 10:35	WG1654929
Sodium	93.1		0.376	2.00	1	04/21/2021 12:38	WG1654920
Uranium	0.0388		0.0000700	0.0200	1	04/21/2021 12:38	WG1654920
Uranium,Dissolved	0.0377		0.0000700	0.0200	1	04/21/2021 10:35	WG1654929
Vanadium	0.0140		0.000664	0.00500	1	04/21/2021 12:38	WG1654920
Vanadium,Dissolved	0.0149		0.000664	0.00500	1	04/21/2021 10:35	WG1654929

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/18/2021 23:52	WG1654141
(S) a,a,a-Trifluorotoluene(FID)	*98.9*			*78.0-120*		*04/18/2021 23:52*	WG1654141

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/16/2021 12:56	WG1652593
Benzene	U		0.0000941	0.00100	1	04/16/2021 12:56	WG1652593
Bromodichloromethane	U	J4	0.000136	0.00100	1	04/16/2021 12:56	WG1652593
Bromoform	U		0.000129	0.00100	1	04/16/2021 12:56	WG1652593
Bromomethane	U		0.000605	0.00500	1	04/16/2021 12:56	WG1652593
n-Butylbenzene	U		0.000157	0.00100	1	04/16/2021 12:56	WG1652593
sec-Butylbenzene	U		0.000125	0.00100	1	04/16/2021 12:56	WG1652593
Carbon disulfide	U		0.0000962	0.00100	1	04/16/2021 12:56	WG1652593
Carbon tetrachloride	U		0.000128	0.00100	1	04/16/2021 12:56	WG1652593
Chlorobenzene	U		0.000116	0.00100	1	04/16/2021 12:56	WG1652593
Chlorodibromomethane	U		0.000140	0.00100	1	04/16/2021 12:56	WG1652593
Chloroethane	U		0.000192	0.00500	1	04/16/2021 12:56	WG1652593
Chloroform	U	J4	0.000111	0.00500	1	04/16/2021 12:56	WG1652593
Chloromethane	U		0.000960	0.00250	1	04/16/2021 12:56	WG1652593
1,2-Dibromoethane	U		0.000126	0.00100	1	04/16/2021 12:56	WG1652593
1,1-Dichloroethane	U		0.000100	0.00100	1	04/16/2021 12:56	WG1652593
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/16/2021 12:56	WG1652593
1,1-Dichloroethene	U		0.000188	0.00100	1	04/16/2021 12:56	WG1652593
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/16/2021 12:56	WG1652593
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/16/2021 12:56	WG1652593
1,2-Dichloropropane	U		0.000149	0.00100	1	04/16/2021 12:56	WG1652593
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/16/2021 12:56	WG1652593
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/16/2021 12:56	WG1652593
Ethylbenzene	U		0.000137	0.00100	1	04/16/2021 12:56	WG1652593
Isopropylbenzene	U		0.000105	0.00100	1	04/16/2021 12:56	WG1652593
p-Isopropyltoluene	U		0.000120	0.00100	1	04/16/2021 12:56	WG1652593
2-Butanone (MEK)	U		0.00119	0.0100	1	04/16/2021 12:56	WG1652593
2-Hexanone	U		0.000787	0.0100	1	04/16/2021 12:56	WG1652593
Methylene Chloride	U		0.000430	0.00500	1	04/16/2021 12:56	WG1652593
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/16/2021 12:56	WG1652593
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/16/2021 12:56	WG1652593
Naphthalene	U		0.00100	0.00500	1	04/16/2021 12:56	WG1652593
n-Propylbenzene	U		0.0000993	0.00100	1	04/16/2021 12:56	WG1652593
Styrene	U		0.000118	0.00100	1	04/16/2021 12:56	WG1652593
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/16/2021 12:56	WG1652593
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/16/2021 12:56	WG1652593
Tetrachloroethene	U		0.000300	0.00100	1	04/16/2021 12:56	WG1652593

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Toluene	U		0.000278	0.00100	1	04/16/2021 12:56	WG1652593
1,1,1-Trichloroethane	U	J4	0.000149	0.00100	1	04/16/2021 12:56	WG1652593
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/16/2021 12:56	WG1652593
Trichloroethene	U		0.000190	0.00100	1	04/16/2021 12:56	WG1652593
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/16/2021 12:56	WG1652593
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/16/2021 12:56	WG1652593
Vinyl chloride	U		0.000234	0.00100	1	04/16/2021 12:56	WG1652593
o-Xylene	U		0.000174	0.00100	1	04/16/2021 12:56	WG1652593
m&p-Xylene	U		0.000430	0.00200	1	04/16/2021 12:56	WG1652593
Xylenes, Total	U		0.000174	0.00300	1	04/16/2021 12:56	WG1652593
(S) Toluene-d8	*95.2*			*80.0-120*		*04/16/2021 12:56*	WG1652593
(S) 4-Bromofluorobenzene	*90.1*			*77.0-126*		*04/16/2021 12:56*	WG1652593
(S) 1,2-Dichloroethane-d4	*123*			*70.0-130*		*04/16/2021 12:56*	WG1652593

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0579	J	0.0247	0.100	1	04/18/2021 16:41	WG1653577
(S) o-Terphenyl	*74.7*			*31.0-160*		*04/18/2021 16:41*	WG1653577

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	1710		50.0	1	04/15/2021 12:18	WG1652189

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	7.30		0.250	0.500	5	04/16/2021 07:58	WG1652922

Wet Chemistry by Method 4500CN E-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Cyanide	0.00321	J	0.00180	0.00500	1	04/20/2021 12:19	WG1654703

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	66.3		0.379	1.00	1	04/20/2021 18:59	WG1654384
Fluoride	1.36		0.0640	0.150	1	04/20/2021 18:59	WG1654384
Sulfate	1070		11.9	100	20	04/20/2021 19:12	WG1654384

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.000100	0.000200	1	04/16/2021 12:53	WG1652514
Mercury,Dissolved	U		0.000100	0.000200	1	04/16/2021 10:08	WG1651656

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Boron	0.265		0.0200	0.200	1	04/22/2021 12:18	WG1654219
Boron,Dissolved	0.301		0.0200	0.200	1	04/21/2021 05:24	WG1654212

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00224		0.000180	0.00200	1	04/21/2021 12:41	WG1654920
Arsenic,Dissolved	0.00215		0.000180	0.00200	1	04/21/2021 10:38	WG1654929
Barium	0.0160	J	0.000381	0.0200	1	04/21/2021 12:41	WG1654920
Barium,Dissolved	0.0147	J	0.000381	0.0200	1	04/21/2021 10:38	WG1654929
Cadmium	U		0.000150	0.00100	1	04/21/2021 12:41	WG1654920
Cadmium,Dissolved	U		0.000150	0.00100	1	04/21/2021 10:38	WG1654929
Calcium	330		0.0936	1.00	1	04/21/2021 12:41	WG1654920
Chromium	0.00271	B	0.00124	0.00200	1	04/21/2021 12:41	WG1654920
Chromium,Dissolved	U		0.00124	0.00200	1	04/22/2021 10:54	WG1656419
Cobalt	0.000107	J	0.0000596	0.00200	1	04/21/2021 12:41	WG1654920
Cobalt,Dissolved	0.0000955	J	0.0000596	0.00200	1	04/21/2021 10:38	WG1654929
Iron	0.0303	J	0.0281	0.100	1	04/21/2021 12:41	WG1654920
Iron,Dissolved	0.0679	J	0.0281	0.100	1	04/21/2021 10:38	WG1654929
Lead	U		0.000849	0.00200	1	04/21/2021 12:41	WG1654920
Lead,Dissolved	0.00170	J	0.000849	0.00200	1	04/21/2021 10:38	WG1654929
Manganese	0.00420	J	0.000704	0.00500	1	04/21/2021 12:41	WG1654920
Manganese,Dissolved	0.0105		0.000704	0.00500	1	04/21/2021 10:38	WG1654929
Nickel	0.00295		0.000816	0.00200	1	04/21/2021 12:41	WG1654920
Nickel,Dissolved	0.00440	B	0.000816	0.00200	1	04/21/2021 10:38	WG1654929

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Potassium	1.33	B J	0.108	2.00	1	04/21/2021 12:41	WG1654920
Selenium	0.00599		0.000300	0.00200	1	04/21/2021 12:41	WG1654920
Selenium,Dissolved	0.00700		0.000300	0.00200	1	04/21/2021 10:38	WG1654929
Sodium	83.6		0.376	2.00	1	04/21/2021 12:41	WG1654920
Uranium	0.0161	J	0.0000700	0.0200	1	04/21/2021 12:41	WG1654920
Uranium,Dissolved	0.0157	J	0.0000700	0.0200	1	04/21/2021 10:38	WG1654929
Vanadium	0.0200		0.000664	0.00500	1	04/21/2021 12:41	WG1654920
Vanadium,Dissolved	0.0196		0.000664	0.00500	1	04/21/2021 10:38	WG1654929

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/19/2021 00:14	WG1654141
(S) a,a,a-Trifluorotoluene(FID)	*98.9*			*78.0-120*		*04/19/2021 00:14*	WG1654141

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/16/2021 13:36	WG1652593
Benzene	U		0.0000941	0.00100	1	04/16/2021 13:36	WG1652593
Bromodichloromethane	U	J4	0.000136	0.00100	1	04/16/2021 13:36	WG1652593
Bromoform	U		0.000129	0.00100	1	04/16/2021 13:36	WG1652593
Bromomethane	U		0.000605	0.00500	1	04/16/2021 13:36	WG1652593
n-Butylbenzene	U		0.000157	0.00100	1	04/16/2021 13:36	WG1652593
sec-Butylbenzene	U		0.000125	0.00100	1	04/16/2021 13:36	WG1652593
Carbon disulfide	U		0.0000962	0.00100	1	04/16/2021 13:36	WG1652593
Carbon tetrachloride	U		0.000128	0.00100	1	04/16/2021 13:36	WG1652593
Chlorobenzene	U		0.000116	0.00100	1	04/16/2021 13:36	WG1652593
Chlorodibromomethane	U		0.000140	0.00100	1	04/16/2021 13:36	WG1652593
Chloroethane	U		0.000192	0.00500	1	04/16/2021 13:36	WG1652593
Chloroform	U	J4	0.000111	0.00500	1	04/16/2021 13:36	WG1652593
Chloromethane	U		0.000960	0.00250	1	04/16/2021 13:36	WG1652593
1,2-Dibromoethane	U		0.000126	0.00100	1	04/16/2021 13:36	WG1652593
1,1-Dichloroethane	U		0.000100	0.00100	1	04/16/2021 13:36	WG1652593
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/16/2021 13:36	WG1652593
1,1-Dichloroethene	U		0.000188	0.00100	1	04/16/2021 13:36	WG1652593
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/16/2021 13:36	WG1652593
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/16/2021 13:36	WG1652593
1,2-Dichloropropane	U		0.000149	0.00100	1	04/16/2021 13:36	WG1652593
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/16/2021 13:36	WG1652593
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/16/2021 13:36	WG1652593
Ethylbenzene	U		0.000137	0.00100	1	04/16/2021 13:36	WG1652593
Isopropylbenzene	U		0.000105	0.00100	1	04/16/2021 13:36	WG1652593
p-Isopropyltoluene	U		0.000120	0.00100	1	04/16/2021 13:36	WG1652593
2-Butanone (MEK)	U		0.00119	0.0100	1	04/16/2021 13:36	WG1652593
2-Hexanone	U		0.000787	0.0100	1	04/16/2021 13:36	WG1652593
Methylene Chloride	U		0.000430	0.00500	1	04/16/2021 13:36	WG1652593
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/16/2021 13:36	WG1652593
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/16/2021 13:36	WG1652593
Naphthalene	U		0.00100	0.00500	1	04/16/2021 13:36	WG1652593
n-Propylbenzene	U		0.0000993	0.00100	1	04/16/2021 13:36	WG1652593
Styrene	U		0.000118	0.00100	1	04/16/2021 13:36	WG1652593
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/16/2021 13:36	WG1652593
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/16/2021 13:36	WG1652593
Tetrachloroethene	U		0.000300	0.00100	1	04/16/2021 13:36	WG1652593

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Toluene	U		0.000278	0.00100	1	04/16/2021 13:36	WG1652593
1,1,1-Trichloroethane	U	J4	0.000149	0.00100	1	04/16/2021 13:36	WG1652593
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/16/2021 13:36	WG1652593
Trichloroethene	U		0.000190	0.00100	1	04/16/2021 13:36	WG1652593
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/16/2021 13:36	WG1652593
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/16/2021 13:36	WG1652593
Vinyl chloride	U		0.000234	0.00100	1	04/16/2021 13:36	WG1652593
o-Xylene	U		0.000174	0.00100	1	04/16/2021 13:36	WG1652593
m&p-Xylene	U		0.000430	0.00200	1	04/16/2021 13:36	WG1652593
Xylenes, Total	U		0.000174	0.00300	1	04/16/2021 13:36	WG1652593
(S) Toluene-d8	*96.6*			*80.0-120*		*04/16/2021 13:36*	WG1652593
(S) 4-Bromofluorobenzene	*92.3*			*77.0-126*		*04/16/2021 13:36*	WG1652593
(S) 1,2-Dichloroethane-d4	*129*			*70.0-130*		*04/16/2021 13:36*	WG1652593

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0316	J	0.0247	0.100	1	04/18/2021 17:01	WG1653577
(S) o-Terphenyl	*77.4*			*31.0-160*		*04/18/2021 17:01*	WG1653577

Method Blank (MB)

(MB) R3643688-1 04/15/21 12:18

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1337854-28 Original Sample (OS) • Duplicate (DUP)

(OS) L1337854-28 04/15/21 12:18 • (DUP) R3643688-3 04/15/21 12:18

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	874	868	1	0.689		5

L1337854-31 Original Sample (OS) • Duplicate (DUP)

(OS) L1337854-31 04/15/21 12:18 • (DUP) R3643688-4 04/15/21 12:18

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	257	259	1	0.775		5

Laboratory Control Sample (LCS)

(LCS) R3643688-2 04/15/21 12:18

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8730	99.2	77.4-123	

Method Blank (MB)

(MB) R3642579-1 04/16/21 07:40

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Nitrate-Nitrite	U		0.0500	0.100

L1336454-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1336454-01 04/16/21 07:43 • (DUP) R3642579-3 04/16/21 07:44

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate-Nitrite	7.10	7.05	5	0.707		20

L1338397-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1338397-10 04/16/21 08:14 • (DUP) R3642579-6 04/16/21 08:15

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate-Nitrite	7.05	6.65	5	5.84		20

Laboratory Control Sample (LCS)

(LCS) R3642579-2 04/16/21 07:42

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Nitrate-Nitrite	2.50	2.45	98.0	90.0-110	

L1337977-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1337977-01 04/16/21 07:46 • (MS) R3642579-4 04/16/21 07:47 • (MSD) R3642579-5 04/16/21 07:48

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Nitrate-Nitrite	2.50	10.9	13.1	13.4	88.0	100	5	90.0-110	V		2.26	20

L1338397-10 Original Sample (OS) • Matrix Spike (MS)

(OS) L1338397-10 04/16/21 08:14 • (MS) R3642579-7 04/16/21 08:16

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Nitrate-Nitrite	2.50	7.05	9.25	88.0	5	90.0-110	J6

Method Blank (MB)

(MB) R3643746-2 04/19/21 15:45

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Cyanide	0.00186	J	0.00180	0.00500

L1337507-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1337507-04 04/19/21 15:59 • (DUP) R3643746-4 04/19/21 16:00

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	U	U	1	0.000		20

L1338279-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1338279-02 04/19/21 16:19 • (DUP) R3643746-9 04/19/21 16:22

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3643746-3 04/19/21 15:46

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Cyanide	0.100	0.0918	91.8	87.1-120	

L1337507-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1337507-05 04/19/21 16:01 • (MS) R3643746-5 04/19/21 16:02 • (MSD) R3643746-6 04/19/21 16:03

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Cyanide	0.100	U	0.0968	0.0947	96.8	94.7	1	90.0-110			2.19	20

L1337822-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1337822-01 04/19/21 16:10 • (MS) R3643746-7 04/19/21 16:11 • (MSD) R3643746-8 04/19/21 16:12

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Cyanide	0.100	U	0.0954	0.0991	95.4	99.1	1	90.0-110			3.80	20

Method Blank (MB)

(MB) R3644064-2 04/20/21 12:01

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Cyanide	U		0.00180	0.00500

L1335875-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1335875-02 04/20/21 12:13 • (DUP) R3644064-6 04/20/21 12:14

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	U	U	1	0.000		20

L1339896-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1339896-01 04/20/21 12:32 • (DUP) R3644064-9 04/20/21 12:33

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3644064-3 04/20/21 12:02

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Cyanide	0.100	0.0945	94.5	87.1-120	

L1335871-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1335871-02 04/20/21 12:08 • (MS) R3644064-4 04/20/21 12:09 • (MSD) R3644064-5 04/20/21 12:10

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Cyanide	0.100	0.00225	0.0908	0.0978	88.6	95.6	1	90.0-110	J6		7.42	20

L1338595-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1338595-03 04/20/21 12:29 • (MS) R3644064-7 04/20/21 12:30 • (MSD) R3644064-8 04/20/21 12:31

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Cyanide	0.100	0.00221	0.0897	0.100	87.5	97.8	1	90.0-110	J6		10.9	20

Method Blank (MB)

(MB) R3644485-1 04/20/21 13:26

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.379	1.00
Fluoride	U		0.0640	0.150
Sulfate	U		0.594	5.00

L1338397-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1338397-05 04/20/21 21:09 • (DUP) R3644485-3 04/20/21 21:22

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	98.3	98.2	1	0.101		15
Fluoride	0.541	0.542	1	0.111		15
Sulfate	20.6	20.5	1	0.193		15

L1338397-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1338397-09 04/20/21 23:46 • (DUP) R3644485-6 04/20/21 23:59

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	70.2	70.0	1	0.235		15
Fluoride	0.219	0.218	1	0.411		15
Sulfate	3.27	3.30	1	0.721	J	15

Laboratory Control Sample (LCS)

(LCS) R3644485-2 04/20/21 13:39

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	39.1	97.7	80.0-120	
Fluoride	8.00	8.05	101	80.0-120	
Sulfate	40.0	39.5	98.7	80.0-120	

L1338397-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1338397-05 04/20/21 21:09 • (MS) R3644485-4 04/20/21 21:35 • (MSD) R3644485-5 04/20/21 21:48

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50.0	98.3	144	144	92.1	91.6	1	80.0-120	E	E	0.186	15
Fluoride	5.00	0.541	5.71	5.68	103	103	1	80.0-120			0.488	15
Sulfate	50.0	20.6	71.6	71.5	102	102	1	80.0-120			0.149	15

L1338397-09 Original Sample (OS) • Matrix Spike (MS)

(OS) L1338397-09 04/20/21 23:46 • (MS) R3644485-7 04/21/21 00:12

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	70.2	118	96.2	1	80.0-120	E
Fluoride	5.00	0.219	5.58	107	1	80.0-120	
Sulfate	50.0	3.27	54.8	103	1	80.0-120	

Method Blank (MB)

(MB) R3642727-1 04/16/21 09:42

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury,Dissolved	U		0.000100	0.000200

Laboratory Control Sample (LCS)

(LCS) R3642727-2 04/16/21 09:44

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury,Dissolved	0.00300	0.00337	112	80.0-120	

L1338293-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1338293-03 04/16/21 09:46 • (MS) R3642727-3 04/16/21 09:52 • (MSD) R3642727-4 04/16/21 09:54

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury,Dissolved	0.00300	U	0.00388	0.00396	129	132	1	75.0-125	J5	J5	1.92	20

Method Blank (MB)

(MB) R3642815-1 04/16/21 12:03

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury	U		0.000100	0.000200

Laboratory Control Sample (LCS)

(LCS) R3642815-2 04/16/21 12:05

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.00300	0.00361	120	80.0-120	

L1338851-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1338851-05 04/16/21 12:07 • (MS) R3642815-3 04/16/21 12:35 • (MSD) R3642815-4 04/16/21 12:41

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.00300	0.000451	0.00403	0.00390	119	115	1	75.0-125			3.43	20

Method Blank (MB)

(MB) R3644418-1 04/21/21 04:29

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Boron,Dissolved	U		0.0200	0.200

Laboratory Control Sample (LCS)

(LCS) R3644418-2 04/21/21 04:32

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron,Dissolved	1.00	1.01	101	80.0-120	

L1338293-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1338293-03 04/21/21 04:35 • (MS) R3644418-4 04/21/21 04:41 • (MSD) R3644418-5 04/21/21 04:44

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Boron,Dissolved	1.00	1.37	2.41	2.37	104	99.2	1	75.0-125			1.99	20

Method Blank (MB)

(MB) R3645476-1 04/22/21 23:10

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Boron	U		0.0200	0.200

Laboratory Control Sample (LCS)

(LCS) R3645476-2 04/22/21 23:12

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron	1.00	0.944	94.4	80.0-120	

L1338279-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1338279-03 04/22/21 23:15 • (MS) R3645476-4 04/22/21 23:21 • (MSD) R3645476-5 04/22/21 23:24

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Boron	1.00	0.741	1.67	1.66	93.3	92.3	1	75.0-125			0.543	20

Method Blank (MB)

(MB) R3645440-1 04/22/21 12:03

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Boron	U		0.0200	0.200

Laboratory Control Sample (LCS)

(LCS) R3645440-2 04/22/21 12:05

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron	1.00	0.924	92.4	80.0-120	

L1338494-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1338494-05 04/22/21 12:08 • (MS) R3645440-4 04/22/21 12:13 • (MSD) R3645440-5 04/22/21 12:15

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Boron	1.00	U	0.923	0.956	92.3	95.6	1	75.0-125			3.54	20

Method Blank (MB)

(MB) R3644554-1 04/21/21 11:26

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic	U		0.000180	0.00200
Barium	U		0.000381	0.0200
Cadmium	U		0.000150	0.00100
Calcium	U		0.0936	1.00
Chromium	0.00126	J	0.00124	0.00200
Cobalt	U		0.0000596	0.00200
Iron	U		0.0281	0.100
Lead	U		0.000849	0.00200
Manganese	U		0.000704	0.00500
Nickel	U		0.000816	0.00200
Potassium	0.144	J	0.108	2.00
Selenium	U		0.000300	0.00200
Sodium	U		0.376	2.00
Uranium	U		0.0000700	0.0200
Vanadium	U		0.000664	0.00500

Laboratory Control Sample (LCS)

(LCS) R3644554-2 04/21/21 11:29

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	0.0500	0.0509	102	80.0-120	
Barium	0.0500	0.0526	105	80.0-120	
Cadmium	0.0500	0.0513	103	80.0-120	
Calcium	5.00	5.09	102	80.0-120	
Chromium	0.0500	0.0531	106	80.0-120	
Cobalt	0.0500	0.0524	105	80.0-120	
Iron	5.00	5.16	103	80.0-120	
Lead	0.0500	0.0496	99.3	80.0-120	
Manganese	0.0500	0.0534	107	80.0-120	
Nickel	0.0500	0.0523	105	80.0-120	
Potassium	5.00	5.13	103	80.0-120	
Selenium	0.0500	0.0507	101	80.0-120	
Sodium	5.00	5.19	104	80.0-120	
Uranium	0.0500	0.0484	96.8	80.0-120	
Vanadium	0.0500	0.0512	102	80.0-120	

L1337854-36 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1337854-36 04/21/21 11:32 • (MS) R3644554-4 04/21/21 11:39 • (MSD) R3644554-5 04/21/21 11:42

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	0.0500	0.0200	0.0497	0.0502	99.5	100	1	75.0-125			0.948	20

Method Blank (MB)

(MB) R3644819-12 04/21/21 19:25

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic,Dissolved	U		0.000180	0.00200
Barium,Dissolved	U		0.000381	0.0200
Cadmium,Dissolved	U		0.000150	0.00100
Cobalt,Dissolved	U		0.0000596	0.00200
Iron,Dissolved	U		0.0281	0.100
Lead,Dissolved	U		0.000849	0.00200
Manganese,Dissolved	U		0.000704	0.00500
Nickel,Dissolved	0.00192	J	0.000816	0.00200
Selenium,Dissolved	U		0.000300	0.00200
Uranium,Dissolved	U		0.0000700	0.0200
Vanadium,Dissolved	U		0.000664	0.00500

Laboratory Control Sample (LCS)

(LCS) R3644819-13 04/21/21 19:28

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic,Dissolved	0.0500	0.0468	93.6	80.0-120	
Barium,Dissolved	0.0500	0.0483	96.7	80.0-120	
Cadmium,Dissolved	0.0500	0.0507	101	80.0-120	
Cobalt,Dissolved	0.0500	0.0486	97.3	80.0-120	
Iron,Dissolved	5.00	4.96	99.2	80.0-120	
Lead,Dissolved	0.0500	0.0463	92.6	80.0-120	
Manganese,Dissolved	0.0500	0.0490	97.9	80.0-120	
Nickel,Dissolved	0.0500	0.0526	105	80.0-120	
Selenium,Dissolved	0.0500	0.0484	96.7	80.0-120	
Uranium,Dissolved	0.0500	0.0440	88.0	80.0-120	
Vanadium,Dissolved	0.0500	0.0487	97.3	80.0-120	

L1338583-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1338583-04 04/21/21 19:32 • (MS) R3644819-15 04/21/21 19:39 • (MSD) R3644819-16 04/21/21 19:42

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic,Dissolved	0.0500	0.000256	0.0477	0.0472	94.9	94.0	1	75.0-125			1.01	20
Barium,Dissolved	0.0500	0.0106	0.0604	0.0616	99.5	102	1	75.0-125			1.95	20
Cadmium,Dissolved	0.0500	U	0.0501	0.0503	100	101	1	75.0-125			0.377	20
Cobalt,Dissolved	0.0500	0.000717	0.0489	0.0492	96.5	97.0	1	75.0-125			0.532	20
Iron,Dissolved	5.00	0.0603	4.83	4.93	95.5	97.3	1	75.0-125			1.92	20

L1338583-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1338583-04 04/21/21 19:32 • (MS) R3644819-15 04/21/21 19:39 • (MSD) R3644819-16 04/21/21 19:42

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Lead,Dissolved	0.0500	U	0.0464	0.0488	92.8	97.5	1	75.0-125			4.94	20
Manganese,Dissolved	0.0500	0.799	0.821	0.828	43.7	58.1	1	75.0-125	V	V	0.875	20
Nickel,Dissolved	0.0500	0.00289	0.0515	0.0490	97.3	92.2	1	75.0-125			5.10	20
Selenium,Dissolved	0.0500	U	0.0489	0.0491	97.9	98.3	1	75.0-125			0.412	20
Uranium,Dissolved	0.0500	0.000710	0.0473	0.0491	93.2	96.9	1	75.0-125			3.77	20
Vanadium,Dissolved	0.0500	U	0.0479	0.0488	95.7	97.5	1	75.0-125			1.89	20

Method Blank (MB)

(MB) R3645107-1 04/22/21 10:13

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chromium,Dissolved	0.00158	J	0.00124	0.00200

Laboratory Control Sample (LCS)

(LCS) R3645107-2 04/22/21 10:17

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chromium,Dissolved	0.0500	0.0526	105	80.0-120	

L1338583-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1338583-04 04/22/21 10:20 • (MS) R3645107-4 04/22/21 10:26 • (MSD) R3645107-5 04/22/21 10:30

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chromium,Dissolved	0.0500	0.00236	0.0509	0.0503	97.0	95.9	1	75.0-125			1.10	20

Method Blank (MB)

(MB) R3647041-1 04/27/21 10:19

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic,Dissolved	U		0.000180	0.00200
Barium,Dissolved	0.000626	J	0.000381	0.0200
Cadmium,Dissolved	U		0.000150	0.00100
Cobalt,Dissolved	U		0.0000596	0.00200
Iron,Dissolved	U		0.0281	0.100
Lead,Dissolved	0.00116	J	0.000849	0.00200
Manganese,Dissolved	U		0.000704	0.00500
Nickel,Dissolved	U		0.000816	0.00200
Selenium,Dissolved	U		0.000300	0.00200
Uranium,Dissolved	U		0.0000700	0.0200
Vanadium,Dissolved	U		0.000664	0.00500

Laboratory Control Sample (LCS)

(LCS) R3647041-2 04/27/21 10:22

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic,Dissolved	0.0500	0.0489	97.9	80.0-120	
Barium,Dissolved	0.0500	0.0486	97.2	80.0-120	
Cadmium,Dissolved	0.0500	0.0526	105	80.0-120	
Cobalt,Dissolved	0.0500	0.0517	103	80.0-120	
Iron,Dissolved	5.00	5.08	102	80.0-120	
Lead,Dissolved	0.0500	0.0497	99.3	80.0-120	
Manganese,Dissolved	0.0500	0.0505	101	80.0-120	
Nickel,Dissolved	0.0500	0.0511	102	80.0-120	
Selenium,Dissolved	0.0500	0.0512	102	80.0-120	
Uranium,Dissolved	0.0500	0.0504	101	80.0-120	
Vanadium,Dissolved	0.0500	0.0494	98.7	80.0-120	

L1340101-18 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1340101-18 04/27/21 10:26 • (MS) R3647041-4 04/27/21 10:32 • (MSD) R3647041-5 04/27/21 10:36

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic,Dissolved	0.0500	0.00634	0.0562	0.0558	99.8	98.8	1	75.0-125			0.885	20
Barium,Dissolved	0.0500	0.106	0.154	0.151	96.8	90.5	1	75.0-125			2.06	20
Cadmium,Dissolved	0.0500	U	0.0513	0.0525	103	105	1	75.0-125			2.24	20
Cobalt,Dissolved	0.0500	0.000115	0.0522	0.0509	104	102	1	75.0-125			2.60	20
Iron,Dissolved	5.00	U	5.22	5.03	104	101	1	75.0-125			3.71	20

L1340101-18 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1340101-18 04/27/21 10:26 • (MS) R3647041-4 04/27/21 10:32 • (MSD) R3647041-5 04/27/21 10:36

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Lead,Dissolved	0.0500	0.00354	0.0532	0.0535	99.3	100	1	75.0-125			0.696	20
Manganese,Dissolved	0.0500	0.000746	0.0522	0.0497	103	97.9	1	75.0-125			4.94	20
Nickel,Dissolved	0.0500	0.00231	0.0551	0.0529	106	101	1	75.0-125			4.12	20
Selenium,Dissolved	0.0500	0.00462	0.0545	0.0541	99.9	99.0	1	75.0-125			0.831	20
Uranium,Dissolved	0.0500	0.00161	0.0525	0.0526	102	102	1	75.0-125			0.321	20
Vanadium,Dissolved	0.0500	0.0302	0.0827	0.0814	105	102	1	75.0-125			1.49	20

Method Blank (MB)

(MB) R3644264-2 04/18/21 22:48

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*98.8*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R3644264-1 04/18/21 21:52

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.42	98.5	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*107*	*78.0-120*	

Method Blank (MB)

(MB) R3642680-4 04/16/21 08:41

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0113	0.0500
Benzene	U		0.0000941	0.00100
Bromodichloromethane	U		0.000136	0.00100
Bromoform	U		0.000129	0.00100
Bromomethane	U		0.000605	0.00500
n-Butylbenzene	U		0.000157	0.00100
sec-Butylbenzene	U		0.000125	0.00100
Carbon disulfide	U		0.0000962	0.00100
Carbon tetrachloride	U		0.000128	0.00100
Chlorobenzene	U		0.000116	0.00100
Chlorodibromomethane	U		0.000140	0.00100
Chloroethane	U		0.000192	0.00500
Chloroform	U		0.000111	0.00500
Chloromethane	U		0.000960	0.00250
1,2-Dibromoethane	U		0.000126	0.00100
1,1-Dichloroethane	U		0.000100	0.00100
1,2-Dichloroethane	U		0.0000819	0.00100
1,1-Dichloroethene	U		0.000188	0.00100
cis-1,2-Dichloroethene	U		0.000126	0.00100
trans-1,2-Dichloroethene	U		0.000149	0.00100
1,2-Dichloropropane	U		0.000149	0.00100
cis-1,3-Dichloropropene	U		0.000111	0.00100
trans-1,3-Dichloropropene	U		0.000118	0.00100
Ethylbenzene	U		0.000137	0.00100
2-Hexanone	U		0.000787	0.0100
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
Methylene Chloride	U		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100
Methyl tert-butyl ether	U		0.000101	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.0000993	0.00100
Styrene	U		0.000118	0.00100
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100
Tetrachloroethene	U		0.000300	0.00100
Toluene	U		0.000278	0.00100
1,1,1-Trichloroethane	U		0.000149	0.00100
1,1,2-Trichloroethane	U		0.000158	0.00100

Method Blank (MB)

(MB) R3642680-4 04/16/21 08:41

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Trichloroethene	U		0.000190	0.00100
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
Vinyl chloride	U		0.000234	0.00100
Xylenes, Total	U		0.000174	0.00300
o-Xylene	U		0.000174	0.00100
m&p-Xylenes	U		0.000430	0.00200
(S) Toluene-d8	*98.8*			*80.0-120*
(S) 4-Bromofluorobenzene	*93.1*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*123*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3642680-1 04/16/21 07:20 • (LCSD) R3642680-2 04/16/21 07:40

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.0250	0.0221	0.0219	88.4	87.6	19.0-160			0.909	27
Benzene	0.00500	0.00540	0.00535	108	107	70.0-123			0.930	20
Bromodichloromethane	0.00500	0.00616	0.00605	123	121	75.0-120	J4	J4	1.80	20
Bromoform	0.00500	0.00530	0.00504	106	101	68.0-132			5.03	20
Bromomethane	0.00500	0.00613	0.00641	123	128	10.0-160			4.47	25
n-Butylbenzene	0.00500	0.00547	0.00562	109	112	73.0-125			2.71	20
sec-Butylbenzene	0.00500	0.00456	0.00445	91.2	89.0	75.0-125			2.44	20
Carbon disulfide	0.00500	0.00525	0.00532	105	106	61.0-128			1.32	20
Carbon tetrachloride	0.00500	0.00580	0.00598	116	120	68.0-126			3.06	20
Chlorobenzene	0.00500	0.00520	0.00514	104	103	80.0-121			1.16	20
Chlorodibromomethane	0.00500	0.00582	0.00525	116	105	77.0-125			10.3	20
Chloroethane	0.00500	0.00658	0.00669	132	134	47.0-150			1.66	20
Chloroform	0.00500	0.00612	0.00607	122	121	73.0-120	J4	J4	0.820	20
Chloromethane	0.00500	0.00507	0.00502	101	100	41.0-142			0.991	20
1,2-Dibromoethane	0.00500	0.00552	0.00538	110	108	80.0-122			2.57	20
1,1-Dichloroethane	0.00500	0.00598	0.00599	120	120	70.0-126			0.167	20
1,2-Dichloroethane	0.00500	0.00621	0.00599	124	120	70.0-128			3.61	20
1,1-Dichloroethene	0.00500	0.00551	0.00547	110	109	71.0-124			0.729	20
cis-1,2-Dichloroethene	0.00500	0.00523	0.00529	105	106	73.0-120			1.14	20
trans-1,2-Dichloroethene	0.00500	0.00571	0.00573	114	115	73.0-120			0.350	20
1,2-Dichloropropane	0.00500	0.00559	0.00539	112	108	77.0-125			3.64	20
cis-1,3-Dichloropropene	0.00500	0.00562	0.00537	112	107	80.0-123			4.55	20
trans-1,3-Dichloropropene	0.00500	0.00552	0.00513	110	103	78.0-124			7.32	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3642680-1 04/16/21 07:20 • (LCSD) R3642680-2 04/16/21 07:40

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethylbenzene	0.00500	0.00537	0.00533	107	107	79.0-123			0.748	20
2-Hexanone	0.0250	0.0242	0.0221	96.8	88.4	67.0-149			9.07	20
Isopropylbenzene	0.00500	0.00554	0.00561	111	112	76.0-127			1.26	20
p-Isopropyltoluene	0.00500	0.00469	0.00473	93.8	94.6	76.0-125			0.849	20
2-Butanone (MEK)	0.0250	0.0241	0.0225	96.4	90.0	44.0-160			6.87	20
Methylene Chloride	0.00500	0.00562	0.00557	112	111	67.0-120			0.894	20
4-Methyl-2-pentanone (MIBK)	0.0250	0.0248	0.0229	99.2	91.6	68.0-142			7.97	20
Methyl tert-butyl ether	0.00500	0.00599	0.00560	120	112	68.0-125			6.73	20
Naphthalene	0.00500	0.00451	0.00423	90.2	84.6	54.0-135			6.41	20
n-Propylbenzene	0.00500	0.00439	0.00421	87.8	84.2	77.0-124			4.19	20
Styrene	0.00500	0.00524	0.00517	105	103	73.0-130			1.34	20
1,1,1,2-Tetrachloroethane	0.00500	0.00567	0.00528	113	106	75.0-125			7.12	20
1,1,2,2-Tetrachloroethane	0.00500	0.00438	0.00380	87.6	76.0	65.0-130			14.2	20
Tetrachloroethene	0.00500	0.00550	0.00554	110	111	72.0-132			0.725	20
Toluene	0.00500	0.00493	0.00491	98.6	98.2	79.0-120			0.406	20
1,1,1-Trichloroethane	0.00500	0.00635	0.00626	127	125	73.0-124	J4	J4	1.43	20
1,1,2-Trichloroethane	0.00500	0.00538	0.00515	108	103	80.0-120			4.37	20
Trichloroethene	0.00500	0.00587	0.00593	117	119	78.0-124			1.02	20
1,2,4-Trimethylbenzene	0.00500	0.00437	0.00420	87.4	84.0	76.0-121			3.97	20
1,3,5-Trimethylbenzene	0.00500	0.00452	0.00437	90.4	87.4	76.0-122			3.37	20
Vinyl chloride	0.00500	0.00502	0.00512	100	102	67.0-131			1.97	20
Xylenes, Total	0.0150	0.0159	0.0160	106	107	79.0-123			0.627	20
o-Xylene	0.00500	0.00519	0.00515	104	103	80.0-122			0.774	20
m&p-Xylenes	0.0100	0.0107	0.0109	107	109	80.0-122			1.85	20
(S) Toluene-d8				*97.3*	*96.7*	*80.0-120*				
(S) 4-Bromofluorobenzene				*94.8*	*97.8*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*122*	*122*	*70.0-130*				

Method Blank (MB)

(MB) R3643246-3 04/16/21 19:44

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
cis-1,2-Dichloroethene	U		0.000126	0.00100
Trichloroethene	U		0.000190	0.00100
(S) Toluene-d8	*109*			*80.0-120*
(S) 4-Bromofluorobenzene	*104*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*100*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3643246-1 04/16/21 18:44 • (LCSD) R3643246-2 04/16/21 19:04

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
cis-1,2-Dichloroethene	0.00500	0.00465	0.00473	93.0	94.6	73.0-120			1.71	20
Trichloroethene	0.00500	0.00492	0.00500	98.4	100	78.0-124			1.61	20
(S) Toluene-d8				*102*	*102*	*80.0-120*				
(S) 4-Bromofluorobenzene				*103*	*100*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*105*	*104*	*70.0-130*				

Method Blank (MB)

(MB) R3643460-1 04/18/21 13:40

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) High Fraction	U		0.0247	0.100
(S) o-Terphenyl	*79.0*			*31.0-160*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3643460-2 04/18/21 14:00 • (LCSD) R3643460-3 04/18/21 14:20

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) High Fraction	1.50	1.59	1.64	106	109	50.0-150			3.10	20
(S) o-Terphenyl				*113*	*106*	*31.0-160*				

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
V	The sample concentration is too high to evaluate accurate spike recoveries.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com; dholbert@trccompanies.com**

Project Description: **REST Spring 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **330538.0000.0000**

Lab Project # **TRCATX-REST**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **REST (Navajo - Artesia)**

P.O. #

Collected by (signature):
Immediately Packed on Ice N ____ Y ____

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page 8 of 14 SU 1 1

Pace Analytical® National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L # L1330279

B140

Acctnum: **TRCATX**
Template: **T121997**
Prelogin: **P835518**
TSR: **526**
PB: **CS 3/22/21**
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions,NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Remarks	Sample # (lab only)
MW-128	Grab	GW				10	X	X	X	X	X	X						
MW-125	Grab	GW				10	X	X	X	X	X	X						
MW-116	Grab	GW				10	X	X	X	X	X	X						
UG-3R	Grab	GW		4/12/21	1755	11	X	X	X		X	X	X	X				-01
UG-4	Grab	GW		4/12/21	1700	11	X	X	X		X	X	X	X				-02
UG-1	Grab	GW		4/12/21	1610	11	X	X	X		X	X	X	X				-03
UG-2	Grab	GW		4/12/21	1525	11	X	X	X		X	X	X	X				-04
MW-101	Grab	GW				10	X	X	X	X	X	X						
MW-105	Grab	GW				10	X	X	X	X	X	X						
RW-2	Grab	GW				12	X	X	X	X	X	X			X			

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:
Dissolved metals field-filtered.

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking # 1480 1059 7100

Sample Receipt Checklist
COC Seal Present/Intact: __NP ✓Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: ✓Y __N
Preservation Correct/Checked: ✓Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Scott Ude	4/13/21	0900		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 1.9, 2.2, 2.1 °C Bottles Received: 44
Relinquished by : (Signature)		Time:	Received for lab by: (Signature)	Date: 4/14/21 Time: 9:45

If preservation required by Login: Date/Time

Hold: Condition: NCF / OK

ANALYTICAL REPORT

May 04, 2021

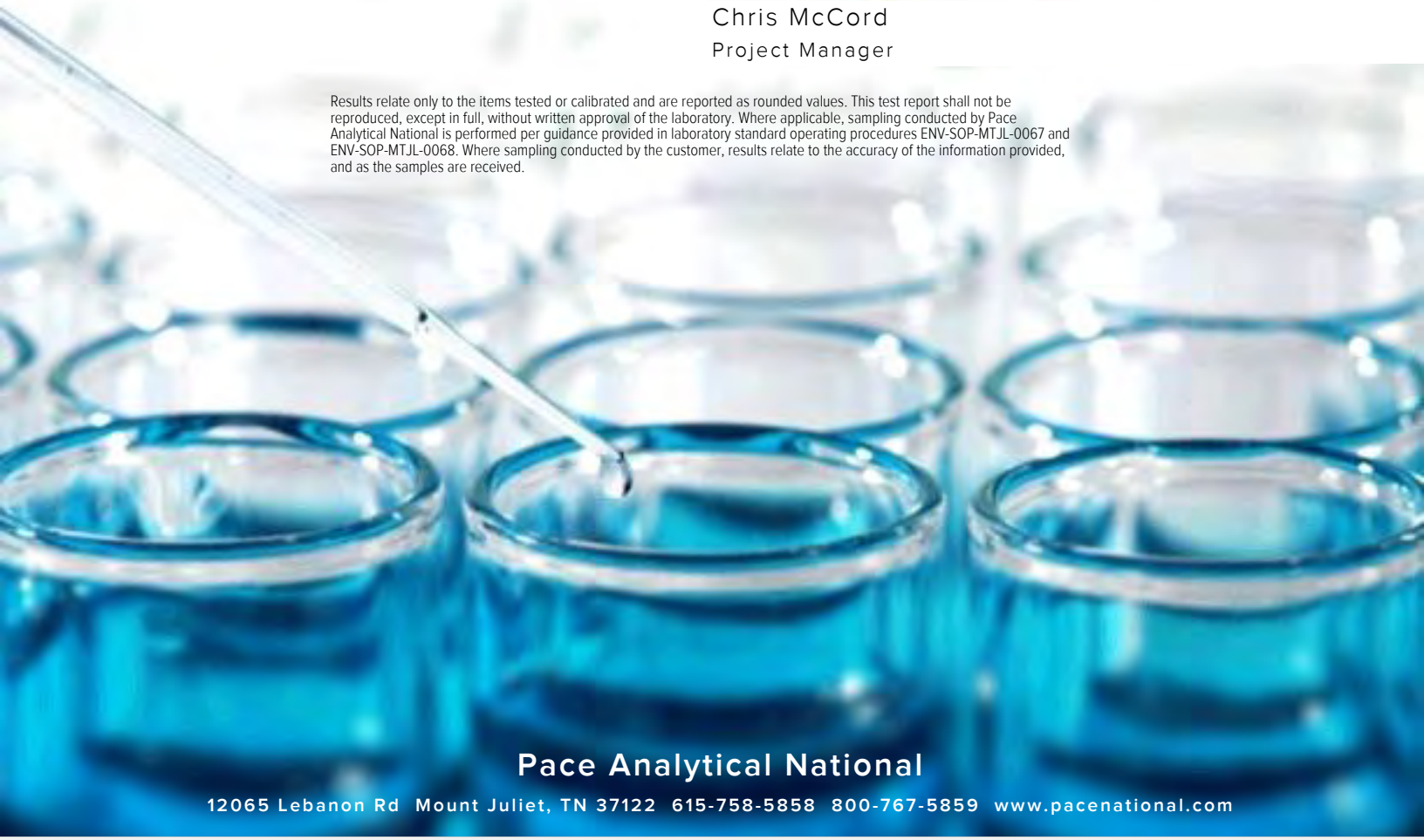
TRC Solutions - Austin, TX

Sample Delivery Group:	L1339352
Samples Received:	04/15/2021
Project Number:	425135.0000.0000
Description:	EP Spring 2021
Site:	EP NAVAJO-ARTESIA
Report To:	Julie Speer
	505 E. Huntland Dr, Ste 250
	Austin, TX 78752

Entire Report Reviewed By:

Chris McCord
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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MW-6A L1339352-01 GW

Collected by: SU / HMI Team
Collected date/time: 04/13/21 09:10
Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1653096	1	04/16/21 11:18	04/16/21 18:49	VRP	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1653584	1	04/17/21 06:04	04/17/21 06:04	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1655391	1	04/21/21 14:05	04/21/21 14:05	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1655391	100	04/21/21 14:37	04/21/21 14:37	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1654934	1	04/21/21 10:39	04/21/21 22:54	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1654934	1	04/21/21 10:39	04/22/21 00:33	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656370	1	04/21/21 22:26	04/22/21 10:34	TM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1654300	1	04/20/21 10:23	04/20/21 10:23	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653529	5	04/17/21 05:52	04/17/21 05:52	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1655289	10	04/20/21 23:49	04/22/21 05:29	DMG	Mt. Juliet, TN

MW-6B L1339352-02 GW

Collected by: SU / HMI Team
Collected date/time: 04/13/21 09:55
Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1653096	1	04/16/21 11:18	04/16/21 18:49	VRP	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1653584	1	04/17/21 06:06	04/17/21 06:06	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1655391	1	04/21/21 15:10	04/21/21 15:10	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1655391	100	04/21/21 15:59	04/21/21 15:59	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1654934	1	04/21/21 10:39	04/21/21 22:58	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1654934	1	04/21/21 10:39	04/22/21 00:36	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656370	1	04/21/21 22:26	04/22/21 10:37	TM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1654300	1	04/20/21 10:45	04/20/21 10:45	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653529	1	04/17/21 00:44	04/17/21 00:44	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1655289	1	04/20/21 23:49	04/21/21 14:22	DMG	Mt. Juliet, TN

MW-122 L1339352-03 GW

Collected by: SU / HMI Team
Collected date/time: 04/13/21 16:30
Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1653096	1	04/16/21 11:18	04/16/21 18:49	VRP	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1661579	1	05/03/21 13:29	05/03/21 13:29	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1655391	1	04/21/21 16:49	04/21/21 16:49	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1655391	100	04/21/21 17:05	04/21/21 17:05	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1654934	1	04/21/21 10:39	04/21/21 23:01	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1654934	1	04/21/21 10:39	04/22/21 00:39	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656370	1	04/21/21 22:26	04/22/21 10:41	TM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1657002	1	04/23/21 11:31	04/23/21 11:31	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653529	1	04/17/21 01:05	04/17/21 01:05	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1655289	1	04/20/21 23:49	04/21/21 17:24	DMG	Mt. Juliet, TN

MW-74 L1339352-04 GW

Collected by: SU / HMI Team
Collected date/time: 04/13/21 10:40
Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1653096	1	04/16/21 11:18	04/16/21 18:49	VRP	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1661579	5	05/03/21 13:31	05/03/21 13:31	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1655391	1	04/21/21 17:21	04/21/21 17:21	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1655391	100	04/21/21 17:38	04/21/21 17:38	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1654934	1	04/21/21 10:39	04/21/21 23:05	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1654934	1	04/21/21 10:39	04/22/21 00:43	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656370	1	04/21/21 22:26	04/22/21 10:44	TM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656370	5	04/21/21 22:26	04/22/21 12:24	TM	Mt. Juliet, TN

MW-74 L1339352-04 GW

Collected by: SU / HMI Team
Collected date/time: 04/13/21 10:40
Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1654300	1	04/20/21 11:07	04/20/21 11:07	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653529	1	04/17/21 01:25	04/17/21 01:25	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1655289	5	04/20/21 23:49	04/22/21 10:25	DMG	Mt. Juliet, TN

MW-73 L1339352-05 GW

Collected by: SU / HMI Team
Collected date/time: 04/13/21 11:30
Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1653093	1	04/16/21 11:16	04/16/21 16:30	CAT	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1661579	1	05/03/21 13:32	05/03/21 13:32	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1655391	1	04/21/21 17:54	04/21/21 17:54	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1655391	100	04/21/21 18:11	04/21/21 18:11	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1654934	1	04/21/21 10:39	04/21/21 23:08	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1654934	1	04/21/21 10:39	04/22/21 00:46	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656370	1	04/21/21 22:26	04/22/21 10:55	TM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656370	5	04/21/21 22:26	04/22/21 12:27	TM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1654300	1	04/20/21 11:28	04/20/21 11:28	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653529	1	04/17/21 01:46	04/17/21 01:46	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1655289	1	04/20/21 23:49	04/21/21 18:15	DMG	Mt. Juliet, TN

MW-2A L1339352-06 GW

Collected by: SU / HMI Team
Collected date/time: 04/13/21 15:30
Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1653093	1	04/16/21 11:16	04/16/21 16:30	CAT	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1661579	1	05/03/21 13:35	05/03/21 13:35	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1655391	100	04/21/21 18:43	04/21/21 18:43	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1655391	5	04/21/21 18:27	04/21/21 18:27	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1654935	1	04/25/21 23:20	04/26/21 08:46	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656370	1	04/21/21 22:26	04/22/21 10:58	TM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656370	5	04/21/21 22:26	04/22/21 12:31	TM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1654300	1	04/20/21 11:50	04/20/21 11:50	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653529	1	04/17/21 02:06	04/17/21 02:06	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1655289	1	04/20/21 23:49	04/23/21 12:11	WCR	Mt. Juliet, TN

MW-72 L1339352-07 GW

Collected by: SU / HMI Team
Collected date/time: 04/13/21 14:45
Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1653096	1	04/16/21 11:18	04/16/21 18:49	VRP	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1661579	5	05/03/21 13:36	05/03/21 13:36	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1655391	1	04/21/21 19:00	04/21/21 19:00	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1655391	100	04/21/21 19:16	04/21/21 19:16	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1654935	1	04/25/21 23:20	04/26/21 08:59	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656370	1	04/21/21 22:26	04/22/21 11:01	TM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656370	5	04/21/21 22:26	04/22/21 12:34	TM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1654300	1	04/20/21 12:11	04/20/21 12:11	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653529	1	04/17/21 02:27	04/17/21 02:27	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1655289	1	04/20/21 23:49	04/22/21 09:28	DMG	Mt. Juliet, TN

OCD-6 L1339352-08 GW

Collected by: SU / HMI Team
Collected date/time: 04/13/21 14:00
Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1653107	1	04/16/21 11:27	04/16/21 17:10	CAT	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1661579	5	05/03/21 13:41	05/03/21 13:41	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1655391	1	04/21/21 20:05	04/21/21 20:05	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1655391	100	04/21/21 20:22	04/21/21 20:22	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1654935	1	04/25/21 23:20	04/26/21 09:03	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656370	1	04/21/21 22:26	04/22/21 11:05	TM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656370	5	04/21/21 22:26	04/22/21 12:38	TM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1654300	1	04/20/21 12:33	04/20/21 12:33	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653529	1	04/17/21 02:47	04/17/21 02:47	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1655289	1	04/20/21 23:49	04/21/21 19:31	DMG	Mt. Juliet, TN

OCD-7AR L1339352-09 GW

Collected by: SU / HMI Team
Collected date/time: 04/13/21 12:20
Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1653093	1	04/16/21 11:16	04/16/21 16:30	CAT	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1661579	1	05/03/21 14:08	05/03/21 14:08	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1655391	1	04/21/21 20:38	04/21/21 20:38	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1655391	100	04/21/21 20:55	04/21/21 20:55	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1654935	1	04/25/21 23:20	04/26/21 09:06	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656780	1	04/22/21 12:40	04/22/21 19:06	TM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656780	5	04/22/21 12:40	04/22/21 19:23	TM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1654300	1	04/20/21 12:55	04/20/21 12:55	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653529	1	04/17/21 03:07	04/17/21 03:07	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1655289	1	04/20/21 23:49	04/21/21 19:57	DMG	Mt. Juliet, TN

OCD-7B L1339352-10 GW

Collected by: SU / HMI Team
Collected date/time: 04/13/21 13:10
Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1653093	1	04/16/21 11:16	04/16/21 16:30	CAT	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1661579	1	05/03/21 13:44	05/03/21 13:44	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1655391	1	04/21/21 21:11	04/21/21 21:11	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1655391	100	04/21/21 21:27	04/21/21 21:27	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1654935	1	04/25/21 23:20	04/26/21 09:09	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656780	1	04/22/21 12:40	04/22/21 20:13	TM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1654300	1	04/20/21 13:56	04/20/21 13:56	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653529	1	04/17/21 03:28	04/17/21 03:28	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1655289	1	04/20/21 23:49	04/22/21 08:58	DMG	Mt. Juliet, TN

MW-88 L1339352-11 GW

Collected by: SU / HMI Team
Collected date/time: 04/13/21 16:10
Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1653093	1	04/16/21 11:16	04/16/21 16:30	CAT	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1661715	1	05/03/21 15:52	05/03/21 15:52	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1655391	1	04/21/21 21:44	04/21/21 21:44	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1655391	100	04/21/21 22:00	04/21/21 22:00	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1654935	1	04/25/21 23:20	04/26/21 09:20	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656780	1	04/22/21 12:40	04/22/21 20:17	TM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656780	5	04/22/21 12:40	04/22/21 20:49	TM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1654300	1	04/20/21 14:17	04/20/21 14:17	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653529	1	04/17/21 03:49	04/17/21 03:49	DWR	Mt. Juliet, TN

MW-88 L1339352-11 GW

Collected by: SU / HMI Team | Collected date/time: 04/13/21 16:10 | Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1655289	1	04/20/21 23:49	04/21/21 20:48	DMG	Mt. Juliet, TN

MW-10 L1339352-12 GW

Collected by: SU / HMI Team | Collected date/time: 04/13/21 17:20 | Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1653093	1	04/16/21 11:16	04/16/21 16:30	CAT	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1661715	1	05/03/21 15:54	05/03/21 15:54	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1655391	1	04/21/21 22:17	04/21/21 22:17	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1655391	100	04/21/21 22:33	04/21/21 22:33	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1654935	1	04/25/21 23:20	04/26/21 09:24	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656780	1	04/22/21 12:40	04/22/21 20:21	TM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1654300	1	04/20/21 14:39	04/20/21 14:39	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653529	1	04/17/21 04:10	04/17/21 04:10	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1655289	1	04/20/21 23:49	04/21/21 21:14	DMG	Mt. Juliet, TN

MW-4A L1339352-13 GW

Collected by: SU / HMI Team | Collected date/time: 04/13/21 14:55 | Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1653093	1	04/16/21 11:16	04/16/21 16:30	CAT	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1661715	1	05/03/21 15:58	05/03/21 15:58	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1655391	1	04/21/21 23:22	04/21/21 23:22	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1655391	100	04/21/21 23:55	04/21/21 23:55	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1654935	1	04/25/21 23:20	04/26/21 09:27	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656780	1	04/22/21 12:40	04/22/21 20:24	TM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1654300	1	04/20/21 15:00	04/20/21 15:00	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653529	1	04/17/21 04:30	04/17/21 04:30	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1655289	2	04/20/21 23:49	04/22/21 11:16	DMG	Mt. Juliet, TN

MW-4B L1339352-14 GW

Collected by: SU / HMI Team | Collected date/time: 04/13/21 15:40 | Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1653093	1	04/16/21 11:16	04/16/21 16:30	CAT	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1661715	1	05/03/21 15:59	05/03/21 15:59	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1655391	1	04/22/21 00:28	04/22/21 00:28	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1655391	100	04/22/21 00:44	04/22/21 00:44	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1654935	1	04/25/21 23:20	04/26/21 09:30	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1654935	2	04/25/21 23:20	04/26/21 10:41	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656780	1	04/22/21 12:40	04/22/21 20:30	TM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1654300	1	04/20/21 15:22	04/20/21 15:22	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653529	1	04/17/21 04:51	04/17/21 04:51	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1655289	1	04/20/21 23:49	04/22/21 09:59	CLG	Mt. Juliet, TN

MW-5A L1339352-15 GW

Collected by: SU / HMI Team | Collected date/time: 04/13/21 12:25 | Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1653093	1	04/16/21 11:16	04/16/21 16:30	CAT	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1661715	1	05/03/21 16:04	05/03/21 16:04	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1655391	1	04/22/21 01:01	04/22/21 01:01	MCG	Mt. Juliet, TN

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

MW-5A L1339352-15 GW

Collected by: SU / HMI Team
Collected date/time: 04/13/21 12:25
Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1655391	100	04/22/21 01:17	04/22/21 01:17	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1654935	1	04/25/21 23:20	04/26/21 09:34	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656780	1	04/22/21 12:40	04/22/21 20:33	TM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656780	5	04/22/21 12:40	04/22/21 21:35	TM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1654300	1	04/20/21 15:44	04/20/21 15:44	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653529	1	04/17/21 05:11	04/17/21 05:11	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1655290	1	04/22/21 14:55	04/26/21 02:38	JN	Mt. Juliet, TN

MW-5B L1339352-16 GW

Collected by: SU / HMI Team
Collected date/time: 04/13/21 13:20
Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1653093	1	04/16/21 11:16	04/16/21 16:30	CAT	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1661715	1	05/03/21 16:06	05/03/21 16:06	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1655391	1	04/22/21 01:34	04/22/21 01:34	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1655391	100	04/22/21 01:50	04/22/21 01:50	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1654935	1	04/25/21 23:20	04/26/21 09:37	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656780	1	04/22/21 12:40	04/22/21 20:36	TM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1654300	1	04/20/21 16:05	04/20/21 16:05	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653529	1	04/17/21 05:31	04/17/21 05:31	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1655290	1	04/22/21 14:55	04/26/21 02:18	JN	Mt. Juliet, TN

MW-5C L1339352-17 GW

Collected by: SU / HMI Team
Collected date/time: 04/13/21 14:05
Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1653093	1	04/16/21 11:16	04/16/21 16:30	CAT	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1661715	1	05/03/21 16:07	05/03/21 16:07	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1655391	1	04/22/21 02:39	04/22/21 02:39	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1655391	50	04/22/21 03:12	04/22/21 03:12	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1654935	1	04/25/21 23:20	04/26/21 09:40	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656780	1	04/22/21 12:40	04/22/21 20:40	TM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656780	5	04/22/21 12:40	04/22/21 21:38	TM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1654300	1	04/20/21 16:27	04/20/21 16:27	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653740	1	04/17/21 23:57	04/17/21 23:57	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1655290	2	04/22/21 14:55	04/26/21 06:39	JN	Mt. Juliet, TN

MW-7A L1339352-18 GW

Collected by: SU / HMI Team
Collected date/time: 04/13/21 11:15
Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1653096	1	04/16/21 11:18	04/16/21 18:49	VRP	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1661715	1	05/03/21 16:08	05/03/21 16:08	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1655391	1	04/22/21 03:29	04/22/21 03:29	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1655391	100	04/22/21 03:45	04/22/21 03:45	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1654935	1	04/25/21 23:20	04/26/21 09:44	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656780	1	04/22/21 12:40	04/22/21 21:41	TM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656780	5	04/22/21 12:40	04/22/21 22:44	TM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1654300	1	04/20/21 16:49	04/20/21 16:49	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653740	1	04/18/21 00:17	04/18/21 00:17	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1655290	1	04/22/21 14:55	04/26/21 06:19	JN	Mt. Juliet, TN

MW-7B L1339352-19 GW

Collected by: SU / HMI Team | Collected date/time: 04/13/21 10:30 | Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1653096	1	04/16/21 11:18	04/16/21 18:49	VRP	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1661715	1	05/03/21 16:09	05/03/21 16:09	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1655391	1	04/22/21 04:01	04/22/21 04:01	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1655391	100	04/22/21 04:18	04/22/21 04:18	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1654935	1	04/25/21 23:20	04/26/21 09:47	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656780	1	04/22/21 12:40	04/22/21 21:45	TM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1655063	1	04/20/21 13:12	04/20/21 13:12	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653740	1	04/18/21 00:37	04/18/21 00:37	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1655290	1	04/22/21 14:55	04/22/21 19:16	DMG	Mt. Juliet, TN

OCD-8A L1339352-20 GW

Collected by: SU / HMI Team | Collected date/time: 04/13/21 09:45 | Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1653093	1	04/16/21 11:16	04/16/21 16:30	CAT	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1661715	1	05/03/21 16:11	05/03/21 16:11	KEG	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG1656330	1	04/21/21 19:30	04/23/21 16:20	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1655391	100	04/22/21 04:51	04/22/21 04:51	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1655391	5	04/22/21 04:34	04/22/21 04:34	MCG	Mt. Juliet, TN
Mercury by Method 7470A	WG1652886	1	04/16/21 10:00	04/18/21 13:53	BMF	Mt. Juliet, TN
Mercury by Method 7470A	WG1652891	1	04/19/21 16:40	04/20/21 11:50	BMF	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1656495	1	04/24/21 07:47	04/24/21 15:56	KMG	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1656874	1	04/26/21 06:53	04/26/21 11:54	EL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1654935	1	04/25/21 23:20	04/26/21 09:50	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656780	1	04/22/21 12:40	04/22/21 21:48	TM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656780	5	04/22/21 12:40	04/22/21 22:48	TM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1655063	1	04/20/21 13:34	04/20/21 13:34	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653740	1	04/18/21 00:57	04/18/21 00:57	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1655290	1	04/22/21 14:55	04/26/21 02:58	JN	Mt. Juliet, TN

OCD-8B L1339352-21 GW

Collected by: SU / HMI Team | Collected date/time: 04/13/21 08:55 | Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1653093	1	04/16/21 11:16	04/16/21 16:30	CAT	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1661715	1	05/03/21 16:12	05/03/21 16:12	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1655392	1	04/21/21 18:34	04/21/21 18:34	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1655392	100	04/21/21 18:50	04/21/21 18:50	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1654935	1	04/25/21 23:20	04/26/21 10:19	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656780	1	04/22/21 12:40	04/22/21 21:51	TM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656780	5	04/22/21 12:40	04/22/21 22:51	TM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1655063	1	04/20/21 13:56	04/20/21 13:56	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653740	1	04/18/21 01:18	04/18/21 01:18	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1655290	1	04/22/21 14:55	04/26/21 03:18	JN	Mt. Juliet, TN

MW-87 L1339352-22 GW

Collected by: SU / HMI Team | Collected date/time: 04/13/21 10:00 | Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1654737	1	04/20/21 00:02	04/20/21 03:38	CAT	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1661715	1	05/03/21 16:13	05/03/21 16:13	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1655392	1	04/21/21 19:07	04/21/21 19:07	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1655392	100	04/21/21 19:23	04/21/21 19:23	ELN	Mt. Juliet, TN

MW-87 L1339352-22 GW

Collected by: SU / HMI Team
Collected date/time: 04/13/21 10:00
Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICPMS) by Method 6020	WG1654935	1	04/25/21 23:20	04/26/21 10:22	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656780	1	04/22/21 12:40	04/22/21 21:55	TM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656780	5	04/22/21 12:40	04/22/21 22:54	TM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1655063	1	04/20/21 14:18	04/20/21 14:18	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653740	1	04/18/21 01:38	04/18/21 01:38	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1655290	1	04/22/21 14:55	04/26/21 03:38	JN	Mt. Juliet, TN

MW-18A L1339352-23 GW

Collected by: SU / HMI Team
Collected date/time: 04/13/21 10:45
Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1653093	1	04/16/21 11:16	04/16/21 16:30	CAT	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1661715	1	05/03/21 16:15	05/03/21 16:15	KEG	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG1656330	1	04/21/21 19:27	04/23/21 16:23	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1655392	100	04/21/21 21:51	04/21/21 21:51	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1655392	5	04/21/21 21:35	04/21/21 21:35	ELN	Mt. Juliet, TN
Mercury by Method 7470A	WG1652886	1	04/16/21 10:00	04/18/21 13:55	BMF	Mt. Juliet, TN
Mercury by Method 7470A	WG1652891	1	04/19/21 16:40	04/20/21 11:52	BMF	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1656496	1	04/22/21 12:56	04/22/21 17:05	KMG	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1656874	1	04/26/21 06:53	04/26/21 11:57	EL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1654935	1	04/25/21 23:20	04/26/21 10:25	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656883	1	04/25/21 13:09	04/26/21 20:24	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656883	5	04/25/21 13:09	04/26/21 20:44	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653740	1	04/18/21 01:59	04/18/21 01:59	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1655290	1	04/22/21 14:55	04/26/21 03:59	JN	Mt. Juliet, TN

MW-18B L1339352-24 GW

Collected by: SU / HMI Team
Collected date/time: 04/13/21 11:25
Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1654737	1	04/20/21 00:02	04/20/21 03:38	CAT	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1661715	1	05/03/21 16:16	05/03/21 16:16	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1655392	1	04/21/21 22:08	04/21/21 22:08	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1655392	50	04/21/21 22:24	04/21/21 22:24	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1654935	1	04/25/21 23:20	04/26/21 10:29	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656883	1	04/25/21 13:09	04/26/21 20:27	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1655063	1	04/20/21 14:39	04/20/21 14:39	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653740	1	04/18/21 02:19	04/18/21 02:19	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1655290	1	04/22/21 14:55	04/26/21 04:19	JN	Mt. Juliet, TN

MW-70 L1339352-25 GW

Collected by: SU / HMI Team
Collected date/time: 04/13/21 12:10
Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1654737	1	04/20/21 00:02	04/20/21 03:38	CAT	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1661715	1	05/03/21 16:21	05/03/21 16:21	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1655392	1	04/21/21 22:40	04/21/21 22:40	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1655392	100	04/21/21 22:57	04/21/21 22:57	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1654935	1	04/25/21 23:20	04/26/21 10:32	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656883	1	04/25/21 13:09	04/26/21 20:30	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1655063	1	04/20/21 15:01	04/20/21 15:01	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653740	1	04/18/21 02:39	04/18/21 02:39	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1655290	1	04/22/21 14:55	04/26/21 04:39	JN	Mt. Juliet, TN

MW-124 L1339352-26 GW

Collected by: SU / HMI Team
Collected date/time: 04/13/21 12:55
Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1654737	1	04/20/21 00:02	04/20/21 03:38	CAT	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1661715	1	05/03/21 16:22	05/03/21 16:22	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1655392	1	04/21/21 23:13	04/21/21 23:13	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1655392	100	04/21/21 23:30	04/21/21 23:30	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1655933	1	04/25/21 13:04	04/26/21 00:34	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656883	1	04/25/21 13:09	04/26/21 20:34	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656883	5	04/25/21 13:09	04/26/21 20:47	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1655063	1	04/20/21 15:23	04/20/21 15:23	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653740	1	04/18/21 03:00	04/18/21 03:00	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1655290	1	04/22/21 14:55	04/22/21 21:37	DMG	Mt. Juliet, TN

DUP-EP-01 L1339352-27 GW

Collected by: SU / HMI Team
Collected date/time: 04/13/21 10:00
Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1654737	1	04/20/21 00:02	04/20/21 03:38	CAT	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1661715	1	05/03/21 16:23	05/03/21 16:23	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1655392	1	04/22/21 00:19	04/22/21 00:19	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1655392	100	04/22/21 00:36	04/22/21 00:36	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1655933	1	04/25/21 13:04	04/26/21 01:10	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656883	1	04/25/21 13:09	04/26/21 20:37	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656883	5	04/25/21 13:09	04/26/21 20:50	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1655063	1	04/20/21 15:45	04/20/21 15:45	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653740	1	04/18/21 03:20	04/18/21 03:20	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1655290	1	04/22/21 14:55	04/26/21 04:59	JN	Mt. Juliet, TN

EB-EP-01 L1339352-28 GW

Collected by: SU / HMI Team
Collected date/time: 04/13/21 10:55
Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1654737	1	04/20/21 00:02	04/20/21 03:38	CAT	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1661715	1	05/03/21 16:25	05/03/21 16:25	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1655392	1	04/21/21 20:12	04/21/21 20:12	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1655933	1	04/25/21 13:04	04/26/21 01:13	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656883	1	04/25/21 13:09	04/26/21 21:43	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1655063	1	04/20/21 10:27	04/20/21 10:27	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653740	1	04/17/21 20:54	04/17/21 20:54	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1655290	1	04/22/21 14:55	04/22/21 22:18	DMG	Mt. Juliet, TN

EB-EP-02 L1339352-29 GW

Collected by: SU / HMI Team
Collected date/time: 04/13/21 13:10
Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1654730	1	04/19/21 18:09	04/19/21 20:11	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1661715	1	05/03/21 16:26	05/03/21 16:26	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1655392	1	04/22/21 00:52	04/22/21 00:52	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1655933	1	04/25/21 13:04	04/26/21 01:16	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656883	1	04/25/21 13:09	04/26/21 21:46	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1655063	1	04/20/21 10:49	04/20/21 10:49	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653740	1	04/17/21 21:14	04/17/21 21:14	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1655290	1	04/22/21 14:55	04/22/21 22:38	DMG	Mt. Juliet, TN

EB-EP-03 L1339352-30 GW

Collected by: SU / HMI Team
Collected date/time: 04/13/21 12:45
Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1654730	1	04/19/21 18:09	04/19/21 20:11	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1661715	1	05/03/21 16:29	05/03/21 16:29	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1655392	1	04/22/21 01:08	04/22/21 01:08	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1655933	1	04/25/21 13:04	04/26/21 01:20	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656883	1	04/25/21 13:09	04/26/21 21:49	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1655063	1	04/20/21 11:11	04/20/21 11:11	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653740	1	04/17/21 21:34	04/17/21 21:34	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1655290	1	04/22/21 14:55	04/22/21 22:58	DMG	Mt. Juliet, TN

TRIP BLANK-EP-01 L1339352-31 GW

Collected by: SU / HMI Team
Collected date/time: 04/13/21 00:00
Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653772	1	04/18/21 15:24	04/18/21 15:24	ADM	Mt. Juliet, TN

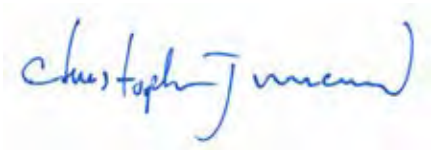
TRIP BLANK-EP-02 L1339352-32 GW

Collected by: SU / HMI Team
Collected date/time: 04/13/21 00:00
Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653772	1	04/18/21 15:45	04/18/21 15:45	ADM	Mt. Juliet, TN

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Chris McCord
Project Manager

Sample Delivery Group (SDG) Narrative

The following analysis were performed from an unpreserved, insufficiently or inadequately preserved sample.

Lab Sample ID	Project Sample ID	Method
L1339352-03	MW-122	353.2
L1339352-04	MW-74	353.2
L1339352-05	MW-73	353.2
L1339352-06	MW-2A	353.2
L1339352-07	MW-72	353.2
L1339352-08	OCD-6	353.2
L1339352-09	OCD-7AR	353.2
L1339352-10	OCD-7B	353.2
L1339352-11	MW-88	353.2
L1339352-12	MW-10	353.2
L1339352-13	MW-4A	353.2
L1339352-14	MW-4B	353.2
L1339352-15	MW-5A	353.2
L1339352-16	MW-5B	353.2
L1339352-17	MW-5C	353.2
L1339352-18	MW-7A	353.2
L1339352-19	MW-7B	353.2
L1339352-20	OCD-8A	353.2
L1339352-21	OCD-8B	353.2
L1339352-22	MW-87	353.2
L1339352-23	MW-18A	353.2
L1339352-24	MW-18B	353.2
L1339352-25	MW-70	353.2
L1339352-26	MW-124	353.2
L1339352-27	DUP-EP-01	353.2
L1339352-28	EB-EP-01	353.2
L1339352-29	EB-EP-02	353.2
L1339352-30	EB-EP-03	353.2

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3070		50.0	1	04/16/2021 18:49	WG1653096

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.0885	J	0.0500	0.100	1	04/17/2021 06:04	WG1653584

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	647		37.9	100	100	04/21/2021 14:37	WG1655391
Fluoride	1.67		0.0640	0.150	1	04/21/2021 14:05	WG1655391
Sulfate	1450		59.4	500	100	04/21/2021 14:37	WG1655391

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00554		0.000180	0.00200	1	04/22/2021 10:34	WG1656370
Arsenic,Dissolved	0.00481		0.000180	0.00200	1	04/21/2021 22:54	WG1654934
Barium	0.0129	J	0.000381	0.0200	1	04/22/2021 10:34	WG1656370
Barium,Dissolved	0.0134	J	0.000381	0.0200	1	04/22/2021 00:33	WG1654934
Calcium	297		0.0936	1.00	1	04/22/2021 10:34	WG1656370
Chromium	0.00184	J	0.00124	0.00200	1	04/22/2021 10:34	WG1656370
Chromium,Dissolved	0.00141	B J	0.00124	0.00200	1	04/22/2021 00:33	WG1654934
Iron	0.478		0.0281	0.100	1	04/22/2021 10:34	WG1656370
Iron,Dissolved	0.0319	J	0.0281	0.100	1	04/21/2021 22:54	WG1654934
Lead	0.000966	J	0.000849	0.00200	1	04/22/2021 10:34	WG1656370
Lead,Dissolved	U		0.000849	0.00200	1	04/22/2021 00:33	WG1654934
Manganese	0.282		0.000704	0.00500	1	04/22/2021 10:34	WG1656370
Manganese,Dissolved	0.285		0.000704	0.00500	1	04/21/2021 22:54	WG1654934
Potassium	1.24	J	0.108	2.00	1	04/22/2021 10:34	WG1656370
Selenium	0.000382	J	0.000300	0.00200	1	04/22/2021 10:34	WG1656370
Selenium,Dissolved	0.000402	J	0.000300	0.00200	1	04/21/2021 22:54	WG1654934
Sodium	697		0.376	2.00	1	04/22/2021 10:34	WG1656370

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.356	B	0.0314	0.100	1	04/20/2021 10:23	WG1654300
(S) a,a,a-Trifluorotoluene(FID)	*96.3*			*78.0-120*		*04/20/2021 10:23*	WG1654300

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0565	0.250	5	04/17/2021 05:52	WG1653529
Benzene	U		0.000471	0.00500	5	04/17/2021 05:52	WG1653529
Bromodichloromethane	U		0.000680	0.00500	5	04/17/2021 05:52	WG1653529
Bromoform	U		0.000645	0.00500	5	04/17/2021 05:52	WG1653529
Bromomethane	U		0.00303	0.0250	5	04/17/2021 05:52	WG1653529
n-Butylbenzene	U		0.000785	0.00500	5	04/17/2021 05:52	WG1653529
sec-Butylbenzene	U		0.000625	0.00500	5	04/17/2021 05:52	WG1653529
Carbon disulfide	U		0.000481	0.00500	5	04/17/2021 05:52	WG1653529
Carbon tetrachloride	U		0.000640	0.00500	5	04/17/2021 05:52	WG1653529

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000580	0.00500	5	04/17/2021 05:52	WG1653529
Chlorodibromomethane	U		0.000700	0.00500	5	04/17/2021 05:52	WG1653529
Chloroethane	U		0.000960	0.0250	5	04/17/2021 05:52	WG1653529
Chloroform	U		0.000555	0.0250	5	04/17/2021 05:52	WG1653529
Chloromethane	U	J4	0.00480	0.0125	5	04/17/2021 05:52	WG1653529
1,2-Dibromoethane	U		0.000630	0.00500	5	04/17/2021 05:52	WG1653529
1,1-Dichloroethane	U		0.000500	0.00500	5	04/17/2021 05:52	WG1653529
1,2-Dichloroethane	U		0.000409	0.00500	5	04/17/2021 05:52	WG1653529
1,1-Dichloroethene	U		0.000940	0.00500	5	04/17/2021 05:52	WG1653529
cis-1,2-Dichloroethene	U		0.000630	0.00500	5	04/17/2021 05:52	WG1653529
trans-1,2-Dichloroethene	U		0.000745	0.00500	5	04/17/2021 05:52	WG1653529
1,2-Dichloropropane	U		0.000745	0.00500	5	04/17/2021 05:52	WG1653529
cis-1,3-Dichloropropene	U		0.000555	0.00500	5	04/17/2021 05:52	WG1653529
trans-1,3-Dichloropropene	U		0.000590	0.00500	5	04/17/2021 05:52	WG1653529
Ethylbenzene	0.00142	J	0.000685	0.00500	5	04/17/2021 05:52	WG1653529
Isopropylbenzene	U		0.000525	0.00500	5	04/17/2021 05:52	WG1653529
p-Isopropyltoluene	U		0.000600	0.00500	5	04/17/2021 05:52	WG1653529
2-Butanone (MEK)	U		0.00595	0.0500	5	04/17/2021 05:52	WG1653529
2-Hexanone	U		0.00394	0.0500	5	04/17/2021 05:52	WG1653529
Methylene Chloride	U		0.00215	0.0250	5	04/17/2021 05:52	WG1653529
4-Methyl-2-pentanone (MIBK)	U		0.00239	0.0500	5	04/17/2021 05:52	WG1653529
Methyl tert-butyl ether	U		0.000505	0.00500	5	04/17/2021 05:52	WG1653529
Naphthalene	U	J4	0.00500	0.0250	5	04/17/2021 05:52	WG1653529
n-Propylbenzene	U		0.000497	0.00500	5	04/17/2021 05:52	WG1653529
Styrene	U		0.000590	0.00500	5	04/17/2021 05:52	WG1653529
1,1,1,2-Tetrachloroethane	U		0.000735	0.00500	5	04/17/2021 05:52	WG1653529
1,1,2,2-Tetrachloroethane	U		0.000665	0.00500	5	04/17/2021 05:52	WG1653529
Tetrachloroethene	U		0.00150	0.00500	5	04/17/2021 05:52	WG1653529
Toluene	0.00219	J	0.00139	0.00500	5	04/17/2021 05:52	WG1653529
1,1,1-Trichloroethane	U		0.000745	0.00500	5	04/17/2021 05:52	WG1653529
1,1,2-Trichloroethane	U		0.000790	0.00500	5	04/17/2021 05:52	WG1653529
Trichloroethene	U		0.000950	0.00500	5	04/17/2021 05:52	WG1653529
1,2,4-Trimethylbenzene	U		0.00161	0.00500	5	04/17/2021 05:52	WG1653529
1,3,5-Trimethylbenzene	U		0.000520	0.00500	5	04/17/2021 05:52	WG1653529
Vinyl chloride	U		0.00117	0.00500	5	04/17/2021 05:52	WG1653529
o-Xylene	0.00304	J	0.000870	0.00500	5	04/17/2021 05:52	WG1653529
m&p-Xylene	0.00298	J	0.00215	0.0100	5	04/17/2021 05:52	WG1653529
Xylenes, Total	0.00602	J	0.000870	0.0150	5	04/17/2021 05:52	WG1653529
(S) Toluene-d8	*106*			*80.0-120*		*04/17/2021 05:52*	WG1653529
(S) 4-Bromofluorobenzene	*110*			*77.0-126*		*04/17/2021 05:52*	WG1653529
(S) 1,2-Dichloroethane-d4	*99.7*			*70.0-130*		*04/17/2021 05:52*	WG1653529

Sample Narrative:

L1339352-01 WG1653529: Non-target compounds too high to run at a lower dilution.

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	6.04		0.247	1.00	10	04/22/2021 05:29	WG1655289
(S) o-Terphenyl	*96.0*			*31.0-160*		*04/22/2021 05:29*	WG1655289

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	6950		100	1	04/16/2021 18:49	WG1653096

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.289		0.0500	0.100	1	04/17/2021 06:06	WG1653584

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	970		37.9	100	100	04/21/2021 15:59	WG1655391
Fluoride	0.614		0.0640	0.150	1	04/21/2021 15:10	WG1655391
Sulfate	1330		59.4	500	100	04/21/2021 15:59	WG1655391

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0462		0.000180	0.00200	1	04/22/2021 10:37	WG1656370
Arsenic,Dissolved	0.0344		0.000180	0.00200	1	04/21/2021 22:58	WG1654934
Barium	0.0141	J	0.000381	0.0200	1	04/22/2021 10:37	WG1656370
Barium,Dissolved	0.0147	J	0.000381	0.0200	1	04/22/2021 00:36	WG1654934
Calcium	462		0.0936	1.00	1	04/22/2021 10:37	WG1656370
Chromium	0.00209		0.00124	0.00200	1	04/22/2021 10:37	WG1656370
Chromium,Dissolved	U		0.00124	0.00200	1	04/22/2021 00:36	WG1654934
Iron	1.59		0.0281	0.100	1	04/22/2021 10:37	WG1656370
Iron,Dissolved	U		0.0281	0.100	1	04/21/2021 22:58	WG1654934
Lead	U		0.000849	0.00200	1	04/22/2021 10:37	WG1656370
Lead,Dissolved	0.00128	J	0.000849	0.00200	1	04/22/2021 00:36	WG1654934
Manganese	2.24		0.000704	0.00500	1	04/22/2021 10:37	WG1656370
Manganese,Dissolved	2.31		0.000704	0.00500	1	04/21/2021 22:58	WG1654934
Potassium	4.71		0.108	2.00	1	04/22/2021 10:37	WG1656370
Selenium	U		0.000300	0.00200	1	04/22/2021 10:37	WG1656370
Selenium,Dissolved	U		0.000300	0.00200	1	04/21/2021 22:58	WG1654934
Sodium	651		0.376	2.00	1	04/22/2021 10:37	WG1656370

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	0.0463	B J	0.0314	0.100	1	04/20/2021 10:45	WG1654300
(S) a,a,a-Trifluorotoluene(FID)	*97.3*			*78.0-120*		*04/20/2021 10:45*	WG1654300

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0113	0.0500	1	04/17/2021 00:44	WG1653529
Benzene	U		0.0000941	0.00100	1	04/17/2021 00:44	WG1653529
Bromodichloromethane	U		0.000136	0.00100	1	04/17/2021 00:44	WG1653529
Bromoform	U		0.000129	0.00100	1	04/17/2021 00:44	WG1653529
Bromomethane	U		0.000605	0.00500	1	04/17/2021 00:44	WG1653529
n-Butylbenzene	U		0.000157	0.00100	1	04/17/2021 00:44	WG1653529
sec-Butylbenzene	U		0.000125	0.00100	1	04/17/2021 00:44	WG1653529
Carbon disulfide	U		0.0000962	0.00100	1	04/17/2021 00:44	WG1653529
Carbon tetrachloride	U		0.000128	0.00100	1	04/17/2021 00:44	WG1653529

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/17/2021 00:44	WG1653529
Chlorodibromomethane	U		0.000140	0.00100	1	04/17/2021 00:44	WG1653529
Chloroethane	U		0.000192	0.00500	1	04/17/2021 00:44	WG1653529
Chloroform	U		0.000111	0.00500	1	04/17/2021 00:44	WG1653529
Chloromethane	U	J4	0.000960	0.00250	1	04/17/2021 00:44	WG1653529
1,2-Dibromoethane	U		0.000126	0.00100	1	04/17/2021 00:44	WG1653529
1,1-Dichloroethane	U		0.000100	0.00100	1	04/17/2021 00:44	WG1653529
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/17/2021 00:44	WG1653529
1,1-Dichloroethene	U		0.000188	0.00100	1	04/17/2021 00:44	WG1653529
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/17/2021 00:44	WG1653529
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/17/2021 00:44	WG1653529
1,2-Dichloropropane	U		0.000149	0.00100	1	04/17/2021 00:44	WG1653529
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/17/2021 00:44	WG1653529
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/17/2021 00:44	WG1653529
Ethylbenzene	U		0.000137	0.00100	1	04/17/2021 00:44	WG1653529
Isopropylbenzene	U		0.000105	0.00100	1	04/17/2021 00:44	WG1653529
p-Isopropyltoluene	U		0.000120	0.00100	1	04/17/2021 00:44	WG1653529
2-Butanone (MEK)	U		0.00119	0.0100	1	04/17/2021 00:44	WG1653529
2-Hexanone	U		0.000787	0.0100	1	04/17/2021 00:44	WG1653529
Methylene Chloride	U		0.000430	0.00500	1	04/17/2021 00:44	WG1653529
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/17/2021 00:44	WG1653529
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/17/2021 00:44	WG1653529
Naphthalene	U	J4	0.00100	0.00500	1	04/17/2021 00:44	WG1653529
n-Propylbenzene	U		0.0000993	0.00100	1	04/17/2021 00:44	WG1653529
Styrene	U		0.000118	0.00100	1	04/17/2021 00:44	WG1653529
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/17/2021 00:44	WG1653529
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/17/2021 00:44	WG1653529
Tetrachloroethene	U		0.000300	0.00100	1	04/17/2021 00:44	WG1653529
Toluene	U		0.000278	0.00100	1	04/17/2021 00:44	WG1653529
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/17/2021 00:44	WG1653529
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/17/2021 00:44	WG1653529
Trichloroethene	U		0.000190	0.00100	1	04/17/2021 00:44	WG1653529
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/17/2021 00:44	WG1653529
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/17/2021 00:44	WG1653529
Vinyl chloride	U		0.000234	0.00100	1	04/17/2021 00:44	WG1653529
o-Xylene	U		0.000174	0.00100	1	04/17/2021 00:44	WG1653529
m&p-Xylene	U		0.000430	0.00200	1	04/17/2021 00:44	WG1653529
Xylenes, Total	U		0.000174	0.00300	1	04/17/2021 00:44	WG1653529
(S) Toluene-d8	*107*			*80.0-120*		*04/17/2021 00:44*	WG1653529
(S) 4-Bromofluorobenzene	*107*			*77.0-126*		*04/17/2021 00:44*	WG1653529
(S) 1,2-Dichloroethane-d4	*99.1*			*70.0-130*		*04/17/2021 00:44*	WG1653529

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.346		0.0247	0.100	1	04/21/2021 14:22	WG1655289
(S) o-Terphenyl	*82.5*			*31.0-160*		*04/21/2021 14:22*	WG1655289

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	3300		100	1	04/16/2021 18:49	WG1653096

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.0894	J	0.0500	0.100	1	05/03/2021 13:29	WG1661579

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	895		37.9	100	100	04/21/2021 17:05	WG1655391
Fluoride	2.61		0.0640	0.150	1	04/21/2021 16:49	WG1655391
Sulfate	1600		59.4	500	100	04/21/2021 17:05	WG1655391

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00184	J	0.000180	0.00200	1	04/22/2021 10:41	WG1656370
Arsenic,Dissolved	0.000931	J	0.000180	0.00200	1	04/21/2021 23:01	WG1654934
Barium	0.0191	J	0.000381	0.0200	1	04/22/2021 10:41	WG1656370
Barium,Dissolved	0.0203		0.000381	0.0200	1	04/22/2021 00:39	WG1654934
Calcium	357		0.0936	1.00	1	04/22/2021 10:41	WG1656370
Chromium	0.00163	J	0.00124	0.00200	1	04/22/2021 10:41	WG1656370
Chromium,Dissolved	U		0.00124	0.00200	1	04/22/2021 00:39	WG1654934
Iron	1.02		0.0281	0.100	1	04/22/2021 10:41	WG1656370
Iron,Dissolved	U		0.0281	0.100	1	04/21/2021 23:01	WG1654934
Lead	U		0.000849	0.00200	1	04/22/2021 10:41	WG1656370
Lead,Dissolved	0.00218		0.000849	0.00200	1	04/22/2021 00:39	WG1654934
Manganese	0.115		0.000704	0.00500	1	04/22/2021 10:41	WG1656370
Manganese,Dissolved	0.182		0.000704	0.00500	1	04/21/2021 23:01	WG1654934
Potassium	3.60		0.108	2.00	1	04/22/2021 10:41	WG1656370
Selenium	U		0.000300	0.00200	1	04/22/2021 10:41	WG1656370
Selenium,Dissolved	U		0.000300	0.00200	1	04/21/2021 23:01	WG1654934
Sodium	750		0.376	2.00	1	04/22/2021 10:41	WG1656370

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/23/2021 11:31	WG1657002
(S) a,a,a-Trifluorotoluene(FID)	*98.9*			*78.0-120*		*04/23/2021 11:31*	WG1657002

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0113	0.0500	1	04/17/2021 01:05	WG1653529
Benzene	U		0.0000941	0.00100	1	04/17/2021 01:05	WG1653529
Bromodichloromethane	U		0.000136	0.00100	1	04/17/2021 01:05	WG1653529
Bromoform	U		0.000129	0.00100	1	04/17/2021 01:05	WG1653529
Bromomethane	U		0.000605	0.00500	1	04/17/2021 01:05	WG1653529
n-Butylbenzene	U		0.000157	0.00100	1	04/17/2021 01:05	WG1653529
sec-Butylbenzene	U		0.000125	0.00100	1	04/17/2021 01:05	WG1653529
Carbon disulfide	U		0.0000962	0.00100	1	04/17/2021 01:05	WG1653529
Carbon tetrachloride	U		0.000128	0.00100	1	04/17/2021 01:05	WG1653529

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/17/2021 01:05	WG1653529
Chlorodibromomethane	U		0.000140	0.00100	1	04/17/2021 01:05	WG1653529
Chloroethane	U		0.000192	0.00500	1	04/17/2021 01:05	WG1653529
Chloroform	U		0.000111	0.00500	1	04/17/2021 01:05	WG1653529
Chloromethane	U	J4	0.000960	0.00250	1	04/17/2021 01:05	WG1653529
1,2-Dibromoethane	U		0.000126	0.00100	1	04/17/2021 01:05	WG1653529
1,1-Dichloroethane	U		0.000100	0.00100	1	04/17/2021 01:05	WG1653529
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/17/2021 01:05	WG1653529
1,1-Dichloroethene	U		0.000188	0.00100	1	04/17/2021 01:05	WG1653529
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/17/2021 01:05	WG1653529
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/17/2021 01:05	WG1653529
1,2-Dichloropropane	U		0.000149	0.00100	1	04/17/2021 01:05	WG1653529
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/17/2021 01:05	WG1653529
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/17/2021 01:05	WG1653529
Ethylbenzene	U		0.000137	0.00100	1	04/17/2021 01:05	WG1653529
Isopropylbenzene	U		0.000105	0.00100	1	04/17/2021 01:05	WG1653529
p-Isopropyltoluene	U		0.000120	0.00100	1	04/17/2021 01:05	WG1653529
2-Butanone (MEK)	U		0.00119	0.0100	1	04/17/2021 01:05	WG1653529
2-Hexanone	U		0.000787	0.0100	1	04/17/2021 01:05	WG1653529
Methylene Chloride	U		0.000430	0.00500	1	04/17/2021 01:05	WG1653529
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/17/2021 01:05	WG1653529
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/17/2021 01:05	WG1653529
Naphthalene	U	J4	0.00100	0.00500	1	04/17/2021 01:05	WG1653529
n-Propylbenzene	U		0.0000993	0.00100	1	04/17/2021 01:05	WG1653529
Styrene	U		0.000118	0.00100	1	04/17/2021 01:05	WG1653529
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/17/2021 01:05	WG1653529
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/17/2021 01:05	WG1653529
Tetrachloroethene	U		0.000300	0.00100	1	04/17/2021 01:05	WG1653529
Toluene	U		0.000278	0.00100	1	04/17/2021 01:05	WG1653529
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/17/2021 01:05	WG1653529
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/17/2021 01:05	WG1653529
Trichloroethene	U		0.000190	0.00100	1	04/17/2021 01:05	WG1653529
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/17/2021 01:05	WG1653529
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/17/2021 01:05	WG1653529
Vinyl chloride	U		0.000234	0.00100	1	04/17/2021 01:05	WG1653529
o-Xylene	U		0.000174	0.00100	1	04/17/2021 01:05	WG1653529
m&p-Xylene	U		0.000430	0.00200	1	04/17/2021 01:05	WG1653529
Xylenes, Total	U		0.000174	0.00300	1	04/17/2021 01:05	WG1653529
(S) Toluene-d8	*108*			*80.0-120*		*04/17/2021 01:05*	WG1653529
(S) 4-Bromofluorobenzene	*105*			*77.0-126*		*04/17/2021 01:05*	WG1653529
(S) 1,2-Dichloroethane-d4	*99.9*			*70.0-130*		*04/17/2021 01:05*	WG1653529

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0845	J	0.0247	0.100	1	04/21/2021 17:24	WG1655289
(S) o-Terphenyl	*103*			*31.0-160*		*04/21/2021 17:24*	WG1655289

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	6560		200	1	04/16/2021 18:49	WG1653096

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	4.80		0.250	0.500	5	05/03/2021 13:31	WG1661579

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	1850		37.9	100	100	04/21/2021 17:38	WG1655391
Fluoride	7.50		0.0640	0.150	1	04/21/2021 17:21	WG1655391
Sulfate	3400		59.4	500	100	04/21/2021 17:38	WG1655391

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.104		0.000180	0.00200	1	04/22/2021 10:44	WG1656370
Arsenic,Dissolved	0.106		0.000180	0.00200	1	04/21/2021 23:05	WG1654934
Barium	0.0120	J	0.000381	0.0200	1	04/22/2021 10:44	WG1656370
Barium,Dissolved	0.0139	J	0.000381	0.0200	1	04/22/2021 00:43	WG1654934
Calcium	562		0.0936	1.00	1	04/22/2021 10:44	WG1656370
Chromium	0.00131	J	0.00124	0.00200	1	04/22/2021 10:44	WG1656370
Chromium,Dissolved	0.00142	B J	0.00124	0.00200	1	04/22/2021 00:43	WG1654934
Iron	0.0333	J	0.0281	0.100	1	04/22/2021 10:44	WG1656370
Iron,Dissolved	U		0.0281	0.100	1	04/21/2021 23:05	WG1654934
Lead	U		0.000849	0.00200	1	04/22/2021 10:44	WG1656370
Lead,Dissolved	U		0.000849	0.00200	1	04/22/2021 00:43	WG1654934
Manganese	1.36		0.000704	0.00500	1	04/22/2021 10:44	WG1656370
Manganese,Dissolved	1.37		0.000704	0.00500	1	04/21/2021 23:05	WG1654934
Potassium	30.5		0.108	2.00	1	04/22/2021 10:44	WG1656370
Selenium	0.0146		0.000300	0.00200	1	04/22/2021 10:44	WG1656370
Selenium,Dissolved	0.0128		0.000300	0.00200	1	04/21/2021 23:05	WG1654934
Sodium	2120		1.88	10.0	5	04/22/2021 12:24	WG1656370

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	1.47		0.0314	0.100	1	04/20/2021 11:07	WG1654300
(S) a,a,a-Trifluorotoluene(FID)	*97.4*			*78.0-120*		*04/20/2021 11:07*	WG1654300

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0113	0.0500	1	04/17/2021 01:25	WG1653529
Benzene	U		0.0000941	0.00100	1	04/17/2021 01:25	WG1653529
Bromodichloromethane	U		0.000136	0.00100	1	04/17/2021 01:25	WG1653529
Bromoform	U		0.000129	0.00100	1	04/17/2021 01:25	WG1653529
Bromomethane	U		0.000605	0.00500	1	04/17/2021 01:25	WG1653529
n-Butylbenzene	U		0.000157	0.00100	1	04/17/2021 01:25	WG1653529
sec-Butylbenzene	U		0.000125	0.00100	1	04/17/2021 01:25	WG1653529
Carbon disulfide	U		0.0000962	0.00100	1	04/17/2021 01:25	WG1653529
Carbon tetrachloride	U		0.000128	0.00100	1	04/17/2021 01:25	WG1653529

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/17/2021 01:25	WG1653529
Chlorodibromomethane	U		0.000140	0.00100	1	04/17/2021 01:25	WG1653529
Chloroethane	U		0.000192	0.00500	1	04/17/2021 01:25	WG1653529
Chloroform	U		0.000111	0.00500	1	04/17/2021 01:25	WG1653529
Chloromethane	U	J4	0.000960	0.00250	1	04/17/2021 01:25	WG1653529
1,2-Dibromoethane	U		0.000126	0.00100	1	04/17/2021 01:25	WG1653529
1,1-Dichloroethane	U		0.000100	0.00100	1	04/17/2021 01:25	WG1653529
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/17/2021 01:25	WG1653529
1,1-Dichloroethene	U		0.000188	0.00100	1	04/17/2021 01:25	WG1653529
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/17/2021 01:25	WG1653529
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/17/2021 01:25	WG1653529
1,2-Dichloropropane	U		0.000149	0.00100	1	04/17/2021 01:25	WG1653529
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/17/2021 01:25	WG1653529
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/17/2021 01:25	WG1653529
Ethylbenzene	U		0.000137	0.00100	1	04/17/2021 01:25	WG1653529
Isopropylbenzene	U		0.000105	0.00100	1	04/17/2021 01:25	WG1653529
p-Isopropyltoluene	U		0.000120	0.00100	1	04/17/2021 01:25	WG1653529
2-Butanone (MEK)	U		0.00119	0.0100	1	04/17/2021 01:25	WG1653529
2-Hexanone	U		0.000787	0.0100	1	04/17/2021 01:25	WG1653529
Methylene Chloride	U		0.000430	0.00500	1	04/17/2021 01:25	WG1653529
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/17/2021 01:25	WG1653529
Methyl tert-butyl ether	0.000577	J	0.000101	0.00100	1	04/17/2021 01:25	WG1653529
Naphthalene	U	J4	0.00100	0.00500	1	04/17/2021 01:25	WG1653529
n-Propylbenzene	U		0.0000993	0.00100	1	04/17/2021 01:25	WG1653529
Styrene	U		0.000118	0.00100	1	04/17/2021 01:25	WG1653529
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/17/2021 01:25	WG1653529
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/17/2021 01:25	WG1653529
Tetrachloroethene	U		0.000300	0.00100	1	04/17/2021 01:25	WG1653529
Toluene	U		0.000278	0.00100	1	04/17/2021 01:25	WG1653529
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/17/2021 01:25	WG1653529
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/17/2021 01:25	WG1653529
Trichloroethene	U		0.000190	0.00100	1	04/17/2021 01:25	WG1653529
1,2,4-Trimethylbenzene	0.000857	J	0.000322	0.00100	1	04/17/2021 01:25	WG1653529
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/17/2021 01:25	WG1653529
Vinyl chloride	U		0.000234	0.00100	1	04/17/2021 01:25	WG1653529
o-Xylene	U		0.000174	0.00100	1	04/17/2021 01:25	WG1653529
m&p-Xylene	U		0.000430	0.00200	1	04/17/2021 01:25	WG1653529
Xylenes, Total	U		0.000174	0.00300	1	04/17/2021 01:25	WG1653529
(S) Toluene-d8	*104*			*80.0-120*		*04/17/2021 01:25*	WG1653529
(S) 4-Bromofluorobenzene	*111*			*77.0-126*		*04/17/2021 01:25*	WG1653529
(S) 1,2-Dichloroethane-d4	*99.1*			*70.0-130*		*04/17/2021 01:25*	WG1653529

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	15.9		0.123	0.500	5	04/22/2021 10:25	WG1655289
(S) o-Terphenyl	*160*			*31.0-160*		*04/22/2021 10:25*	WG1655289

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	9400		200	1	04/16/2021 16:30	WG1653093

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.371		0.0500	0.100	1	05/03/2021 13:32	WG1661579

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	3100		37.9	100	100	04/21/2021 18:11	WG1655391
Fluoride	1.83		0.0640	0.150	1	04/21/2021 17:54	WG1655391
Sulfate	4570		59.4	500	100	04/21/2021 18:11	WG1655391

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0440		0.000180	0.00200	1	04/22/2021 10:55	WG1656370
Arsenic,Dissolved	0.0410		0.000180	0.00200	1	04/21/2021 23:08	WG1654934
Barium	0.00786	J	0.000381	0.0200	1	04/22/2021 10:55	WG1656370
Barium,Dissolved	0.00843	J	0.000381	0.0200	1	04/22/2021 00:46	WG1654934
Calcium	609		0.0936	1.00	1	04/22/2021 10:55	WG1656370
Chromium	0.00337		0.00124	0.00200	1	04/22/2021 10:55	WG1656370
Chromium,Dissolved	U		0.00124	0.00200	1	04/22/2021 00:46	WG1654934
Iron	1.45		0.0281	0.100	1	04/22/2021 10:55	WG1656370
Iron,Dissolved	0.0430	J	0.0281	0.100	1	04/21/2021 23:08	WG1654934
Lead	U		0.00424	0.0100	5	04/22/2021 12:27	WG1656370
Lead,Dissolved	U		0.000849	0.00200	1	04/22/2021 00:46	WG1654934
Manganese	0.337		0.000704	0.00500	1	04/22/2021 10:55	WG1656370
Manganese,Dissolved	0.437		0.000704	0.00500	1	04/21/2021 23:08	WG1654934
Potassium	2.46		0.108	2.00	1	04/22/2021 10:55	WG1656370
Selenium	0.00136	J	0.000300	0.00200	1	04/22/2021 10:55	WG1656370
Selenium,Dissolved	0.00142	J	0.000300	0.00200	1	04/21/2021 23:08	WG1654934
Sodium	2590		1.88	10.0	5	04/22/2021 12:27	WG1656370

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	0.426		0.0314	0.100	1	04/20/2021 11:28	WG1654300
(S) a,a,a-Trifluorotoluene(FID)	*97.5*			*78.0-120*		*04/20/2021 11:28*	WG1654300

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0113	0.0500	1	04/17/2021 01:46	WG1653529
Benzene	U		0.0000941	0.00100	1	04/17/2021 01:46	WG1653529
Bromodichloromethane	U		0.000136	0.00100	1	04/17/2021 01:46	WG1653529
Bromoform	U		0.000129	0.00100	1	04/17/2021 01:46	WG1653529
Bromomethane	U		0.000605	0.00500	1	04/17/2021 01:46	WG1653529
n-Butylbenzene	U		0.000157	0.00100	1	04/17/2021 01:46	WG1653529
sec-Butylbenzene	U		0.000125	0.00100	1	04/17/2021 01:46	WG1653529
Carbon disulfide	U		0.0000962	0.00100	1	04/17/2021 01:46	WG1653529
Carbon tetrachloride	U		0.000128	0.00100	1	04/17/2021 01:46	WG1653529

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/17/2021 01:46	WG1653529
Chlorodibromomethane	U		0.000140	0.00100	1	04/17/2021 01:46	WG1653529
Chloroethane	U		0.000192	0.00500	1	04/17/2021 01:46	WG1653529
Chloroform	U		0.000111	0.00500	1	04/17/2021 01:46	WG1653529
Chloromethane	U	J4	0.000960	0.00250	1	04/17/2021 01:46	WG1653529
1,2-Dibromoethane	U		0.000126	0.00100	1	04/17/2021 01:46	WG1653529
1,1-Dichloroethane	U		0.000100	0.00100	1	04/17/2021 01:46	WG1653529
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/17/2021 01:46	WG1653529
1,1-Dichloroethene	U		0.000188	0.00100	1	04/17/2021 01:46	WG1653529
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/17/2021 01:46	WG1653529
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/17/2021 01:46	WG1653529
1,2-Dichloropropane	U		0.000149	0.00100	1	04/17/2021 01:46	WG1653529
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/17/2021 01:46	WG1653529
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/17/2021 01:46	WG1653529
Ethylbenzene	U		0.000137	0.00100	1	04/17/2021 01:46	WG1653529
Isopropylbenzene	U		0.000105	0.00100	1	04/17/2021 01:46	WG1653529
p-Isopropyltoluene	U		0.000120	0.00100	1	04/17/2021 01:46	WG1653529
2-Butanone (MEK)	U		0.00119	0.0100	1	04/17/2021 01:46	WG1653529
2-Hexanone	U		0.000787	0.0100	1	04/17/2021 01:46	WG1653529
Methylene Chloride	U		0.000430	0.00500	1	04/17/2021 01:46	WG1653529
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/17/2021 01:46	WG1653529
Methyl tert-butyl ether	0.00102		0.000101	0.00100	1	04/17/2021 01:46	WG1653529
Naphthalene	U	J4	0.00100	0.00500	1	04/17/2021 01:46	WG1653529
n-Propylbenzene	U		0.0000993	0.00100	1	04/17/2021 01:46	WG1653529
Styrene	U		0.000118	0.00100	1	04/17/2021 01:46	WG1653529
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/17/2021 01:46	WG1653529
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/17/2021 01:46	WG1653529
Tetrachloroethene	U		0.000300	0.00100	1	04/17/2021 01:46	WG1653529
Toluene	U		0.000278	0.00100	1	04/17/2021 01:46	WG1653529
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/17/2021 01:46	WG1653529
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/17/2021 01:46	WG1653529
Trichloroethene	U		0.000190	0.00100	1	04/17/2021 01:46	WG1653529
1,2,4-Trimethylbenzene	0.000447	J	0.000322	0.00100	1	04/17/2021 01:46	WG1653529
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/17/2021 01:46	WG1653529
Vinyl chloride	U		0.000234	0.00100	1	04/17/2021 01:46	WG1653529
o-Xylene	U		0.000174	0.00100	1	04/17/2021 01:46	WG1653529
m&p-Xylene	U		0.000430	0.00200	1	04/17/2021 01:46	WG1653529
Xylenes, Total	U		0.000174	0.00300	1	04/17/2021 01:46	WG1653529
(S) Toluene-d8	*106*			*80.0-120*		*04/17/2021 01:46*	WG1653529
(S) 4-Bromofluorobenzene	*107*			*77.0-126*		*04/17/2021 01:46*	WG1653529
(S) 1,2-Dichloroethane-d4	*99.4*			*70.0-130*		*04/17/2021 01:46*	WG1653529

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	3.48		0.0247	0.100	1	04/21/2021 18:15	WG1655289
(S) o-Terphenyl	*103*			*31.0-160*		*04/21/2021 18:15*	WG1655289

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	9880		200	1	04/16/2021 16:30	WG1653093

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.930		0.0500	0.100	1	05/03/2021 13:35	WG1661579

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	2660		37.9	100	100	04/21/2021 18:43	WG1655391
Fluoride	2.58		0.320	0.750	5	04/21/2021 18:27	WG1655391
Sulfate	3770		59.4	500	100	04/21/2021 18:43	WG1655391

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00878		0.000180	0.00200	1	04/22/2021 10:58	WG1656370
Arsenic,Dissolved	0.00609		0.000180	0.00200	1	04/26/2021 08:46	WG1654935
Barium	0.0266		0.000381	0.0200	1	04/22/2021 10:58	WG1656370
Barium,Dissolved	0.0282		0.000381	0.0200	1	04/26/2021 08:46	WG1654935
Calcium	533		0.0936	1.00	1	04/22/2021 10:58	WG1656370
Chromium	0.00282		0.00124	0.00200	1	04/22/2021 10:58	WG1656370
Chromium,Dissolved	U		0.00124	0.00200	1	04/26/2021 08:46	WG1654935
Iron	0.335		0.0281	0.100	1	04/22/2021 10:58	WG1656370
Iron,Dissolved	U		0.0281	0.100	1	04/26/2021 08:46	WG1654935
Lead	U		0.00424	0.0100	5	04/22/2021 12:31	WG1656370
Lead,Dissolved	U		0.000849	0.00200	1	04/26/2021 08:46	WG1654935
Manganese	1.66		0.000704	0.00500	1	04/22/2021 10:58	WG1656370
Manganese,Dissolved	1.80	V	0.000704	0.00500	1	04/26/2021 08:46	WG1654935
Potassium	3.74		0.108	2.00	1	04/22/2021 10:58	WG1656370
Selenium	0.00169	J	0.000300	0.00200	1	04/22/2021 10:58	WG1656370
Selenium,Dissolved	0.00179	J	0.000300	0.00200	1	04/26/2021 08:46	WG1654935
Sodium	2380		1.88	10.0	5	04/22/2021 12:31	WG1656370

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/20/2021 11:50	WG1654300
(S) a,a,a-Trifluorotoluene(FID)	*97.8*			*78.0-120*		*04/20/2021 11:50*	WG1654300

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/17/2021 02:06	WG1653529
Benzene	U		0.0000941	0.00100	1	04/17/2021 02:06	WG1653529
Bromodichloromethane	U		0.000136	0.00100	1	04/17/2021 02:06	WG1653529
Bromoform	U		0.000129	0.00100	1	04/17/2021 02:06	WG1653529
Bromomethane	U		0.000605	0.00500	1	04/17/2021 02:06	WG1653529
n-Butylbenzene	U		0.000157	0.00100	1	04/17/2021 02:06	WG1653529
sec-Butylbenzene	U		0.000125	0.00100	1	04/17/2021 02:06	WG1653529
Carbon disulfide	U		0.0000962	0.00100	1	04/17/2021 02:06	WG1653529
Carbon tetrachloride	U		0.000128	0.00100	1	04/17/2021 02:06	WG1653529

MW-24A
Collected date/time: 04/13/21 15:30
L1339352

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/17/2021 02:06	WG1653529
Chlorodibromomethane	U		0.000140	0.00100	1	04/17/2021 02:06	WG1653529
Chloroethane	U		0.000192	0.00500	1	04/17/2021 02:06	WG1653529
Chloroform	U		0.000111	0.00500	1	04/17/2021 02:06	WG1653529
Chloromethane	U	J4	0.000960	0.00250	1	04/17/2021 02:06	WG1653529
1,2-Dibromoethane	U		0.000126	0.00100	1	04/17/2021 02:06	WG1653529
1,1-Dichloroethane	U		0.000100	0.00100	1	04/17/2021 02:06	WG1653529
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/17/2021 02:06	WG1653529
1,1-Dichloroethene	U		0.000188	0.00100	1	04/17/2021 02:06	WG1653529
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/17/2021 02:06	WG1653529
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/17/2021 02:06	WG1653529
1,2-Dichloropropane	U		0.000149	0.00100	1	04/17/2021 02:06	WG1653529
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/17/2021 02:06	WG1653529
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/17/2021 02:06	WG1653529
Ethylbenzene	U		0.000137	0.00100	1	04/17/2021 02:06	WG1653529
Isopropylbenzene	U		0.000105	0.00100	1	04/17/2021 02:06	WG1653529
p-Isopropyltoluene	U		0.000120	0.00100	1	04/17/2021 02:06	WG1653529
2-Butanone (MEK)	U		0.00119	0.0100	1	04/17/2021 02:06	WG1653529
2-Hexanone	U		0.000787	0.0100	1	04/17/2021 02:06	WG1653529
Methylene Chloride	U		0.000430	0.00500	1	04/17/2021 02:06	WG1653529
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/17/2021 02:06	WG1653529
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/17/2021 02:06	WG1653529
Naphthalene	U	J4	0.00100	0.00500	1	04/17/2021 02:06	WG1653529
n-Propylbenzene	U		0.0000993	0.00100	1	04/17/2021 02:06	WG1653529
Styrene	U		0.000118	0.00100	1	04/17/2021 02:06	WG1653529
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/17/2021 02:06	WG1653529
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/17/2021 02:06	WG1653529
Tetrachloroethene	U		0.000300	0.00100	1	04/17/2021 02:06	WG1653529
Toluene	U		0.000278	0.00100	1	04/17/2021 02:06	WG1653529
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/17/2021 02:06	WG1653529
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/17/2021 02:06	WG1653529
Trichloroethene	U		0.000190	0.00100	1	04/17/2021 02:06	WG1653529
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/17/2021 02:06	WG1653529
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/17/2021 02:06	WG1653529
Vinyl chloride	U		0.000234	0.00100	1	04/17/2021 02:06	WG1653529
o-Xylene	U		0.000174	0.00100	1	04/17/2021 02:06	WG1653529
m&p-Xylene	U		0.000430	0.00200	1	04/17/2021 02:06	WG1653529
Xylenes, Total	U		0.000174	0.00300	1	04/17/2021 02:06	WG1653529
(S) Toluene-d8	*108*			*80.0-120*		*04/17/2021 02:06*	WG1653529
(S) 4-Bromofluorobenzene	*107*			*77.0-126*		*04/17/2021 02:06*	WG1653529
(S) 1,2-Dichloroethane-d4	*99.7*			*70.0-130*		*04/17/2021 02:06*	WG1653529

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	1.25		0.0247	0.100	1	04/23/2021 12:11	WG1655289
(S) o-Terphenyl	*86.5*			*31.0-160*		*04/23/2021 12:11*	WG1655289

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	5940		200	1	04/16/2021 18:49	WG1653096

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	4.22		0.250	0.500	5	05/03/2021 13:36	WG1661579

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	2490		37.9	100	100	04/21/2021 19:16	WG1655391
Fluoride	5.61		0.0640	0.150	1	04/21/2021 19:00	WG1655391
Sulfate	2360		59.4	500	100	04/21/2021 19:16	WG1655391

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00548		0.000180	0.00200	1	04/22/2021 11:01	WG1656370
Arsenic,Dissolved	0.00445		0.000180	0.00200	1	04/26/2021 08:59	WG1654935
Barium	0.0114	J	0.000381	0.0200	1	04/22/2021 11:01	WG1656370
Barium,Dissolved	0.0151	J	0.000381	0.0200	1	04/26/2021 08:59	WG1654935
Calcium	651		0.0936	1.00	1	04/22/2021 11:01	WG1656370
Chromium	0.00175	J	0.00124	0.00200	1	04/22/2021 11:01	WG1656370
Chromium,Dissolved	U		0.00124	0.00200	1	04/26/2021 08:59	WG1654935
Iron	0.730		0.0281	0.100	1	04/22/2021 11:01	WG1656370
Iron,Dissolved	U		0.0281	0.100	1	04/26/2021 08:59	WG1654935
Lead	U		0.00424	0.0100	5	04/22/2021 12:34	WG1656370
Lead,Dissolved	U		0.000849	0.00200	1	04/26/2021 08:59	WG1654935
Manganese	0.952		0.000704	0.00500	1	04/22/2021 11:01	WG1656370
Manganese,Dissolved	1.02		0.000704	0.00500	1	04/26/2021 08:59	WG1654935
Potassium	6.98		0.108	2.00	1	04/22/2021 11:01	WG1656370
Selenium	0.00102	J	0.000300	0.00200	1	04/22/2021 11:01	WG1656370
Selenium,Dissolved	0.00151	J	0.000300	0.00200	1	04/26/2021 08:59	WG1654935
Sodium	1740		1.88	10.0	5	04/22/2021 12:34	WG1656370

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	0.0371	B J	0.0314	0.100	1	04/20/2021 12:11	WG1654300
(S) a,a,a-Trifluorotoluene(FID)	*97.7*			*78.0-120*		*04/20/2021 12:11*	WG1654300

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0113	0.0500	1	04/17/2021 02:27	WG1653529
Benzene	U		0.0000941	0.00100	1	04/17/2021 02:27	WG1653529
Bromodichloromethane	U		0.000136	0.00100	1	04/17/2021 02:27	WG1653529
Bromoform	U		0.000129	0.00100	1	04/17/2021 02:27	WG1653529
Bromomethane	U		0.000605	0.00500	1	04/17/2021 02:27	WG1653529
n-Butylbenzene	U		0.000157	0.00100	1	04/17/2021 02:27	WG1653529
sec-Butylbenzene	U		0.000125	0.00100	1	04/17/2021 02:27	WG1653529
Carbon disulfide	U		0.0000962	0.00100	1	04/17/2021 02:27	WG1653529
Carbon tetrachloride	U		0.000128	0.00100	1	04/17/2021 02:27	WG1653529

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/17/2021 02:27	WG1653529
Chlorodibromomethane	U		0.000140	0.00100	1	04/17/2021 02:27	WG1653529
Chloroethane	U		0.000192	0.00500	1	04/17/2021 02:27	WG1653529
Chloroform	U		0.000111	0.00500	1	04/17/2021 02:27	WG1653529
Chloromethane	U	J4	0.000960	0.00250	1	04/17/2021 02:27	WG1653529
1,2-Dibromoethane	U		0.000126	0.00100	1	04/17/2021 02:27	WG1653529
1,1-Dichloroethane	U		0.000100	0.00100	1	04/17/2021 02:27	WG1653529
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/17/2021 02:27	WG1653529
1,1-Dichloroethene	U		0.000188	0.00100	1	04/17/2021 02:27	WG1653529
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/17/2021 02:27	WG1653529
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/17/2021 02:27	WG1653529
1,2-Dichloropropane	U		0.000149	0.00100	1	04/17/2021 02:27	WG1653529
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/17/2021 02:27	WG1653529
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/17/2021 02:27	WG1653529
Ethylbenzene	U		0.000137	0.00100	1	04/17/2021 02:27	WG1653529
Isopropylbenzene	U		0.000105	0.00100	1	04/17/2021 02:27	WG1653529
p-Isopropyltoluene	U		0.000120	0.00100	1	04/17/2021 02:27	WG1653529
2-Butanone (MEK)	U		0.00119	0.0100	1	04/17/2021 02:27	WG1653529
2-Hexanone	U		0.000787	0.0100	1	04/17/2021 02:27	WG1653529
Methylene Chloride	U		0.000430	0.00500	1	04/17/2021 02:27	WG1653529
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/17/2021 02:27	WG1653529
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/17/2021 02:27	WG1653529
Naphthalene	U	J4	0.00100	0.00500	1	04/17/2021 02:27	WG1653529
n-Propylbenzene	U		0.0000993	0.00100	1	04/17/2021 02:27	WG1653529
Styrene	U		0.000118	0.00100	1	04/17/2021 02:27	WG1653529
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/17/2021 02:27	WG1653529
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/17/2021 02:27	WG1653529
Tetrachloroethene	U		0.000300	0.00100	1	04/17/2021 02:27	WG1653529
Toluene	U		0.000278	0.00100	1	04/17/2021 02:27	WG1653529
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/17/2021 02:27	WG1653529
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/17/2021 02:27	WG1653529
Trichloroethene	U		0.000190	0.00100	1	04/17/2021 02:27	WG1653529
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/17/2021 02:27	WG1653529
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/17/2021 02:27	WG1653529
Vinyl chloride	U		0.000234	0.00100	1	04/17/2021 02:27	WG1653529
o-Xylene	U		0.000174	0.00100	1	04/17/2021 02:27	WG1653529
m&p-Xylene	U		0.000430	0.00200	1	04/17/2021 02:27	WG1653529
Xylenes, Total	U		0.000174	0.00300	1	04/17/2021 02:27	WG1653529
(S) Toluene-d8	*105*			*80.0-120*		*04/17/2021 02:27*	WG1653529
(S) 4-Bromofluorobenzene	*108*			*77.0-126*		*04/17/2021 02:27*	WG1653529
(S) 1,2-Dichloroethane-d4	*99.3*			*70.0-130*		*04/17/2021 02:27*	WG1653529

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.362		0.0247	0.100	1	04/22/2021 09:28	WG1655289
(S) o-Terphenyl	*106*			*31.0-160*		*04/22/2021 09:28*	WG1655289

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	7740		200	1	04/16/2021 17:10	WG1653107

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	3.58		0.250	0.500	5	05/03/2021 13:41	WG1661579

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	4320		37.9	100	100	04/21/2021 20:22	WG1655391
Fluoride	2.19		0.0640	0.150	1	04/21/2021 20:05	WG1655391
Sulfate	2650		59.4	500	100	04/21/2021 20:22	WG1655391

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00751		0.000180	0.00200	1	04/22/2021 11:05	WG1656370
Arsenic,Dissolved	0.00605		0.000180	0.00200	1	04/26/2021 09:03	WG1654935
Barium	0.0209		0.000381	0.0200	1	04/22/2021 11:05	WG1656370
Barium,Dissolved	0.0217		0.000381	0.0200	1	04/26/2021 09:03	WG1654935
Calcium	925		0.0936	1.00	1	04/22/2021 11:05	WG1656370
Chromium	0.00202		0.00124	0.00200	1	04/22/2021 11:05	WG1656370
Chromium,Dissolved	U		0.00124	0.00200	1	04/26/2021 09:03	WG1654935
Iron	1.36		0.0281	0.100	1	04/22/2021 11:05	WG1656370
Iron,Dissolved	U		0.0281	0.100	1	04/26/2021 09:03	WG1654935
Lead	U		0.00424	0.0100	5	04/22/2021 12:38	WG1656370
Lead,Dissolved	U		0.000849	0.00200	1	04/26/2021 09:03	WG1654935
Manganese	2.44		0.000704	0.00500	1	04/22/2021 11:05	WG1656370
Manganese,Dissolved	2.59		0.000704	0.00500	1	04/26/2021 09:03	WG1654935
Potassium	15.6		0.108	2.00	1	04/22/2021 11:05	WG1656370
Selenium	0.000675	J	0.000300	0.00200	1	04/22/2021 11:05	WG1656370
Selenium,Dissolved	0.000336	J	0.000300	0.00200	1	04/26/2021 09:03	WG1654935
Sodium	2770		1.88	10.0	5	04/22/2021 12:38	WG1656370

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	0.186	B	0.0314	0.100	1	04/20/2021 12:33	WG1654300
(S) a,a,a-Trifluorotoluene(FID)	*97.9*			*78.0-120*		*04/20/2021 12:33*	WG1654300

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0113	0.0500	1	04/17/2021 02:47	WG1653529
Benzene	U		0.0000941	0.00100	1	04/17/2021 02:47	WG1653529
Bromodichloromethane	U		0.000136	0.00100	1	04/17/2021 02:47	WG1653529
Bromoform	U		0.000129	0.00100	1	04/17/2021 02:47	WG1653529
Bromomethane	U		0.000605	0.00500	1	04/17/2021 02:47	WG1653529
n-Butylbenzene	U		0.000157	0.00100	1	04/17/2021 02:47	WG1653529
sec-Butylbenzene	U		0.000125	0.00100	1	04/17/2021 02:47	WG1653529
Carbon disulfide	U		0.0000962	0.00100	1	04/17/2021 02:47	WG1653529
Carbon tetrachloride	U		0.000128	0.00100	1	04/17/2021 02:47	WG1653529

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/17/2021 02:47	WG1653529
Chlorodibromomethane	U		0.000140	0.00100	1	04/17/2021 02:47	WG1653529
Chloroethane	U		0.000192	0.00500	1	04/17/2021 02:47	WG1653529
Chloroform	U		0.000111	0.00500	1	04/17/2021 02:47	WG1653529
Chloromethane	U	J4	0.000960	0.00250	1	04/17/2021 02:47	WG1653529
1,2-Dibromoethane	U		0.000126	0.00100	1	04/17/2021 02:47	WG1653529
1,1-Dichloroethane	U		0.000100	0.00100	1	04/17/2021 02:47	WG1653529
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/17/2021 02:47	WG1653529
1,1-Dichloroethene	U		0.000188	0.00100	1	04/17/2021 02:47	WG1653529
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/17/2021 02:47	WG1653529
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/17/2021 02:47	WG1653529
1,2-Dichloropropane	U		0.000149	0.00100	1	04/17/2021 02:47	WG1653529
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/17/2021 02:47	WG1653529
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/17/2021 02:47	WG1653529
Ethylbenzene	U		0.000137	0.00100	1	04/17/2021 02:47	WG1653529
Isopropylbenzene	U		0.000105	0.00100	1	04/17/2021 02:47	WG1653529
p-Isopropyltoluene	U		0.000120	0.00100	1	04/17/2021 02:47	WG1653529
2-Butanone (MEK)	U		0.00119	0.0100	1	04/17/2021 02:47	WG1653529
2-Hexanone	U		0.000787	0.0100	1	04/17/2021 02:47	WG1653529
Methylene Chloride	U		0.000430	0.00500	1	04/17/2021 02:47	WG1653529
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/17/2021 02:47	WG1653529
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/17/2021 02:47	WG1653529
Naphthalene	U	J4	0.00100	0.00500	1	04/17/2021 02:47	WG1653529
n-Propylbenzene	U		0.0000993	0.00100	1	04/17/2021 02:47	WG1653529
Styrene	U		0.000118	0.00100	1	04/17/2021 02:47	WG1653529
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/17/2021 02:47	WG1653529
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/17/2021 02:47	WG1653529
Tetrachloroethene	U		0.000300	0.00100	1	04/17/2021 02:47	WG1653529
Toluene	U		0.000278	0.00100	1	04/17/2021 02:47	WG1653529
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/17/2021 02:47	WG1653529
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/17/2021 02:47	WG1653529
Trichloroethene	U		0.000190	0.00100	1	04/17/2021 02:47	WG1653529
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/17/2021 02:47	WG1653529
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/17/2021 02:47	WG1653529
Vinyl chloride	U		0.000234	0.00100	1	04/17/2021 02:47	WG1653529
o-Xylene	U		0.000174	0.00100	1	04/17/2021 02:47	WG1653529
m&p-Xylene	U		0.000430	0.00200	1	04/17/2021 02:47	WG1653529
Xylenes, Total	U		0.000174	0.00300	1	04/17/2021 02:47	WG1653529
(S) Toluene-d8	*105*			*80.0-120*		*04/17/2021 02:47*	WG1653529
(S) 4-Bromofluorobenzene	*110*			*77.0-126*		*04/17/2021 02:47*	WG1653529
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*04/17/2021 02:47*	WG1653529

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.666		0.0247	0.100	1	04/21/2021 19:31	WG1655289
(S) o-Terphenyl	*107*			*31.0-160*		*04/21/2021 19:31*	WG1655289

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	9800		200	1	04/16/2021 16:30	WG1653093

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	1.95		0.0500	0.100	1	05/03/2021 14:08	WG1661579

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	2660		37.9	100	100	04/21/2021 20:55	WG1655391
Fluoride	2.99		0.0640	0.150	1	04/21/2021 20:38	WG1655391
Sulfate	3780		59.4	500	100	04/21/2021 20:55	WG1655391

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.110		0.000180	0.00200	1	04/22/2021 19:06	WG1656780
Arsenic,Dissolved	0.0773		0.000180	0.00200	1	04/26/2021 09:06	WG1654935
Barium	0.0154	J	0.000381	0.0200	1	04/22/2021 19:06	WG1656780
Barium,Dissolved	0.0142	J	0.000381	0.0200	1	04/26/2021 09:06	WG1654935
Calcium	635		0.0936	1.00	1	04/22/2021 19:06	WG1656780
Chromium	U		0.00124	0.00200	1	04/22/2021 19:06	WG1656780
Chromium,Dissolved	U		0.00124	0.00200	1	04/26/2021 09:06	WG1654935
Iron	13.1		0.0281	0.100	1	04/22/2021 19:06	WG1656780
Iron,Dissolved	0.0711	J	0.0281	0.100	1	04/26/2021 09:06	WG1654935
Lead	U		0.000849	0.00200	1	04/22/2021 19:06	WG1656780
Lead,Dissolved	U		0.000849	0.00200	1	04/26/2021 09:06	WG1654935
Manganese	3.04	V	0.000704	0.00500	1	04/22/2021 19:06	WG1656780
Manganese,Dissolved	3.20		0.000704	0.00500	1	04/26/2021 09:06	WG1654935
Potassium	6.42		0.108	2.00	1	04/22/2021 19:06	WG1656780
Selenium	0.00203		0.000300	0.00200	1	04/22/2021 19:06	WG1656780
Selenium,Dissolved	0.00142	J	0.000300	0.00200	1	04/26/2021 09:06	WG1654935
Sodium	2530		1.88	10.0	5	04/22/2021 19:23	WG1656780

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	1.38		0.0314	0.100	1	04/20/2021 12:55	WG1654300
(S) a,a,a-Trifluorotoluene(FID)	*95.4*			*78.0-120*		*04/20/2021 12:55*	WG1654300

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0113	0.0500	1	04/17/2021 03:07	WG1653529
Benzene	U		0.0000941	0.00100	1	04/17/2021 03:07	WG1653529
Bromodichloromethane	U		0.000136	0.00100	1	04/17/2021 03:07	WG1653529
Bromoform	U		0.000129	0.00100	1	04/17/2021 03:07	WG1653529
Bromomethane	U		0.000605	0.00500	1	04/17/2021 03:07	WG1653529
n-Butylbenzene	U		0.000157	0.00100	1	04/17/2021 03:07	WG1653529
sec-Butylbenzene	U		0.000125	0.00100	1	04/17/2021 03:07	WG1653529
Carbon disulfide	U		0.0000962	0.00100	1	04/17/2021 03:07	WG1653529
Carbon tetrachloride	U		0.000128	0.00100	1	04/17/2021 03:07	WG1653529

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/17/2021 03:07	WG1653529
Chlorodibromomethane	U		0.000140	0.00100	1	04/17/2021 03:07	WG1653529
Chloroethane	U		0.000192	0.00500	1	04/17/2021 03:07	WG1653529
Chloroform	U		0.000111	0.00500	1	04/17/2021 03:07	WG1653529
Chloromethane	U	J4	0.000960	0.00250	1	04/17/2021 03:07	WG1653529
1,2-Dibromoethane	U		0.000126	0.00100	1	04/17/2021 03:07	WG1653529
1,1-Dichloroethane	U		0.000100	0.00100	1	04/17/2021 03:07	WG1653529
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/17/2021 03:07	WG1653529
1,1-Dichloroethene	U		0.000188	0.00100	1	04/17/2021 03:07	WG1653529
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/17/2021 03:07	WG1653529
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/17/2021 03:07	WG1653529
1,2-Dichloropropane	U		0.000149	0.00100	1	04/17/2021 03:07	WG1653529
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/17/2021 03:07	WG1653529
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/17/2021 03:07	WG1653529
Ethylbenzene	U		0.000137	0.00100	1	04/17/2021 03:07	WG1653529
Isopropylbenzene	U		0.000105	0.00100	1	04/17/2021 03:07	WG1653529
p-Isopropyltoluene	U		0.000120	0.00100	1	04/17/2021 03:07	WG1653529
2-Butanone (MEK)	U		0.00119	0.0100	1	04/17/2021 03:07	WG1653529
2-Hexanone	U		0.000787	0.0100	1	04/17/2021 03:07	WG1653529
Methylene Chloride	U		0.000430	0.00500	1	04/17/2021 03:07	WG1653529
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/17/2021 03:07	WG1653529
Methyl tert-butyl ether	0.00129		0.000101	0.00100	1	04/17/2021 03:07	WG1653529
Naphthalene	U	J4	0.00100	0.00500	1	04/17/2021 03:07	WG1653529
n-Propylbenzene	U		0.0000993	0.00100	1	04/17/2021 03:07	WG1653529
Styrene	U		0.000118	0.00100	1	04/17/2021 03:07	WG1653529
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/17/2021 03:07	WG1653529
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/17/2021 03:07	WG1653529
Tetrachloroethene	U		0.000300	0.00100	1	04/17/2021 03:07	WG1653529
Toluene	U		0.000278	0.00100	1	04/17/2021 03:07	WG1653529
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/17/2021 03:07	WG1653529
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/17/2021 03:07	WG1653529
Trichloroethene	U		0.000190	0.00100	1	04/17/2021 03:07	WG1653529
1,2,4-Trimethylbenzene	0.000378	J	0.000322	0.00100	1	04/17/2021 03:07	WG1653529
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/17/2021 03:07	WG1653529
Vinyl chloride	U		0.000234	0.00100	1	04/17/2021 03:07	WG1653529
o-Xylene	U		0.000174	0.00100	1	04/17/2021 03:07	WG1653529
m&p-Xylene	U		0.000430	0.00200	1	04/17/2021 03:07	WG1653529
Xylenes, Total	U		0.000174	0.00300	1	04/17/2021 03:07	WG1653529
(S) Toluene-d8	*106*			*80.0-120*		*04/17/2021 03:07*	WG1653529
(S) 4-Bromofluorobenzene	*111*			*77.0-126*		*04/17/2021 03:07*	WG1653529
(S) 1,2-Dichloroethane-d4	*98.9*			*70.0-130*		*04/17/2021 03:07*	WG1653529

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	4.76		0.0247	0.100	1	04/21/2021 19:57	WG1655289
(S) o-Terphenyl	*105*			*31.0-160*		*04/21/2021 19:57*	WG1655289

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4100		100	1	04/16/2021 16:30	WG1653093

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0500	0.100	1	05/03/2021 13:44	WG1661579

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	822		37.9	100	100	04/21/2021 21:27	WG1655391
Fluoride	0.950		0.0640	0.150	1	04/21/2021 21:11	WG1655391
Sulfate	2170		59.4	500	100	04/21/2021 21:27	WG1655391

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00169	J	0.000180	0.00200	1	04/22/2021 20:13	WG1656780
Arsenic,Dissolved	0.00122	J	0.000180	0.00200	1	04/26/2021 09:09	WG1654935
Barium	0.0151	J	0.000381	0.0200	1	04/22/2021 20:13	WG1656780
Barium,Dissolved	0.0161	J	0.000381	0.0200	1	04/26/2021 09:09	WG1654935
Calcium	590		0.0936	1.00	1	04/22/2021 20:13	WG1656780
Chromium	U		0.00124	0.00200	1	04/22/2021 20:13	WG1656780
Chromium,Dissolved	U		0.00124	0.00200	1	04/26/2021 09:09	WG1654935
Iron	4.34		0.0281	0.100	1	04/22/2021 20:13	WG1656780
Iron,Dissolved	U		0.0281	0.100	1	04/26/2021 09:09	WG1654935
Lead	U		0.000849	0.00200	1	04/22/2021 20:13	WG1656780
Lead,Dissolved	U		0.000849	0.00200	1	04/26/2021 09:09	WG1654935
Manganese	0.669		0.000704	0.00500	1	04/22/2021 20:13	WG1656780
Manganese,Dissolved	0.706		0.000704	0.00500	1	04/26/2021 09:09	WG1654935
Potassium	11.6		0.108	2.00	1	04/22/2021 20:13	WG1656780
Selenium	U		0.000300	0.00200	1	04/22/2021 20:13	WG1656780
Selenium,Dissolved	U		0.000300	0.00200	1	04/26/2021 09:09	WG1654935
Sodium	680		0.376	2.00	1	04/22/2021 20:13	WG1656780

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0516	B J	0.0314	0.100	1	04/20/2021 13:56	WG1654300
(S) a,a,a-Trifluorotoluene(FID)	*98.4*			*78.0-120*		*04/20/2021 13:56*	WG1654300

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/17/2021 03:28	WG1653529
Benzene	U		0.0000941	0.00100	1	04/17/2021 03:28	WG1653529
Bromodichloromethane	U		0.000136	0.00100	1	04/17/2021 03:28	WG1653529
Bromoform	U		0.000129	0.00100	1	04/17/2021 03:28	WG1653529
Bromomethane	U		0.000605	0.00500	1	04/17/2021 03:28	WG1653529
n-Butylbenzene	U		0.000157	0.00100	1	04/17/2021 03:28	WG1653529
sec-Butylbenzene	U		0.000125	0.00100	1	04/17/2021 03:28	WG1653529
Carbon disulfide	U		0.0000962	0.00100	1	04/17/2021 03:28	WG1653529
Carbon tetrachloride	U		0.000128	0.00100	1	04/17/2021 03:28	WG1653529

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/17/2021 03:28	WG1653529
Chlorodibromomethane	U		0.000140	0.00100	1	04/17/2021 03:28	WG1653529
Chloroethane	U		0.000192	0.00500	1	04/17/2021 03:28	WG1653529
Chloroform	U		0.000111	0.00500	1	04/17/2021 03:28	WG1653529
Chloromethane	U	J4	0.000960	0.00250	1	04/17/2021 03:28	WG1653529
1,2-Dibromoethane	U		0.000126	0.00100	1	04/17/2021 03:28	WG1653529
1,1-Dichloroethane	U		0.000100	0.00100	1	04/17/2021 03:28	WG1653529
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/17/2021 03:28	WG1653529
1,1-Dichloroethene	U		0.000188	0.00100	1	04/17/2021 03:28	WG1653529
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/17/2021 03:28	WG1653529
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/17/2021 03:28	WG1653529
1,2-Dichloropropane	U		0.000149	0.00100	1	04/17/2021 03:28	WG1653529
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/17/2021 03:28	WG1653529
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/17/2021 03:28	WG1653529
Ethylbenzene	U		0.000137	0.00100	1	04/17/2021 03:28	WG1653529
Isopropylbenzene	U		0.000105	0.00100	1	04/17/2021 03:28	WG1653529
p-Isopropyltoluene	U		0.000120	0.00100	1	04/17/2021 03:28	WG1653529
2-Butanone (MEK)	U		0.00119	0.0100	1	04/17/2021 03:28	WG1653529
2-Hexanone	U		0.000787	0.0100	1	04/17/2021 03:28	WG1653529
Methylene Chloride	U		0.000430	0.00500	1	04/17/2021 03:28	WG1653529
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/17/2021 03:28	WG1653529
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/17/2021 03:28	WG1653529
Naphthalene	U	J4	0.00100	0.00500	1	04/17/2021 03:28	WG1653529
n-Propylbenzene	U		0.0000993	0.00100	1	04/17/2021 03:28	WG1653529
Styrene	U		0.000118	0.00100	1	04/17/2021 03:28	WG1653529
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/17/2021 03:28	WG1653529
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/17/2021 03:28	WG1653529
Tetrachloroethene	U		0.000300	0.00100	1	04/17/2021 03:28	WG1653529
Toluene	U		0.000278	0.00100	1	04/17/2021 03:28	WG1653529
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/17/2021 03:28	WG1653529
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/17/2021 03:28	WG1653529
Trichloroethene	U		0.000190	0.00100	1	04/17/2021 03:28	WG1653529
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/17/2021 03:28	WG1653529
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/17/2021 03:28	WG1653529
Vinyl chloride	U		0.000234	0.00100	1	04/17/2021 03:28	WG1653529
o-Xylene	U		0.000174	0.00100	1	04/17/2021 03:28	WG1653529
m&p-Xylene	U		0.000430	0.00200	1	04/17/2021 03:28	WG1653529
Xylenes, Total	U		0.000174	0.00300	1	04/17/2021 03:28	WG1653529
(S) Toluene-d8	*106*			*80.0-120*		*04/17/2021 03:28*	WG1653529
(S) 4-Bromofluorobenzene	*108*			*77.0-126*		*04/17/2021 03:28*	WG1653529
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*04/17/2021 03:28*	WG1653529

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.128		0.0247	0.100	1	04/22/2021 08:58	WG1655289
(S) o-Terphenyl	*101*			*31.0-160*		*04/22/2021 08:58*	WG1655289

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	6300		100	1	04/16/2021 16:30	WG1653093

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.0500	0.100	1	05/03/2021 15:52	WG1661715

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	1640		37.9	100	100	04/21/2021 22:00	WG1655391
Fluoride	1.16		0.0640	0.150	1	04/21/2021 21:44	WG1655391
Sulfate	2340		59.4	500	100	04/21/2021 22:00	WG1655391

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00716		0.000180	0.00200	1	04/22/2021 20:17	WG1656780
Arsenic,Dissolved	0.00690		0.000180	0.00200	1	04/26/2021 09:20	WG1654935
Barium	0.0110	J	0.000381	0.0200	1	04/22/2021 20:17	WG1656780
Barium,Dissolved	0.0117	J	0.000381	0.0200	1	04/26/2021 09:20	WG1654935
Calcium	428		0.0936	1.00	1	04/22/2021 20:17	WG1656780
Chromium	0.00295		0.00124	0.00200	1	04/22/2021 20:17	WG1656780
Chromium,Dissolved	U		0.00124	0.00200	1	04/26/2021 09:20	WG1654935
Iron	0.0286	B J	0.0281	0.100	1	04/22/2021 20:17	WG1656780
Iron,Dissolved	U		0.0281	0.100	1	04/26/2021 09:20	WG1654935
Lead	U		0.000849	0.00200	1	04/22/2021 20:17	WG1656780
Lead,Dissolved	U		0.000849	0.00200	1	04/26/2021 09:20	WG1654935
Manganese	0.983		0.000704	0.00500	1	04/22/2021 20:17	WG1656780
Manganese,Dissolved	1.01		0.000704	0.00500	1	04/26/2021 09:20	WG1654935
Potassium	3.22		0.108	2.00	1	04/22/2021 20:17	WG1656780
Selenium	0.000381	J	0.000300	0.00200	1	04/22/2021 20:17	WG1656780
Selenium,Dissolved	U		0.000300	0.00200	1	04/26/2021 09:20	WG1654935
Sodium	1290		1.88	10.0	5	04/22/2021 20:49	WG1656780

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	0.0750	B J	0.0314	0.100	1	04/20/2021 14:17	WG1654300
(S) a,a,a-Trifluorotoluene(FID)	*98.2*			*78.0-120*		*04/20/2021 14:17*	WG1654300

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0113	0.0500	1	04/17/2021 03:49	WG1653529
Benzene	U		0.0000941	0.00100	1	04/17/2021 03:49	WG1653529
Bromodichloromethane	U		0.000136	0.00100	1	04/17/2021 03:49	WG1653529
Bromoform	U		0.000129	0.00100	1	04/17/2021 03:49	WG1653529
Bromomethane	U		0.000605	0.00500	1	04/17/2021 03:49	WG1653529
n-Butylbenzene	U		0.000157	0.00100	1	04/17/2021 03:49	WG1653529
sec-Butylbenzene	U		0.000125	0.00100	1	04/17/2021 03:49	WG1653529
Carbon disulfide	U		0.0000962	0.00100	1	04/17/2021 03:49	WG1653529
Carbon tetrachloride	U		0.000128	0.00100	1	04/17/2021 03:49	WG1653529

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/17/2021 03:49	WG1653529
Chlorodibromomethane	U		0.000140	0.00100	1	04/17/2021 03:49	WG1653529
Chloroethane	U		0.000192	0.00500	1	04/17/2021 03:49	WG1653529
Chloroform	U		0.000111	0.00500	1	04/17/2021 03:49	WG1653529
Chloromethane	U	J4	0.000960	0.00250	1	04/17/2021 03:49	WG1653529
1,2-Dibromoethane	U		0.000126	0.00100	1	04/17/2021 03:49	WG1653529
1,1-Dichloroethane	U		0.000100	0.00100	1	04/17/2021 03:49	WG1653529
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/17/2021 03:49	WG1653529
1,1-Dichloroethene	U		0.000188	0.00100	1	04/17/2021 03:49	WG1653529
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/17/2021 03:49	WG1653529
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/17/2021 03:49	WG1653529
1,2-Dichloropropane	U		0.000149	0.00100	1	04/17/2021 03:49	WG1653529
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/17/2021 03:49	WG1653529
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/17/2021 03:49	WG1653529
Ethylbenzene	U		0.000137	0.00100	1	04/17/2021 03:49	WG1653529
Isopropylbenzene	U		0.000105	0.00100	1	04/17/2021 03:49	WG1653529
p-Isopropyltoluene	U		0.000120	0.00100	1	04/17/2021 03:49	WG1653529
2-Butanone (MEK)	U		0.00119	0.0100	1	04/17/2021 03:49	WG1653529
2-Hexanone	U		0.000787	0.0100	1	04/17/2021 03:49	WG1653529
Methylene Chloride	U		0.000430	0.00500	1	04/17/2021 03:49	WG1653529
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/17/2021 03:49	WG1653529
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/17/2021 03:49	WG1653529
Naphthalene	U	J4	0.00100	0.00500	1	04/17/2021 03:49	WG1653529
n-Propylbenzene	U		0.0000993	0.00100	1	04/17/2021 03:49	WG1653529
Styrene	U		0.000118	0.00100	1	04/17/2021 03:49	WG1653529
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/17/2021 03:49	WG1653529
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/17/2021 03:49	WG1653529
Tetrachloroethene	U		0.000300	0.00100	1	04/17/2021 03:49	WG1653529
Toluene	U		0.000278	0.00100	1	04/17/2021 03:49	WG1653529
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/17/2021 03:49	WG1653529
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/17/2021 03:49	WG1653529
Trichloroethene	U		0.000190	0.00100	1	04/17/2021 03:49	WG1653529
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/17/2021 03:49	WG1653529
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/17/2021 03:49	WG1653529
Vinyl chloride	U		0.000234	0.00100	1	04/17/2021 03:49	WG1653529
o-Xylene	U		0.000174	0.00100	1	04/17/2021 03:49	WG1653529
m&p-Xylene	U		0.000430	0.00200	1	04/17/2021 03:49	WG1653529
Xylenes, Total	U		0.000174	0.00300	1	04/17/2021 03:49	WG1653529
(S) Toluene-d8	*104*			*80.0-120*		*04/17/2021 03:49*	WG1653529
(S) 4-Bromofluorobenzene	*107*			*77.0-126*		*04/17/2021 03:49*	WG1653529
(S) 1,2-Dichloroethane-d4	*98.8*			*70.0-130*		*04/17/2021 03:49*	WG1653529

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.410		0.0247	0.100	1	04/21/2021 20:48	WG1655289
(S) o-Terphenyl	*106*			*31.0-160*		*04/21/2021 20:48*	WG1655289

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3620		100	1	04/16/2021 16:30	WG1653093

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U	J6	0.0500	0.100	1	05/03/2021 15:54	WG1661715

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1170		37.9	100	100	04/21/2021 22:33	WG1655391
Fluoride	0.804		0.0640	0.150	1	04/21/2021 22:17	WG1655391
Sulfate	1650		59.4	500	100	04/21/2021 22:33	WG1655391

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0142		0.000180	0.00200	1	04/22/2021 20:21	WG1656780
Arsenic,Dissolved	0.0145		0.000180	0.00200	1	04/26/2021 09:24	WG1654935
Barium	0.0143	J	0.000381	0.0200	1	04/22/2021 20:21	WG1656780
Barium,Dissolved	0.0139	J	0.000381	0.0200	1	04/26/2021 09:24	WG1654935
Calcium	431		0.0936	1.00	1	04/22/2021 20:21	WG1656780
Chromium	0.00169	J	0.00124	0.00200	1	04/22/2021 20:21	WG1656780
Chromium,Dissolved	U		0.00124	0.00200	1	04/26/2021 09:24	WG1654935
Iron	0.342	B	0.0281	0.100	1	04/22/2021 20:21	WG1656780
Iron,Dissolved	U		0.0281	0.100	1	04/26/2021 09:24	WG1654935
Lead	U		0.000849	0.00200	1	04/22/2021 20:21	WG1656780
Lead,Dissolved	U		0.000849	0.00200	1	04/26/2021 09:24	WG1654935
Manganese	2.66		0.000704	0.00500	1	04/22/2021 20:21	WG1656780
Manganese,Dissolved	2.71		0.000704	0.00500	1	04/26/2021 09:24	WG1654935
Potassium	3.51		0.108	2.00	1	04/22/2021 20:21	WG1656780
Selenium	U		0.000300	0.00200	1	04/22/2021 20:21	WG1656780
Selenium,Dissolved	U		0.000300	0.00200	1	04/26/2021 09:24	WG1654935
Sodium	964		0.376	2.00	1	04/22/2021 20:21	WG1656780

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.712		0.0314	0.100	1	04/20/2021 14:39	WG1654300
(S) a,a,a-Trifluorotoluene(FID)	*98.2*			*78.0-120*		*04/20/2021 14:39*	WG1654300

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/17/2021 04:10	WG1653529
Benzene	U		0.0000941	0.00100	1	04/17/2021 04:10	WG1653529
Bromodichloromethane	U		0.000136	0.00100	1	04/17/2021 04:10	WG1653529
Bromoform	U		0.000129	0.00100	1	04/17/2021 04:10	WG1653529
Bromomethane	U		0.000605	0.00500	1	04/17/2021 04:10	WG1653529
n-Butylbenzene	U		0.000157	0.00100	1	04/17/2021 04:10	WG1653529
sec-Butylbenzene	U		0.000125	0.00100	1	04/17/2021 04:10	WG1653529
Carbon disulfide	U		0.0000962	0.00100	1	04/17/2021 04:10	WG1653529
Carbon tetrachloride	U		0.000128	0.00100	1	04/17/2021 04:10	WG1653529

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/17/2021 04:10	WG1653529
Chlorodibromomethane	U		0.000140	0.00100	1	04/17/2021 04:10	WG1653529
Chloroethane	U		0.000192	0.00500	1	04/17/2021 04:10	WG1653529
Chloroform	U		0.000111	0.00500	1	04/17/2021 04:10	WG1653529
Chloromethane	U	J4	0.000960	0.00250	1	04/17/2021 04:10	WG1653529
1,2-Dibromoethane	U		0.000126	0.00100	1	04/17/2021 04:10	WG1653529
1,1-Dichloroethane	U		0.000100	0.00100	1	04/17/2021 04:10	WG1653529
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/17/2021 04:10	WG1653529
1,1-Dichloroethene	U		0.000188	0.00100	1	04/17/2021 04:10	WG1653529
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/17/2021 04:10	WG1653529
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/17/2021 04:10	WG1653529
1,2-Dichloropropane	U		0.000149	0.00100	1	04/17/2021 04:10	WG1653529
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/17/2021 04:10	WG1653529
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/17/2021 04:10	WG1653529
Ethylbenzene	U		0.000137	0.00100	1	04/17/2021 04:10	WG1653529
Isopropylbenzene	U		0.000105	0.00100	1	04/17/2021 04:10	WG1653529
p-Isopropyltoluene	U		0.000120	0.00100	1	04/17/2021 04:10	WG1653529
2-Butanone (MEK)	U		0.00119	0.0100	1	04/17/2021 04:10	WG1653529
2-Hexanone	U		0.000787	0.0100	1	04/17/2021 04:10	WG1653529
Methylene Chloride	U		0.000430	0.00500	1	04/17/2021 04:10	WG1653529
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/17/2021 04:10	WG1653529
Methyl tert-butyl ether	0.00124		0.000101	0.00100	1	04/17/2021 04:10	WG1653529
Naphthalene	U	J4	0.00100	0.00500	1	04/17/2021 04:10	WG1653529
n-Propylbenzene	U		0.0000993	0.00100	1	04/17/2021 04:10	WG1653529
Styrene	U		0.000118	0.00100	1	04/17/2021 04:10	WG1653529
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/17/2021 04:10	WG1653529
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/17/2021 04:10	WG1653529
Tetrachloroethene	U		0.000300	0.00100	1	04/17/2021 04:10	WG1653529
Toluene	U		0.000278	0.00100	1	04/17/2021 04:10	WG1653529
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/17/2021 04:10	WG1653529
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/17/2021 04:10	WG1653529
Trichloroethene	U		0.000190	0.00100	1	04/17/2021 04:10	WG1653529
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/17/2021 04:10	WG1653529
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/17/2021 04:10	WG1653529
Vinyl chloride	U		0.000234	0.00100	1	04/17/2021 04:10	WG1653529
o-Xylene	U		0.000174	0.00100	1	04/17/2021 04:10	WG1653529
m&p-Xylene	U		0.000430	0.00200	1	04/17/2021 04:10	WG1653529
Xylenes, Total	U		0.000174	0.00300	1	04/17/2021 04:10	WG1653529
(S) Toluene-d8	*105*			*80.0-120*		*04/17/2021 04:10*	WG1653529
(S) 4-Bromofluorobenzene	*109*			*77.0-126*		*04/17/2021 04:10*	WG1653529
(S) 1,2-Dichloroethane-d4	*98.7*			*70.0-130*		*04/17/2021 04:10*	WG1653529

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	2.00		0.0247	0.100	1	04/21/2021 21:14	WG1655289
(S) o-Terphenyl	*103*			*31.0-160*		*04/21/2021 21:14*	WG1655289

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3210		100	1	04/16/2021 16:30	WG1653093

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0500	0.100	1	05/03/2021 15:58	WG1661715

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1280		37.9	100	100	04/21/2021 23:55	WG1655391
Fluoride	2.04		0.0640	0.150	1	04/21/2021 23:22	WG1655391
Sulfate	1630		59.4	500	100	04/21/2021 23:55	WG1655391

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0799		0.000180	0.00200	1	04/22/2021 20:24	WG1656780
Arsenic,Dissolved	0.0687		0.000180	0.00200	1	04/26/2021 09:27	WG1654935
Barium	0.0125	J	0.000381	0.0200	1	04/22/2021 20:24	WG1656780
Barium,Dissolved	0.0121	J	0.000381	0.0200	1	04/26/2021 09:27	WG1654935
Calcium	414		0.0936	1.00	1	04/22/2021 20:24	WG1656780
Chromium	U		0.00124	0.00200	1	04/22/2021 20:24	WG1656780
Chromium,Dissolved	U		0.00124	0.00200	1	04/26/2021 09:27	WG1654935
Iron	1.20		0.0281	0.100	1	04/22/2021 20:24	WG1656780
Iron,Dissolved	U		0.0281	0.100	1	04/26/2021 09:27	WG1654935
Lead	U		0.000849	0.00200	1	04/22/2021 20:24	WG1656780
Lead,Dissolved	U		0.000849	0.00200	1	04/26/2021 09:27	WG1654935
Manganese	1.78		0.000704	0.00500	1	04/22/2021 20:24	WG1656780
Manganese,Dissolved	1.94		0.000704	0.00500	1	04/26/2021 09:27	WG1654935
Potassium	6.03		0.108	2.00	1	04/22/2021 20:24	WG1656780
Selenium	0.000630	J	0.000300	0.00200	1	04/22/2021 20:24	WG1656780
Selenium,Dissolved	0.000615	J	0.000300	0.00200	1	04/26/2021 09:27	WG1654935
Sodium	914		0.376	2.00	1	04/22/2021 20:24	WG1656780

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.620		0.0314	0.100	1	04/20/2021 15:00	WG1654300
(S) a,a,a-Trifluorotoluene(FID)	*95.9*			*78.0-120*		*04/20/2021 15:00*	WG1654300

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/17/2021 04:30	WG1653529
Benzene	U		0.0000941	0.00100	1	04/17/2021 04:30	WG1653529
Bromodichloromethane	U		0.000136	0.00100	1	04/17/2021 04:30	WG1653529
Bromoform	U		0.000129	0.00100	1	04/17/2021 04:30	WG1653529
Bromomethane	U		0.000605	0.00500	1	04/17/2021 04:30	WG1653529
n-Butylbenzene	U		0.000157	0.00100	1	04/17/2021 04:30	WG1653529
sec-Butylbenzene	0.000355	J	0.000125	0.00100	1	04/17/2021 04:30	WG1653529
Carbon disulfide	U		0.0000962	0.00100	1	04/17/2021 04:30	WG1653529
Carbon tetrachloride	U		0.000128	0.00100	1	04/17/2021 04:30	WG1653529

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/17/2021 04:30	WG1653529
Chlorodibromomethane	U		0.000140	0.00100	1	04/17/2021 04:30	WG1653529
Chloroethane	U		0.000192	0.00500	1	04/17/2021 04:30	WG1653529
Chloroform	U		0.000111	0.00500	1	04/17/2021 04:30	WG1653529
Chloromethane	U	J4	0.000960	0.00250	1	04/17/2021 04:30	WG1653529
1,2-Dibromoethane	U		0.000126	0.00100	1	04/17/2021 04:30	WG1653529
1,1-Dichloroethane	U		0.000100	0.00100	1	04/17/2021 04:30	WG1653529
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/17/2021 04:30	WG1653529
1,1-Dichloroethene	U		0.000188	0.00100	1	04/17/2021 04:30	WG1653529
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/17/2021 04:30	WG1653529
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/17/2021 04:30	WG1653529
1,2-Dichloropropane	U		0.000149	0.00100	1	04/17/2021 04:30	WG1653529
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/17/2021 04:30	WG1653529
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/17/2021 04:30	WG1653529
Ethylbenzene	U		0.000137	0.00100	1	04/17/2021 04:30	WG1653529
Isopropylbenzene	0.00208		0.000105	0.00100	1	04/17/2021 04:30	WG1653529
p-Isopropyltoluene	U		0.000120	0.00100	1	04/17/2021 04:30	WG1653529
2-Butanone (MEK)	U		0.00119	0.0100	1	04/17/2021 04:30	WG1653529
2-Hexanone	U		0.000787	0.0100	1	04/17/2021 04:30	WG1653529
Methylene Chloride	U		0.000430	0.00500	1	04/17/2021 04:30	WG1653529
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/17/2021 04:30	WG1653529
Methyl tert-butyl ether	0.000252	J	0.000101	0.00100	1	04/17/2021 04:30	WG1653529
Naphthalene	U	J4	0.00100	0.00500	1	04/17/2021 04:30	WG1653529
n-Propylbenzene	0.000114	J	0.0000993	0.00100	1	04/17/2021 04:30	WG1653529
Styrene	U		0.000118	0.00100	1	04/17/2021 04:30	WG1653529
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/17/2021 04:30	WG1653529
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/17/2021 04:30	WG1653529
Tetrachloroethene	U		0.000300	0.00100	1	04/17/2021 04:30	WG1653529
Toluene	U		0.000278	0.00100	1	04/17/2021 04:30	WG1653529
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/17/2021 04:30	WG1653529
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/17/2021 04:30	WG1653529
Trichloroethene	U		0.000190	0.00100	1	04/17/2021 04:30	WG1653529
1,2,4-Trimethylbenzene	0.000560	J	0.000322	0.00100	1	04/17/2021 04:30	WG1653529
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/17/2021 04:30	WG1653529
Vinyl chloride	U		0.000234	0.00100	1	04/17/2021 04:30	WG1653529
o-Xylene	U		0.000174	0.00100	1	04/17/2021 04:30	WG1653529
m&p-Xylene	0.000907	J	0.000430	0.00200	1	04/17/2021 04:30	WG1653529
Xylenes, Total	0.000907	J	0.000174	0.00300	1	04/17/2021 04:30	WG1653529
(S) Toluene-d8	*106*			*80.0-120*		*04/17/2021 04:30*	WG1653529
(S) 4-Bromofluorobenzene	*110*			*77.0-126*		*04/17/2021 04:30*	WG1653529
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*04/17/2021 04:30*	WG1653529

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	5.71		0.0494	0.200	2	04/22/2021 11:16	WG1655289
(S) o-Terphenyl	*112*			*31.0-160*		*04/22/2021 11:16*	WG1655289

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3310		100	1	04/16/2021 16:30	WG1653093

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0500	0.100	1	05/03/2021 15:59	WG1661715

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1130		37.9	100	100	04/22/2021 00:44	WG1655391
Fluoride	0.835		0.0640	0.150	1	04/22/2021 00:28	WG1655391
Sulfate	1300		59.4	500	100	04/22/2021 00:44	WG1655391

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0515		0.000180	0.00200	1	04/22/2021 20:30	WG1656780
Arsenic,Dissolved	0.0660		0.000180	0.00200	1	04/26/2021 09:30	WG1654935
Barium	0.0169	J	0.000381	0.0200	1	04/22/2021 20:30	WG1656780
Barium,Dissolved	0.0160	J	0.000381	0.0200	1	04/26/2021 09:30	WG1654935
Calcium	406		0.0936	1.00	1	04/22/2021 20:30	WG1656780
Chromium	U		0.00124	0.00200	1	04/22/2021 20:30	WG1656780
Chromium,Dissolved	0.0113		0.00124	0.00200	1	04/26/2021 09:30	WG1654935
Iron	2.05		0.0281	0.100	1	04/22/2021 20:30	WG1656780
Iron,Dissolved	0.0572	J	0.0281	0.100	1	04/26/2021 09:30	WG1654935
Lead	U		0.000849	0.00200	1	04/22/2021 20:30	WG1656780
Lead,Dissolved	0.00225		0.000849	0.00200	1	04/26/2021 09:30	WG1654935
Manganese	8.88		0.000704	0.00500	1	04/22/2021 20:30	WG1656780
Manganese,Dissolved	10.1		0.00141	0.0100	2	04/26/2021 10:41	WG1654935
Potassium	2.51		0.108	2.00	1	04/22/2021 20:30	WG1656780
Selenium	U		0.000300	0.00200	1	04/22/2021 20:30	WG1656780
Selenium,Dissolved	U		0.000300	0.00200	1	04/26/2021 09:30	WG1654935
Sodium	748		0.376	2.00	1	04/22/2021 20:30	WG1656780

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.176	B	0.0314	0.100	1	04/20/2021 15:22	WG1654300
(S) a,a,a-Trifluorotoluene(FID)	*98.7*			*78.0-120*		*04/20/2021 15:22*	WG1654300

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/17/2021 04:51	WG1653529
Benzene	U		0.0000941	0.00100	1	04/17/2021 04:51	WG1653529
Bromodichloromethane	U		0.000136	0.00100	1	04/17/2021 04:51	WG1653529
Bromoform	U		0.000129	0.00100	1	04/17/2021 04:51	WG1653529
Bromomethane	U		0.000605	0.00500	1	04/17/2021 04:51	WG1653529
n-Butylbenzene	U		0.000157	0.00100	1	04/17/2021 04:51	WG1653529
sec-Butylbenzene	0.000204	J	0.000125	0.00100	1	04/17/2021 04:51	WG1653529
Carbon disulfide	U		0.0000962	0.00100	1	04/17/2021 04:51	WG1653529
Carbon tetrachloride	U		0.000128	0.00100	1	04/17/2021 04:51	WG1653529

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/17/2021 04:51	WG1653529
Chlorodibromomethane	U		0.000140	0.00100	1	04/17/2021 04:51	WG1653529
Chloroethane	U		0.000192	0.00500	1	04/17/2021 04:51	WG1653529
Chloroform	U		0.000111	0.00500	1	04/17/2021 04:51	WG1653529
Chloromethane	U	J4	0.000960	0.00250	1	04/17/2021 04:51	WG1653529
1,2-Dibromoethane	U		0.000126	0.00100	1	04/17/2021 04:51	WG1653529
1,1-Dichloroethane	U		0.000100	0.00100	1	04/17/2021 04:51	WG1653529
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/17/2021 04:51	WG1653529
1,1-Dichloroethene	U		0.000188	0.00100	1	04/17/2021 04:51	WG1653529
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/17/2021 04:51	WG1653529
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/17/2021 04:51	WG1653529
1,2-Dichloropropane	U		0.000149	0.00100	1	04/17/2021 04:51	WG1653529
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/17/2021 04:51	WG1653529
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/17/2021 04:51	WG1653529
Ethylbenzene	U		0.000137	0.00100	1	04/17/2021 04:51	WG1653529
Isopropylbenzene	0.000184	J	0.000105	0.00100	1	04/17/2021 04:51	WG1653529
p-Isopropyltoluene	U		0.000120	0.00100	1	04/17/2021 04:51	WG1653529
2-Butanone (MEK)	U		0.00119	0.0100	1	04/17/2021 04:51	WG1653529
2-Hexanone	U		0.000787	0.0100	1	04/17/2021 04:51	WG1653529
Methylene Chloride	U		0.000430	0.00500	1	04/17/2021 04:51	WG1653529
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/17/2021 04:51	WG1653529
Methyl tert-butyl ether	0.000158	J	0.000101	0.00100	1	04/17/2021 04:51	WG1653529
Naphthalene	U	J4	0.00100	0.00500	1	04/17/2021 04:51	WG1653529
n-Propylbenzene	U		0.0000993	0.00100	1	04/17/2021 04:51	WG1653529
Styrene	U		0.000118	0.00100	1	04/17/2021 04:51	WG1653529
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/17/2021 04:51	WG1653529
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/17/2021 04:51	WG1653529
Tetrachloroethene	U		0.000300	0.00100	1	04/17/2021 04:51	WG1653529
Toluene	U		0.000278	0.00100	1	04/17/2021 04:51	WG1653529
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/17/2021 04:51	WG1653529
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/17/2021 04:51	WG1653529
Trichloroethene	U		0.000190	0.00100	1	04/17/2021 04:51	WG1653529
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/17/2021 04:51	WG1653529
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/17/2021 04:51	WG1653529
Vinyl chloride	U		0.000234	0.00100	1	04/17/2021 04:51	WG1653529
o-Xylene	U		0.000174	0.00100	1	04/17/2021 04:51	WG1653529
m&p-Xylene	U		0.000430	0.00200	1	04/17/2021 04:51	WG1653529
Xylenes, Total	U		0.000174	0.00300	1	04/17/2021 04:51	WG1653529
(S) Toluene-d8	*106*			*80.0-120*		*04/17/2021 04:51*	WG1653529
(S) 4-Bromofluorobenzene	*108*			*77.0-126*		*04/17/2021 04:51*	WG1653529
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*04/17/2021 04:51*	WG1653529

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.970		0.0247	0.100	1	04/22/2021 09:59	WG1655289
(S) o-Terphenyl	*107*			*31.0-160*		*04/22/2021 09:59*	WG1655289

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	11700		200	1	04/16/2021 16:30	WG1653093

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0500	0.100	1	05/03/2021 16:04	WG1661715

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	2540		37.9	100	100	04/22/2021 01:17	WG1655391
Fluoride	3.07		0.0640	0.150	1	04/22/2021 01:01	WG1655391
Sulfate	5140		59.4	500	100	04/22/2021 01:17	WG1655391

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.165		0.000180	0.00200	1	04/22/2021 20:33	WG1656780
Arsenic,Dissolved	0.0892		0.000180	0.00200	1	04/26/2021 09:34	WG1654935
Barium	0.0148	J	0.000381	0.0200	1	04/22/2021 20:33	WG1656780
Barium,Dissolved	0.0147	J	0.000381	0.0200	1	04/26/2021 09:34	WG1654935
Calcium	419		0.0936	1.00	1	04/22/2021 20:33	WG1656780
Chromium	U		0.00124	0.00200	1	04/22/2021 20:33	WG1656780
Chromium,Dissolved	U		0.00124	0.00200	1	04/26/2021 09:34	WG1654935
Iron	5.64		0.0281	0.100	1	04/22/2021 20:33	WG1656780
Iron,Dissolved	0.0333	J	0.0281	0.100	1	04/26/2021 09:34	WG1654935
Lead	U		0.000849	0.00200	1	04/22/2021 20:33	WG1656780
Lead,Dissolved	0.000985	J	0.000849	0.00200	1	04/26/2021 09:34	WG1654935
Manganese	1.01		0.000704	0.00500	1	04/22/2021 20:33	WG1656780
Manganese,Dissolved	1.06		0.000704	0.00500	1	04/26/2021 09:34	WG1654935
Potassium	7.69		0.108	2.00	1	04/22/2021 20:33	WG1656780
Selenium	0.000927	J	0.000300	0.00200	1	04/22/2021 20:33	WG1656780
Selenium,Dissolved	0.000921	J	0.000300	0.00200	1	04/26/2021 09:34	WG1654935
Sodium	2480		1.88	10.0	5	04/22/2021 21:35	WG1656780

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	2.56		0.0314	0.100	1	04/20/2021 15:44	WG1654300
(S) a,a,a-Trifluorotoluene(FID)	*96.1*			*78.0-120*		*04/20/2021 15:44*	WG1654300

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/17/2021 05:11	WG1653529
Benzene	U		0.0000941	0.00100	1	04/17/2021 05:11	WG1653529
Bromodichloromethane	U		0.000136	0.00100	1	04/17/2021 05:11	WG1653529
Bromoform	U		0.000129	0.00100	1	04/17/2021 05:11	WG1653529
Bromomethane	U		0.000605	0.00500	1	04/17/2021 05:11	WG1653529
n-Butylbenzene	U		0.000157	0.00100	1	04/17/2021 05:11	WG1653529
sec-Butylbenzene	U		0.000125	0.00100	1	04/17/2021 05:11	WG1653529
Carbon disulfide	U		0.0000962	0.00100	1	04/17/2021 05:11	WG1653529
Carbon tetrachloride	U		0.000128	0.00100	1	04/17/2021 05:11	WG1653529

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/17/2021 05:11	WG1653529
Chlorodibromomethane	U		0.000140	0.00100	1	04/17/2021 05:11	WG1653529
Chloroethane	U		0.000192	0.00500	1	04/17/2021 05:11	WG1653529
Chloroform	U		0.000111	0.00500	1	04/17/2021 05:11	WG1653529
Chloromethane	U	J4	0.000960	0.00250	1	04/17/2021 05:11	WG1653529
1,2-Dibromoethane	U		0.000126	0.00100	1	04/17/2021 05:11	WG1653529
1,1-Dichloroethane	U		0.000100	0.00100	1	04/17/2021 05:11	WG1653529
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/17/2021 05:11	WG1653529
1,1-Dichloroethene	U		0.000188	0.00100	1	04/17/2021 05:11	WG1653529
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/17/2021 05:11	WG1653529
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/17/2021 05:11	WG1653529
1,2-Dichloropropane	U		0.000149	0.00100	1	04/17/2021 05:11	WG1653529
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/17/2021 05:11	WG1653529
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/17/2021 05:11	WG1653529
Ethylbenzene	U		0.000137	0.00100	1	04/17/2021 05:11	WG1653529
Isopropylbenzene	0.000416	J	0.000105	0.00100	1	04/17/2021 05:11	WG1653529
p-Isopropyltoluene	U		0.000120	0.00100	1	04/17/2021 05:11	WG1653529
2-Butanone (MEK)	U		0.00119	0.0100	1	04/17/2021 05:11	WG1653529
2-Hexanone	U		0.000787	0.0100	1	04/17/2021 05:11	WG1653529
Methylene Chloride	U		0.000430	0.00500	1	04/17/2021 05:11	WG1653529
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/17/2021 05:11	WG1653529
Methyl tert-butyl ether	0.00156		0.000101	0.00100	1	04/17/2021 05:11	WG1653529
Naphthalene	U	J4	0.00100	0.00500	1	04/17/2021 05:11	WG1653529
n-Propylbenzene	U		0.0000993	0.00100	1	04/17/2021 05:11	WG1653529
Styrene	U		0.000118	0.00100	1	04/17/2021 05:11	WG1653529
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/17/2021 05:11	WG1653529
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/17/2021 05:11	WG1653529
Tetrachloroethene	U		0.000300	0.00100	1	04/17/2021 05:11	WG1653529
Toluene	U		0.000278	0.00100	1	04/17/2021 05:11	WG1653529
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/17/2021 05:11	WG1653529
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/17/2021 05:11	WG1653529
Trichloroethene	U		0.000190	0.00100	1	04/17/2021 05:11	WG1653529
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/17/2021 05:11	WG1653529
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/17/2021 05:11	WG1653529
Vinyl chloride	U		0.000234	0.00100	1	04/17/2021 05:11	WG1653529
o-Xylene	U		0.000174	0.00100	1	04/17/2021 05:11	WG1653529
m&p-Xylene	U		0.000430	0.00200	1	04/17/2021 05:11	WG1653529
Xylenes, Total	U		0.000174	0.00300	1	04/17/2021 05:11	WG1653529
(S) Toluene-d8	*105*			*80.0-120*		*04/17/2021 05:11*	WG1653529
(S) 4-Bromofluorobenzene	*111*			*77.0-126*		*04/17/2021 05:11*	WG1653529
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*04/17/2021 05:11*	WG1653529

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	7.21		0.0247	0.100	1	04/26/2021 02:38	WG1655290
(S) o-Terphenyl	*105*			*31.0-160*		*04/26/2021 02:38*	WG1655290

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	2930		50.0	1	04/16/2021 16:30	WG1653093

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.0500	0.100	1	05/03/2021 16:06	WG1661715

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	524		37.9	100	100	04/22/2021 01:50	WG1655391
Fluoride	1.05		0.0640	0.150	1	04/22/2021 01:34	WG1655391
Sulfate	1370		59.4	500	100	04/22/2021 01:50	WG1655391

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0117		0.000180	0.00200	1	04/22/2021 20:36	WG1656780
Arsenic,Dissolved	0.00944		0.000180	0.00200	1	04/26/2021 09:37	WG1654935
Barium	0.0132	J	0.000381	0.0200	1	04/22/2021 20:36	WG1656780
Barium,Dissolved	0.0140	J	0.000381	0.0200	1	04/26/2021 09:37	WG1654935
Calcium	359		0.0936	1.00	1	04/22/2021 20:36	WG1656780
Chromium	0.00390		0.00124	0.00200	1	04/22/2021 20:36	WG1656780
Chromium,Dissolved	0.00205		0.00124	0.00200	1	04/26/2021 09:37	WG1654935
Iron	0.828		0.0281	0.100	1	04/22/2021 20:36	WG1656780
Iron,Dissolved	U		0.0281	0.100	1	04/26/2021 09:37	WG1654935
Lead	U		0.000849	0.00200	1	04/22/2021 20:36	WG1656780
Lead,Dissolved	U		0.000849	0.00200	1	04/26/2021 09:37	WG1654935
Manganese	1.01		0.000704	0.00500	1	04/22/2021 20:36	WG1656780
Manganese,Dissolved	1.04		0.000704	0.00500	1	04/26/2021 09:37	WG1654935
Potassium	3.74		0.108	2.00	1	04/22/2021 20:36	WG1656780
Selenium	U		0.000300	0.00200	1	04/22/2021 20:36	WG1656780
Selenium,Dissolved	U		0.000300	0.00200	1	04/26/2021 09:37	WG1654935
Sodium	431		0.376	2.00	1	04/22/2021 20:36	WG1656780

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	0.0371	B J	0.0314	0.100	1	04/20/2021 16:05	WG1654300
(S) a,a,a-Trifluorotoluene(FID)	*98.3*			*78.0-120*		*04/20/2021 16:05*	WG1654300

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0113	0.0500	1	04/17/2021 05:31	WG1653529
Benzene	U		0.0000941	0.00100	1	04/17/2021 05:31	WG1653529
Bromodichloromethane	U		0.000136	0.00100	1	04/17/2021 05:31	WG1653529
Bromoform	U		0.000129	0.00100	1	04/17/2021 05:31	WG1653529
Bromomethane	U		0.000605	0.00500	1	04/17/2021 05:31	WG1653529
n-Butylbenzene	U		0.000157	0.00100	1	04/17/2021 05:31	WG1653529
sec-Butylbenzene	U		0.000125	0.00100	1	04/17/2021 05:31	WG1653529
Carbon disulfide	U		0.0000962	0.00100	1	04/17/2021 05:31	WG1653529
Carbon tetrachloride	U		0.000128	0.00100	1	04/17/2021 05:31	WG1653529

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/17/2021 05:31	WG1653529
Chlorodibromomethane	U		0.000140	0.00100	1	04/17/2021 05:31	WG1653529
Chloroethane	U		0.000192	0.00500	1	04/17/2021 05:31	WG1653529
Chloroform	U		0.000111	0.00500	1	04/17/2021 05:31	WG1653529
Chloromethane	U	J4	0.000960	0.00250	1	04/17/2021 05:31	WG1653529
1,2-Dibromoethane	U		0.000126	0.00100	1	04/17/2021 05:31	WG1653529
1,1-Dichloroethane	U		0.000100	0.00100	1	04/17/2021 05:31	WG1653529
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/17/2021 05:31	WG1653529
1,1-Dichloroethene	U		0.000188	0.00100	1	04/17/2021 05:31	WG1653529
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/17/2021 05:31	WG1653529
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/17/2021 05:31	WG1653529
1,2-Dichloropropane	U		0.000149	0.00100	1	04/17/2021 05:31	WG1653529
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/17/2021 05:31	WG1653529
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/17/2021 05:31	WG1653529
Ethylbenzene	U		0.000137	0.00100	1	04/17/2021 05:31	WG1653529
Isopropylbenzene	U		0.000105	0.00100	1	04/17/2021 05:31	WG1653529
p-Isopropyltoluene	U		0.000120	0.00100	1	04/17/2021 05:31	WG1653529
2-Butanone (MEK)	U		0.00119	0.0100	1	04/17/2021 05:31	WG1653529
2-Hexanone	U		0.000787	0.0100	1	04/17/2021 05:31	WG1653529
Methylene Chloride	U		0.000430	0.00500	1	04/17/2021 05:31	WG1653529
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/17/2021 05:31	WG1653529
Methyl tert-butyl ether	0.000335	J	0.000101	0.00100	1	04/17/2021 05:31	WG1653529
Naphthalene	U	J4	0.00100	0.00500	1	04/17/2021 05:31	WG1653529
n-Propylbenzene	U		0.0000993	0.00100	1	04/17/2021 05:31	WG1653529
Styrene	U		0.000118	0.00100	1	04/17/2021 05:31	WG1653529
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/17/2021 05:31	WG1653529
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/17/2021 05:31	WG1653529
Tetrachloroethene	U		0.000300	0.00100	1	04/17/2021 05:31	WG1653529
Toluene	U		0.000278	0.00100	1	04/17/2021 05:31	WG1653529
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/17/2021 05:31	WG1653529
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/17/2021 05:31	WG1653529
Trichloroethene	U		0.000190	0.00100	1	04/17/2021 05:31	WG1653529
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/17/2021 05:31	WG1653529
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/17/2021 05:31	WG1653529
Vinyl chloride	U		0.000234	0.00100	1	04/17/2021 05:31	WG1653529
o-Xylene	U		0.000174	0.00100	1	04/17/2021 05:31	WG1653529
m&p-Xylene	U		0.000430	0.00200	1	04/17/2021 05:31	WG1653529
Xylenes, Total	U		0.000174	0.00300	1	04/17/2021 05:31	WG1653529
(S) Toluene-d8	*107*			*80.0-120*		*04/17/2021 05:31*	WG1653529
(S) 4-Bromofluorobenzene	*108*			*77.0-126*		*04/17/2021 05:31*	WG1653529
(S) 1,2-Dichloroethane-d4	*99.5*			*70.0-130*		*04/17/2021 05:31*	WG1653529

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.389		0.0247	0.100	1	04/26/2021 02:18	WG1655290
(S) o-Terphenyl	*103*			*31.0-160*		*04/26/2021 02:18*	WG1655290

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	5050		100	1	04/16/2021 16:30	WG1653093

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0500	0.100	1	05/03/2021 16:07	WG1661715

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1360		19.0	50.0	50	04/22/2021 03:12	WG1655391
Fluoride	2.06		0.0640	0.150	1	04/22/2021 02:39	WG1655391
Sulfate	2380		29.7	250	50	04/22/2021 03:12	WG1655391

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.178		0.000180	0.00200	1	04/22/2021 20:40	WG1656780
Arsenic,Dissolved	0.133		0.000180	0.00200	1	04/26/2021 09:40	WG1654935
Barium	0.0114	J	0.000381	0.0200	1	04/22/2021 20:40	WG1656780
Barium,Dissolved	0.0105	J	0.000381	0.0200	1	04/26/2021 09:40	WG1654935
Calcium	379		0.0936	1.00	1	04/22/2021 20:40	WG1656780
Chromium	0.00149	J	0.00124	0.00200	1	04/22/2021 20:40	WG1656780
Chromium,Dissolved	U		0.00124	0.00200	1	04/26/2021 09:40	WG1654935
Iron	4.87		0.0281	0.100	1	04/22/2021 20:40	WG1656780
Iron,Dissolved	0.0358	J	0.0281	0.100	1	04/26/2021 09:40	WG1654935
Lead	U		0.000849	0.00200	1	04/22/2021 20:40	WG1656780
Lead,Dissolved	U		0.000849	0.00200	1	04/26/2021 09:40	WG1654935
Manganese	3.00		0.000704	0.00500	1	04/22/2021 20:40	WG1656780
Manganese,Dissolved	3.21		0.000704	0.00500	1	04/26/2021 09:40	WG1654935
Potassium	10.5		0.108	2.00	1	04/22/2021 20:40	WG1656780
Selenium	0.00162	J	0.000300	0.00200	1	04/22/2021 20:40	WG1656780
Selenium,Dissolved	0.00134	J	0.000300	0.00200	1	04/26/2021 09:40	WG1654935
Sodium	1420		1.88	10.0	5	04/22/2021 21:38	WG1656780

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	1.98		0.0314	0.100	1	04/20/2021 16:27	WG1654300
(S) a,a,a-Trifluorotoluene(FID)	*97.8*			*78.0-120*		*04/20/2021 16:27*	WG1654300

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/17/2021 23:57	WG1653740
Benzene	U		0.0000941	0.00100	1	04/17/2021 23:57	WG1653740
Bromodichloromethane	U		0.000136	0.00100	1	04/17/2021 23:57	WG1653740
Bromoform	U		0.000129	0.00100	1	04/17/2021 23:57	WG1653740
Bromomethane	U		0.000605	0.00500	1	04/17/2021 23:57	WG1653740
n-Butylbenzene	U		0.000157	0.00100	1	04/17/2021 23:57	WG1653740
sec-Butylbenzene	U		0.000125	0.00100	1	04/17/2021 23:57	WG1653740
Carbon disulfide	U		0.0000962	0.00100	1	04/17/2021 23:57	WG1653740
Carbon tetrachloride	U		0.000128	0.00100	1	04/17/2021 23:57	WG1653740

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/17/2021 23:57	WG1653740
Chlorodibromomethane	U		0.000140	0.00100	1	04/17/2021 23:57	WG1653740
Chloroethane	U		0.000192	0.00500	1	04/17/2021 23:57	WG1653740
Chloroform	U		0.000111	0.00500	1	04/17/2021 23:57	WG1653740
Chloromethane	U		0.000960	0.00250	1	04/17/2021 23:57	WG1653740
1,2-Dibromoethane	U		0.000126	0.00100	1	04/17/2021 23:57	WG1653740
1,1-Dichloroethane	U		0.000100	0.00100	1	04/17/2021 23:57	WG1653740
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/17/2021 23:57	WG1653740
1,1-Dichloroethene	U		0.000188	0.00100	1	04/17/2021 23:57	WG1653740
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/17/2021 23:57	WG1653740
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/17/2021 23:57	WG1653740
1,2-Dichloropropane	U		0.000149	0.00100	1	04/17/2021 23:57	WG1653740
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/17/2021 23:57	WG1653740
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/17/2021 23:57	WG1653740
Ethylbenzene	U		0.000137	0.00100	1	04/17/2021 23:57	WG1653740
Isopropylbenzene	U		0.000105	0.00100	1	04/17/2021 23:57	WG1653740
p-Isopropyltoluene	U		0.000120	0.00100	1	04/17/2021 23:57	WG1653740
2-Butanone (MEK)	U		0.00119	0.0100	1	04/17/2021 23:57	WG1653740
2-Hexanone	U		0.000787	0.0100	1	04/17/2021 23:57	WG1653740
Methylene Chloride	U		0.000430	0.00500	1	04/17/2021 23:57	WG1653740
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/17/2021 23:57	WG1653740
Methyl tert-butyl ether	0.000861	J	0.000101	0.00100	1	04/17/2021 23:57	WG1653740
Naphthalene	U		0.00100	0.00500	1	04/17/2021 23:57	WG1653740
n-Propylbenzene	U		0.0000993	0.00100	1	04/17/2021 23:57	WG1653740
Styrene	U		0.000118	0.00100	1	04/17/2021 23:57	WG1653740
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/17/2021 23:57	WG1653740
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/17/2021 23:57	WG1653740
Tetrachloroethene	U		0.000300	0.00100	1	04/17/2021 23:57	WG1653740
Toluene	U		0.000278	0.00100	1	04/17/2021 23:57	WG1653740
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/17/2021 23:57	WG1653740
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/17/2021 23:57	WG1653740
Trichloroethene	U		0.000190	0.00100	1	04/17/2021 23:57	WG1653740
1,2,4-Trimethylbenzene	0.000433	J	0.000322	0.00100	1	04/17/2021 23:57	WG1653740
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/17/2021 23:57	WG1653740
Vinyl chloride	U		0.000234	0.00100	1	04/17/2021 23:57	WG1653740
o-Xylene	U		0.000174	0.00100	1	04/17/2021 23:57	WG1653740
m&p-Xylene	U		0.000430	0.00200	1	04/17/2021 23:57	WG1653740
Xylenes, Total	U		0.000174	0.00300	1	04/17/2021 23:57	WG1653740
(S) Toluene-d8	*106*			*80.0-120*		*04/17/2021 23:57*	WG1653740
(S) 4-Bromofluorobenzene	*116*			*77.0-126*		*04/17/2021 23:57*	WG1653740
(S) 1,2-Dichloroethane-d4	*97.1*			*70.0-130*		*04/17/2021 23:57*	WG1653740

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	11.3		0.0494	0.200	2	04/26/2021 06:39	WG1655290
(S) o-Terphenyl	*110*			*31.0-160*		*04/26/2021 06:39*	WG1655290

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4800		100	1	04/16/2021 18:49	WG1653096

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.0648	J	0.0500	0.100	1	05/03/2021 16:08	WG1661715

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1690		37.9	100	100	04/22/2021 03:45	WG1655391
Fluoride	1.21		0.0640	0.150	1	04/22/2021 03:29	WG1655391
Sulfate	2100		59.4	500	100	04/22/2021 03:45	WG1655391

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0482		0.000180	0.00200	1	04/22/2021 21:41	WG1656780
Arsenic,Dissolved	0.00982		0.000180	0.00200	1	04/26/2021 09:44	WG1654935
Barium	0.0183	J	0.000381	0.0200	1	04/22/2021 21:41	WG1656780
Barium,Dissolved	0.0168	J	0.000381	0.0200	1	04/26/2021 09:44	WG1654935
Calcium	334		0.0936	1.00	1	04/22/2021 21:41	WG1656780
Chromium	0.0119		0.00124	0.00200	1	04/22/2021 21:41	WG1656780
Chromium,Dissolved	0.00141	J	0.00124	0.00200	1	04/26/2021 09:44	WG1654935
Iron	9.48		0.0281	0.100	1	04/22/2021 21:41	WG1656780
Iron,Dissolved	U		0.0281	0.100	1	04/26/2021 09:44	WG1654935
Lead	0.00198	J	0.000849	0.00200	1	04/22/2021 21:41	WG1656780
Lead,Dissolved	U		0.000849	0.00200	1	04/26/2021 09:44	WG1654935
Manganese	0.501		0.000704	0.00500	1	04/22/2021 21:41	WG1656780
Manganese,Dissolved	0.424		0.000704	0.00500	1	04/26/2021 09:44	WG1654935
Potassium	3.68		0.108	2.00	1	04/22/2021 21:41	WG1656780
Selenium	0.000516	J	0.000300	0.00200	1	04/22/2021 21:41	WG1656780
Selenium,Dissolved	U		0.000300	0.00200	1	04/26/2021 09:44	WG1654935
Sodium	1360		1.88	10.0	5	04/22/2021 22:44	WG1656780

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.364	B	0.0314	0.100	1	04/20/2021 16:49	WG1654300
(S) a,a,a-Trifluorotoluene(FID)	*98.1*			*78.0-120*		*04/20/2021 16:49*	WG1654300

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/18/2021 00:17	WG1653740
Benzene	U		0.0000941	0.00100	1	04/18/2021 00:17	WG1653740
Bromodichloromethane	U		0.000136	0.00100	1	04/18/2021 00:17	WG1653740
Bromoform	U		0.000129	0.00100	1	04/18/2021 00:17	WG1653740
Bromomethane	U		0.000605	0.00500	1	04/18/2021 00:17	WG1653740
n-Butylbenzene	U		0.000157	0.00100	1	04/18/2021 00:17	WG1653740
sec-Butylbenzene	U		0.000125	0.00100	1	04/18/2021 00:17	WG1653740
Carbon disulfide	U		0.0000962	0.00100	1	04/18/2021 00:17	WG1653740
Carbon tetrachloride	U		0.000128	0.00100	1	04/18/2021 00:17	WG1653740

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/18/2021 00:17	WG1653740
Chlorodibromomethane	U		0.000140	0.00100	1	04/18/2021 00:17	WG1653740
Chloroethane	U		0.000192	0.00500	1	04/18/2021 00:17	WG1653740
Chloroform	U		0.000111	0.00500	1	04/18/2021 00:17	WG1653740
Chloromethane	U		0.000960	0.00250	1	04/18/2021 00:17	WG1653740
1,2-Dibromoethane	U		0.000126	0.00100	1	04/18/2021 00:17	WG1653740
1,1-Dichloroethane	U		0.000100	0.00100	1	04/18/2021 00:17	WG1653740
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/18/2021 00:17	WG1653740
1,1-Dichloroethene	U		0.000188	0.00100	1	04/18/2021 00:17	WG1653740
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/18/2021 00:17	WG1653740
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/18/2021 00:17	WG1653740
1,2-Dichloropropane	U		0.000149	0.00100	1	04/18/2021 00:17	WG1653740
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/18/2021 00:17	WG1653740
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/18/2021 00:17	WG1653740
Ethylbenzene	U		0.000137	0.00100	1	04/18/2021 00:17	WG1653740
Isopropylbenzene	U		0.000105	0.00100	1	04/18/2021 00:17	WG1653740
p-Isopropyltoluene	U		0.000120	0.00100	1	04/18/2021 00:17	WG1653740
2-Butanone (MEK)	U		0.00119	0.0100	1	04/18/2021 00:17	WG1653740
2-Hexanone	U		0.000787	0.0100	1	04/18/2021 00:17	WG1653740
Methylene Chloride	U		0.000430	0.00500	1	04/18/2021 00:17	WG1653740
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/18/2021 00:17	WG1653740
Methyl tert-butyl ether	0.000747	J	0.000101	0.00100	1	04/18/2021 00:17	WG1653740
Naphthalene	U		0.00100	0.00500	1	04/18/2021 00:17	WG1653740
n-Propylbenzene	U		0.0000993	0.00100	1	04/18/2021 00:17	WG1653740
Styrene	U		0.000118	0.00100	1	04/18/2021 00:17	WG1653740
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/18/2021 00:17	WG1653740
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/18/2021 00:17	WG1653740
Tetrachloroethene	U		0.000300	0.00100	1	04/18/2021 00:17	WG1653740
Toluene	U		0.000278	0.00100	1	04/18/2021 00:17	WG1653740
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/18/2021 00:17	WG1653740
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/18/2021 00:17	WG1653740
Trichloroethene	U		0.000190	0.00100	1	04/18/2021 00:17	WG1653740
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/18/2021 00:17	WG1653740
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/18/2021 00:17	WG1653740
Vinyl chloride	U		0.000234	0.00100	1	04/18/2021 00:17	WG1653740
o-Xylene	U		0.000174	0.00100	1	04/18/2021 00:17	WG1653740
m&p-Xylene	U		0.000430	0.00200	1	04/18/2021 00:17	WG1653740
Xylenes, Total	U		0.000174	0.00300	1	04/18/2021 00:17	WG1653740
(S) Toluene-d8	*107*			*80.0-120*		*04/18/2021 00:17*	WG1653740
(S) 4-Bromofluorobenzene	*113*			*77.0-126*		*04/18/2021 00:17*	WG1653740
(S) 1,2-Dichloroethane-d4	*99.1*			*70.0-130*		*04/18/2021 00:17*	WG1653740

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	1.06		0.0247	0.100	1	04/26/2021 06:19	WG1655290
(S) o-Terphenyl	*98.5*			*31.0-160*		*04/26/2021 06:19*	WG1655290

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3430		100	1	04/16/2021 18:49	WG1653096

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0500	0.100	1	05/03/2021 16:09	WG1661715

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1030		37.9	100	100	04/22/2021 04:18	WG1655391
Fluoride	0.881		0.0640	0.150	1	04/22/2021 04:01	WG1655391
Sulfate	1800		59.4	500	100	04/22/2021 04:18	WG1655391

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00427		0.000180	0.00200	1	04/22/2021 21:45	WG1656780
Arsenic,Dissolved	0.00383		0.000180	0.00200	1	04/26/2021 09:47	WG1654935
Barium	0.0112	J	0.000381	0.0200	1	04/22/2021 21:45	WG1656780
Barium,Dissolved	0.0122	J	0.000381	0.0200	1	04/26/2021 09:47	WG1654935
Calcium	562		0.0936	1.00	1	04/22/2021 21:45	WG1656780
Chromium	U		0.00124	0.00200	1	04/22/2021 21:45	WG1656780
Chromium,Dissolved	U		0.00124	0.00200	1	04/26/2021 09:47	WG1654935
Iron	0.121	B	0.0281	0.100	1	04/22/2021 21:45	WG1656780
Iron,Dissolved	U		0.0281	0.100	1	04/26/2021 09:47	WG1654935
Lead	U		0.000849	0.00200	1	04/22/2021 21:45	WG1656780
Lead,Dissolved	U		0.000849	0.00200	1	04/26/2021 09:47	WG1654935
Manganese	0.570		0.000704	0.00500	1	04/22/2021 21:45	WG1656780
Manganese,Dissolved	0.594		0.000704	0.00500	1	04/26/2021 09:47	WG1654935
Potassium	6.66		0.108	2.00	1	04/22/2021 21:45	WG1656780
Selenium	0.000437	J	0.000300	0.00200	1	04/22/2021 21:45	WG1656780
Selenium,Dissolved	U		0.000300	0.00200	1	04/26/2021 09:47	WG1654935
Sodium	561		0.376	2.00	1	04/22/2021 21:45	WG1656780

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0342	J	0.0314	0.100	1	04/20/2021 13:12	WG1655063
(S) a,a,a-Trifluorotoluene(FID)	*101*			*78.0-120*		*04/20/2021 13:12*	WG1655063

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/18/2021 00:37	WG1653740
Benzene	U		0.0000941	0.00100	1	04/18/2021 00:37	WG1653740
Bromodichloromethane	U		0.000136	0.00100	1	04/18/2021 00:37	WG1653740
Bromoform	U		0.000129	0.00100	1	04/18/2021 00:37	WG1653740
Bromomethane	U		0.000605	0.00500	1	04/18/2021 00:37	WG1653740
n-Butylbenzene	U		0.000157	0.00100	1	04/18/2021 00:37	WG1653740
sec-Butylbenzene	U		0.000125	0.00100	1	04/18/2021 00:37	WG1653740
Carbon disulfide	U		0.0000962	0.00100	1	04/18/2021 00:37	WG1653740
Carbon tetrachloride	U		0.000128	0.00100	1	04/18/2021 00:37	WG1653740

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/18/2021 00:37	WG1653740
Chlorodibromomethane	U		0.000140	0.00100	1	04/18/2021 00:37	WG1653740
Chloroethane	U		0.000192	0.00500	1	04/18/2021 00:37	WG1653740
Chloroform	U		0.000111	0.00500	1	04/18/2021 00:37	WG1653740
Chloromethane	U		0.000960	0.00250	1	04/18/2021 00:37	WG1653740
1,2-Dibromoethane	U		0.000126	0.00100	1	04/18/2021 00:37	WG1653740
1,1-Dichloroethane	U		0.000100	0.00100	1	04/18/2021 00:37	WG1653740
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/18/2021 00:37	WG1653740
1,1-Dichloroethene	U		0.000188	0.00100	1	04/18/2021 00:37	WG1653740
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/18/2021 00:37	WG1653740
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/18/2021 00:37	WG1653740
1,2-Dichloropropane	U		0.000149	0.00100	1	04/18/2021 00:37	WG1653740
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/18/2021 00:37	WG1653740
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/18/2021 00:37	WG1653740
Ethylbenzene	U		0.000137	0.00100	1	04/18/2021 00:37	WG1653740
Isopropylbenzene	U		0.000105	0.00100	1	04/18/2021 00:37	WG1653740
p-Isopropyltoluene	U		0.000120	0.00100	1	04/18/2021 00:37	WG1653740
2-Butanone (MEK)	U		0.00119	0.0100	1	04/18/2021 00:37	WG1653740
2-Hexanone	U		0.000787	0.0100	1	04/18/2021 00:37	WG1653740
Methylene Chloride	U		0.000430	0.00500	1	04/18/2021 00:37	WG1653740
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/18/2021 00:37	WG1653740
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/18/2021 00:37	WG1653740
Naphthalene	U		0.00100	0.00500	1	04/18/2021 00:37	WG1653740
n-Propylbenzene	U		0.0000993	0.00100	1	04/18/2021 00:37	WG1653740
Styrene	U		0.000118	0.00100	1	04/18/2021 00:37	WG1653740
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/18/2021 00:37	WG1653740
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/18/2021 00:37	WG1653740
Tetrachloroethene	U		0.000300	0.00100	1	04/18/2021 00:37	WG1653740
Toluene	U		0.000278	0.00100	1	04/18/2021 00:37	WG1653740
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/18/2021 00:37	WG1653740
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/18/2021 00:37	WG1653740
Trichloroethene	U		0.000190	0.00100	1	04/18/2021 00:37	WG1653740
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/18/2021 00:37	WG1653740
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/18/2021 00:37	WG1653740
Vinyl chloride	U		0.000234	0.00100	1	04/18/2021 00:37	WG1653740
o-Xylene	U		0.000174	0.00100	1	04/18/2021 00:37	WG1653740
m&p-Xylene	U		0.000430	0.00200	1	04/18/2021 00:37	WG1653740
Xylenes, Total	U		0.000174	0.00300	1	04/18/2021 00:37	WG1653740
(S) Toluene-d8	*108*			*80.0-120*		*04/18/2021 00:37*	WG1653740
(S) 4-Bromofluorobenzene	*109*			*77.0-126*		*04/18/2021 00:37*	WG1653740
(S) 1,2-Dichloroethane-d4	*97.1*			*70.0-130*		*04/18/2021 00:37*	WG1653740

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0850	J	0.0247	0.100	1	04/22/2021 19:16	WG1655290
(S) o-Terphenyl	*97.5*			*31.0-160*		*04/22/2021 19:16*	WG1655290

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	13700		200	1	04/16/2021 16:30	WG1653093

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.0500	0.100	1	05/03/2021 16:11	WG1661715

Wet Chemistry by Method 4500CN E-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Cyanide	U		0.00180	0.00500	1	04/23/2021 16:20	WG1656330

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	4880		37.9	100	100	04/22/2021 04:51	WG1655391
Fluoride	2.20		0.320	0.750	5	04/22/2021 04:34	WG1655391
Sulfate	4270		59.4	500	100	04/22/2021 04:51	WG1655391

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.000100	0.000200	1	04/18/2021 13:53	WG1652886
Mercury,Dissolved	U		0.000100	0.000200	1	04/20/2021 11:50	WG1652891

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Boron	0.906		0.0200	0.200	1	04/26/2021 11:54	WG1656874
Boron,Dissolved	0.952		0.0200	0.200	1	04/24/2021 15:56	WG1656495

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0621		0.000180	0.00200	1	04/22/2021 21:48	WG1656780
Arsenic,Dissolved	0.0423		0.000180	0.00200	1	04/26/2021 09:50	WG1654935
Barium	0.0174	J	0.000381	0.0200	1	04/22/2021 21:48	WG1656780
Barium,Dissolved	0.0160	J	0.000381	0.0200	1	04/26/2021 09:50	WG1654935
Cadmium	U		0.000150	0.00100	1	04/22/2021 21:48	WG1656780
Cadmium,Dissolved	U		0.000150	0.00100	1	04/26/2021 09:50	WG1654935
Calcium	729		0.0936	1.00	1	04/22/2021 21:48	WG1656780
Chromium	U		0.00124	0.00200	1	04/22/2021 21:48	WG1656780
Chromium,Dissolved	U		0.00124	0.00200	1	04/26/2021 09:50	WG1654935
Cobalt	0.00185	J	0.0000596	0.00200	1	04/22/2021 21:48	WG1656780
Cobalt,Dissolved	0.00206		0.0000596	0.00200	1	04/26/2021 09:50	WG1654935
Iron	5.53		0.0281	0.100	1	04/22/2021 21:48	WG1656780
Iron,Dissolved	0.0507	J	0.0281	0.100	1	04/26/2021 09:50	WG1654935
Lead	U		0.000849	0.00200	1	04/22/2021 21:48	WG1656780
Lead,Dissolved	0.00124	J	0.000849	0.00200	1	04/26/2021 09:50	WG1654935
Manganese	2.49		0.000704	0.00500	1	04/22/2021 21:48	WG1656780
Manganese,Dissolved	2.72		0.000704	0.00500	1	04/26/2021 09:50	WG1654935
Nickel	0.0310		0.000816	0.00200	1	04/22/2021 21:48	WG1656780
Nickel,Dissolved	0.0359		0.000816	0.00200	1	04/26/2021 09:50	WG1654935

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Potassium	9.88		0.108	2.00	1	04/22/2021 21:48	WG1656780
Selenium	0.00119	J	0.000300	0.00200	1	04/22/2021 21:48	WG1656780
Selenium,Dissolved	0.00111	J	0.000300	0.00200	1	04/26/2021 09:50	WG1654935
Sodium	3090		1.88	10.0	5	04/22/2021 22:48	WG1656780
Uranium	0.00343	J	0.0000700	0.0200	1	04/22/2021 21:48	WG1656780
Uranium,Dissolved	0.00369	J	0.0000700	0.0200	1	04/26/2021 09:50	WG1654935
Vanadium	0.000846	J	0.000664	0.00500	1	04/22/2021 21:48	WG1656780
Vanadium,Dissolved	U		0.000664	0.00500	1	04/26/2021 09:50	WG1654935

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	1.04		0.0314	0.100	1	04/20/2021 13:34	WG1655063
(S) a,a,a-Trifluorotoluene(FID)	*101*			*78.0-120*		*04/20/2021 13:34*	WG1655063

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/18/2021 00:57	WG1653740
Benzene	U		0.0000941	0.00100	1	04/18/2021 00:57	WG1653740
Bromodichloromethane	U		0.000136	0.00100	1	04/18/2021 00:57	WG1653740
Bromoform	U		0.000129	0.00100	1	04/18/2021 00:57	WG1653740
Bromomethane	U		0.000605	0.00500	1	04/18/2021 00:57	WG1653740
n-Butylbenzene	U		0.000157	0.00100	1	04/18/2021 00:57	WG1653740
sec-Butylbenzene	U		0.000125	0.00100	1	04/18/2021 00:57	WG1653740
Carbon disulfide	U		0.0000962	0.00100	1	04/18/2021 00:57	WG1653740
Carbon tetrachloride	U		0.000128	0.00100	1	04/18/2021 00:57	WG1653740
Chlorobenzene	U		0.000116	0.00100	1	04/18/2021 00:57	WG1653740
Chlorodibromomethane	U		0.000140	0.00100	1	04/18/2021 00:57	WG1653740
Chloroethane	U		0.000192	0.00500	1	04/18/2021 00:57	WG1653740
Chloroform	U		0.000111	0.00500	1	04/18/2021 00:57	WG1653740
Chloromethane	U		0.000960	0.00250	1	04/18/2021 00:57	WG1653740
1,2-Dibromoethane	U		0.000126	0.00100	1	04/18/2021 00:57	WG1653740
1,1-Dichloroethane	U		0.000100	0.00100	1	04/18/2021 00:57	WG1653740
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/18/2021 00:57	WG1653740
1,1-Dichloroethene	U		0.000188	0.00100	1	04/18/2021 00:57	WG1653740
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/18/2021 00:57	WG1653740
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/18/2021 00:57	WG1653740
1,2-Dichloropropane	U		0.000149	0.00100	1	04/18/2021 00:57	WG1653740
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/18/2021 00:57	WG1653740
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/18/2021 00:57	WG1653740
Ethylbenzene	U		0.000137	0.00100	1	04/18/2021 00:57	WG1653740
Isopropylbenzene	U		0.000105	0.00100	1	04/18/2021 00:57	WG1653740
p-Isopropyltoluene	U		0.000120	0.00100	1	04/18/2021 00:57	WG1653740
2-Butanone (MEK)	U		0.00119	0.0100	1	04/18/2021 00:57	WG1653740
2-Hexanone	U		0.000787	0.0100	1	04/18/2021 00:57	WG1653740
Methylene Chloride	U		0.000430	0.00500	1	04/18/2021 00:57	WG1653740
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/18/2021 00:57	WG1653740
Methyl tert-butyl ether	0.00345		0.000101	0.00100	1	04/18/2021 00:57	WG1653740
Naphthalene	U		0.00100	0.00500	1	04/18/2021 00:57	WG1653740
n-Propylbenzene	U		0.0000993	0.00100	1	04/18/2021 00:57	WG1653740
Styrene	U		0.000118	0.00100	1	04/18/2021 00:57	WG1653740
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/18/2021 00:57	WG1653740
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/18/2021 00:57	WG1653740
Tetrachloroethene	U		0.000300	0.00100	1	04/18/2021 00:57	WG1653740

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Toluene	U		0.000278	0.00100	1	04/18/2021 00:57	WG1653740
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/18/2021 00:57	WG1653740
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/18/2021 00:57	WG1653740
Trichloroethene	U		0.000190	0.00100	1	04/18/2021 00:57	WG1653740
1,2,4-Trimethylbenzene	0.000418	J	0.000322	0.00100	1	04/18/2021 00:57	WG1653740
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/18/2021 00:57	WG1653740
Vinyl chloride	U		0.000234	0.00100	1	04/18/2021 00:57	WG1653740
o-Xylene	U		0.000174	0.00100	1	04/18/2021 00:57	WG1653740
m&p-Xylene	U		0.000430	0.00200	1	04/18/2021 00:57	WG1653740
Xylenes, Total	U		0.000174	0.00300	1	04/18/2021 00:57	WG1653740
(S) Toluene-d8	*108*			*80.0-120*		*04/18/2021 00:57*	WG1653740
(S) 4-Bromofluorobenzene	*114*			*77.0-126*		*04/18/2021 00:57*	WG1653740
(S) 1,2-Dichloroethane-d4	*97.0*			*70.0-130*		*04/18/2021 00:57*	WG1653740

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	2.86		0.0247	0.100	1	04/26/2021 02:58	WG1655290
(S) o-Terphenyl	*101*			*31.0-160*		*04/26/2021 02:58*	WG1655290

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	7480		200	1	04/16/2021 16:30	WG1653093

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.0500	0.100	1	05/03/2021 16:12	WG1661715

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	2200		37.9	100	100	04/21/2021 18:50	WG1655392
Fluoride	0.744		0.0640	0.150	1	04/21/2021 18:34	WG1655392
Sulfate	2440		59.4	500	100	04/21/2021 18:50	WG1655392

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00986		0.000180	0.00200	1	04/22/2021 21:51	WG1656780
Arsenic,Dissolved	0.00956		0.000180	0.00200	1	04/26/2021 10:19	WG1654935
Barium	0.0128	J	0.000381	0.0200	1	04/22/2021 21:51	WG1656780
Barium,Dissolved	0.0129	J	0.000381	0.0200	1	04/26/2021 10:19	WG1654935
Calcium	691		0.0936	1.00	1	04/22/2021 21:51	WG1656780
Chromium	U		0.00124	0.00200	1	04/22/2021 21:51	WG1656780
Chromium,Dissolved	U		0.00124	0.00200	1	04/26/2021 10:19	WG1654935
Iron	0.198	B	0.0281	0.100	1	04/22/2021 21:51	WG1656780
Iron,Dissolved	U		0.0281	0.100	1	04/26/2021 10:19	WG1654935
Lead	U		0.000849	0.00200	1	04/22/2021 21:51	WG1656780
Lead,Dissolved	U		0.000849	0.00200	1	04/26/2021 10:19	WG1654935
Manganese	6.01		0.000704	0.00500	1	04/22/2021 21:51	WG1656780
Manganese,Dissolved	6.32		0.000704	0.00500	1	04/26/2021 10:19	WG1654935
Potassium	9.76		0.108	2.00	1	04/22/2021 21:51	WG1656780
Selenium	0.000465	J	0.000300	0.00200	1	04/22/2021 21:51	WG1656780
Selenium,Dissolved	U		0.000300	0.00200	1	04/26/2021 10:19	WG1654935
Sodium	1500		1.88	10.0	5	04/22/2021 22:51	WG1656780

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	0.0690	J	0.0314	0.100	1	04/20/2021 13:56	WG1655063
(S) a,a,a-Trifluorotoluene(FID)	*101*			*78.0-120*		*04/20/2021 13:56*	WG1655063

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0113	0.0500	1	04/18/2021 01:18	WG1653740
Benzene	U		0.0000941	0.00100	1	04/18/2021 01:18	WG1653740
Bromodichloromethane	U		0.000136	0.00100	1	04/18/2021 01:18	WG1653740
Bromoform	U		0.000129	0.00100	1	04/18/2021 01:18	WG1653740
Bromomethane	U		0.000605	0.00500	1	04/18/2021 01:18	WG1653740
n-Butylbenzene	U		0.000157	0.00100	1	04/18/2021 01:18	WG1653740
sec-Butylbenzene	U		0.000125	0.00100	1	04/18/2021 01:18	WG1653740
Carbon disulfide	U		0.0000962	0.00100	1	04/18/2021 01:18	WG1653740
Carbon tetrachloride	U		0.000128	0.00100	1	04/18/2021 01:18	WG1653740

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/18/2021 01:18	WG1653740
Chlorodibromomethane	U		0.000140	0.00100	1	04/18/2021 01:18	WG1653740
Chloroethane	U		0.000192	0.00500	1	04/18/2021 01:18	WG1653740
Chloroform	U		0.000111	0.00500	1	04/18/2021 01:18	WG1653740
Chloromethane	U		0.000960	0.00250	1	04/18/2021 01:18	WG1653740
1,2-Dibromoethane	U		0.000126	0.00100	1	04/18/2021 01:18	WG1653740
1,1-Dichloroethane	U		0.000100	0.00100	1	04/18/2021 01:18	WG1653740
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/18/2021 01:18	WG1653740
1,1-Dichloroethene	U		0.000188	0.00100	1	04/18/2021 01:18	WG1653740
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/18/2021 01:18	WG1653740
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/18/2021 01:18	WG1653740
1,2-Dichloropropane	U		0.000149	0.00100	1	04/18/2021 01:18	WG1653740
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/18/2021 01:18	WG1653740
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/18/2021 01:18	WG1653740
Ethylbenzene	U		0.000137	0.00100	1	04/18/2021 01:18	WG1653740
Isopropylbenzene	U		0.000105	0.00100	1	04/18/2021 01:18	WG1653740
p-Isopropyltoluene	U		0.000120	0.00100	1	04/18/2021 01:18	WG1653740
2-Butanone (MEK)	U		0.00119	0.0100	1	04/18/2021 01:18	WG1653740
2-Hexanone	U		0.000787	0.0100	1	04/18/2021 01:18	WG1653740
Methylene Chloride	U		0.000430	0.00500	1	04/18/2021 01:18	WG1653740
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/18/2021 01:18	WG1653740
Methyl tert-butyl ether	0.000606	J	0.000101	0.00100	1	04/18/2021 01:18	WG1653740
Naphthalene	U		0.00100	0.00500	1	04/18/2021 01:18	WG1653740
n-Propylbenzene	U		0.0000993	0.00100	1	04/18/2021 01:18	WG1653740
Styrene	U		0.000118	0.00100	1	04/18/2021 01:18	WG1653740
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/18/2021 01:18	WG1653740
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/18/2021 01:18	WG1653740
Tetrachloroethene	U		0.000300	0.00100	1	04/18/2021 01:18	WG1653740
Toluene	U		0.000278	0.00100	1	04/18/2021 01:18	WG1653740
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/18/2021 01:18	WG1653740
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/18/2021 01:18	WG1653740
Trichloroethene	U		0.000190	0.00100	1	04/18/2021 01:18	WG1653740
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/18/2021 01:18	WG1653740
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/18/2021 01:18	WG1653740
Vinyl chloride	U		0.000234	0.00100	1	04/18/2021 01:18	WG1653740
o-Xylene	U		0.000174	0.00100	1	04/18/2021 01:18	WG1653740
m&p-Xylene	U		0.000430	0.00200	1	04/18/2021 01:18	WG1653740
Xylenes, Total	U		0.000174	0.00300	1	04/18/2021 01:18	WG1653740
(S) Toluene-d8	*109*			*80.0-120*		*04/18/2021 01:18*	WG1653740
(S) 4-Bromofluorobenzene	*111*			*77.0-126*		*04/18/2021 01:18*	WG1653740
(S) 1,2-Dichloroethane-d4	*99.9*			*70.0-130*		*04/18/2021 01:18*	WG1653740

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.632		0.0247	0.100	1	04/26/2021 03:18	WG1655290
(S) o-Terphenyl	*103*			*31.0-160*		*04/26/2021 03:18*	WG1655290

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	13500		100	1	04/20/2021 03:38	WG1654737

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0500	0.100	1	05/03/2021 16:13	WG1661715

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	3420		37.9	100	100	04/21/2021 19:23	WG1655392
Fluoride	1.32		0.0640	0.150	1	04/21/2021 19:07	WG1655392
Sulfate	3780		59.4	500	100	04/21/2021 19:23	WG1655392

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00657		0.000180	0.00200	1	04/22/2021 21:55	WG1656780
Arsenic,Dissolved	0.00530		0.000180	0.00200	1	04/26/2021 10:22	WG1654935
Barium	0.0156	J	0.000381	0.0200	1	04/22/2021 21:55	WG1656780
Barium,Dissolved	0.0158	J	0.000381	0.0200	1	04/26/2021 10:22	WG1654935
Calcium	649		0.0936	1.00	1	04/22/2021 21:55	WG1656780
Chromium	U		0.00124	0.00200	1	04/22/2021 21:55	WG1656780
Chromium,Dissolved	U		0.00124	0.00200	1	04/26/2021 10:22	WG1654935
Iron	0.881		0.0281	0.100	1	04/22/2021 21:55	WG1656780
Iron,Dissolved	U		0.0281	0.100	1	04/26/2021 10:22	WG1654935
Lead	U		0.000849	0.00200	1	04/22/2021 21:55	WG1656780
Lead,Dissolved	U		0.000849	0.00200	1	04/26/2021 10:22	WG1654935
Manganese	1.08		0.000704	0.00500	1	04/22/2021 21:55	WG1656780
Manganese,Dissolved	1.16		0.000704	0.00500	1	04/26/2021 10:22	WG1654935
Potassium	22.1		0.108	2.00	1	04/22/2021 21:55	WG1656780
Selenium	U		0.000300	0.00200	1	04/22/2021 21:55	WG1656780
Selenium,Dissolved	U		0.000300	0.00200	1	04/26/2021 10:22	WG1654935
Sodium	2640		1.88	10.0	5	04/22/2021 22:54	WG1656780

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/20/2021 14:18	WG1655063
(S) a,a,a-Trifluorotoluene(FID)	*101*			*78.0-120*		*04/20/2021 14:18*	WG1655063

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/18/2021 01:38	WG1653740
Benzene	U		0.0000941	0.00100	1	04/18/2021 01:38	WG1653740
Bromodichloromethane	U		0.000136	0.00100	1	04/18/2021 01:38	WG1653740
Bromoform	U		0.000129	0.00100	1	04/18/2021 01:38	WG1653740
Bromomethane	U		0.000605	0.00500	1	04/18/2021 01:38	WG1653740
n-Butylbenzene	U		0.000157	0.00100	1	04/18/2021 01:38	WG1653740
sec-Butylbenzene	U		0.000125	0.00100	1	04/18/2021 01:38	WG1653740
Carbon disulfide	U		0.0000962	0.00100	1	04/18/2021 01:38	WG1653740
Carbon tetrachloride	U		0.000128	0.00100	1	04/18/2021 01:38	WG1653740

MW-67
Collected date/time: 04/13/21 10:00
L1339352

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/18/2021 01:38	WG1653740
Chlorodibromomethane	U		0.000140	0.00100	1	04/18/2021 01:38	WG1653740
Chloroethane	U		0.000192	0.00500	1	04/18/2021 01:38	WG1653740
Chloroform	U		0.000111	0.00500	1	04/18/2021 01:38	WG1653740
Chloromethane	U		0.000960	0.00250	1	04/18/2021 01:38	WG1653740
1,2-Dibromoethane	U		0.000126	0.00100	1	04/18/2021 01:38	WG1653740
1,1-Dichloroethane	U		0.000100	0.00100	1	04/18/2021 01:38	WG1653740
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/18/2021 01:38	WG1653740
1,1-Dichloroethene	U		0.000188	0.00100	1	04/18/2021 01:38	WG1653740
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/18/2021 01:38	WG1653740
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/18/2021 01:38	WG1653740
1,2-Dichloropropane	U		0.000149	0.00100	1	04/18/2021 01:38	WG1653740
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/18/2021 01:38	WG1653740
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/18/2021 01:38	WG1653740
Ethylbenzene	U		0.000137	0.00100	1	04/18/2021 01:38	WG1653740
Isopropylbenzene	U		0.000105	0.00100	1	04/18/2021 01:38	WG1653740
p-Isopropyltoluene	U		0.000120	0.00100	1	04/18/2021 01:38	WG1653740
2-Butanone (MEK)	U		0.00119	0.0100	1	04/18/2021 01:38	WG1653740
2-Hexanone	U		0.000787	0.0100	1	04/18/2021 01:38	WG1653740
Methylene Chloride	U		0.000430	0.00500	1	04/18/2021 01:38	WG1653740
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/18/2021 01:38	WG1653740
Methyl tert-butyl ether	0.000558	J	0.000101	0.00100	1	04/18/2021 01:38	WG1653740
Naphthalene	U		0.00100	0.00500	1	04/18/2021 01:38	WG1653740
n-Propylbenzene	U		0.0000993	0.00100	1	04/18/2021 01:38	WG1653740
Styrene	U		0.000118	0.00100	1	04/18/2021 01:38	WG1653740
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/18/2021 01:38	WG1653740
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/18/2021 01:38	WG1653740
Tetrachloroethene	U		0.000300	0.00100	1	04/18/2021 01:38	WG1653740
Toluene	U		0.000278	0.00100	1	04/18/2021 01:38	WG1653740
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/18/2021 01:38	WG1653740
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/18/2021 01:38	WG1653740
Trichloroethene	U		0.000190	0.00100	1	04/18/2021 01:38	WG1653740
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/18/2021 01:38	WG1653740
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/18/2021 01:38	WG1653740
Vinyl chloride	U		0.000234	0.00100	1	04/18/2021 01:38	WG1653740
o-Xylene	U		0.000174	0.00100	1	04/18/2021 01:38	WG1653740
m&p-Xylene	U		0.000430	0.00200	1	04/18/2021 01:38	WG1653740
Xylenes, Total	U		0.000174	0.00300	1	04/18/2021 01:38	WG1653740
(S) Toluene-d8	*108*			*80.0-120*		*04/18/2021 01:38*	WG1653740
(S) 4-Bromofluorobenzene	*108*			*77.0-126*		*04/18/2021 01:38*	WG1653740
(S) 1,2-Dichloroethane-d4	*96.3*			*70.0-130*		*04/18/2021 01:38*	WG1653740

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.371		0.0247	0.100	1	04/26/2021 03:38	WG1655290
(S) o-Terphenyl	*94.5*			*31.0-160*		*04/26/2021 03:38*	WG1655290

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	15600		400	1	04/16/2021 16:30	WG1653093

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.0500	0.100	1	05/03/2021 16:15	WG1661715

Wet Chemistry by Method 4500CN E-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Cyanide	U		0.00180	0.00500	1	04/23/2021 16:23	WG1656330

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	5540		37.9	100	100	04/21/2021 21:51	WG1655392
Fluoride	2.60		0.320	0.750	5	04/21/2021 21:35	WG1655392
Sulfate	5570		59.4	500	100	04/21/2021 21:51	WG1655392

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.000100	0.000200	1	04/18/2021 13:55	WG1652886
Mercury,Dissolved	U		0.000100	0.000200	1	04/20/2021 11:52	WG1652891

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Boron	1.93		0.0200	0.200	1	04/26/2021 11:57	WG1656874
Boron,Dissolved	1.91		0.0200	0.200	1	04/22/2021 17:05	WG1656496

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00467		0.000180	0.00200	1	04/26/2021 20:24	WG1656883
Arsenic,Dissolved	0.00571		0.000180	0.00200	1	04/26/2021 10:25	WG1654935
Barium	0.0160	J	0.000381	0.0200	1	04/26/2021 20:24	WG1656883
Barium,Dissolved	0.0184	J	0.000381	0.0200	1	04/26/2021 10:25	WG1654935
Cadmium	U		0.000150	0.00100	1	04/26/2021 20:24	WG1656883
Cadmium,Dissolved	U		0.000150	0.00100	1	04/26/2021 10:25	WG1654935
Calcium	661		0.0936	1.00	1	04/26/2021 20:24	WG1656883
Chromium	0.00204	B	0.00124	0.00200	1	04/26/2021 20:24	WG1656883
Chromium,Dissolved	U		0.00124	0.00200	1	04/26/2021 10:25	WG1654935
Cobalt	0.000366	J	0.0000596	0.00200	1	04/26/2021 20:24	WG1656883
Cobalt,Dissolved	0.000457	J	0.0000596	0.00200	1	04/26/2021 10:25	WG1654935
Iron	0.0895	B J	0.0281	0.100	1	04/26/2021 20:24	WG1656883
Iron,Dissolved	U		0.0281	0.100	1	04/26/2021 10:25	WG1654935
Lead	U		0.000849	0.00200	1	04/26/2021 20:24	WG1656883
Lead,Dissolved	0.000998	J	0.000849	0.00200	1	04/26/2021 10:25	WG1654935
Manganese	0.0562		0.000704	0.00500	1	04/26/2021 20:24	WG1656883
Manganese,Dissolved	0.0580		0.000704	0.00500	1	04/26/2021 10:25	WG1654935
Nickel	0.0122		0.000816	0.00200	1	04/26/2021 20:24	WG1656883
Nickel,Dissolved	0.0114		0.000816	0.00200	1	04/26/2021 10:25	WG1654935

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Potassium	39.9		0.108	2.00	1	04/26/2021 20:24	WG1656883
Selenium	0.000977	J	0.000300	0.00200	1	04/26/2021 20:24	WG1656883
Selenium,Dissolved	0.000639	J	0.000300	0.00200	1	04/26/2021 10:25	WG1654935
Sodium	3700		1.88	10.0	5	04/26/2021 20:44	WG1656883
Uranium	0.0275		0.0000700	0.0200	1	04/26/2021 20:24	WG1656883
Uranium,Dissolved	0.0283		0.0000700	0.0200	1	04/26/2021 10:25	WG1654935
Vanadium	U		0.000664	0.00500	1	04/26/2021 20:24	WG1656883
Vanadium,Dissolved	U		0.000664	0.00500	1	04/26/2021 10:25	WG1654935

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/18/2021 01:59	WG1653740
Benzene	U		0.0000941	0.00100	1	04/18/2021 01:59	WG1653740
Bromodichloromethane	U		0.000136	0.00100	1	04/18/2021 01:59	WG1653740
Bromoform	U		0.000129	0.00100	1	04/18/2021 01:59	WG1653740
Bromomethane	U		0.000605	0.00500	1	04/18/2021 01:59	WG1653740
n-Butylbenzene	U		0.000157	0.00100	1	04/18/2021 01:59	WG1653740
sec-Butylbenzene	U		0.000125	0.00100	1	04/18/2021 01:59	WG1653740
Carbon disulfide	U		0.0000962	0.00100	1	04/18/2021 01:59	WG1653740
Carbon tetrachloride	U		0.000128	0.00100	1	04/18/2021 01:59	WG1653740
Chlorobenzene	U		0.000116	0.00100	1	04/18/2021 01:59	WG1653740
Chlorodibromomethane	U		0.000140	0.00100	1	04/18/2021 01:59	WG1653740
Chloroethane	U		0.000192	0.00500	1	04/18/2021 01:59	WG1653740
Chloroform	U		0.000111	0.00500	1	04/18/2021 01:59	WG1653740
Chloromethane	U		0.000960	0.00250	1	04/18/2021 01:59	WG1653740
1,2-Dibromoethane	U		0.000126	0.00100	1	04/18/2021 01:59	WG1653740
1,1-Dichloroethane	U		0.000100	0.00100	1	04/18/2021 01:59	WG1653740
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/18/2021 01:59	WG1653740
1,1-Dichloroethene	U		0.000188	0.00100	1	04/18/2021 01:59	WG1653740
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/18/2021 01:59	WG1653740
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/18/2021 01:59	WG1653740
1,2-Dichloropropane	U		0.000149	0.00100	1	04/18/2021 01:59	WG1653740
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/18/2021 01:59	WG1653740
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/18/2021 01:59	WG1653740
Ethylbenzene	U		0.000137	0.00100	1	04/18/2021 01:59	WG1653740
Isopropylbenzene	U		0.000105	0.00100	1	04/18/2021 01:59	WG1653740
p-Isopropyltoluene	U		0.000120	0.00100	1	04/18/2021 01:59	WG1653740
2-Butanone (MEK)	U		0.00119	0.0100	1	04/18/2021 01:59	WG1653740
2-Hexanone	U		0.000787	0.0100	1	04/18/2021 01:59	WG1653740
Methylene Chloride	U		0.000430	0.00500	1	04/18/2021 01:59	WG1653740
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/18/2021 01:59	WG1653740
Methyl tert-butyl ether	0.000522	J	0.000101	0.00100	1	04/18/2021 01:59	WG1653740
Naphthalene	U		0.00100	0.00500	1	04/18/2021 01:59	WG1653740
n-Propylbenzene	U		0.0000993	0.00100	1	04/18/2021 01:59	WG1653740
Styrene	U		0.000118	0.00100	1	04/18/2021 01:59	WG1653740
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/18/2021 01:59	WG1653740
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/18/2021 01:59	WG1653740
Tetrachloroethene	U		0.000300	0.00100	1	04/18/2021 01:59	WG1653740
Toluene	U		0.000278	0.00100	1	04/18/2021 01:59	WG1653740
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/18/2021 01:59	WG1653740
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/18/2021 01:59	WG1653740
Trichloroethene	U		0.000190	0.00100	1	04/18/2021 01:59	WG1653740
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/18/2021 01:59	WG1653740
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/18/2021 01:59	WG1653740
Vinyl chloride	U		0.000234	0.00100	1	04/18/2021 01:59	WG1653740

MW-18A
Collected date/time: 04/13/21 10:45
L1339352

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
o-Xylene	U		0.000174	0.00100	1	04/18/2021 01:59	WG1653740
m&p-Xylene	U		0.000430	0.00200	1	04/18/2021 01:59	WG1653740
Xylenes, Total	U		0.000174	0.00300	1	04/18/2021 01:59	WG1653740
(S) Toluene-d8	*109*			*80.0-120*		*04/18/2021 01:59*	WG1653740
(S) 4-Bromofluorobenzene	*109*			*77.0-126*		*04/18/2021 01:59*	WG1653740
(S) 1,2-Dichloroethane-d4	*95.4*			*70.0-130*		*04/18/2021 01:59*	WG1653740

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.518		0.0247	0.100	1	04/26/2021 03:59	WG1655290
(S) o-Terphenyl	*93.5*			*31.0-160*		*04/26/2021 03:59*	WG1655290

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4350		20.0	1	04/20/2021 03:38	WG1654737

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0500	0.100	1	05/03/2021 16:16	WG1661715

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	821		19.0	50.0	50	04/21/2021 22:24	WG1655392
Fluoride	0.802		0.0640	0.150	1	04/21/2021 22:08	WG1655392
Sulfate	1790		29.7	250	50	04/21/2021 22:24	WG1655392

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00806		0.000180	0.00200	1	04/26/2021 20:27	WG1656883
Arsenic,Dissolved	0.00878		0.000180	0.00200	1	04/26/2021 10:29	WG1654935
Barium	0.0137	J	0.000381	0.0200	1	04/26/2021 20:27	WG1656883
Barium,Dissolved	0.0146	J	0.000381	0.0200	1	04/26/2021 10:29	WG1654935
Calcium	612		0.0936	1.00	1	04/26/2021 20:27	WG1656883
Chromium	U		0.00124	0.00200	1	04/26/2021 20:27	WG1656883
Chromium,Dissolved	U		0.00124	0.00200	1	04/26/2021 10:29	WG1654935
Iron	0.0497	B J	0.0281	0.100	1	04/26/2021 20:27	WG1656883
Iron,Dissolved	U		0.0281	0.100	1	04/26/2021 10:29	WG1654935
Lead	U		0.000849	0.00200	1	04/26/2021 20:27	WG1656883
Lead,Dissolved	0.00464		0.000849	0.00200	1	04/26/2021 10:29	WG1654935
Manganese	1.09		0.000704	0.00500	1	04/26/2021 20:27	WG1656883
Manganese,Dissolved	1.09		0.000704	0.00500	1	04/26/2021 10:29	WG1654935
Potassium	6.66		0.108	2.00	1	04/26/2021 20:27	WG1656883
Selenium	U		0.000300	0.00200	1	04/26/2021 20:27	WG1656883
Selenium,Dissolved	U		0.000300	0.00200	1	04/26/2021 10:29	WG1654935
Sodium	534		0.376	2.00	1	04/26/2021 20:27	WG1656883

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0456	J	0.0314	0.100	1	04/20/2021 14:39	WG1655063
(S) a,a,a-Trifluorotoluene(FID)	*102*			*78.0-120*		*04/20/2021 14:39*	WG1655063

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/18/2021 02:19	WG1653740
Benzene	U		0.0000941	0.00100	1	04/18/2021 02:19	WG1653740
Bromodichloromethane	U		0.000136	0.00100	1	04/18/2021 02:19	WG1653740
Bromoform	U		0.000129	0.00100	1	04/18/2021 02:19	WG1653740
Bromomethane	U		0.000605	0.00500	1	04/18/2021 02:19	WG1653740
n-Butylbenzene	U		0.000157	0.00100	1	04/18/2021 02:19	WG1653740
sec-Butylbenzene	U		0.000125	0.00100	1	04/18/2021 02:19	WG1653740
Carbon disulfide	U		0.0000962	0.00100	1	04/18/2021 02:19	WG1653740
Carbon tetrachloride	U		0.000128	0.00100	1	04/18/2021 02:19	WG1653740

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/18/2021 02:19	WG1653740
Chlorodibromomethane	U		0.000140	0.00100	1	04/18/2021 02:19	WG1653740
Chloroethane	U		0.000192	0.00500	1	04/18/2021 02:19	WG1653740
Chloroform	U		0.000111	0.00500	1	04/18/2021 02:19	WG1653740
Chloromethane	U		0.000960	0.00250	1	04/18/2021 02:19	WG1653740
1,2-Dibromoethane	U		0.000126	0.00100	1	04/18/2021 02:19	WG1653740
1,1-Dichloroethane	U		0.000100	0.00100	1	04/18/2021 02:19	WG1653740
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/18/2021 02:19	WG1653740
1,1-Dichloroethene	U		0.000188	0.00100	1	04/18/2021 02:19	WG1653740
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/18/2021 02:19	WG1653740
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/18/2021 02:19	WG1653740
1,2-Dichloropropane	U		0.000149	0.00100	1	04/18/2021 02:19	WG1653740
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/18/2021 02:19	WG1653740
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/18/2021 02:19	WG1653740
Ethylbenzene	U		0.000137	0.00100	1	04/18/2021 02:19	WG1653740
Isopropylbenzene	U		0.000105	0.00100	1	04/18/2021 02:19	WG1653740
p-Isopropyltoluene	U		0.000120	0.00100	1	04/18/2021 02:19	WG1653740
2-Butanone (MEK)	U		0.00119	0.0100	1	04/18/2021 02:19	WG1653740
2-Hexanone	U		0.000787	0.0100	1	04/18/2021 02:19	WG1653740
Methylene Chloride	U		0.000430	0.00500	1	04/18/2021 02:19	WG1653740
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/18/2021 02:19	WG1653740
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/18/2021 02:19	WG1653740
Naphthalene	U		0.00100	0.00500	1	04/18/2021 02:19	WG1653740
n-Propylbenzene	U		0.0000993	0.00100	1	04/18/2021 02:19	WG1653740
Styrene	U		0.000118	0.00100	1	04/18/2021 02:19	WG1653740
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/18/2021 02:19	WG1653740
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/18/2021 02:19	WG1653740
Tetrachloroethene	U		0.000300	0.00100	1	04/18/2021 02:19	WG1653740
Toluene	U		0.000278	0.00100	1	04/18/2021 02:19	WG1653740
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/18/2021 02:19	WG1653740
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/18/2021 02:19	WG1653740
Trichloroethene	U		0.000190	0.00100	1	04/18/2021 02:19	WG1653740
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/18/2021 02:19	WG1653740
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/18/2021 02:19	WG1653740
Vinyl chloride	U		0.000234	0.00100	1	04/18/2021 02:19	WG1653740
o-Xylene	U		0.000174	0.00100	1	04/18/2021 02:19	WG1653740
m&p-Xylene	U		0.000430	0.00200	1	04/18/2021 02:19	WG1653740
Xylenes, Total	U		0.000174	0.00300	1	04/18/2021 02:19	WG1653740
(S) Toluene-d8	*108*			*80.0-120*		*04/18/2021 02:19*	WG1653740
(S) 4-Bromofluorobenzene	*109*			*77.0-126*		*04/18/2021 02:19*	WG1653740
(S) 1,2-Dichloroethane-d4	*96.8*			*70.0-130*		*04/18/2021 02:19*	WG1653740

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.335		0.0247	0.100	1	04/26/2021 04:19	WG1655290
(S) o-Terphenyl	*98.5*			*31.0-160*		*04/26/2021 04:19*	WG1655290

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	5790		50.0	1	04/20/2021 03:38	WG1654737

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0500	0.100	1	05/03/2021 16:21	WG1661715

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1200		37.9	100	100	04/21/2021 22:57	WG1655392
Fluoride	0.595		0.0640	0.150	1	04/21/2021 22:40	WG1655392
Sulfate	2060		59.4	500	100	04/21/2021 22:57	WG1655392

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0168		0.000180	0.00200	1	04/26/2021 20:30	WG1656883
Arsenic,Dissolved	0.0166		0.000180	0.00200	1	04/26/2021 10:32	WG1654935
Barium	0.0144	J	0.000381	0.0200	1	04/26/2021 20:30	WG1656883
Barium,Dissolved	0.0155	J	0.000381	0.0200	1	04/26/2021 10:32	WG1654935
Calcium	740		0.0936	1.00	1	04/26/2021 20:30	WG1656883
Chromium	U		0.00124	0.00200	1	04/26/2021 20:30	WG1656883
Chromium,Dissolved	0.00259		0.00124	0.00200	1	04/26/2021 10:32	WG1654935
Iron	1.78		0.0281	0.100	1	04/26/2021 20:30	WG1656883
Iron,Dissolved	U		0.0281	0.100	1	04/26/2021 10:32	WG1654935
Lead	U		0.000849	0.00200	1	04/26/2021 20:30	WG1656883
Lead,Dissolved	U		0.000849	0.00200	1	04/26/2021 10:32	WG1654935
Manganese	0.0996		0.000704	0.00500	1	04/26/2021 20:30	WG1656883
Manganese,Dissolved	0.102		0.000704	0.00500	1	04/26/2021 10:32	WG1654935
Potassium	5.52		0.108	2.00	1	04/26/2021 20:30	WG1656883
Selenium	U		0.000300	0.00200	1	04/26/2021 20:30	WG1656883
Selenium,Dissolved	U		0.000300	0.00200	1	04/26/2021 10:32	WG1654935
Sodium	832		0.376	2.00	1	04/26/2021 20:30	WG1656883

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	1.57		0.0314	0.100	1	04/20/2021 15:01	WG1655063
(S) a,a,a-Trifluorotoluene(FID)	*102*			*78.0-120*		*04/20/2021 15:01*	WG1655063

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/18/2021 02:39	WG1653740
Benzene	U		0.0000941	0.00100	1	04/18/2021 02:39	WG1653740
Bromodichloromethane	U		0.000136	0.00100	1	04/18/2021 02:39	WG1653740
Bromoform	U		0.000129	0.00100	1	04/18/2021 02:39	WG1653740
Bromomethane	U		0.000605	0.00500	1	04/18/2021 02:39	WG1653740
n-Butylbenzene	U		0.000157	0.00100	1	04/18/2021 02:39	WG1653740
sec-Butylbenzene	U		0.000125	0.00100	1	04/18/2021 02:39	WG1653740
Carbon disulfide	U		0.0000962	0.00100	1	04/18/2021 02:39	WG1653740
Carbon tetrachloride	U		0.000128	0.00100	1	04/18/2021 02:39	WG1653740

MW-70
Collected date/time: 04/13/21 12:10
L1339352

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/18/2021 02:39	WG1653740
Chlorodibromomethane	U		0.000140	0.00100	1	04/18/2021 02:39	WG1653740
Chloroethane	U		0.000192	0.00500	1	04/18/2021 02:39	WG1653740
Chloroform	U		0.000111	0.00500	1	04/18/2021 02:39	WG1653740
Chloromethane	U		0.000960	0.00250	1	04/18/2021 02:39	WG1653740
1,2-Dibromoethane	U		0.000126	0.00100	1	04/18/2021 02:39	WG1653740
1,1-Dichloroethane	U		0.000100	0.00100	1	04/18/2021 02:39	WG1653740
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/18/2021 02:39	WG1653740
1,1-Dichloroethene	U		0.000188	0.00100	1	04/18/2021 02:39	WG1653740
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/18/2021 02:39	WG1653740
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/18/2021 02:39	WG1653740
1,2-Dichloropropane	U		0.000149	0.00100	1	04/18/2021 02:39	WG1653740
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/18/2021 02:39	WG1653740
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/18/2021 02:39	WG1653740
Ethylbenzene	U		0.000137	0.00100	1	04/18/2021 02:39	WG1653740
Isopropylbenzene	U		0.000105	0.00100	1	04/18/2021 02:39	WG1653740
p-Isopropyltoluene	U		0.000120	0.00100	1	04/18/2021 02:39	WG1653740
2-Butanone (MEK)	U		0.00119	0.0100	1	04/18/2021 02:39	WG1653740
2-Hexanone	U		0.000787	0.0100	1	04/18/2021 02:39	WG1653740
Methylene Chloride	U		0.000430	0.00500	1	04/18/2021 02:39	WG1653740
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/18/2021 02:39	WG1653740
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/18/2021 02:39	WG1653740
Naphthalene	U		0.00100	0.00500	1	04/18/2021 02:39	WG1653740
n-Propylbenzene	U		0.0000993	0.00100	1	04/18/2021 02:39	WG1653740
Styrene	U		0.000118	0.00100	1	04/18/2021 02:39	WG1653740
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/18/2021 02:39	WG1653740
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/18/2021 02:39	WG1653740
Tetrachloroethene	U		0.000300	0.00100	1	04/18/2021 02:39	WG1653740
Toluene	U		0.000278	0.00100	1	04/18/2021 02:39	WG1653740
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/18/2021 02:39	WG1653740
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/18/2021 02:39	WG1653740
Trichloroethene	U		0.000190	0.00100	1	04/18/2021 02:39	WG1653740
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/18/2021 02:39	WG1653740
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/18/2021 02:39	WG1653740
Vinyl chloride	U		0.000234	0.00100	1	04/18/2021 02:39	WG1653740
o-Xylene	U		0.000174	0.00100	1	04/18/2021 02:39	WG1653740
m&p-Xylene	U		0.000430	0.00200	1	04/18/2021 02:39	WG1653740
Xylenes, Total	U		0.000174	0.00300	1	04/18/2021 02:39	WG1653740
(S) Toluene-d8	*106*			*80.0-120*		*04/18/2021 02:39*	WG1653740
(S) 4-Bromofluorobenzene	*113*			*77.0-126*		*04/18/2021 02:39*	WG1653740
(S) 1,2-Dichloroethane-d4	*96.2*			*70.0-130*		*04/18/2021 02:39*	WG1653740

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	1.05		0.0247	0.100	1	04/26/2021 04:39	WG1655290
(S) o-Terphenyl	*100*			*31.0-160*		*04/26/2021 04:39*	WG1655290

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	10500		100	1	04/20/2021 03:38	WG1654737

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.0985	J	0.0500	0.100	1	05/03/2021 16:22	WG1661715

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	3080		37.9	100	100	04/21/2021 23:30	WG1655392
Fluoride	0.949		0.0640	0.150	1	04/21/2021 23:13	WG1655392
Sulfate	3580		59.4	500	100	04/21/2021 23:30	WG1655392

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00144	J	0.000180	0.00200	1	04/26/2021 20:34	WG1656883
Arsenic,Dissolved	0.000375	J	0.000180	0.00200	1	04/26/2021 00:34	WG1655933
Barium	0.0180	J	0.000381	0.0200	1	04/26/2021 20:34	WG1656883
Barium,Dissolved	0.0164	J	0.000381	0.0200	1	04/26/2021 00:34	WG1655933
Calcium	792		0.0936	1.00	1	04/26/2021 20:34	WG1656883
Chromium	U		0.00124	0.00200	1	04/26/2021 20:34	WG1656883
Chromium,Dissolved	U		0.00124	0.00200	1	04/26/2021 00:34	WG1655933
Iron	3.65		0.0281	0.100	1	04/26/2021 20:34	WG1656883
Iron,Dissolved	U		0.0281	0.100	1	04/26/2021 00:34	WG1655933
Lead	U		0.000849	0.00200	1	04/26/2021 20:34	WG1656883
Lead,Dissolved	U		0.000849	0.00200	1	04/26/2021 00:34	WG1655933
Manganese	0.390		0.000704	0.00500	1	04/26/2021 20:34	WG1656883
Manganese,Dissolved	0.274		0.000704	0.00500	1	04/26/2021 00:34	WG1655933
Potassium	6.88		0.108	2.00	1	04/26/2021 20:34	WG1656883
Selenium	U		0.000300	0.00200	1	04/26/2021 20:34	WG1656883
Selenium,Dissolved	U		0.000300	0.00200	1	04/26/2021 00:34	WG1655933
Sodium	1750		1.88	10.0	5	04/26/2021 20:47	WG1656883

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/20/2021 15:23	WG1655063
(S) a,a,a-Trifluorotoluene(FID)	*102*			*78.0-120*		*04/20/2021 15:23*	WG1655063

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/18/2021 03:00	WG1653740
Benzene	U		0.0000941	0.00100	1	04/18/2021 03:00	WG1653740
Bromodichloromethane	U		0.000136	0.00100	1	04/18/2021 03:00	WG1653740
Bromoform	U		0.000129	0.00100	1	04/18/2021 03:00	WG1653740
Bromomethane	U		0.000605	0.00500	1	04/18/2021 03:00	WG1653740
n-Butylbenzene	U		0.000157	0.00100	1	04/18/2021 03:00	WG1653740
sec-Butylbenzene	U		0.000125	0.00100	1	04/18/2021 03:00	WG1653740
Carbon disulfide	U		0.0000962	0.00100	1	04/18/2021 03:00	WG1653740
Carbon tetrachloride	U		0.000128	0.00100	1	04/18/2021 03:00	WG1653740

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/18/2021 03:00	WG1653740
Chlorodibromomethane	U		0.000140	0.00100	1	04/18/2021 03:00	WG1653740
Chloroethane	U		0.000192	0.00500	1	04/18/2021 03:00	WG1653740
Chloroform	U		0.000111	0.00500	1	04/18/2021 03:00	WG1653740
Chloromethane	U		0.000960	0.00250	1	04/18/2021 03:00	WG1653740
1,2-Dibromoethane	U		0.000126	0.00100	1	04/18/2021 03:00	WG1653740
1,1-Dichloroethane	U		0.000100	0.00100	1	04/18/2021 03:00	WG1653740
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/18/2021 03:00	WG1653740
1,1-Dichloroethene	U		0.000188	0.00100	1	04/18/2021 03:00	WG1653740
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/18/2021 03:00	WG1653740
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/18/2021 03:00	WG1653740
1,2-Dichloropropane	U		0.000149	0.00100	1	04/18/2021 03:00	WG1653740
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/18/2021 03:00	WG1653740
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/18/2021 03:00	WG1653740
Ethylbenzene	U		0.000137	0.00100	1	04/18/2021 03:00	WG1653740
Isopropylbenzene	U		0.000105	0.00100	1	04/18/2021 03:00	WG1653740
p-Isopropyltoluene	U		0.000120	0.00100	1	04/18/2021 03:00	WG1653740
2-Butanone (MEK)	U		0.00119	0.0100	1	04/18/2021 03:00	WG1653740
2-Hexanone	U		0.000787	0.0100	1	04/18/2021 03:00	WG1653740
Methylene Chloride	U		0.000430	0.00500	1	04/18/2021 03:00	WG1653740
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/18/2021 03:00	WG1653740
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/18/2021 03:00	WG1653740
Naphthalene	U		0.00100	0.00500	1	04/18/2021 03:00	WG1653740
n-Propylbenzene	U		0.0000993	0.00100	1	04/18/2021 03:00	WG1653740
Styrene	U		0.000118	0.00100	1	04/18/2021 03:00	WG1653740
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/18/2021 03:00	WG1653740
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/18/2021 03:00	WG1653740
Tetrachloroethene	U		0.000300	0.00100	1	04/18/2021 03:00	WG1653740
Toluene	U		0.000278	0.00100	1	04/18/2021 03:00	WG1653740
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/18/2021 03:00	WG1653740
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/18/2021 03:00	WG1653740
Trichloroethene	U		0.000190	0.00100	1	04/18/2021 03:00	WG1653740
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/18/2021 03:00	WG1653740
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/18/2021 03:00	WG1653740
Vinyl chloride	U		0.000234	0.00100	1	04/18/2021 03:00	WG1653740
o-Xylene	U		0.000174	0.00100	1	04/18/2021 03:00	WG1653740
m&p-Xylene	U		0.000430	0.00200	1	04/18/2021 03:00	WG1653740
Xylenes, Total	U		0.000174	0.00300	1	04/18/2021 03:00	WG1653740
(S) Toluene-d8	*108*			*80.0-120*		*04/18/2021 03:00*	WG1653740
(S) 4-Bromofluorobenzene	*107*			*77.0-126*		*04/18/2021 03:00*	WG1653740
(S) 1,2-Dichloroethane-d4	*96.6*			*70.0-130*		*04/18/2021 03:00*	WG1653740

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0508	J	0.0247	0.100	1	04/22/2021 21:37	WG1655290
(S) o-Terphenyl	*81.5*			*31.0-160*		*04/22/2021 21:37*	WG1655290

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	6460		50.0	1	04/20/2021 03:38	WG1654737

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0500	0.100	1	05/03/2021 16:23	WG1661715

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	2870		37.9	100	100	04/22/2021 00:36	WG1655392
Fluoride	1.15		0.0640	0.150	1	04/22/2021 00:19	WG1655392
Sulfate	3460		59.4	500	100	04/22/2021 00:36	WG1655392

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0235		0.000180	0.00200	1	04/26/2021 20:37	WG1656883
Arsenic,Dissolved	0.00926		0.000180	0.00200	1	04/26/2021 01:10	WG1655933
Barium	0.0158	J	0.000381	0.0200	1	04/26/2021 20:37	WG1656883
Barium,Dissolved	0.0147	J	0.000381	0.0200	1	04/26/2021 01:10	WG1655933
Calcium	341		0.0936	1.00	1	04/26/2021 20:37	WG1656883
Chromium	0.00392	B	0.00124	0.00200	1	04/26/2021 20:37	WG1656883
Chromium,Dissolved	U		0.00124	0.00200	1	04/26/2021 01:10	WG1655933
Iron	3.45		0.0281	0.100	1	04/26/2021 20:37	WG1656883
Iron,Dissolved	U		0.0281	0.100	1	04/26/2021 01:10	WG1655933
Lead	U		0.000849	0.00200	1	04/26/2021 20:37	WG1656883
Lead,Dissolved	U		0.000849	0.00200	1	04/26/2021 01:10	WG1655933
Manganese	0.477		0.000704	0.00500	1	04/26/2021 20:37	WG1656883
Manganese,Dissolved	0.409		0.000704	0.00500	1	04/26/2021 01:10	WG1655933
Potassium	3.93		0.108	2.00	1	04/26/2021 20:37	WG1656883
Selenium	0.000495	J	0.000300	0.00200	1	04/26/2021 20:37	WG1656883
Selenium,Dissolved	U		0.000300	0.00200	1	04/26/2021 01:10	WG1655933
Sodium	1430		1.88	10.0	5	04/26/2021 20:50	WG1656883

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.358		0.0314	0.100	1	04/20/2021 15:45	WG1655063
(S) a,a,a-Trifluorotoluene(FID)	*102*			*78.0-120*		*04/20/2021 15:45*	WG1655063

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/18/2021 03:20	WG1653740
Benzene	U		0.0000941	0.00100	1	04/18/2021 03:20	WG1653740
Bromodichloromethane	U		0.000136	0.00100	1	04/18/2021 03:20	WG1653740
Bromoform	U		0.000129	0.00100	1	04/18/2021 03:20	WG1653740
Bromomethane	U		0.000605	0.00500	1	04/18/2021 03:20	WG1653740
n-Butylbenzene	U		0.000157	0.00100	1	04/18/2021 03:20	WG1653740
sec-Butylbenzene	U		0.000125	0.00100	1	04/18/2021 03:20	WG1653740
Carbon disulfide	U		0.0000962	0.00100	1	04/18/2021 03:20	WG1653740
Carbon tetrachloride	U		0.000128	0.00100	1	04/18/2021 03:20	WG1653740

DUP-LI-01
Collected date/time: 04/13/21 10:00
L1339352

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/18/2021 03:20	WG1653740
Chlorodibromomethane	U		0.000140	0.00100	1	04/18/2021 03:20	WG1653740
Chloroethane	U		0.000192	0.00500	1	04/18/2021 03:20	WG1653740
Chloroform	U		0.000111	0.00500	1	04/18/2021 03:20	WG1653740
Chloromethane	U		0.000960	0.00250	1	04/18/2021 03:20	WG1653740
1,2-Dibromoethane	U		0.000126	0.00100	1	04/18/2021 03:20	WG1653740
1,1-Dichloroethane	U		0.000100	0.00100	1	04/18/2021 03:20	WG1653740
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/18/2021 03:20	WG1653740
1,1-Dichloroethene	U		0.000188	0.00100	1	04/18/2021 03:20	WG1653740
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/18/2021 03:20	WG1653740
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/18/2021 03:20	WG1653740
1,2-Dichloropropane	U		0.000149	0.00100	1	04/18/2021 03:20	WG1653740
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/18/2021 03:20	WG1653740
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/18/2021 03:20	WG1653740
Ethylbenzene	U		0.000137	0.00100	1	04/18/2021 03:20	WG1653740
Isopropylbenzene	U		0.000105	0.00100	1	04/18/2021 03:20	WG1653740
p-Isopropyltoluene	U		0.000120	0.00100	1	04/18/2021 03:20	WG1653740
2-Butanone (MEK)	U		0.00119	0.0100	1	04/18/2021 03:20	WG1653740
2-Hexanone	U		0.000787	0.0100	1	04/18/2021 03:20	WG1653740
Methylene Chloride	U		0.000430	0.00500	1	04/18/2021 03:20	WG1653740
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/18/2021 03:20	WG1653740
Methyl tert-butyl ether	0.000765	J	0.000101	0.00100	1	04/18/2021 03:20	WG1653740
Naphthalene	U		0.00100	0.00500	1	04/18/2021 03:20	WG1653740
n-Propylbenzene	U		0.0000993	0.00100	1	04/18/2021 03:20	WG1653740
Styrene	U		0.000118	0.00100	1	04/18/2021 03:20	WG1653740
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/18/2021 03:20	WG1653740
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/18/2021 03:20	WG1653740
Tetrachloroethene	U		0.000300	0.00100	1	04/18/2021 03:20	WG1653740
Toluene	U		0.000278	0.00100	1	04/18/2021 03:20	WG1653740
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/18/2021 03:20	WG1653740
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/18/2021 03:20	WG1653740
Trichloroethene	U		0.000190	0.00100	1	04/18/2021 03:20	WG1653740
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/18/2021 03:20	WG1653740
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/18/2021 03:20	WG1653740
Vinyl chloride	U		0.000234	0.00100	1	04/18/2021 03:20	WG1653740
o-Xylene	U		0.000174	0.00100	1	04/18/2021 03:20	WG1653740
m&p-Xylene	U		0.000430	0.00200	1	04/18/2021 03:20	WG1653740
Xylenes, Total	U		0.000174	0.00300	1	04/18/2021 03:20	WG1653740
(S) Toluene-d8	*108*			*80.0-120*		*04/18/2021 03:20*	WG1653740
(S) 4-Bromofluorobenzene	*114*			*77.0-126*		*04/18/2021 03:20*	WG1653740
(S) 1,2-Dichloroethane-d4	*94.9*			*70.0-130*		*04/18/2021 03:20*	WG1653740

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	1.07		0.0247	0.100	1	04/26/2021 04:59	WG1655290
(S) o-Terphenyl	*106*			*31.0-160*		*04/26/2021 04:59*	WG1655290

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	ND		10.0	1	04/20/2021 03:38	WG1654737

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0500	0.100	1	05/03/2021 16:25	WG1661715

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	U		0.379	1.00	1	04/21/2021 20:12	WG1655392
Fluoride	U		0.0640	0.150	1	04/21/2021 20:12	WG1655392
Sulfate	U		0.594	5.00	1	04/21/2021 20:12	WG1655392

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	U		0.000180	0.00200	1	04/26/2021 21:43	WG1656883
Arsenic,Dissolved	U		0.000180	0.00200	1	04/26/2021 01:13	WG1655933
Barium	0.000939	J	0.000381	0.0200	1	04/26/2021 21:43	WG1656883
Barium,Dissolved	0.00182	B J	0.000381	0.0200	1	04/26/2021 01:13	WG1655933
Calcium	U		0.0936	1.00	1	04/26/2021 21:43	WG1656883
Chromium	U		0.00124	0.00200	1	04/26/2021 21:43	WG1656883
Chromium,Dissolved	U		0.00124	0.00200	1	04/26/2021 01:13	WG1655933
Iron	U		0.0281	0.100	1	04/26/2021 21:43	WG1656883
Iron,Dissolved	U		0.0281	0.100	1	04/26/2021 01:13	WG1655933
Lead	U		0.000849	0.00200	1	04/26/2021 21:43	WG1656883
Lead,Dissolved	U		0.000849	0.00200	1	04/26/2021 01:13	WG1655933
Manganese	U		0.000704	0.00500	1	04/26/2021 21:43	WG1656883
Manganese,Dissolved	U		0.000704	0.00500	1	04/26/2021 01:13	WG1655933
Potassium	U		0.108	2.00	1	04/26/2021 21:43	WG1656883
Selenium	U		0.000300	0.00200	1	04/26/2021 21:43	WG1656883
Selenium,Dissolved	U		0.000300	0.00200	1	04/26/2021 01:13	WG1655933
Sodium	U		0.376	2.00	1	04/26/2021 21:43	WG1656883

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/20/2021 10:27	WG1655063
(S) a,a,a-Trifluorotoluene(FID)	*101*			*78.0-120*		*04/20/2021 10:27*	WG1655063

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/17/2021 20:54	WG1653740
Benzene	U		0.0000941	0.00100	1	04/17/2021 20:54	WG1653740
Bromodichloromethane	U		0.000136	0.00100	1	04/17/2021 20:54	WG1653740
Bromoform	U		0.000129	0.00100	1	04/17/2021 20:54	WG1653740
Bromomethane	U		0.000605	0.00500	1	04/17/2021 20:54	WG1653740
n-Butylbenzene	U		0.000157	0.00100	1	04/17/2021 20:54	WG1653740
sec-Butylbenzene	U		0.000125	0.00100	1	04/17/2021 20:54	WG1653740
Carbon disulfide	U		0.0000962	0.00100	1	04/17/2021 20:54	WG1653740
Carbon tetrachloride	U		0.000128	0.00100	1	04/17/2021 20:54	WG1653740

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/17/2021 20:54	WG1653740
Chlorodibromomethane	U		0.000140	0.00100	1	04/17/2021 20:54	WG1653740
Chloroethane	U		0.000192	0.00500	1	04/17/2021 20:54	WG1653740
Chloroform	U		0.000111	0.00500	1	04/17/2021 20:54	WG1653740
Chloromethane	U		0.000960	0.00250	1	04/17/2021 20:54	WG1653740
1,2-Dibromoethane	U		0.000126	0.00100	1	04/17/2021 20:54	WG1653740
1,1-Dichloroethane	U		0.000100	0.00100	1	04/17/2021 20:54	WG1653740
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/17/2021 20:54	WG1653740
1,1-Dichloroethene	U		0.000188	0.00100	1	04/17/2021 20:54	WG1653740
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/17/2021 20:54	WG1653740
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/17/2021 20:54	WG1653740
1,2-Dichloropropane	U		0.000149	0.00100	1	04/17/2021 20:54	WG1653740
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/17/2021 20:54	WG1653740
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/17/2021 20:54	WG1653740
Ethylbenzene	U		0.000137	0.00100	1	04/17/2021 20:54	WG1653740
Isopropylbenzene	U		0.000105	0.00100	1	04/17/2021 20:54	WG1653740
p-Isopropyltoluene	U		0.000120	0.00100	1	04/17/2021 20:54	WG1653740
2-Butanone (MEK)	U		0.00119	0.0100	1	04/17/2021 20:54	WG1653740
2-Hexanone	U		0.000787	0.0100	1	04/17/2021 20:54	WG1653740
Methylene Chloride	U		0.000430	0.00500	1	04/17/2021 20:54	WG1653740
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/17/2021 20:54	WG1653740
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/17/2021 20:54	WG1653740
Naphthalene	U		0.00100	0.00500	1	04/17/2021 20:54	WG1653740
n-Propylbenzene	U		0.0000993	0.00100	1	04/17/2021 20:54	WG1653740
Styrene	U		0.000118	0.00100	1	04/17/2021 20:54	WG1653740
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/17/2021 20:54	WG1653740
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/17/2021 20:54	WG1653740
Tetrachloroethene	U		0.000300	0.00100	1	04/17/2021 20:54	WG1653740
Toluene	U		0.000278	0.00100	1	04/17/2021 20:54	WG1653740
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/17/2021 20:54	WG1653740
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/17/2021 20:54	WG1653740
Trichloroethene	U		0.000190	0.00100	1	04/17/2021 20:54	WG1653740
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/17/2021 20:54	WG1653740
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/17/2021 20:54	WG1653740
Vinyl chloride	U		0.000234	0.00100	1	04/17/2021 20:54	WG1653740
o-Xylene	U		0.000174	0.00100	1	04/17/2021 20:54	WG1653740
m&p-Xylene	U		0.000430	0.00200	1	04/17/2021 20:54	WG1653740
Xylenes, Total	U		0.000174	0.00300	1	04/17/2021 20:54	WG1653740
(S) Toluene-d8	*108*			*80.0-120*		*04/17/2021 20:54*	WG1653740
(S) 4-Bromofluorobenzene	*107*			*77.0-126*		*04/17/2021 20:54*	WG1653740
(S) 1,2-Dichloroethane-d4	*98.6*			*70.0-130*		*04/17/2021 20:54*	WG1653740

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	U		0.0247	0.100	1	04/22/2021 22:18	WG1655290
(S) o-Terphenyl	*89.5*			*31.0-160*		*04/22/2021 22:18*	WG1655290

EB-LT-02
Collected date/time: 04/13/21 13:10
L1339352

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	ND		10.0	1	04/19/2021 20:11	WG1654730

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0500	0.100	1	05/03/2021 16:26	WG1661715

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	0.401	J	0.379	1.00	1	04/22/2021 00:52	WG1655392
Fluoride	0.0653	J	0.0640	0.150	1	04/22/2021 00:52	WG1655392
Sulfate	U		0.594	5.00	1	04/22/2021 00:52	WG1655392

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	U		0.000180	0.00200	1	04/26/2021 21:46	WG1656883
Arsenic,Dissolved	U		0.000180	0.00200	1	04/26/2021 01:16	WG1655933
Barium	0.000751	J	0.000381	0.0200	1	04/26/2021 21:46	WG1656883
Barium,Dissolved	0.000442	B J	0.000381	0.0200	1	04/26/2021 01:16	WG1655933
Calcium	0.0975	J	0.0936	1.00	1	04/26/2021 21:46	WG1656883
Chromium	U		0.00124	0.00200	1	04/26/2021 21:46	WG1656883
Chromium,Dissolved	U		0.00124	0.00200	1	04/26/2021 01:16	WG1655933
Iron	U		0.0281	0.100	1	04/26/2021 21:46	WG1656883
Iron,Dissolved	U		0.0281	0.100	1	04/26/2021 01:16	WG1655933
Lead	U		0.000849	0.00200	1	04/26/2021 21:46	WG1656883
Lead,Dissolved	U		0.000849	0.00200	1	04/26/2021 01:16	WG1655933
Manganese	U		0.000704	0.00500	1	04/26/2021 21:46	WG1656883
Manganese,Dissolved	U		0.000704	0.00500	1	04/26/2021 01:16	WG1655933
Potassium	U		0.108	2.00	1	04/26/2021 21:46	WG1656883
Selenium	U		0.000300	0.00200	1	04/26/2021 21:46	WG1656883
Selenium,Dissolved	U		0.000300	0.00200	1	04/26/2021 01:16	WG1655933
Sodium	U		0.376	2.00	1	04/26/2021 21:46	WG1656883

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/20/2021 10:49	WG1655063
(S) a,a,a-Trifluorotoluene(FID)	*101*			*78.0-120*		*04/20/2021 10:49*	WG1655063

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/17/2021 21:14	WG1653740
Benzene	U		0.0000941	0.00100	1	04/17/2021 21:14	WG1653740
Bromodichloromethane	U		0.000136	0.00100	1	04/17/2021 21:14	WG1653740
Bromoform	U		0.000129	0.00100	1	04/17/2021 21:14	WG1653740
Bromomethane	U		0.000605	0.00500	1	04/17/2021 21:14	WG1653740
n-Butylbenzene	U		0.000157	0.00100	1	04/17/2021 21:14	WG1653740
sec-Butylbenzene	U		0.000125	0.00100	1	04/17/2021 21:14	WG1653740
Carbon disulfide	U		0.0000962	0.00100	1	04/17/2021 21:14	WG1653740
Carbon tetrachloride	U		0.000128	0.00100	1	04/17/2021 21:14	WG1653740

LB-LF-02
Collected date/time: 04/13/21 13:10
L1339352

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/17/2021 21:14	WG1653740
Chlorodibromomethane	U		0.000140	0.00100	1	04/17/2021 21:14	WG1653740
Chloroethane	U		0.000192	0.00500	1	04/17/2021 21:14	WG1653740
Chloroform	U		0.000111	0.00500	1	04/17/2021 21:14	WG1653740
Chloromethane	U		0.000960	0.00250	1	04/17/2021 21:14	WG1653740
1,2-Dibromoethane	U		0.000126	0.00100	1	04/17/2021 21:14	WG1653740
1,1-Dichloroethane	U		0.000100	0.00100	1	04/17/2021 21:14	WG1653740
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/17/2021 21:14	WG1653740
1,1-Dichloroethene	U		0.000188	0.00100	1	04/17/2021 21:14	WG1653740
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/17/2021 21:14	WG1653740
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/17/2021 21:14	WG1653740
1,2-Dichloropropane	U		0.000149	0.00100	1	04/17/2021 21:14	WG1653740
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/17/2021 21:14	WG1653740
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/17/2021 21:14	WG1653740
Ethylbenzene	U		0.000137	0.00100	1	04/17/2021 21:14	WG1653740
Isopropylbenzene	U		0.000105	0.00100	1	04/17/2021 21:14	WG1653740
p-Isopropyltoluene	U		0.000120	0.00100	1	04/17/2021 21:14	WG1653740
2-Butanone (MEK)	U		0.00119	0.0100	1	04/17/2021 21:14	WG1653740
2-Hexanone	U		0.000787	0.0100	1	04/17/2021 21:14	WG1653740
Methylene Chloride	U		0.000430	0.00500	1	04/17/2021 21:14	WG1653740
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/17/2021 21:14	WG1653740
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/17/2021 21:14	WG1653740
Naphthalene	U		0.00100	0.00500	1	04/17/2021 21:14	WG1653740
n-Propylbenzene	U		0.0000993	0.00100	1	04/17/2021 21:14	WG1653740
Styrene	U		0.000118	0.00100	1	04/17/2021 21:14	WG1653740
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/17/2021 21:14	WG1653740
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/17/2021 21:14	WG1653740
Tetrachloroethene	U		0.000300	0.00100	1	04/17/2021 21:14	WG1653740
Toluene	U		0.000278	0.00100	1	04/17/2021 21:14	WG1653740
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/17/2021 21:14	WG1653740
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/17/2021 21:14	WG1653740
Trichloroethene	U		0.000190	0.00100	1	04/17/2021 21:14	WG1653740
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/17/2021 21:14	WG1653740
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/17/2021 21:14	WG1653740
Vinyl chloride	U		0.000234	0.00100	1	04/17/2021 21:14	WG1653740
o-Xylene	U		0.000174	0.00100	1	04/17/2021 21:14	WG1653740
m&p-Xylene	U		0.000430	0.00200	1	04/17/2021 21:14	WG1653740
Xylenes, Total	U		0.000174	0.00300	1	04/17/2021 21:14	WG1653740
(S) Toluene-d8	*108*			*80.0-120*		*04/17/2021 21:14*	WG1653740
(S) 4-Bromofluorobenzene	*107*			*77.0-126*		*04/17/2021 21:14*	WG1653740
(S) 1,2-Dichloroethane-d4	*98.4*			*70.0-130*		*04/17/2021 21:14*	WG1653740

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	U		0.0247	0.100	1	04/22/2021 22:38	WG1655290
(S) o-Terphenyl	*87.5*			*31.0-160*		*04/22/2021 22:38*	WG1655290

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	ND		10.0	1	04/19/2021 20:11	WG1654730

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0500	0.100	1	05/03/2021 16:29	WG1661715

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	U		0.379	1.00	1	04/22/2021 01:08	WG1655392
Fluoride	0.0655	J	0.0640	0.150	1	04/22/2021 01:08	WG1655392
Sulfate	U		0.594	5.00	1	04/22/2021 01:08	WG1655392

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	U		0.000180	0.00200	1	04/26/2021 21:49	WG1656883
Arsenic,Dissolved	U		0.000180	0.00200	1	04/26/2021 01:20	WG1655933
Barium	0.000522	J	0.000381	0.0200	1	04/26/2021 21:49	WG1656883
Barium,Dissolved	0.000412	B J	0.000381	0.0200	1	04/26/2021 01:20	WG1655933
Calcium	U		0.0936	1.00	1	04/26/2021 21:49	WG1656883
Chromium	U		0.00124	0.00200	1	04/26/2021 21:49	WG1656883
Chromium,Dissolved	0.00153	J	0.00124	0.00200	1	04/26/2021 01:20	WG1655933
Iron	U		0.0281	0.100	1	04/26/2021 21:49	WG1656883
Iron,Dissolved	U		0.0281	0.100	1	04/26/2021 01:20	WG1655933
Lead	U		0.000849	0.00200	1	04/26/2021 21:49	WG1656883
Lead,Dissolved	U		0.000849	0.00200	1	04/26/2021 01:20	WG1655933
Manganese	U		0.000704	0.00500	1	04/26/2021 21:49	WG1656883
Manganese,Dissolved	U		0.000704	0.00500	1	04/26/2021 01:20	WG1655933
Potassium	0.115	J	0.108	2.00	1	04/26/2021 21:49	WG1656883
Selenium	U		0.000300	0.00200	1	04/26/2021 21:49	WG1656883
Selenium,Dissolved	U		0.000300	0.00200	1	04/26/2021 01:20	WG1655933
Sodium	U		0.376	2.00	1	04/26/2021 21:49	WG1656883

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/20/2021 11:11	WG1655063
(S) a,a,a-Trifluorotoluene(FID)	*101*			*78.0-120*		*04/20/2021 11:11*	WG1655063

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/17/2021 21:34	WG1653740
Benzene	U		0.0000941	0.00100	1	04/17/2021 21:34	WG1653740
Bromodichloromethane	U		0.000136	0.00100	1	04/17/2021 21:34	WG1653740
Bromoform	U		0.000129	0.00100	1	04/17/2021 21:34	WG1653740
Bromomethane	U		0.000605	0.00500	1	04/17/2021 21:34	WG1653740
n-Butylbenzene	U		0.000157	0.00100	1	04/17/2021 21:34	WG1653740
sec-Butylbenzene	U		0.000125	0.00100	1	04/17/2021 21:34	WG1653740
Carbon disulfide	U		0.0000962	0.00100	1	04/17/2021 21:34	WG1653740
Carbon tetrachloride	U		0.000128	0.00100	1	04/17/2021 21:34	WG1653740

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/17/2021 21:34	WG1653740
Chlorodibromomethane	U		0.000140	0.00100	1	04/17/2021 21:34	WG1653740
Chloroethane	U		0.000192	0.00500	1	04/17/2021 21:34	WG1653740
Chloroform	U		0.000111	0.00500	1	04/17/2021 21:34	WG1653740
Chloromethane	U		0.000960	0.00250	1	04/17/2021 21:34	WG1653740
1,2-Dibromoethane	U		0.000126	0.00100	1	04/17/2021 21:34	WG1653740
1,1-Dichloroethane	U		0.000100	0.00100	1	04/17/2021 21:34	WG1653740
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/17/2021 21:34	WG1653740
1,1-Dichloroethene	U		0.000188	0.00100	1	04/17/2021 21:34	WG1653740
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/17/2021 21:34	WG1653740
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/17/2021 21:34	WG1653740
1,2-Dichloropropane	U		0.000149	0.00100	1	04/17/2021 21:34	WG1653740
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/17/2021 21:34	WG1653740
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/17/2021 21:34	WG1653740
Ethylbenzene	U		0.000137	0.00100	1	04/17/2021 21:34	WG1653740
Isopropylbenzene	U		0.000105	0.00100	1	04/17/2021 21:34	WG1653740
p-Isopropyltoluene	U		0.000120	0.00100	1	04/17/2021 21:34	WG1653740
2-Butanone (MEK)	U		0.00119	0.0100	1	04/17/2021 21:34	WG1653740
2-Hexanone	U		0.000787	0.0100	1	04/17/2021 21:34	WG1653740
Methylene Chloride	U		0.000430	0.00500	1	04/17/2021 21:34	WG1653740
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/17/2021 21:34	WG1653740
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/17/2021 21:34	WG1653740
Naphthalene	U		0.00100	0.00500	1	04/17/2021 21:34	WG1653740
n-Propylbenzene	U		0.0000993	0.00100	1	04/17/2021 21:34	WG1653740
Styrene	U		0.000118	0.00100	1	04/17/2021 21:34	WG1653740
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/17/2021 21:34	WG1653740
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/17/2021 21:34	WG1653740
Tetrachloroethene	U		0.000300	0.00100	1	04/17/2021 21:34	WG1653740
Toluene	U		0.000278	0.00100	1	04/17/2021 21:34	WG1653740
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/17/2021 21:34	WG1653740
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/17/2021 21:34	WG1653740
Trichloroethene	U		0.000190	0.00100	1	04/17/2021 21:34	WG1653740
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/17/2021 21:34	WG1653740
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/17/2021 21:34	WG1653740
Vinyl chloride	U		0.000234	0.00100	1	04/17/2021 21:34	WG1653740
o-Xylene	U		0.000174	0.00100	1	04/17/2021 21:34	WG1653740
m&p-Xylene	U		0.000430	0.00200	1	04/17/2021 21:34	WG1653740
Xylenes, Total	U		0.000174	0.00300	1	04/17/2021 21:34	WG1653740
(S) Toluene-d8	*109*			*80.0-120*		*04/17/2021 21:34*	WG1653740
(S) 4-Bromofluorobenzene	*106*			*77.0-126*		*04/17/2021 21:34*	WG1653740
(S) 1,2-Dichloroethane-d4	*99.9*			*70.0-130*		*04/17/2021 21:34*	WG1653740

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	U		0.0247	0.100	1	04/22/2021 22:58	WG1655290
(S) o-Terphenyl	*100*			*31.0-160*		*04/22/2021 22:58*	WG1655290

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/18/2021 15:24	WG1653772
Benzene	U		0.0000941	0.00100	1	04/18/2021 15:24	WG1653772
Bromodichloromethane	U		0.000136	0.00100	1	04/18/2021 15:24	WG1653772
Bromoform	U		0.000129	0.00100	1	04/18/2021 15:24	WG1653772
Bromomethane	U		0.000605	0.00500	1	04/18/2021 15:24	WG1653772
n-Butylbenzene	U		0.000157	0.00100	1	04/18/2021 15:24	WG1653772
sec-Butylbenzene	U		0.000125	0.00100	1	04/18/2021 15:24	WG1653772
Carbon disulfide	U		0.0000962	0.00100	1	04/18/2021 15:24	WG1653772
Carbon tetrachloride	U		0.000128	0.00100	1	04/18/2021 15:24	WG1653772
Chlorobenzene	U		0.000116	0.00100	1	04/18/2021 15:24	WG1653772
Chlorodibromomethane	U		0.000140	0.00100	1	04/18/2021 15:24	WG1653772
Chloroethane	U		0.000192	0.00500	1	04/18/2021 15:24	WG1653772
Chloroform	U		0.000111	0.00500	1	04/18/2021 15:24	WG1653772
Chloromethane	U	J4	0.000960	0.00250	1	04/18/2021 15:24	WG1653772
1,2-Dibromoethane	U		0.000126	0.00100	1	04/18/2021 15:24	WG1653772
1,1-Dichloroethane	U		0.000100	0.00100	1	04/18/2021 15:24	WG1653772
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/18/2021 15:24	WG1653772
1,1-Dichloroethene	U		0.000188	0.00100	1	04/18/2021 15:24	WG1653772
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/18/2021 15:24	WG1653772
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/18/2021 15:24	WG1653772
1,2-Dichloropropane	U		0.000149	0.00100	1	04/18/2021 15:24	WG1653772
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/18/2021 15:24	WG1653772
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/18/2021 15:24	WG1653772
Ethylbenzene	U		0.000137	0.00100	1	04/18/2021 15:24	WG1653772
Isopropylbenzene	U		0.000105	0.00100	1	04/18/2021 15:24	WG1653772
p-Isopropyltoluene	U		0.000120	0.00100	1	04/18/2021 15:24	WG1653772
2-Butanone (MEK)	U		0.00119	0.0100	1	04/18/2021 15:24	WG1653772
2-Hexanone	U		0.000787	0.0100	1	04/18/2021 15:24	WG1653772
Methylene Chloride	U		0.000430	0.00500	1	04/18/2021 15:24	WG1653772
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/18/2021 15:24	WG1653772
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/18/2021 15:24	WG1653772
Naphthalene	U		0.00100	0.00500	1	04/18/2021 15:24	WG1653772
n-Propylbenzene	U		0.0000993	0.00100	1	04/18/2021 15:24	WG1653772
Styrene	U		0.000118	0.00100	1	04/18/2021 15:24	WG1653772
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/18/2021 15:24	WG1653772
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/18/2021 15:24	WG1653772
Tetrachloroethene	U		0.000300	0.00100	1	04/18/2021 15:24	WG1653772
Toluene	U		0.000278	0.00100	1	04/18/2021 15:24	WG1653772
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/18/2021 15:24	WG1653772
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/18/2021 15:24	WG1653772
Trichloroethene	U		0.000190	0.00100	1	04/18/2021 15:24	WG1653772
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/18/2021 15:24	WG1653772
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/18/2021 15:24	WG1653772
Vinyl chloride	U		0.000234	0.00100	1	04/18/2021 15:24	WG1653772
o-Xylene	U		0.000174	0.00100	1	04/18/2021 15:24	WG1653772
m&p-Xylene	U		0.000430	0.00200	1	04/18/2021 15:24	WG1653772
Xylenes, Total	U		0.000174	0.00300	1	04/18/2021 15:24	WG1653772
(S) Toluene-d8	*104*			*80.0-120*		*04/18/2021 15:24*	WG1653772
(S) 4-Bromofluorobenzene	*115*			*77.0-126*		*04/18/2021 15:24*	WG1653772
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*04/18/2021 15:24*	WG1653772

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/18/2021 15:45	WG1653772
Benzene	U		0.0000941	0.00100	1	04/18/2021 15:45	WG1653772
Bromodichloromethane	U		0.000136	0.00100	1	04/18/2021 15:45	WG1653772
Bromoform	U		0.000129	0.00100	1	04/18/2021 15:45	WG1653772
Bromomethane	U		0.000605	0.00500	1	04/18/2021 15:45	WG1653772
n-Butylbenzene	U		0.000157	0.00100	1	04/18/2021 15:45	WG1653772
sec-Butylbenzene	U		0.000125	0.00100	1	04/18/2021 15:45	WG1653772
Carbon disulfide	U		0.0000962	0.00100	1	04/18/2021 15:45	WG1653772
Carbon tetrachloride	U		0.000128	0.00100	1	04/18/2021 15:45	WG1653772
Chlorobenzene	U		0.000116	0.00100	1	04/18/2021 15:45	WG1653772
Chlorodibromomethane	U		0.000140	0.00100	1	04/18/2021 15:45	WG1653772
Chloroethane	U		0.000192	0.00500	1	04/18/2021 15:45	WG1653772
Chloroform	U		0.000111	0.00500	1	04/18/2021 15:45	WG1653772
Chloromethane	U	J4	0.000960	0.00250	1	04/18/2021 15:45	WG1653772
1,2-Dibromoethane	U		0.000126	0.00100	1	04/18/2021 15:45	WG1653772
1,1-Dichloroethane	U		0.000100	0.00100	1	04/18/2021 15:45	WG1653772
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/18/2021 15:45	WG1653772
1,1-Dichloroethene	U		0.000188	0.00100	1	04/18/2021 15:45	WG1653772
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/18/2021 15:45	WG1653772
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/18/2021 15:45	WG1653772
1,2-Dichloropropane	U		0.000149	0.00100	1	04/18/2021 15:45	WG1653772
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/18/2021 15:45	WG1653772
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/18/2021 15:45	WG1653772
Ethylbenzene	U		0.000137	0.00100	1	04/18/2021 15:45	WG1653772
Isopropylbenzene	U		0.000105	0.00100	1	04/18/2021 15:45	WG1653772
p-Isopropyltoluene	U		0.000120	0.00100	1	04/18/2021 15:45	WG1653772
2-Butanone (MEK)	U		0.00119	0.0100	1	04/18/2021 15:45	WG1653772
2-Hexanone	U		0.000787	0.0100	1	04/18/2021 15:45	WG1653772
Methylene Chloride	U		0.000430	0.00500	1	04/18/2021 15:45	WG1653772
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/18/2021 15:45	WG1653772
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/18/2021 15:45	WG1653772
Naphthalene	U		0.00100	0.00500	1	04/18/2021 15:45	WG1653772
n-Propylbenzene	U		0.0000993	0.00100	1	04/18/2021 15:45	WG1653772
Styrene	U		0.000118	0.00100	1	04/18/2021 15:45	WG1653772
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/18/2021 15:45	WG1653772
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/18/2021 15:45	WG1653772
Tetrachloroethene	U		0.000300	0.00100	1	04/18/2021 15:45	WG1653772
Toluene	U		0.000278	0.00100	1	04/18/2021 15:45	WG1653772
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/18/2021 15:45	WG1653772
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/18/2021 15:45	WG1653772
Trichloroethene	U		0.000190	0.00100	1	04/18/2021 15:45	WG1653772
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/18/2021 15:45	WG1653772
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/18/2021 15:45	WG1653772
Vinyl chloride	U		0.000234	0.00100	1	04/18/2021 15:45	WG1653772
o-Xylene	U		0.000174	0.00100	1	04/18/2021 15:45	WG1653772
m&p-Xylene	U		0.000430	0.00200	1	04/18/2021 15:45	WG1653772
Xylenes, Total	U		0.000174	0.00300	1	04/18/2021 15:45	WG1653772
(S) Toluene-d8	*106*			*80.0-120*		*04/18/2021 15:45*	WG1653772
(S) 4-Bromofluorobenzene	*105*			*77.0-126*		*04/18/2021 15:45*	WG1653772
(S) 1,2-Dichloroethane-d4	*99.7*			*70.0-130*		*04/18/2021 15:45*	WG1653772

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Method Blank (MB)

(MB) R3643843-1 04/16/21 16:30

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1339352-14 Original Sample (OS) • Duplicate (DUP)

(OS) L1339352-14 04/16/21 16:30 • (DUP) R3643843-3 04/16/21 16:30

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	3310	3250	1	1.83		5

L1339352-16 Original Sample (OS) • Duplicate (DUP)

(OS) L1339352-16 04/16/21 16:30 • (DUP) R3643843-4 04/16/21 16:30

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	2930	2870	1	1.90		5

Laboratory Control Sample (LCS)

(LCS) R3643843-2 04/16/21 16:30

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8790	99.9	77.4-123	

Method Blank (MB)

(MB) R3643732-1 04/16/21 18:49

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1339378-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1339378-05 04/16/21 18:49 • (DUP) R3643732-3 04/16/21 18:49

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	1610	1650	1	2.61		5

L1339378-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1339378-06 04/16/21 18:49 • (DUP) R3643732-4 04/16/21 18:49

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	1890	1970	1	4.14		5

Laboratory Control Sample (LCS)

(LCS) R3643732-2 04/16/21 18:49

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8150	92.6	77.4-123	

Method Blank (MB)

(MB) R3643845-1 04/16/21 17:10

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1338078-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1338078-01 04/16/21 17:10 • (DUP) R3643845-3 04/16/21 17:10

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	1410	1510	1	6.87	J3	5

L1339378-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1339378-11 04/16/21 17:10 • (DUP) R3643845-4 04/16/21 17:10

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	1870	1900	1	1.73		5

Laboratory Control Sample (LCS)

(LCS) R3643845-2 04/16/21 17:10

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8300	94.3	77.4-123	

Method Blank (MB)

(MB) R3644791-1 04/19/21 20:11

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1339412-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1339412-01 04/19/21 20:11 • (DUP) R3644791-3 04/19/21 20:11

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	3510	3540	1	1.02		5

L1339469-15 Original Sample (OS) • Duplicate (DUP)

(OS) L1339469-15 04/19/21 20:11 • (DUP) R3644791-4 04/19/21 20:11

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	3260	3340	1	2.24		5

Laboratory Control Sample (LCS)

(LCS) R3644791-2 04/19/21 20:11

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8830	100	77.4-123	

Method Blank (MB)

(MB) R3644892-1 04/20/21 03:38

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1338927-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1338927-08 04/20/21 03:38 • (DUP) R3644892-3 04/20/21 03:38

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	3450	3480	1	0.866		5

L1339352-24 Original Sample (OS) • Duplicate (DUP)

(OS) L1339352-24 04/20/21 03:38 • (DUP) R3644892-4 04/20/21 03:38

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	4350	4360	1	0.230		5

Laboratory Control Sample (LCS)

(LCS) R3644892-2 04/20/21 03:38

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8770	99.7	77.4-123	

Method Blank (MB)

(MB) R3642998-1 04/17/21 05:49

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Nitrate-Nitrite	U		0.0500	0.100

L1338671-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1338671-01 04/17/21 05:52 • (DUP) R3642998-3 04/17/21 05:53

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate-Nitrite	0.676	0.669	1	1.04		20

L1339352-14 Original Sample (OS) • Duplicate (DUP)

(OS) L1339352-14 04/17/21 06:25 • (DUP) R3642998-6 04/17/21 06:27

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate-Nitrite	7.25	7.00	5	3.51		20

Laboratory Control Sample (LCS)

(LCS) R3642998-2 04/17/21 05:50

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Nitrate-Nitrite	2.50	2.57	103	90.0-110	

L1338863-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1338863-01 04/17/21 05:54 • (MS) R3642998-4 04/17/21 05:56 • (MSD) R3642998-5 04/17/21 05:57

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Nitrate-Nitrite	2.50	0.307	2.74	2.73	97.3	96.9	1	90.0-110			0.366	20

L1339352-15 Original Sample (OS) • Matrix Spike (MS)

(OS) L1339352-15 04/17/21 06:28 • (MS) R3642998-7 04/17/21 06:29

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Nitrate-Nitrite	2.50	5.91	8.68	111	1	90.0-110	E J5

Method Blank (MB)

(MB) R3649639-1 05/03/21 13:26

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Nitrate-Nitrite	U		0.0500	0.100

L1339352-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1339352-03 05/03/21 13:29 • (DUP) R3649639-3 05/03/21 13:30

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate-Nitrite	0.0894	0.0889	1	0.561	J	20

L1340159-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1340159-10 05/03/21 14:06 • (DUP) R3649639-7 05/03/21 14:07

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate-Nitrite	1.93	1.91	1	1.04		20

Laboratory Control Sample (LCS)

(LCS) R3649639-2 05/03/21 13:27

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Nitrate-Nitrite	2.50	2.61	104	90.0-110	

L1339352-05 Original Sample (OS) • Matrix Spike (MS)

(OS) L1339352-05 05/03/21 13:32 • (MS) R3649639-4 05/03/21 13:34

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Nitrate-Nitrite	2.50	0.371	2.92	102	1	90.0-110	

L1340159-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1340159-08 05/03/21 14:00 • (MS) R3649639-5 05/03/21 14:02 • (MSD) R3649639-6 05/03/21 14:03

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Nitrate-Nitrite	2.50	U	2.50	2.43	100	97.2	1	90.0-110			2.84	20

Method Blank (MB)

(MB) R3649723-1 05/03/21 15:49

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Nitrate-Nitrite	U		0.0500	0.100

L1339352-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1339352-11 05/03/21 15:52 • (DUP) R3649723-3 05/03/21 15:53

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate-Nitrite	U	U	1	0.000		20

L1339352-29 Original Sample (OS) • Duplicate (DUP)

(OS) L1339352-29 05/03/21 16:26 • (DUP) R3649723-6 05/03/21 16:27

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate-Nitrite	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3649723-2 05/03/21 15:50

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Nitrate-Nitrite	2.50	2.66	106	90.0-110	

L1339352-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339352-12 05/03/21 15:54 • (MS) R3649723-4 05/03/21 15:55 • (MSD) R3649723-5 05/03/21 15:57

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Nitrate-Nitrite	2.50	U	2.14	2.18	85.6	87.2	1	90.0-110	J6	J6	1.85	20

L1339352-30 Original Sample (OS) • Matrix Spike (MS)

(OS) L1339352-30 05/03/21 16:29 • (MS) R3649723-7 05/03/21 16:30

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Nitrate-Nitrite	2.50	U	2.50	100	1	90.0-110	

Method Blank (MB)

(MB) R3645905-1 04/23/21 15:59

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Cyanide	U		0.00180	0.00500

L1339087-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1339087-02 04/23/21 16:43 • (DUP) R3645905-3 04/23/21 16:11

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	U	U	1	0.000		20

L1339112-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1339112-01 04/23/21 16:15 • (DUP) R3645905-6 04/23/21 16:16

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3645905-2 04/23/21 16:00

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Cyanide	0.100	0.0965	96.5	87.1-120	

L1339087-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339087-03 04/23/21 16:12 • (MS) R3645905-4 04/23/21 16:13 • (MSD) R3645905-5 04/23/21 16:14

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Cyanide	0.100	U	0.0858	0.0884	85.8	88.4	1	90.0-110	J6	J6	2.99	20

L1339087-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339087-01 04/23/21 16:41 • (MS) R3645905-7 04/23/21 16:42 • (MSD) R3645905-8 04/23/21 16:44

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Cyanide	0.100	U	0.0983	0.0889	98.3	88.9	1	90.0-110		J6	10.0	20

Method Blank (MB)

(MB) R3645026-1 04/21/21 10:34

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.379	1.00
Fluoride	U		0.0640	0.150
Sulfate	U		0.594	5.00

L1339352-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1339352-01 04/21/21 14:05 • (DUP) R3645026-3 04/21/21 14:21

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Fluoride	1.67	1.71	1	2.41		15

L1339352-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1339352-01 04/21/21 14:37 • (DUP) R3645026-4 04/21/21 14:54

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	647	630	100	2.56		15
Sulfate	1450	1420	100	2.66		15

L1339352-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1339352-13 04/21/21 23:22 • (DUP) R3645026-7 04/21/21 23:39

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Fluoride	2.04	2.09	1	2.11		15

L1339352-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1339352-13 04/21/21 23:55 • (DUP) R3645026-8 04/22/21 00:12

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	1280	1290	100	1.10		15
Sulfate	1630	1640	100	0.773		15

Laboratory Control Sample (LCS)

(LCS) R3645026-2 04/21/21 10:51

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	38.7	96.9	80.0-120	
Fluoride	8.00	7.97	99.6	80.0-120	
Sulfate	40.0	39.2	98.1	80.0-120	

L1339352-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339352-02 04/21/21 15:10 • (MS) R3645026-5 04/21/21 15:26 • (MSD) R3645026-6 04/21/21 15:43

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50.0	1080	1080	1080	2.03	1.59	1	80.0-120	E V	E V	0.0201	15
Fluoride	5.00	0.614	5.26	5.29	92.9	93.5	1	80.0-120			0.622	15
Sulfate	50.0	1510	1490	1490	0.000	0.000	1	80.0-120	E V	E V	0.00788	15

L1339352-17 Original Sample (OS) • Matrix Spike (MS)

(OS) L1339352-17 04/22/21 02:39 • (MS) R3645026-9 04/22/21 02:56

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	1380	1370	0.000	1	80.0-120	E V
Fluoride	5.00	2.06	6.95	97.7	1	80.0-120	
Sulfate	50.0	2410	2330	0.000	1	80.0-120	E V

Method Blank (MB)

(MB) R3645383-1 04/21/21 11:53

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.379	1.00
Fluoride	U		0.0640	0.150
Sulfate	U		0.594	5.00

L1339277-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1339277-01 04/21/21 15:01 • (DUP) R3645383-3 04/21/21 15:16

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	2280	2280	100	0.0329		15
Fluoride	U	U	100	0.000		15
Sulfate	U	U	100	0.000		15

L1339297-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1339297-02 04/21/21 21:02 • (DUP) R3645383-7 04/21/21 21:18

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	3280	3150	100	3.94		15
Fluoride	U	U	100	0.000		15
Sulfate	227	222	100	2.14	J	15

Laboratory Control Sample (LCS)

(LCS) R3645383-2 04/21/21 12:09

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	38.9	97.1	80.0-120	
Fluoride	8.00	7.98	99.8	80.0-120	
Sulfate	40.0	39.0	97.5	80.0-120	

L1339277-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339277-04 04/21/21 16:06 • (MS) R3645383-4 04/21/21 16:22 • (MSD) R3645383-5 04/21/21 16:39

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50.0	1980	1970	1950	0.000	0.000	100	80.0-120	V	V	0.931	15
Fluoride	5.00	U	10.5	10.5	211	210	100	80.0-120	J5	J5	0.558	15
Sulfate	50.0	U	94.0	92.7	188	185	100	80.0-120	J5	J5	1.39	15

L1339297-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1339297-01 04/21/21 19:39 • (MS) R3645383-6 04/21/21 19:56

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	788	749	0.000	10	80.0-120	V
Fluoride	5.00	0.755	3.88	62.5	10	80.0-120	J6
Sulfate	50.0	9.82	45.1	70.6	10	80.0-120	J6

Method Blank (MB)

(MB) R3643288-1 04/18/21 13:05

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury	U		0.000100	0.000200

Laboratory Control Sample (LCS)

(LCS) R3643288-2 04/18/21 13:07

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.00300	0.00322	107	80.0-120	

L1339409-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339409-01 04/18/21 13:09 • (MS) R3643288-3 04/18/21 13:11 • (MSD) R3643288-4 04/18/21 13:13

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.00300	U	0.00300	0.00294	100	98.0	1	75.0-125			2.17	20

Method Blank (MB)

(MB) R3644082-1 04/20/21 11:09

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury,Dissolved	U		0.000100	0.000200

Laboratory Control Sample (LCS)

(LCS) R3644082-2 04/20/21 11:11

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury,Dissolved	0.00300	0.00321	107	80.0-120	

L1339260-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339260-09 04/20/21 11:13 • (MS) R3644082-3 04/20/21 11:19 • (MSD) R3644082-4 04/20/21 11:21

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury,Dissolved	0.00300	U	0.00355	0.00349	118	116	1	75.0-125			1.84	20

L1339260-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339260-12 04/20/21 11:23 • (MS) R3644082-5 04/20/21 11:25 • (MSD) R3644082-6 04/20/21 11:27

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury,Dissolved	0.00300	U	0.00354	0.00346	118	115	1	75.0-125			2.08	20

Method Blank (MB)

(MB) R3646149-1 04/24/21 14:32

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Boron,Dissolved	0.0229	J	0.0200	0.200

Laboratory Control Sample (LCS)

(LCS) R3646149-2 04/24/21 14:34

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron,Dissolved	1.00	0.963	96.3	80.0-120	

L1339260-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339260-09 04/24/21 14:37 • (MS) R3646149-4 04/24/21 14:43 • (MSD) R3646149-5 04/24/21 14:46

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Boron,Dissolved	1.00	6.63	7.43	7.47	80.0	84.4	1	75.0-125			0.596	20

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Method Blank (MB)

(MB) R3645443-1 04/22/21 16:48

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Boron,Dissolved	U		0.0200	0.200

Laboratory Control Sample (LCS)

(LCS) R3645443-2 04/22/21 16:51

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron,Dissolved	1.00	0.955	95.5	80.0-120	

L1339260-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339260-12 04/22/21 16:54 • (MS) R3645443-4 04/22/21 16:59 • (MSD) R3645443-5 04/22/21 17:02

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Boron,Dissolved	1.00	1.05	2.04	2.00	98.9	95.2	1	75.0-125			1.81	20

Method Blank (MB)

(MB) R3646690-1 04/26/21 11:38

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Boron	U		0.0200	0.200

Laboratory Control Sample (LCS)

(LCS) R3646690-2 04/26/21 11:40

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron	1.00	0.927	92.7	80.0-120	

L1339205-27 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339205-27 04/26/21 11:43 • (MS) R3646690-4 04/26/21 11:48 • (MSD) R3646690-5 04/26/21 11:51

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Boron	1.00	U	0.945	0.935	94.5	93.5	1	75.0-125			1.06	20

Method Blank (MB)

(MB) R3644877-1 04/21/21 20:27

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic,Dissolved	U		0.000180	0.00200
Barium,Dissolved	U		0.000381	0.0200
Iron,Dissolved	U		0.0281	0.100
Lead,Dissolved	U		0.000849	0.00200
Manganese,Dissolved	U		0.000704	0.00500
Selenium,Dissolved	U		0.000300	0.00200

Method Blank (MB)

(MB) R3644882-1 04/21/21 23:27

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chromium,Dissolved	0.00203		0.00124	0.00200

Laboratory Control Sample (LCS)

(LCS) R3644877-2 04/21/21 20:31

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic,Dissolved	0.0500	0.0520	104	80.0-120	
Barium,Dissolved	0.0500	0.0467	93.4	80.0-120	
Iron,Dissolved	5.00	5.61	112	80.0-120	
Lead,Dissolved	0.0500	0.0487	97.5	80.0-120	
Manganese,Dissolved	0.0500	0.0530	106	80.0-120	
Selenium,Dissolved	0.0500	0.0498	99.5	80.0-120	

Laboratory Control Sample (LCS)

(LCS) R3644882-2 04/21/21 23:31

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chromium,Dissolved	0.0500	0.0526	105	80.0-120	

L1338602-21 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1338602-21 04/21/21 20:34 • (MS) R3644877-4 04/21/21 20:41 • (MSD) R3644877-5 04/21/21 20:44

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic,Dissolved	0.0500	0.0110	0.0608	0.0609	99.5	99.7	1	75.0-125			0.166	20
Barium,Dissolved	0.0500	0.0970	0.144	0.148	93.6	102	1	75.0-125			2.79	20
Iron,Dissolved	5.00	0.0669	5.45	5.25	108	104	1	75.0-125			3.75	20
Lead,Dissolved	0.0500	U	0.0493	0.0496	98.6	99.2	1	75.0-125			0.669	20
Manganese,Dissolved	0.0500	0.0374	0.0858	0.0853	96.8	95.7	1	75.0-125			0.616	20
Selenium,Dissolved	0.0500	U	0.0523	0.0522	105	104	1	75.0-125			0.217	20

L1338602-21 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1338602-21 04/21/21 23:34 • (MS) R3644882-4 04/21/21 23:41 • (MSD) R3644882-5 04/21/21 23:44

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chromium,Dissolved	0.0500	0.00178	0.0480	0.0499	92.5	96.2	1	75.0-125			3.81	20

Method Blank (MB)

(MB) R3646457-1 04/26/21 08:39

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic,Dissolved	U		0.000180	0.00200
Barium,Dissolved	U		0.000381	0.0200
Cadmium,Dissolved	U		0.000150	0.00100
Chromium,Dissolved	U		0.00124	0.00200
Cobalt,Dissolved	U		0.0000596	0.00200
Iron,Dissolved	U		0.0281	0.100
Lead,Dissolved	U		0.000849	0.00200
Manganese,Dissolved	U		0.000704	0.00500
Nickel,Dissolved	U		0.000816	0.00200
Selenium,Dissolved	U		0.000300	0.00200
Uranium,Dissolved	U		0.0000700	0.0200
Vanadium,Dissolved	U		0.000664	0.00500

Laboratory Control Sample (LCS)

(LCS) R3646457-2 04/26/21 08:43

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic,Dissolved	0.0500	0.0498	99.7	80.0-120	
Barium,Dissolved	0.0500	0.0492	98.5	80.0-120	
Cadmium,Dissolved	0.0500	0.0543	109	80.0-120	
Chromium,Dissolved	0.0500	0.0536	107	80.0-120	
Cobalt,Dissolved	0.0500	0.0535	107	80.0-120	
Iron,Dissolved	5.00	5.30	106	80.0-120	
Lead,Dissolved	0.0500	0.0499	99.9	80.0-120	
Manganese,Dissolved	0.0500	0.0526	105	80.0-120	
Nickel,Dissolved	0.0500	0.0533	107	80.0-120	
Selenium,Dissolved	0.0500	0.0526	105	80.0-120	
Uranium,Dissolved	0.0500	0.0517	103	80.0-120	
Vanadium,Dissolved	0.0500	0.0522	104	80.0-120	

L1339352-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339352-06 04/26/21 08:46 • (MS) R3646457-4 04/26/21 08:53 • (MSD) R3646457-5 04/26/21 08:56

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic,Dissolved	0.0500	0.00609	0.0551	0.0528	98.0	93.4	1	75.0-125			4.24	20
Barium,Dissolved	0.0500	0.0282	0.0806	0.0786	105	101	1	75.0-125			2.58	20
Cadmium,Dissolved	0.0500	U	0.0521	0.0531	104	106	1	75.0-125			2.04	20

L1339352-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339352-06 04/26/21 08:46 • (MS) R3646457-4 04/26/21 08:53 • (MSD) R3646457-5 04/26/21 08:56

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chromium,Dissolved	0.0500	U	0.0520	0.0507	104	101	1	75.0-125			2.55	20
Cobalt,Dissolved	0.0500	0.00114	0.0503	0.0492	98.4	96.1	1	75.0-125			2.32	20
Iron,Dissolved	5.00	U	4.99	4.83	99.9	96.6	1	75.0-125			3.32	20
Lead,Dissolved	0.0500	U	0.0496	0.0504	99.2	101	1	75.0-125			1.64	20
Manganese,Dissolved	0.0500	1.80	1.82	1.78	43.7	0.000	1	75.0-125	V	V	2.08	20
Nickel,Dissolved	0.0500	0.0112	0.0598	0.0582	97.1	93.9	1	75.0-125			2.68	20
Selenium,Dissolved	0.0500	0.00179	0.0558	0.0559	108	108	1	75.0-125			0.264	20
Uranium,Dissolved	0.0500	0.0105	0.0630	0.0628	105	105	1	75.0-125			0.232	20
Vanadium,Dissolved	0.0500	0.00119	0.0520	0.0511	102	99.9	1	75.0-125			1.74	20

Method Blank (MB)

(MB) R3646329-1 04/26/21 00:28

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic,Dissolved	U		0.000180	0.00200
Barium,Dissolved	0.000435	J	0.000381	0.0200
Chromium,Dissolved	U		0.00124	0.00200
Iron,Dissolved	U		0.0281	0.100
Lead,Dissolved	U		0.000849	0.00200
Manganese,Dissolved	U		0.000704	0.00500
Selenium,Dissolved	U		0.000300	0.00200

Laboratory Control Sample (LCS)

(LCS) R3646329-2 04/26/21 00:31

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic,Dissolved	0.0500	0.0441	88.2	80.0-120	
Barium,Dissolved	0.0500	0.0425	85.0	80.0-120	
Chromium,Dissolved	0.0500	0.0455	91.0	80.0-120	
Iron,Dissolved	5.00	4.46	89.2	80.0-120	
Lead,Dissolved	0.0500	0.0436	87.2	80.0-120	
Manganese,Dissolved	0.0500	0.0448	89.6	80.0-120	
Selenium,Dissolved	0.0500	0.0457	91.4	80.0-120	

L1339352-26 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339352-26 04/26/21 00:34 • (MS) R3646329-4 04/26/21 00:41 • (MSD) R3646329-5 04/26/21 00:44

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic,Dissolved	0.0500	0.000375	0.0455	0.0456	90.3	90.5	1	75.0-125			0.173	20
Barium,Dissolved	0.0500	0.0164	0.0633	0.0650	93.8	97.2	1	75.0-125			2.67	20
Chromium,Dissolved	0.0500	U	0.0449	0.0451	89.8	90.3	1	75.0-125			0.578	20
Iron,Dissolved	5.00	U	4.69	4.47	93.7	89.4	1	75.0-125			4.73	20
Lead,Dissolved	0.0500	U	0.0450	0.0430	90.1	86.0	1	75.0-125			4.69	20
Manganese,Dissolved	0.0500	0.274	0.319	0.317	89.7	86.7	1	75.0-125			0.477	20
Selenium,Dissolved	0.0500	U	0.0490	0.0499	98.0	99.8	1	75.0-125			1.79	20

Method Blank (MB)

(MB) R3645091-1 04/22/21 09:24

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic	U		0.000180	0.00200
Barium	U		0.000381	0.0200
Calcium	U		0.0936	1.00
Chromium	U		0.00124	0.00200
Iron	U		0.0281	0.100
Lead	U		0.000849	0.00200
Manganese	U		0.000704	0.00500
Potassium	U		0.108	2.00
Selenium	U		0.000300	0.00200
Sodium	U		0.376	2.00

Laboratory Control Sample (LCS)

(LCS) R3645091-2 04/22/21 09:28

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	0.0500	0.0501	100	80.0-120	
Barium	0.0500	0.0471	94.2	80.0-120	
Calcium	5.00	4.94	98.7	80.0-120	
Chromium	0.0500	0.0539	108	80.0-120	
Iron	5.00	5.24	105	80.0-120	
Lead	0.0500	0.0502	100	80.0-120	
Manganese	0.0500	0.0515	103	80.0-120	
Potassium	5.00	4.83	96.6	80.0-120	
Selenium	0.0500	0.0489	97.8	80.0-120	
Sodium	5.00	5.03	101	80.0-120	

L1339014-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339014-01 04/22/21 09:31 • (MS) R3645091-4 04/22/21 09:38 • (MSD) R3645091-5 04/22/21 09:41

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	0.0500	0.00151	0.0508	0.0517	98.7	100	1	75.0-125			1.63	20
Barium	0.0500	0.378	0.421	0.421	86.8	85.4	1	75.0-125			0.174	20
Calcium	5.00	64.2	66.9	66.9	55.1	54.9	1	75.0-125	V	V	0.0180	20
Chromium	0.0500	0.00290	0.0535	0.0548	101	104	1	75.0-125			2.39	20
Iron	5.00	0.0362	5.13	5.23	103	105	1	75.0-125			1.91	20
Lead	0.0500	U	0.0505	0.0513	101	103	1	75.0-125			1.57	20
Manganese	0.0500	0.00183	0.0511	0.0517	98.5	99.7	1	75.0-125			1.13	20

L1339014-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339014-01 04/22/21 09:31 • (MS) R3645091-4 04/22/21 09:38 • (MSD) R3645091-5 04/22/21 09:41

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Potassium	5.00	2.25	7.08	7.22	96.6	99.3	1	75.0-125			1.85	20
Selenium	0.0500	U	0.0508	0.0502	102	100	1	75.0-125			1.29	20
Sodium	5.00	115	116	114	30.8	0.000	1	75.0-125	V	V	1.70	20

Method Blank (MB)

(MB) R3645469-1 04/22/21 19:00

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic	U		0.000180	0.00200
Barium	U		0.000381	0.0200
Cadmium	U		0.000150	0.00100
Calcium	U		0.0936	1.00
Chromium	U		0.00124	0.00200
Cobalt	U		0.0000596	0.00200
Iron	0.0500	J	0.0281	0.100
Lead	U		0.000849	0.00200
Manganese	U		0.000704	0.00500
Nickel	U		0.000816	0.00200
Potassium	U		0.108	2.00
Selenium	U		0.000300	0.00200
Sodium	U		0.376	2.00
Uranium	U		0.0000700	0.0200
Vanadium	U		0.000664	0.00500

Laboratory Control Sample (LCS)

(LCS) R3645469-2 04/22/21 19:03

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	0.0500	0.0509	102	80.0-120	
Barium	0.0500	0.0516	103	80.0-120	
Cadmium	0.0500	0.0502	100	80.0-120	
Calcium	5.00	4.92	98.5	80.0-120	
Chromium	0.0500	0.0527	105	80.0-120	
Cobalt	0.0500	0.0522	104	80.0-120	
Iron	5.00	5.16	103	80.0-120	
Lead	0.0500	0.0473	94.6	80.0-120	
Manganese	0.0500	0.0526	105	80.0-120	
Nickel	0.0500	0.0515	103	80.0-120	
Potassium	5.00	4.88	97.6	80.0-120	
Selenium	0.0500	0.0501	100	80.0-120	
Sodium	5.00	4.95	99.0	80.0-120	
Uranium	0.0500	0.0465	92.9	80.0-120	
Vanadium	0.0500	0.0509	102	80.0-120	

L1339352-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339352-09 04/22/21 19:06 • (MS) R3645469-4 04/22/21 19:13 • (MSD) R3645469-5 04/22/21 19:16

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	0.0500	0.110	0.157	0.157	93.5	94.8	1	75.0-125			0.414	20
Barium	0.0500	0.0154	0.0663	0.0658	102	101	1	75.0-125			0.807	20
Cadmium	0.0500	U	0.0513	0.0514	103	103	1	75.0-125			0.174	20
Calcium	5.00	635	632	633	0.000	0.000	1	75.0-125	V	V	0.150	20
Chromium	0.0500	U	0.0499	0.0488	99.7	97.6	1	75.0-125			2.12	20
Cobalt	0.0500	0.000693	0.0487	0.0484	96.1	95.4	1	75.0-125			0.651	20
Potassium	5.00	6.42	11.1	11.2	94.3	95.9	1	75.0-125			0.735	20
Iron	5.00	13.1	18.1	18.0	100	97.4	1	75.0-125			0.754	20
Lead	0.0500	U	0.0497	0.0500	99.5	99.9	1	75.0-125			0.477	20
Manganese	0.0500	3.04	3.10	3.10	123	132	1	75.0-125		V	0.145	20
Nickel	0.0500	0.00893	0.0555	0.0557	93.0	93.6	1	75.0-125			0.476	20
Selenium	0.0500	0.00203	0.0608	0.0575	117	111	1	75.0-125			5.52	20
Sodium	5.00	2520	2450	2530	0.000	266	1	75.0-125	E V	E V	3.35	20
Uranium	0.0500	0.000392	0.0513	0.0512	102	102	1	75.0-125			0.122	20
Vanadium	0.0500	0.000962	0.0502	0.0508	98.5	99.6	1	75.0-125			1.09	20

Method Blank (MB)

(MB) R3646817-1 04/26/21 19:46

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic	U		0.000180	0.00200
Barium	U		0.000381	0.0200
Cadmium	U		0.000150	0.00100
Calcium	U		0.0936	1.00
Chromium	0.00181	J	0.00124	0.00200
Cobalt	U		0.0000596	0.00200
Iron	0.0449	J	0.0281	0.100
Lead	U		0.000849	0.00200
Manganese	U		0.000704	0.00500
Nickel	U		0.000816	0.00200
Potassium	U		0.108	2.00
Selenium	U		0.000300	0.00200
Sodium	U		0.376	2.00
Uranium	U		0.0000700	0.0200
Vanadium	U		0.000664	0.00500

Laboratory Control Sample (LCS)

(LCS) R3646817-2 04/26/21 19:50

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	0.0500	0.0490	98.0	80.0-120	
Barium	0.0500	0.0496	99.3	80.0-120	
Cadmium	0.0500	0.0509	102	80.0-120	
Calcium	5.00	5.16	103	80.0-120	
Chromium	0.0500	0.0518	104	80.0-120	
Cobalt	0.0500	0.0509	102	80.0-120	
Iron	5.00	5.10	102	80.0-120	
Lead	0.0500	0.0508	102	80.0-120	
Manganese	0.0500	0.0512	102	80.0-120	
Nickel	0.0500	0.0515	103	80.0-120	
Potassium	5.00	5.09	102	80.0-120	
Selenium	0.0500	0.0484	96.9	80.0-120	
Sodium	5.00	5.10	102	80.0-120	
Uranium	0.0500	0.0503	101	80.0-120	
Vanadium	0.0500	0.0501	100	80.0-120	

L1339378-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339378-12 04/26/21 19:53 • (MS) R3646817-4 04/26/21 20:00 • (MSD) R3646817-5 04/26/21 20:03

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	0.0500	0.00163	0.0508	0.0521	98.2	101	1	75.0-125			2.69	20
Barium	0.0500	0.0128	0.0636	0.0634	102	101	1	75.0-125			0.347	20
Cadmium	0.0500	U	0.0528	0.0538	106	108	1	75.0-125			1.85	20
Calcium	5.00	491	499	498	173	152	1	75.0-125	V	V	0.204	20
Chromium	0.0500	U	0.0514	0.0519	103	104	1	75.0-125			0.933	20
Cobalt	0.0500	0.000292	0.0505	0.0515	100	102	1	75.0-125			1.80	20
Potassium	5.00	0.706	5.77	5.72	101	100	1	75.0-125			0.858	20
Iron	5.00	U	5.05	5.09	101	102	1	75.0-125			0.841	20
Lead	0.0500	U	0.0511	0.0511	102	102	1	75.0-125			0.0148	20
Manganese	0.0500	U	0.0516	0.0518	103	104	1	75.0-125			0.408	20
Nickel	0.0500	0.000817	0.0500	0.0522	98.4	103	1	75.0-125			4.39	20
Selenium	0.0500	0.0103	0.0577	0.0614	94.7	102	1	75.0-125			6.17	20
Sodium	5.00	149	156	155	149	119	1	75.0-125	V		0.962	20
Uranium	0.0500	0.0185	0.0697	0.0697	102	103	1	75.0-125			0.133	20
Vanadium	0.0500	0.0116	0.0622	0.0619	101	101	1	75.0-125			0.514	20

Method Blank (MB)

(MB) R3645203-2 04/20/21 08:04

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	0.0411	J	0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*98.8*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R3645203-1 04/20/21 07:21

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.70	104	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*105*	*78.0-120*	

Method Blank (MB)

(MB) R3644081-2 04/20/21 09:44

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*101*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R3644081-1 04/20/21 09:01

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.47	99.5	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*113*	*78.0-120*	

Method Blank (MB)

(MB) R3645680-2 04/23/21 09:48

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*99.0*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R3645680-1 04/23/21 08:14

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	4.69	85.3	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*105*	*78.0-120*	

Method Blank (MB)

(MB) R3643229-4 04/16/21 21:41

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0113	0.0500
Benzene	U		0.0000941	0.00100
Bromodichloromethane	U		0.000136	0.00100
Bromoform	U		0.000129	0.00100
Bromomethane	U		0.000605	0.00500
n-Butylbenzene	U		0.000157	0.00100
sec-Butylbenzene	U		0.000125	0.00100
Carbon disulfide	U		0.0000962	0.00100
Carbon tetrachloride	U		0.000128	0.00100
Chlorobenzene	U		0.000116	0.00100
Chlorodibromomethane	U		0.000140	0.00100
Chloroethane	U		0.000192	0.00500
Chloroform	U		0.000111	0.00500
Chloromethane	U		0.000960	0.00250
1,2-Dibromoethane	U		0.000126	0.00100
1,1-Dichloroethane	U		0.000100	0.00100
1,2-Dichloroethane	U		0.0000819	0.00100
1,1-Dichloroethene	U		0.000188	0.00100
cis-1,2-Dichloroethene	U		0.000126	0.00100
trans-1,2-Dichloroethene	U		0.000149	0.00100
1,2-Dichloropropane	U		0.000149	0.00100
cis-1,3-Dichloropropene	U		0.000111	0.00100
trans-1,3-Dichloropropene	U		0.000118	0.00100
Ethylbenzene	U		0.000137	0.00100
2-Hexanone	U		0.000787	0.0100
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
Methylene Chloride	U		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100
Methyl tert-butyl ether	U		0.000101	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.0000993	0.00100
Styrene	U		0.000118	0.00100
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100
Tetrachloroethene	U		0.000300	0.00100
Toluene	U		0.000278	0.00100
1,1,1-Trichloroethane	U		0.000149	0.00100
1,1,2-Trichloroethane	U		0.000158	0.00100

Method Blank (MB)

(MB) R3643229-4 04/16/21 21:41

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Trichloroethene	U		0.000190	0.00100
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
Vinyl chloride	U		0.000234	0.00100
Xylenes, Total	U		0.000174	0.00300
o-Xylene	U		0.000174	0.00100
m&p-Xylenes	U		0.000430	0.00200
(S) Toluene-d8	*106*			*80.0-120*
(S) 4-Bromofluorobenzene	*104*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*99.4*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3643229-1 04/16/21 20:20 • (LCSD) R3643229-2 04/16/21 20:40

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.0250	0.0227	0.0249	90.8	99.6	19.0-160			9.24	27
Benzene	0.00500	0.00467	0.00490	93.4	98.0	70.0-123			4.81	20
Bromodichloromethane	0.00500	0.00472	0.00482	94.4	96.4	75.0-120			2.10	20
Bromoform	0.00500	0.00464	0.00461	92.8	92.2	68.0-132			0.649	20
Bromomethane	0.00500	0.00496	0.00520	99.2	104	10.0-160			4.72	25
n-Butylbenzene	0.00500	0.00494	0.00521	98.8	104	73.0-125			5.32	20
sec-Butylbenzene	0.00500	0.00470	0.00493	94.0	98.6	75.0-125			4.78	20
Carbon disulfide	0.00500	0.00420	0.00446	84.0	89.2	61.0-128			6.00	20
Carbon tetrachloride	0.00500	0.00446	0.00456	89.2	91.2	68.0-126			2.22	20
Chlorobenzene	0.00500	0.00479	0.00476	95.8	95.2	80.0-121			0.628	20
Chlorodibromomethane	0.00500	0.00463	0.00464	92.6	92.8	77.0-125			0.216	20
Chloroethane	0.00500	0.00518	0.00554	104	111	47.0-150			6.72	20
Chloroform	0.00500	0.00481	0.00495	96.2	99.0	73.0-120			2.87	20
Chloromethane	0.00500	0.0101	0.0101	202	202	41.0-142	J4	J4	0.000	20
1,2-Dibromoethane	0.00500	0.00489	0.00479	97.8	95.8	80.0-122			2.07	20
1,1-Dichloroethane	0.00500	0.00507	0.00521	101	104	70.0-126			2.72	20
1,2-Dichloroethane	0.00500	0.00450	0.00461	90.0	92.2	70.0-128			2.41	20
1,1-Dichloroethene	0.00500	0.00474	0.00501	94.8	100	71.0-124			5.54	20
cis-1,2-Dichloroethene	0.00500	0.00480	0.00481	96.0	96.2	73.0-120			0.208	20
trans-1,2-Dichloroethene	0.00500	0.00477	0.00484	95.4	96.8	73.0-120			1.46	20
1,2-Dichloropropane	0.00500	0.00505	0.00513	101	103	77.0-125			1.57	20
cis-1,3-Dichloropropene	0.00500	0.00484	0.00491	96.8	98.2	80.0-123			1.44	20
trans-1,3-Dichloropropene	0.00500	0.00473	0.00474	94.6	94.8	78.0-124			0.211	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3643229-1 04/16/21 20:20 • (LCSD) R3643229-2 04/16/21 20:40

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethylbenzene	0.00500	0.00492	0.00480	98.4	96.0	79.0-123			2.47	20
2-Hexanone	0.0250	0.0285	0.0279	114	112	67.0-149			2.13	20
Isopropylbenzene	0.00500	0.00456	0.00466	91.2	93.2	76.0-127			2.17	20
p-Isopropyltoluene	0.00500	0.00477	0.00504	95.4	101	76.0-125			5.50	20
2-Butanone (MEK)	0.0250	0.0255	0.0258	102	103	44.0-160			1.17	20
Methylene Chloride	0.00500	0.00468	0.00498	93.6	99.6	67.0-120			6.21	20
4-Methyl-2-pentanone (MIBK)	0.0250	0.0276	0.0272	110	109	68.0-142			1.46	20
Methyl tert-butyl ether	0.00500	0.00466	0.00465	93.2	93.0	68.0-125			0.215	20
Naphthalene	0.00500	0.00637	0.00688	127	138	54.0-135		J4	7.70	20
n-Propylbenzene	0.00500	0.00459	0.00478	91.8	95.6	77.0-124			4.06	20
Styrene	0.00500	0.00468	0.00475	93.6	95.0	73.0-130			1.48	20
1,1,1,2-Tetrachloroethane	0.00500	0.00503	0.00483	101	96.6	75.0-125			4.06	20
1,1,2,2-Tetrachloroethane	0.00500	0.00492	0.00470	98.4	94.0	65.0-130			4.57	20
Tetrachloroethene	0.00500	0.00437	0.00473	87.4	94.6	72.0-132			7.91	20
Toluene	0.00500	0.00445	0.00456	89.0	91.2	79.0-120			2.44	20
1,1,1-Trichloroethane	0.00500	0.00464	0.00467	92.8	93.4	73.0-124			0.644	20
1,1,2-Trichloroethane	0.00500	0.00499	0.00491	99.8	98.2	80.0-120			1.62	20
Trichloroethene	0.00500	0.00506	0.00517	101	103	78.0-124			2.15	20
1,2,4-Trimethylbenzene	0.00500	0.00453	0.00479	90.6	95.8	76.0-121			5.58	20
1,3,5-Trimethylbenzene	0.00500	0.00460	0.00463	92.0	92.6	76.0-122			0.650	20
Vinyl chloride	0.00500	0.00551	0.00605	110	121	67.0-131			9.34	20
Xylenes, Total	0.0150	0.0137	0.0136	91.3	90.7	79.0-123			0.733	20
o-Xylene	0.00500	0.00465	0.00456	93.0	91.2	80.0-122			1.95	20
m&p-Xylenes	0.0100	0.00900	0.00907	90.0	90.7	80.0-122			0.775	20
(S) Toluene-d8				*107*	*105*	*80.0-120*				
(S) 4-Bromofluorobenzene				*108*	*107*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*100*	*100*	*70.0-130*				

Method Blank (MB)

(MB) R3644752-2 04/17/21 20:34

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0113	0.0500
Benzene	U		0.0000941	0.00100
Bromodichloromethane	U		0.000136	0.00100
Bromoform	U		0.000129	0.00100
Bromomethane	U		0.000605	0.00500
n-Butylbenzene	U		0.000157	0.00100
sec-Butylbenzene	U		0.000125	0.00100
Carbon disulfide	U		0.0000962	0.00100
Carbon tetrachloride	U		0.000128	0.00100
Chlorobenzene	U		0.000116	0.00100
Chlorodibromomethane	U		0.000140	0.00100
Chloroethane	U		0.000192	0.00500
Chloroform	U		0.000111	0.00500
Chloromethane	U		0.000960	0.00250
1,2-Dibromoethane	U		0.000126	0.00100
1,1-Dichloroethane	U		0.000100	0.00100
1,2-Dichloroethane	U		0.0000819	0.00100
1,1-Dichloroethene	U		0.000188	0.00100
cis-1,2-Dichloroethene	U		0.000126	0.00100
trans-1,2-Dichloroethene	U		0.000149	0.00100
1,2-Dichloropropane	U		0.000149	0.00100
cis-1,3-Dichloropropene	U		0.000111	0.00100
trans-1,3-Dichloropropene	U		0.000118	0.00100
Ethylbenzene	U		0.000137	0.00100
2-Hexanone	U		0.000787	0.0100
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
Methylene Chloride	U		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100
Methyl tert-butyl ether	U		0.000101	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.0000993	0.00100
Styrene	U		0.000118	0.00100
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100
Tetrachloroethene	U		0.000300	0.00100
Toluene	U		0.000278	0.00100
1,1,1-Trichloroethane	U		0.000149	0.00100
1,1,2-Trichloroethane	U		0.000158	0.00100

Method Blank (MB)

(MB) R3644752-2 04/17/21 20:34

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Trichloroethene	U		0.000190	0.00100
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
Vinyl chloride	U		0.000234	0.00100
Xylenes, Total	U		0.000174	0.00300
o-Xylene	U		0.000174	0.00100
m&p-Xylenes	U		0.000430	0.00200
(S) Toluene-d8	*107*			*80.0-120*
(S) 4-Bromofluorobenzene	*107*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*98.6*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3644752-1 04/17/21 19:53

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.0250	0.0242	96.8	19.0-160	
Benzene	0.00500	0.00480	96.0	70.0-123	
Bromodichloromethane	0.00500	0.00479	95.8	75.0-120	
Bromoform	0.00500	0.00575	115	68.0-132	
Bromomethane	0.00500	0.00370	74.0	10.0-160	
n-Butylbenzene	0.00500	0.00374	74.8	73.0-125	
sec-Butylbenzene	0.00500	0.00412	82.4	75.0-125	
Carbon disulfide	0.00500	0.00448	89.6	61.0-128	
Carbon tetrachloride	0.00500	0.00527	105	68.0-126	
Chlorobenzene	0.00500	0.00468	93.6	80.0-121	
Chlorodibromomethane	0.00500	0.00536	107	77.0-125	
Chloroethane	0.00500	0.00460	92.0	47.0-150	
Chloroform	0.00500	0.00470	94.0	73.0-120	
Chloromethane	0.00500	0.00545	109	41.0-142	
1,2-Dibromoethane	0.00500	0.00501	100	80.0-122	
1,1-Dichloroethane	0.00500	0.00469	93.8	70.0-126	
1,2-Dichloroethane	0.00500	0.00486	97.2	70.0-128	
1,1-Dichloroethene	0.00500	0.00424	84.8	71.0-124	
cis-1,2-Dichloroethene	0.00500	0.00493	98.6	73.0-120	
trans-1,2-Dichloroethene	0.00500	0.00458	91.6	73.0-120	
1,2-Dichloropropane	0.00500	0.00447	89.4	77.0-125	
cis-1,3-Dichloropropene	0.00500	0.00455	91.0	80.0-123	
trans-1,3-Dichloropropene	0.00500	0.00457	91.4	78.0-124	

Laboratory Control Sample (LCS)

(LCS) R3644752-1 04/17/21 19:53

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ethylbenzene	0.00500	0.00466	93.2	79.0-123	
2-Hexanone	0.0250	0.0229	91.6	67.0-149	
Isopropylbenzene	0.00500	0.00478	95.6	76.0-127	
p-Isopropyltoluene	0.00500	0.00408	81.6	76.0-125	
2-Butanone (MEK)	0.0250	0.0245	98.0	44.0-160	
Methylene Chloride	0.00500	0.00464	92.8	67.0-120	
4-Methyl-2-pentanone (MIBK)	0.0250	0.0217	86.8	68.0-142	
Methyl tert-butyl ether	0.00500	0.00437	87.4	68.0-125	
Naphthalene	0.00500	0.00373	74.6	54.0-135	
n-Propylbenzene	0.00500	0.00386	77.2	77.0-124	
Styrene	0.00500	0.00467	93.4	73.0-130	
1,1,1,2-Tetrachloroethane	0.00500	0.00546	109	75.0-125	
1,1,2,2-Tetrachloroethane	0.00500	0.00397	79.4	65.0-130	
Tetrachloroethene	0.00500	0.00494	98.8	72.0-132	
Toluene	0.00500	0.00467	93.4	79.0-120	
1,1,1-Trichloroethane	0.00500	0.00488	97.6	73.0-124	
1,1,2-Trichloroethane	0.00500	0.00506	101	80.0-120	
Trichloroethene	0.00500	0.00514	103	78.0-124	
1,2,4-Trimethylbenzene	0.00500	0.00406	81.2	76.0-121	
1,3,5-Trimethylbenzene	0.00500	0.00396	79.2	76.0-122	
Vinyl chloride	0.00500	0.00486	97.2	67.0-131	
Xylenes, Total	0.0150	0.0140	93.3	79.0-123	
o-Xylene	0.00500	0.00480	96.0	80.0-122	
m&p-Xylenes	0.0100	0.00924	92.4	80.0-122	
(S) Toluene-d8			*107*	*80.0-120*	
(S) 4-Bromofluorobenzene			*107*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*102*	*70.0-130*	

Method Blank (MB)

(MB) R3645267-2 04/18/21 13:48

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0113	0.0500
Benzene	U		0.0000941	0.00100
Bromodichloromethane	U		0.000136	0.00100
Bromoform	U		0.000129	0.00100
Bromomethane	U		0.000605	0.00500
n-Butylbenzene	U		0.000157	0.00100
sec-Butylbenzene	U		0.000125	0.00100
Carbon disulfide	U		0.0000962	0.00100
Carbon tetrachloride	U		0.000128	0.00100
Chlorobenzene	U		0.000116	0.00100
Chlorodibromomethane	U		0.000140	0.00100
Chloroethane	U		0.000192	0.00500
Chloroform	U		0.000111	0.00500
Chloromethane	U		0.000960	0.00250
1,2-Dibromoethane	U		0.000126	0.00100
1,1-Dichloroethane	U		0.000100	0.00100
1,2-Dichloroethane	U		0.0000819	0.00100
1,1-Dichloroethene	U		0.000188	0.00100
cis-1,2-Dichloroethene	U		0.000126	0.00100
trans-1,2-Dichloroethene	U		0.000149	0.00100
1,2-Dichloropropane	U		0.000149	0.00100
cis-1,3-Dichloropropene	U		0.000111	0.00100
trans-1,3-Dichloropropene	U		0.000118	0.00100
Ethylbenzene	U		0.000137	0.00100
2-Hexanone	U		0.000787	0.0100
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
Methylene Chloride	U		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100
Methyl tert-butyl ether	U		0.000101	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.0000993	0.00100
Styrene	U		0.000118	0.00100
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100
Tetrachloroethene	U		0.000300	0.00100
Toluene	U		0.000278	0.00100
1,1,1-Trichloroethane	U		0.000149	0.00100
1,1,2-Trichloroethane	U		0.000158	0.00100

Method Blank (MB)

(MB) R3645267-2 04/18/21 13:48

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Trichloroethene	U		0.000190	0.00100
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
Vinyl chloride	U		0.000234	0.00100
Xylenes, Total	U		0.000174	0.00300
o-Xylene	U		0.000174	0.00100
m&p-Xylenes	U		0.000430	0.00200
(S) Toluene-d8	*106*			*80.0-120*
(S) 4-Bromofluorobenzene	*107*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3645267-1 04/18/21 12:46

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.0250	0.0370	148	19.0-160	
Benzene	0.00500	0.00485	97.0	70.0-123	
Bromodichloromethane	0.00500	0.00486	97.2	75.0-120	
Bromoform	0.00500	0.00485	97.0	68.0-132	
Bromomethane	0.00500	0.00522	104	10.0-160	
n-Butylbenzene	0.00500	0.00501	100	73.0-125	
sec-Butylbenzene	0.00500	0.00487	97.4	75.0-125	
Carbon disulfide	0.00500	0.00466	93.2	61.0-128	
Carbon tetrachloride	0.00500	0.00465	93.0	68.0-126	
Chlorobenzene	0.00500	0.00475	95.0	80.0-121	
Chlorodibromomethane	0.00500	0.00490	98.0	77.0-125	
Chloroethane	0.00500	0.00542	108	47.0-150	
Chloroform	0.00500	0.00497	99.4	73.0-120	
Chloromethane	0.00500	0.00790	158	41.0-142	J4
1,2-Dibromoethane	0.00500	0.00481	96.2	80.0-122	
1,1-Dichloroethane	0.00500	0.00514	103	70.0-126	
1,2-Dichloroethane	0.00500	0.00473	94.6	70.0-128	
1,1-Dichloroethene	0.00500	0.00496	99.2	71.0-124	
cis-1,2-Dichloroethene	0.00500	0.00487	97.4	73.0-120	
trans-1,2-Dichloroethene	0.00500	0.00490	98.0	73.0-120	
1,2-Dichloropropane	0.00500	0.00530	106	77.0-125	
cis-1,3-Dichloropropene	0.00500	0.00495	99.0	80.0-123	
trans-1,3-Dichloropropene	0.00500	0.00472	94.4	78.0-124	

Laboratory Control Sample (LCS)

(LCS) R3645267-1 04/18/21 12:46

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ethylbenzene	0.00500	0.00481	96.2	79.0-123	
2-Hexanone	0.0250	0.0288	115	67.0-149	
Isopropylbenzene	0.00500	0.00469	93.8	76.0-127	
p-Isopropyltoluene	0.00500	0.00499	99.8	76.0-125	
2-Butanone (MEK)	0.0250	0.0276	110	44.0-160	
Methylene Chloride	0.00500	0.00496	99.2	67.0-120	
4-Methyl-2-pentanone (MIBK)	0.0250	0.0278	111	68.0-142	
Methyl tert-butyl ether	0.00500	0.00485	97.0	68.0-125	
Naphthalene	0.00500	0.00639	128	54.0-135	
n-Propylbenzene	0.00500	0.00460	92.0	77.0-124	
Styrene	0.00500	0.00474	94.8	73.0-130	
1,1,1,2-Tetrachloroethane	0.00500	0.00501	100	75.0-125	
1,1,2,2-Tetrachloroethane	0.00500	0.00481	96.2	65.0-130	
Tetrachloroethene	0.00500	0.00464	92.8	72.0-132	
Toluene	0.00500	0.00458	91.6	79.0-120	
1,1,1-Trichloroethane	0.00500	0.00487	97.4	73.0-124	
1,1,2-Trichloroethane	0.00500	0.00495	99.0	80.0-120	
Trichloroethene	0.00500	0.00515	103	78.0-124	
1,2,4-Trimethylbenzene	0.00500	0.00480	96.0	76.0-121	
1,3,5-Trimethylbenzene	0.00500	0.00463	92.6	76.0-122	
Vinyl chloride	0.00500	0.00599	120	67.0-131	
Xylenes, Total	0.0150	0.0137	91.3	79.0-123	
o-Xylene	0.00500	0.00465	93.0	80.0-122	
m&p-Xylenes	0.0100	0.00906	90.6	80.0-122	
(S) Toluene-d8			*105*	*80.0-120*	
(S) 4-Bromofluorobenzene			*106*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*101*	*70.0-130*	

Method Blank (MB)

(MB) R3644545-1 04/21/21 08:41

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) High Fraction	U		0.0247	0.100
(S) o-Terphenyl	*69.5*			*31.0-160*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3644545-2 04/21/21 09:06 • (LCSD) R3644545-3 04/21/21 09:32

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) High Fraction	1.50	1.62	1.56	108	104	50.0-150			3.77	20
(S) o-Terphenyl				*80.5*	*75.0*	*31.0-160*				

Method Blank (MB)

(MB) R3645511-1 04/22/21 16:54

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) High Fraction	U		0.0247	0.100
(S) o-Terphenyl	*124*			*31.0-160*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3645511-2 04/22/21 17:14 • (LCSD) R3645511-3 04/22/21 17:35

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) High Fraction	1.50	1.65	1.69	110	113	50.0-150			2.40	20
(S) o-Terphenyl				*121*	*125*	*31.0-160*				

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
V	The sample concentration is too high to evaluate accurate spike recoveries.

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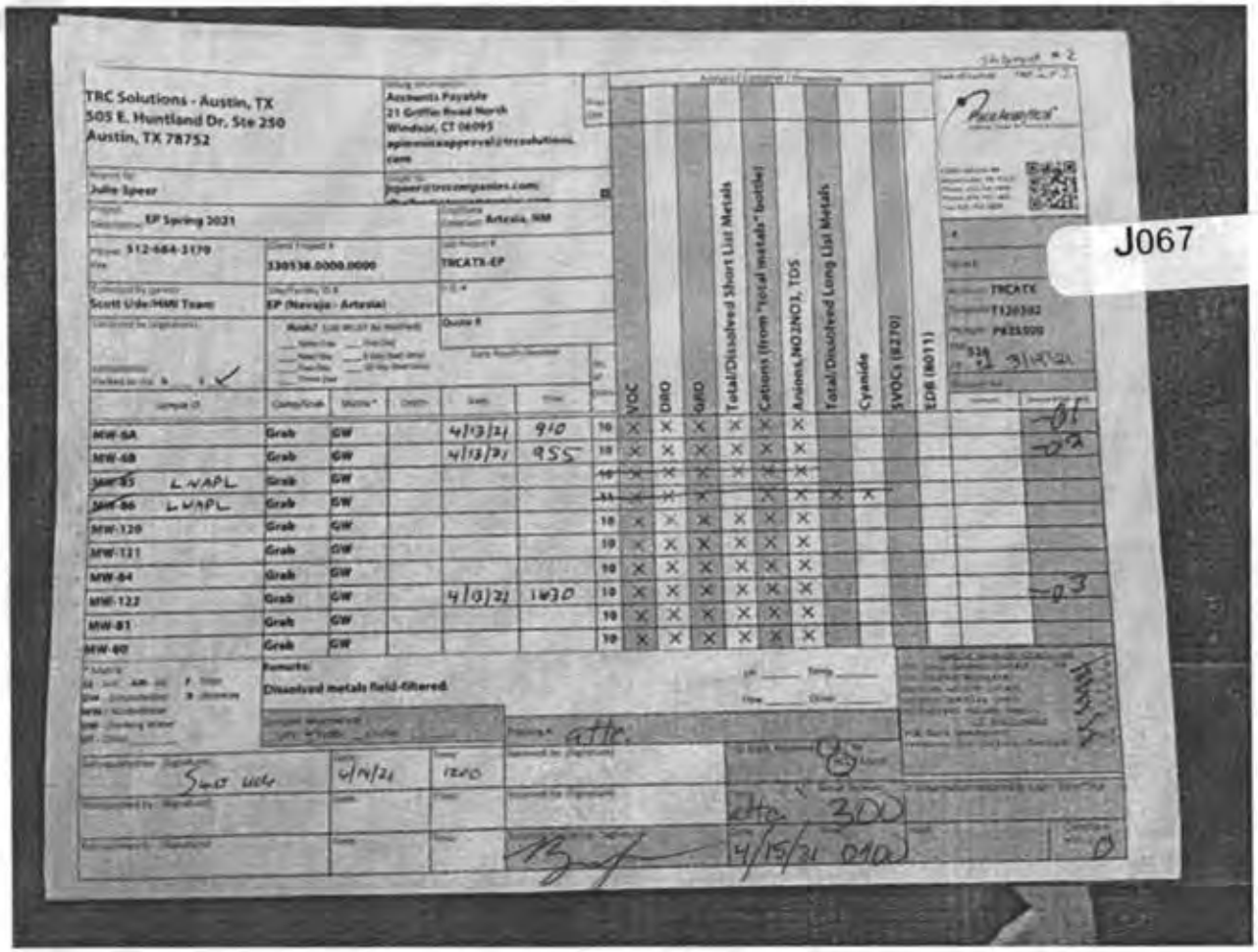
Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

L 1339352



TRC Solutions - Austin, TX
505 E. Huntland Dr. Ste 250
Austin, TX 78752

Accounts Payable
21 Griffin Road North
Windsor, CT 06095

Julie Speer

EP Spring 2021

512-684-3170

330538.0000.0000

Artesia, NM

TRCATX-EP

Scott Ude/MW Team

EP (Navajo - Artesia)

Sample ID	Comp/Grab	Matrix	Depth	Date	Time	# of Cont.	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions (NO2/NO3), TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)
MW-68	Grab	GW		4/13/21	910	10	X	X	X	X	X	X				
MW-68	Grab	GW		4/13/21	955	10	X	X	X	X	X	X				
MW-85 LNAPL	Grab	GW				10	X	X	X		X	X	X	X		
MW-86 LNAPL	Grab	GW				10	X	X	X	X	X	X				
MW-120	Grab	GW				10	X	X	X	X	X	X				
MW-121	Grab	GW				10	X	X	X	X	X	X				
MW-84	Grab	GW				10	X	X	X	X	X	X				
MW-122	Grab	GW		4/13/21	1030	10	X	X	X	X	X	X				
MW-83	Grab	GW				10	X	X	X	X	X	X				
MW-82	Grab	GW				10	X	X	X	X	X	X				

Formats:
Dissolved metals field-filtered

Relinquished by: Signature — Date: 4/14/21 — Time: 1240

Received by: Signature — Date — Time

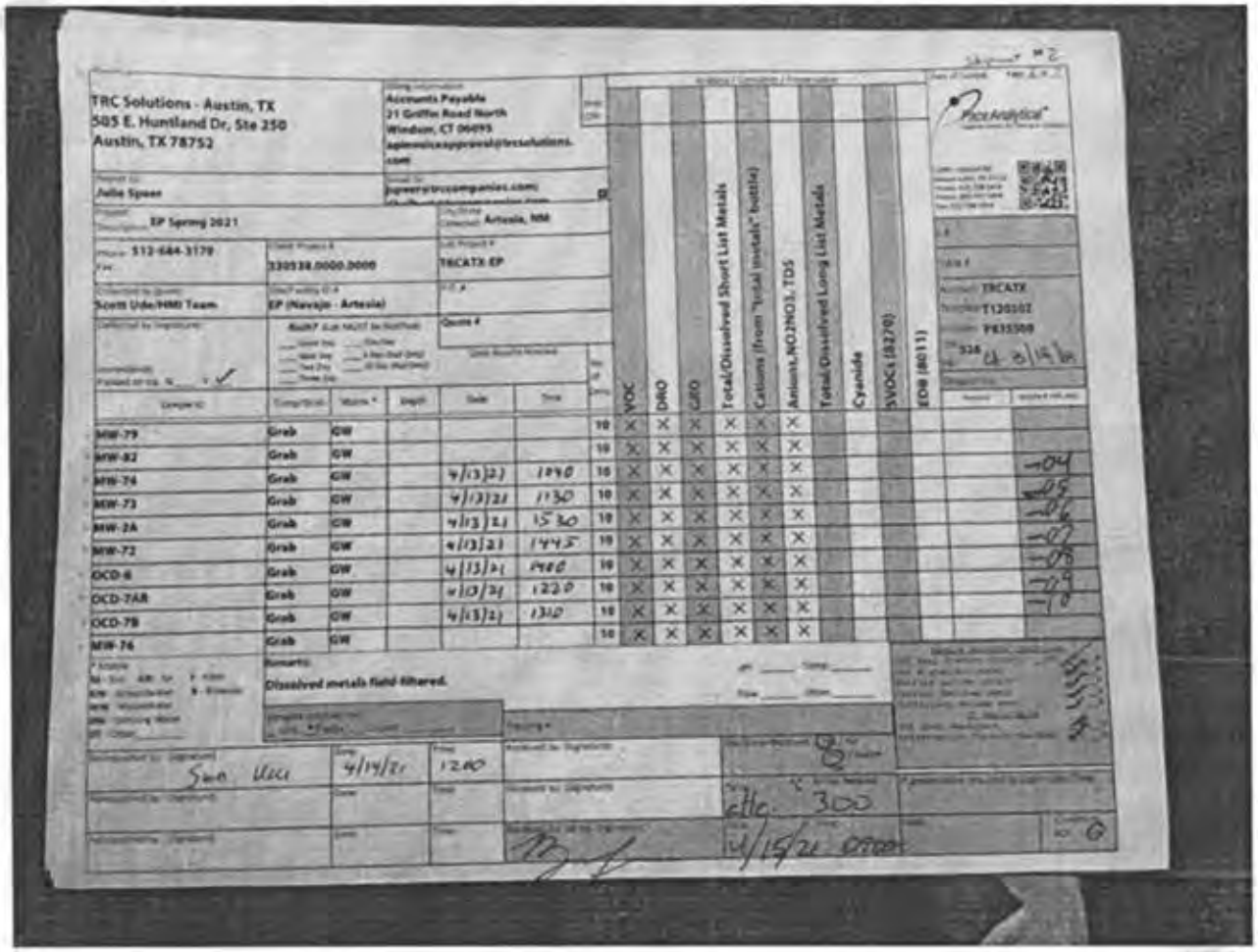
Relinquished by: Signature — Date — Time

Received by: Signature — Date: 4/15/21 — Time: 0900

Rush: 3 Day

J067

L1339352



TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Julie Speer

jspeer@trccompanies.com

EP Spring 2021

Artesia, NM

512-684-3179

330338.0000.0000

TRCATX EP

Scott Ude/HMI Team

EP (Navajo - Artesia)

Quote #

Sample ID	Comp/Grab	Matrix	Depth	Date	Time	# of Cont.	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions, NO2/NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)
MW-79	Grab	GW				10	X	X	X	X	X	X				
MW-82	Grab	GW				10	X	X	X	X	X	X				
MW-74	Grab	GW		4/13/21	1090	10	X	X	X	X	X	X				
MW-73	Grab	GW		4/13/21	1130	10	X	X	X	X	X	X				
MW-2A	Grab	GW		4/13/21	1530	10	X	X	X	X	X	X				
MW-72	Grab	GW		4/13/21	1445	10	X	X	X	X	X	X				
OCD-6	Grab	GW		4/13/21	1400	10	X	X	X	X	X	X				
OCD-7AR	Grab	GW		4/13/21	1220	10	X	X	X	X	X	X				
OCD-7B	Grab	GW		4/13/21	1310	10	X	X	X	X	X	X				
MW-76	Grab	GW				10	X	X	X	X	X	X				

Remarks:
Dissolved metals field filtered.

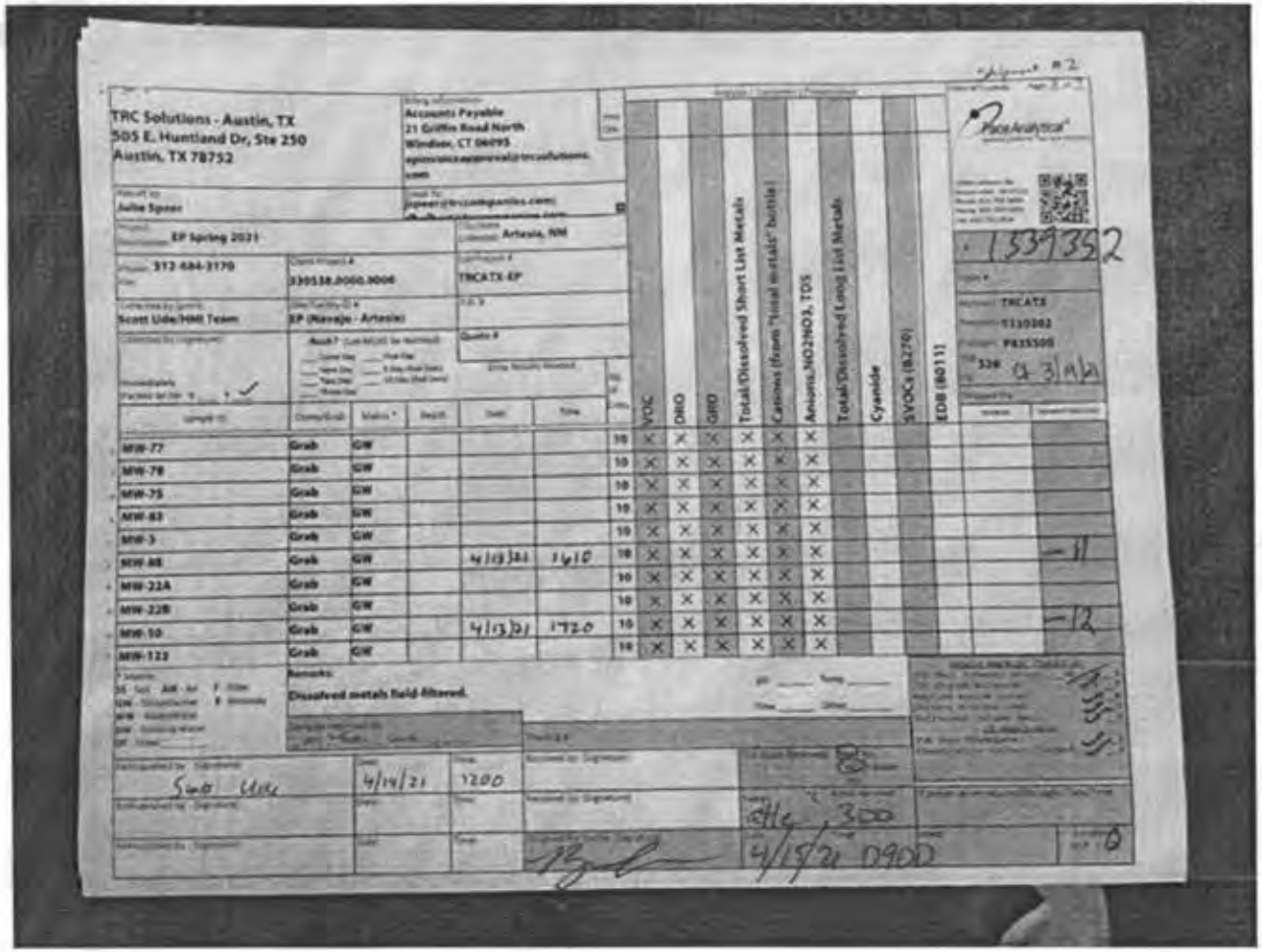
pH ____ Temp ____
Flow ____ Other ____

Pace Analytical

TRCATX
T120102
PE35509
328

4/14/21 1240

4/14/21 0900



TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Accounts Payable
21 Griffin Road North
Windsor, CT 06095

Julie Speer

EP Spring 2021

Artesia, NM

512 484-3170

330538.0000.9000

TRCATX-EP

Scott Ude/HMI Team

EP (Navajo - Artesia)

Sample ID	Comp/Grab	Matrix	# of Cont.	Date	Time	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions:NO2,NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	
MW-77	Grab	GW				10	X	X	X	X	X	X				
MW-78	Grab	GW				10	X	X	X	X	X	X				
MW-75	Grab	GW				10	X	X	X	X	X	X				
MW-83	Grab	GW				10	X	X	X	X	X	X				
MW-3	Grab	GW				10	X	X	X	X	X	X				
MW-88	Grab	GW		4/13/21	1610	10	X	X	X	X	X	X				-11
MW-22A	Grab	GW				10	X	X	X	X	X	X				
MW-22B	Grab	GW				10	X	X	X	X	X	X				
MW-10	Grab	GW		4/13/21	1720	10	X	X	X	X	X	X				-12
MW-123	Grab	GW				10	X	X	X	X	X	X				

Remarks:
Dissolved metals field-filtered.

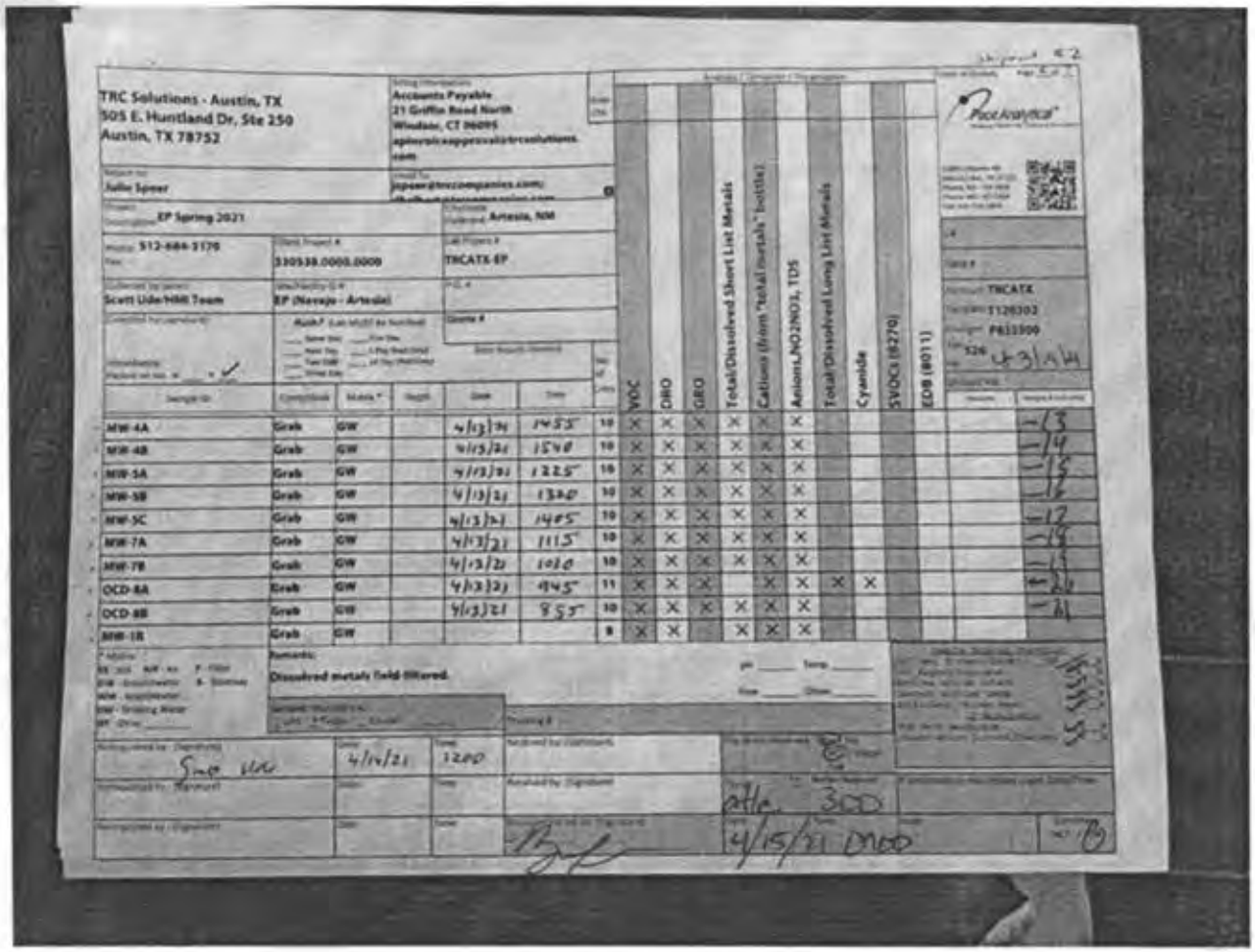
Pace Analytical

1339352

TRCATX
T130302
PB35505
330

Relinquished by: 4/14/21 1200
Received by: 4/14/21 1300
Relinquished by: 4/15/21 0900

L1339352



TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

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21 Griffin Road North
Windsor, CT 06095

Julie Speer

EP Spring 2021

512-684-3170

330538.0000.0009

TRCATX-EP

Scott Ude/NMI Team

EP (Navajo - Artesia)

Artesia, NM

Sample ID	Comp/Grab	Matrix	Depth	Date	Time	# of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions,NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)
MW-4A	Grab	GW		4/13/21	1455	10	X	X	X	X	X	X				
MW-4B	Grab	GW		4/13/21	1540	10	X	X	X	X	X	X				
MW-5A	Grab	GW		4/13/21	1225	10	X	X	X	X	X	X				
MW-5B	Grab	GW		4/13/21	1320	10	X	X	X	X	X	X				
MW-5C	Grab	GW		4/13/21	1405	10	X	X	X	X	X	X				
MW-7A	Grab	GW		4/13/21	1115	10	X	X	X	X	X	X				
MW-7B	Grab	GW		4/13/21	1010	10	X	X	X	X	X	X				
OCD-8A	Grab	GW		4/13/21	945	11	X	X	X		X	X	X	X		
OCD-8B	Grab	GW		4/13/21	855	10	X	X	X	X	X	X				
MW-1R	Grab	GW				8	X	X		X	X	X				

Remarks:
Dissolved metals field-filtered.

pH ____ Temp ____
Flow ____ Other ____

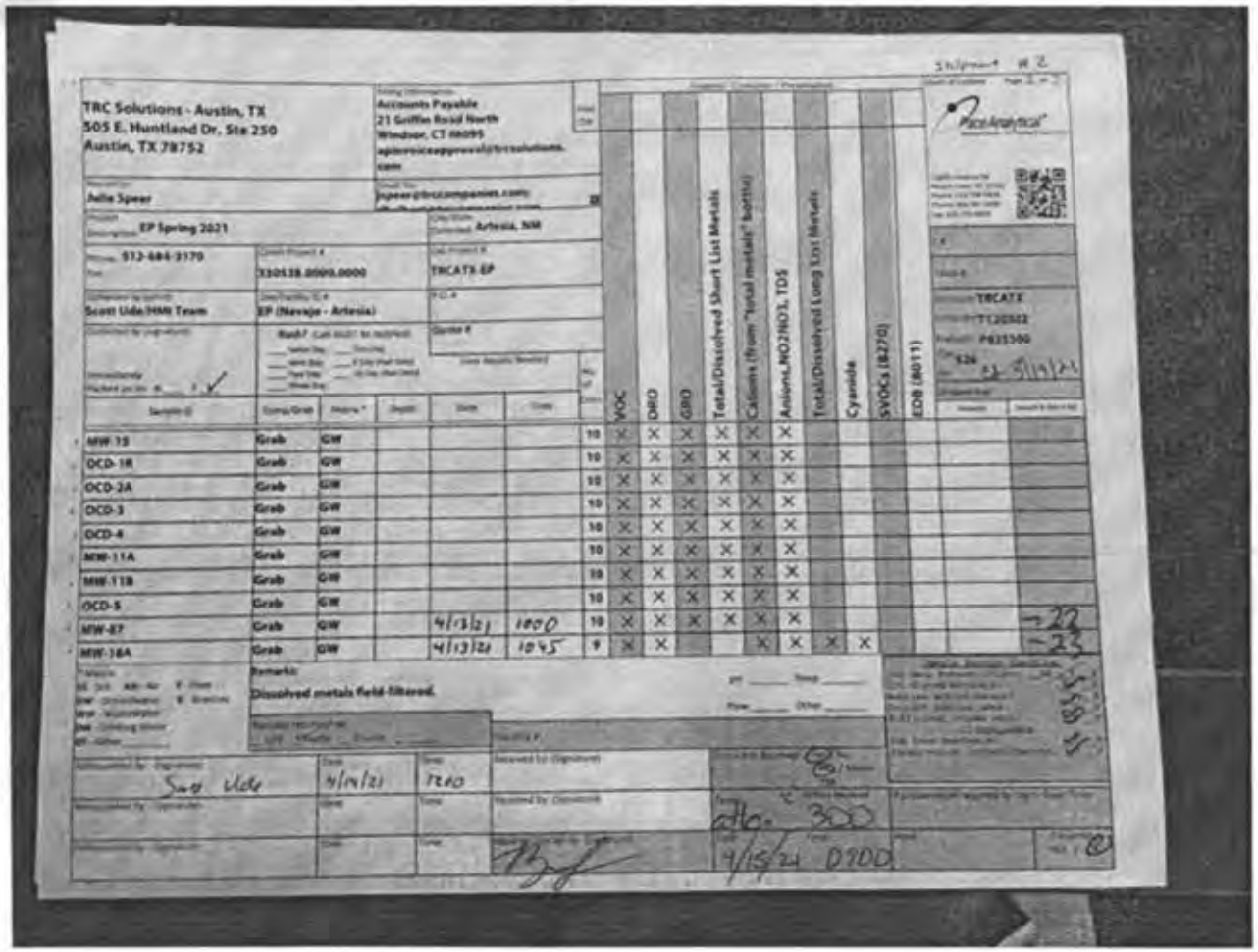
Relinquished by: (Signature) Sue Ude — Date: 4/14/21 — Time: 1200

Received by: (Signature) — Date: 4/15/21 — Time: 0900

Attn. 300

TRCATX
1126302
PO11900
4/13/21

L1339352



TRC Solutions - Austin, TX
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Austin, TX 78752

Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Julie Spear
jspear@trccompanies.com;

EP Spring 2021
Artesia, NM

512-684-3170

330538.0000.0000

TRCATX-EP

Scott Ude/HNR Team

EP (Navajo - Artesia)

Rush? Lab MUST be notified

Quote #

Shipment # 2

Sample ID	Comp/Grab	Matrix	Depth	Date	Time		VOC	DRO	GRO	Total/Dissolved Short List Metals	Chlorides (from "total metals" bottle)	Anions, NO2/NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	
MW-15	Grab	GW				10	X	X	X	X	X	X					
OCD-1R	Grab	GW				10	X	X	X	X	X	X					
OCD-2A	Grab	GW				10	X	X	X	X	X	X					
OCD-3	Grab	GW				10	X	X	X	X	X	X					
OCD-4	Grab	GW				10	X	X	X	X	X	X					
MW-11A	Grab	GW				10	X	X	X	X	X	X					
MW-11B	Grab	GW				10	X	X	X	X	X	X					
OCD-5	Grab	GW				10	X	X	X	X	X	X					
MW-87	Grab	GW		4/13/21	1000	10	X	X	X	X	X	X					-22
MW-16A	Grab	GW		4/13/21	1045	9	X	X			X	X	X	X			-23

Remarks:
Dissolved metals field-filtered.

pH _____ Temp _____
Flow _____ Other _____

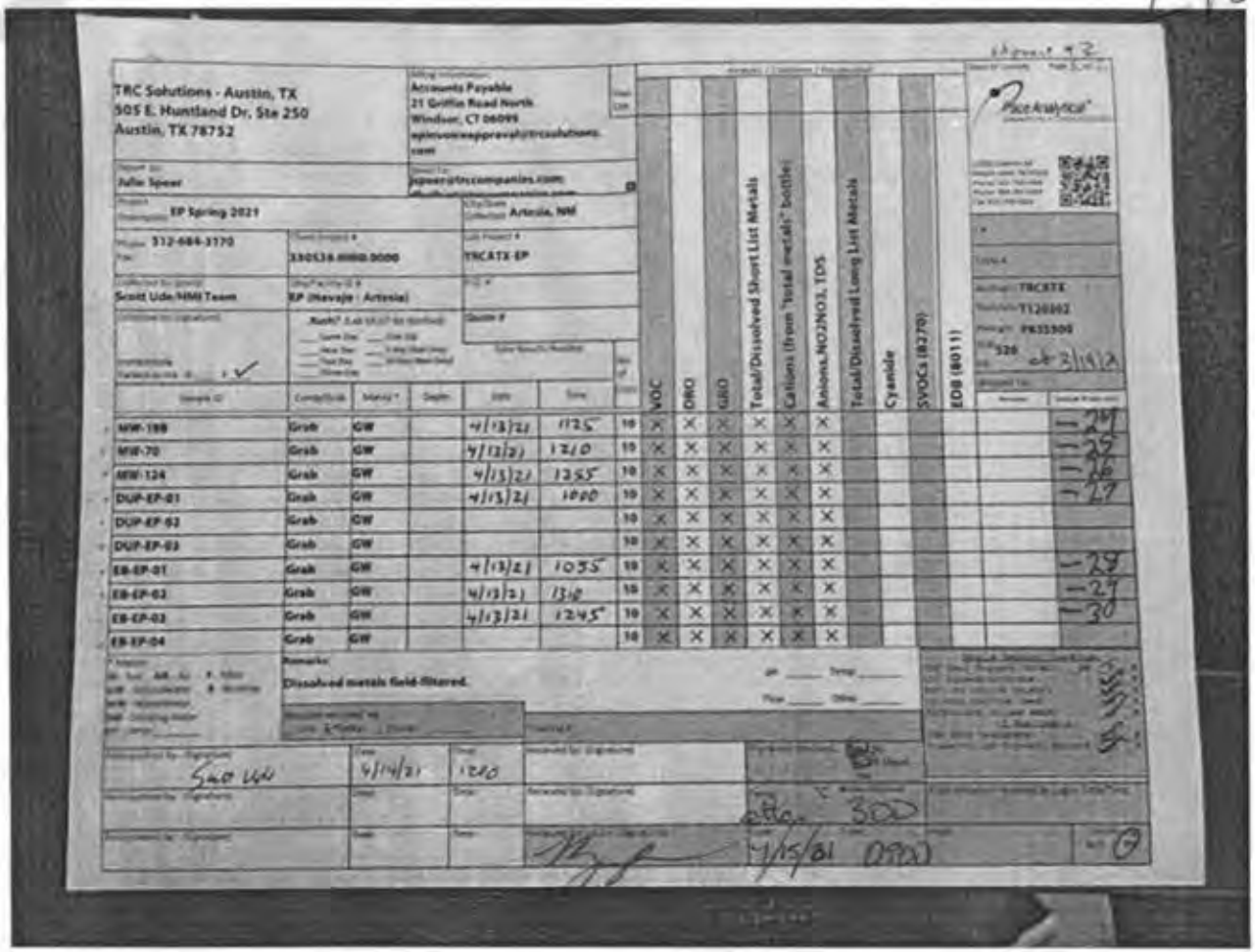
TRCATX
T1320502
P025300
$26

Sam Ude — 4/14/21 — 1200

Received by: (Signature) — Date: 4/15/21 — Time: 0700

Released to Imaging: 2/7/2025 11:08:22 AM

1B39352



TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Accounts Payable
21 Griffin Road North
Windsor, CT 06095

Julie Spear

EP Spring 2021

Artesia, NM

512-684-3170

330136.0000.0000

TRCATX-EP

Scott Ude/HMI Team

EP (Navajo - Artesia)

Sample ID	Container(s)	Matrix	Depth	Date	Time		VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions,NO2/NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	
MW-188	Grab	GW		4/13/21	1125	10	X	X	X	X	X	X					-27
MW-70	Grab	GW		4/13/21	1210	10	X	X	X	X	X	X					-25
MW-124	Grab	GW		4/13/21	1355	10	X	X	X	X	X	X					-26
DUP-EP-01	Grab	GW		4/13/21	1000	10	X	X	X	X	X	X					-27
DUP-EP-02	Grab	GW				10	X	X	X	X	X	X					
DUP-EP-03	Grab	GW				10	X	X	X	X	X	X					
EB-EP-01	Grab	GW		4/13/21	1055	10	X	X	X	X	X	X					-29
EB-EP-02	Grab	GW		4/13/21	1310	10	X	X	X	X	X	X					-27
EB-EP-03	Grab	GW		4/13/21	1245	10	X	X	X	X	X	X					-30
EB-EP-04	Grab	GW				10	X	X	X	X	X	X					

Remarks:
Dissolved metals field-filtered.

Pace Analytical

TRCATX
T120002
PM33500
520
4/13/21

Sam Ude — 4/14/21 — 1210

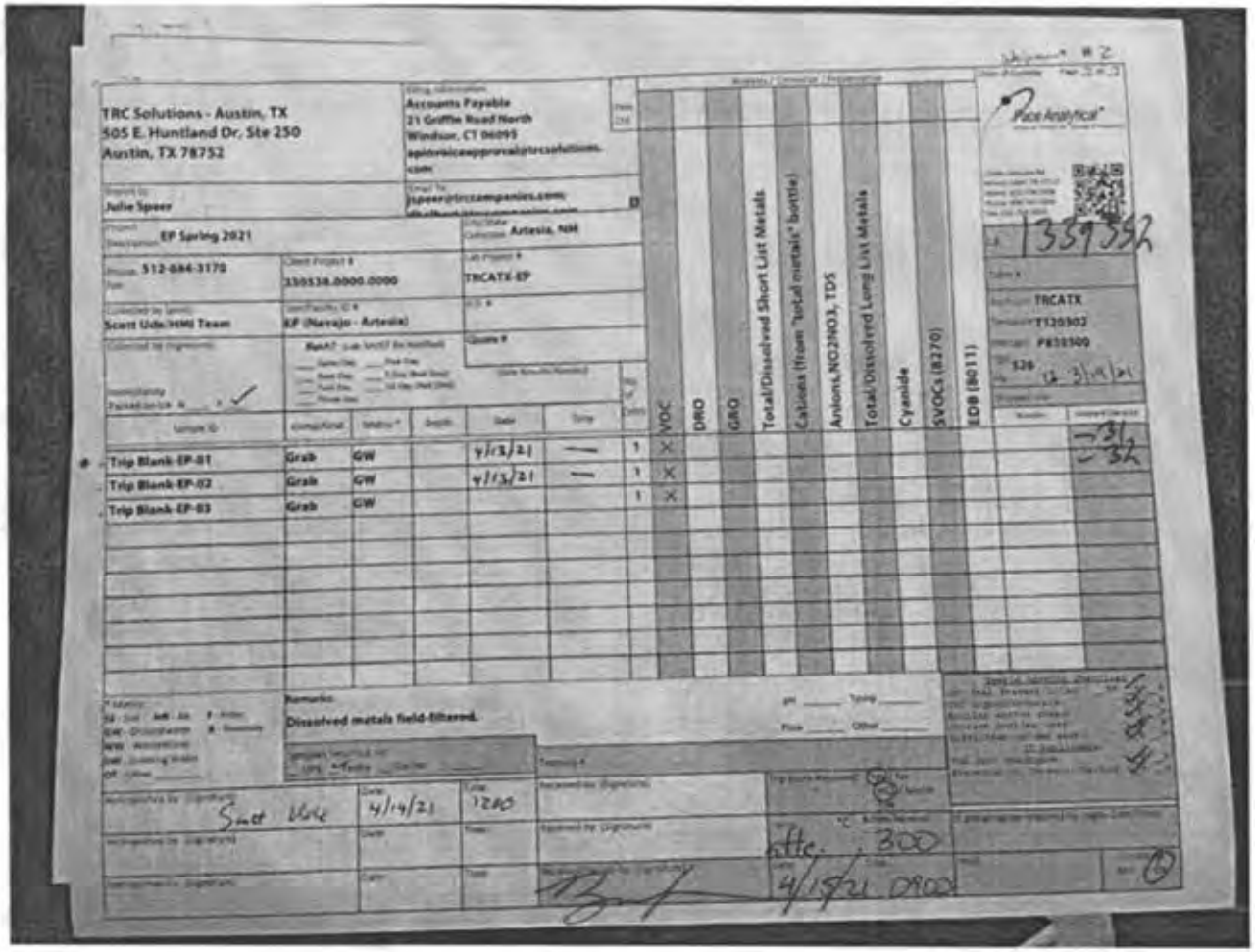
4/15/21 0900

Thanks,

Scott C. Ude, P.G.

Hydrologic Monitoring
1654 W. Sam Houston Pkwy N.
Houston, TX 77043

Direct 713.714.1624
Cell 832.347.4521
Email ude@HMIgroundwater.com



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Austin, TX 78752

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Julie Speer
jspeer@trcsolutions.com

EP Spring 2021
Artesia, NM
512-684-3170
350538.0000.0000
TRCATX-EP
Scott Ude/HMI Team
EP (Navajo - Artesia)

Pace Analytical

1359592

TRCATX
T120302
PB10300
520
4/14/21

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	# of cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)
Trip Blank-EP-01	Grab	GW		4/13/21	—	1	X									
Trip Blank-EP-02	Grab	GW		4/13/21	—	1	X									
Trip Blank-EP-03	Grab	GW				1	X									

-31
-32

Remarks:
Dissolved metals field-filtered.

pH _____ Temp _____
Flow _____ Other _____

Scott Ude 4/14/21 1200

Rec'd 4/14/21 0900

2

Pages 21-26

Page 286 of 1716

L1339352

FedEx Tracking #:	Corresponding Temp:
9517 5771 3003	1.8 + .3 = 2.1 A2 OT
5770 9283	2.5 + .3 = 2.1 A2 OT
5771 3172	2.6 ± 0 = 2.6 A7 KH
2990	1.9 ± 0 = 1.9
5016 1220 5832	2.1 ± 0 = 2.1
9517 5771 3183	1.8 + .3 = 2.1 A2 OT
5770 9261	2.1 ± 0 = 2.1 A7 KH
5016 1217 2080	1.1 + .3 = 1.4 A2 OT
1220 5843	1.8 + .3 = 2.1
9517 5770 9309	2.1 ± 0 = 2.1 A7 KH
5016 1220 5854	1.1 + .3 = 1.4 A2 OT
9517 5770 9272	0.5 ± 0 = 0.5 A7 KH
5771 3117	1.8 ± 0 = 1.8
5016 1217 2090	0.3 + .3 = 0.6 A2 OT
7159 8784 8000	1.5 ± 0 = 1.5 A7 KH

Received by OCD: 1/9/2025 2:41:44 PM

Released to Imaging: 2/7/2025 11:08:22 AM

TRC Solutions - Austin, TX **505 E. Huntland Dr, Ste 250** **Austin, TX 78752**	Billing Information: **Accounts Payable** **21 Griffin Road North** **Windsor, CT 06095** **apinvoiceapproval@trcsolutions.com**
Report to: **Julie Speer**	Email To: **jspeer@trccompanies.com;** **dhelbert@trccompanies.com**
Project Description: **EP Spring 2021**	City/State Collected: **Artesia, NM**
Phone: **512-684-3170** Fax:	Client Project # **330538.0000.0000**
Lab Project # **TRCATX-EP**	
Collected by (print): **Scott Ude/HMI Team**	Site/Facility ID # **EP (Navajo - Artesia)**
P.O. #	
Collected by (signature): Immediately Packed on Ice N ___ Y ✓	*Rush?* (Lab MUST Be Notified) ___ Same Day ___ Five Day ___ Next Day ___ 5 Day (Rad Only) ___ Two Day ___ 10 Day (Rad Only) ___ Three Day
Quote #	Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page 1 of 7

Pace Analytical® National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L #

Table #

Acctnum: **TRCATX**

Template: **T120302**

Prelogin: **P835500**

TSR: **526**

PB: CS 3/19/21

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions,NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Remarks	Sample # (lab only)
MW-6A	Grab	GW		4/13/21	910	10	X	X	X	X	X	X						
MW-6B	Grab	GW		4/13/21	955	10	X	X	X	X	X	X						
~~MW-85~~ LNAPL	Grab	GW				~~10~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~						
~~MW-86~~ LNAPL	Grab	GW				~~11~~	~~X~~	~~X~~	~~X~~		~~X~~	~~X~~	~~X~~	~~X~~				
MW-120	Grab	GW				10	X	X	X	X	X	X						
MW-121	Grab	GW				10	X	X	X	X	X	X						
MW-84	Grab	GW				10	X	X	X	X	X	X						
MW-122	Grab	GW		4/13/21	1630	10	X	X	X	X	X	X						
MW-81	Grab	GW				10	X	X	X	X	X	X						
MW-80	Grab	GW				10	X	X	X	X	X	X						

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:
Dissolved metals field-filtered.

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	
Scott Ude	4/14/21	1200			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4.2 °C Bottles Received: 8,2h,3ZAS	If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4/15/21 Time: 0900	Hold: / Condition: NCF / OK

Shipping

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Pres Chk

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com; dholbert@trccompanies.com**

Project Description: **EP Spring 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **330538.0000.0000**

Lab Project # **TRCATX-EP**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **EP (Navajo - Artesia)**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page 2 of 7

Pace Analytical®
National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L#

Table #

Acctnum: **TRCATX**
Template: **T120302**
Prelogin: **P835500**
TSR: **526**
PB: **CA 3/19/21**

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions,NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Remarks	Sample # (lab only)
MW-79	Grab	GW				10	X	X	X	X	X	X						
MW-82	Grab	GW				10	X	X	X	X	X	X						
MW-74	Grab	GW		4/13/21	1040	10	X	X	X	X	X	X						
MW-73	Grab	GW		4/13/21	1130	10	X	X	X	X	X	X						
MW-2A	Grab	GW		4/13/21	1530	10	X	X	X	X	X	X						
MW-72	Grab	GW		4/13/21	1445	10	X	X	X	X	X	X						
OCD-6	Grab	GW		4/13/21	1400	10	X	X	X	X	X	X						
OCD-7AR	Grab	GW		4/13/21	1220	10	X	X	X	X	X	X						
OCD-7B	Grab	GW		4/13/21	1310	10	X	X	X	X	X	X						
MW-76	Grab	GW				10	X	X	X	X	X	X						

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:
Dissolved metals field-filtered.

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP ✓Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
Scott Ude	4/14/21	1200			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4.2 °C Bottles Received: 2h500.5	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4/15/21 Time: 0900	Hold: Condition: NCF / OK

Shipped

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Pres Chk

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com; dholbert@trccompanies.com**

Project Description: **EP Spring 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **330538.0000.0000**

Lab Project # **TRCATX-EP**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **EP (Navajo - Artesia)**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

Quote #

Analysis / Container / Preservative

Chain of Custody Page 3 of 7

Pace Analytical*
National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L #

Table #

Acctnum: **TRCATX**
Template: **T120302**
Prelogin: **P835500**
TSR: **526**
PB: CK 3/19/21

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions,NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Remarks	Sample # (lab only)
MW-77	Grab	GW				10	X	X	X	X	X	X						
MW-78	Grab	GW				10	X	X	X	X	X	X						
MW-75	Grab	GW				10	X	X	X	X	X	X						
MW-83	Grab	GW				10	X	X	X	X	X	X						
MW-3	Grab	GW				10	X	X	X	X	X	X						
MW-88	Grab	GW		4/13/21	1610	10	X	X	X	X	X	X						
MW-22A	Grab	GW				10	X	X	X	X	X	X						
MW-22B	Grab	GW				10	X	X	X	X	X	X						
MW-10	Grab	GW		4/13/21	1720	10	X	X	X	X	X	X						
MW-123	Grab	GW				10	X	X	X	X	X	X						

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:
Dissolved metals field-filtered.

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	
Scott Ude	4/14/21	1200			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp 2.2 °C Bottles Received: 0.2+3005	If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4/15/21 Time: 0900	Hold: / Condition: NCF / OK

Ship

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Pres Chk

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com; dhelbert@trccompanies.com**

Project Description: **EP Spring 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **330538.0000.0000**

Lab Project # **TRCATX-EP**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **EP (Navajo - Artesia)**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

Quote #

Analysis / Container / Preservative

Chain of Custody Page 4 of 7

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L #

Table #

Acctnum: **TRCATX**
Template: **T120302**
Prelogin: **P835500**
TSR: **526**
PB: 4/3/21

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions,NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Remarks	Sample # (lab only)
MW-4A	Grab	GW		4/13/21	1455	10	X	X	X	X	X	X						
MW-4B	Grab	GW		4/13/21	1540	10	X	X	X	X	X	X						
MW-5A	Grab	GW		4/13/21	1225	10	X	X	X	X	X	X						
MW-5B	Grab	GW		4/13/21	1320	10	X	X	X	X	X	X						
MW-5C	Grab	GW		4/13/21	1405	10	X	X	X	X	X	X						
MW-7A	Grab	GW		4/13/21	1115	10	X	X	X	X	X	X						
MW-7B	Grab	GW		4/13/21	1030	10	X	X	X	X	X	X						
OCD-8A	Grab	GW		4/13/21	945	11	X	X	X		X	X	X	X				
OCD-8B	Grab	GW		4/13/21	855	10	X	X	X	X	X	X						
MW-1R	Grab	GW				8	X	X		X	X	X						

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:
Dissolved metals field-filtered.

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
Scott Ude	4/14/21	1200			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4.2°C Bottles Received: 02+3505	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4/15/21 Time: 0900	Hold: / Condition: NCF / OK

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Pres Chk

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com; dholbert@trccompanies.com**

Project Description: **EP Spring 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **330538.0000.0000**

Lab Project # **TRCATX-EP**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **EP (Navajo - Artesia)**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions,NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Remarks	Sample # (lab only)
MW-15	Grab	GW				10	X	X	X	X	X	X						
OCD-1R	Grab	GW				10	X	X	X	X	X	X						
OCD-2A	Grab	GW				10	X	X	X	X	X	X						
OCD-3	Grab	GW				10	X	X	X	X	X	X						
OCD-4	Grab	GW				10	X	X	X	X	X	X						
MW-11A	Grab	GW				10	X	X	X	X	X	X						
MW-11B	Grab	GW				10	X	X	X	X	X	X						
OCD-5	Grab	GW				10	X	X	X	X	X	X						
MW-87	Grab	GW		4/13/21	1000	10	X	X	X	X	X	X						
MW-18A	Grab	GW		4/13/21	1045	9	X	X			X	X	X	X				

Chain of Custody Page 5 of 7

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L#

Table #

Acctnum: **TRCATX**
Template: **T120302**
Prelogin: **P835500**
TSR: **526**
PB: CS 3/19/21

Shipped Via:

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:
Dissolved metals field-filtered.

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Scott Ude	4/14/21	1200		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 1.3 °C Bottles Received: 0,2+,3205
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4/15/21 Time: 0900

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Pres Chk

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com; dhelbert@trccompanies.com**

Project Description: **EP Spring 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **330538.0000.0000**

Lab Project # **TRCATX-EP**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **EP (Navajo - Artesia)**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

Quote #

Analysis / Container / Preservative

Chain of Custody Page 6 of 7

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Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L #

Table #

Acctnum: **TRCATX**
Template: **T120302**
Prelogin: **P835500**
TSR: **526**
PB: **ds 3/19/21**

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions,NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Remarks	Sample # (lab only)
MW-18B	Grab	GW		4/13/21	1125	10	X	X	X	X	X	X						
MW-70	Grab	GW		4/13/21	1210	10	X	X	X	X	X	X						
MW-124	Grab	GW		4/13/21	1255	10	X	X	X	X	X	X						
DUP-EP-01	Grab	GW		4/13/21	1000	10	X	X	X	X	X	X						
DUP-EP-02	Grab	GW				10	X	X	X	X	X	X						
DUP-EP-03	Grab	GW				10	X	X	X	X	X	X						
EB-EP-01	Grab	GW		4/13/21	1055	10	X	X	X	X	X	X						
EB-EP-02	Grab	GW		4/13/21	1310	10	X	X	X	X	X	X						
EB-EP-03	Grab	GW		4/13/21	1245	10	X	X	X	X	X	X						
EB-EP-04	Grab	GW				10	X	X	X	X	X	X						

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:
Dissolved metals field-filtered.

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP ✓Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Scott Ude	4/14/21	1200		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4.3 °C Bottles Received: 0.2+3=0.5
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4/15/21 Time: 0900

If preservation required by Login: Date/Time

Hold: Condition: NCF / OK

Shipment

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Email To: **jspeer@trccompanies.com; dholbert@trccompanies.com**

Project Description: **EP Spring 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **330538.0000.0000**

Lab Project # **TRCATX-EP**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **EP (Navajo - Artesia)**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

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Analysis / Container / Preservative

Chain of Custody Page 7 of 7

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Phone: 800-767-5859
Fax: 615-758-5859

L #

Table #

Acctnum: **TRCATX**
Template: **T120302**
Prelogin: **P835500**
TSR: **526**
PB: **4/19/21**

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions,NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Remarks	Sample # (lab only)
Trip Blank-EP-01	Grab	GW		4/13/21	—	1	X											
Trip Blank-EP-02	Grab	GW		4/13/21	—	1	X											
Trip Blank-EP-03	Grab	GW				1	X											

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:
Dissolved metals field-filtered.

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP __Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Scott Ude	4/14/21	1200		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp 0.3 °C Bottles Received: 0,2+3=0.5
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4/15/21 Time: 0900

If preservation required by Login: Date/Time

Hold: Condition: NCF / OK

ANALYTICAL REPORT

May 03, 2021

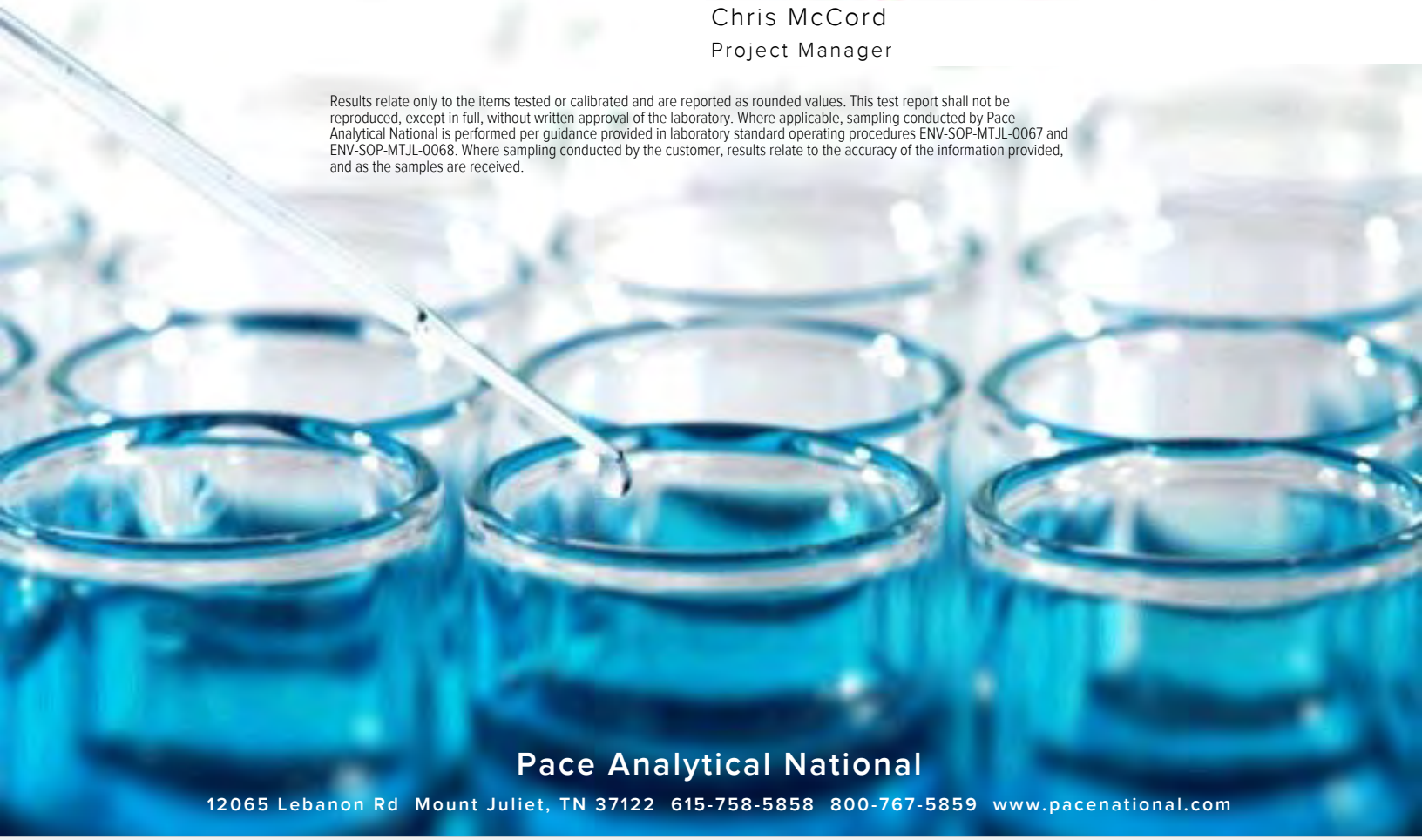
TRC Solutions - Austin, TX

Sample Delivery Group:	L1339378
Samples Received:	04/15/2021
Project Number:	425135.0000.0000
Description:	NCL Spring 2021
Site:	NCL (NAVAJO-ARTESIA)
Report To:	Julie Speer
	505 E. Huntland Dr, Ste 250
	Austin, TX 78752

Entire Report Reviewed By:

Chris McCord
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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MW-55 L1339378-01 GW

Collected by: SU / HMI Team
Collected date/time: 04/13/21 13:00
Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1653096	1	04/16/21 11:18	04/16/21 18:49	VRP	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1653586	1	04/18/21 02:26	04/18/21 02:26	SDL	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG1656330	1	04/21/21 19:27	04/23/21 16:26	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656210	1	04/21/21 23:27	04/21/21 23:27	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656210	50	04/21/21 23:45	04/21/21 23:45	ELN	Mt. Juliet, TN
Mercury by Method 7470A	WG1652886	1	04/16/21 10:00	04/18/21 13:57	BMF	Mt. Juliet, TN
Mercury by Method 7470A	WG1652891	1	04/19/21 16:40	04/20/21 11:54	BMF	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1656496	1	04/22/21 12:56	04/22/21 17:08	KMG	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1656874	1	04/26/21 06:53	04/26/21 12:00	EL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1655933	1	04/25/21 13:04	04/26/21 01:23	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656883	1	04/25/21 13:09	04/26/21 21:53	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1655063	1	04/20/21 16:07	04/20/21 16:07	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653772	10	04/18/21 21:11	04/18/21 21:11	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1655290	1	04/22/21 14:55	04/26/21 05:19	JN	Mt. Juliet, TN

NCL-33 L1339378-02 GW

Collected by: SU / HMI Team
Collected date/time: 04/13/21 11:30
Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1653107	1	04/16/21 11:27	04/16/21 17:10	CAT	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1653586	1	04/18/21 02:27	04/18/21 02:27	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656210	1	04/22/21 00:03	04/22/21 00:03	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656210	100	04/22/21 00:21	04/22/21 00:21	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1655933	1	04/25/21 13:04	04/26/21 01:26	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656883	1	04/25/21 13:09	04/26/21 21:56	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653772	1	04/18/21 17:26	04/18/21 17:26	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1655290	5	04/22/21 14:55	04/26/21 07:00	JN	Mt. Juliet, TN

NCL-44 L1339378-03 GW

Collected by: SU / HMI Team
Collected date/time: 04/13/21 10:50
Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1653096	1	04/16/21 11:18	04/16/21 18:49	VRP	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1653586	1	04/18/21 02:30	04/18/21 02:30	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656210	1	04/22/21 00:39	04/22/21 00:39	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656210	50	04/22/21 01:19	04/22/21 01:19	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1655933	1	04/25/21 13:04	04/26/21 01:30	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656883	1	04/25/21 13:09	04/26/21 21:59	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653772	1	04/18/21 17:47	04/18/21 17:47	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1655290	1	04/22/21 14:55	04/26/21 05:39	JN	Mt. Juliet, TN

NCL-32 L1339378-04 GW

Collected by: SU / HMI Team
Collected date/time: 04/13/21 09:55
Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1653096	1	04/16/21 11:18	04/16/21 18:49	VRP	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1653586	5	04/18/21 02:52	04/18/21 02:52	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656210	1	04/22/21 02:13	04/22/21 02:13	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656210	50	04/22/21 02:31	04/22/21 02:31	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1655933	1	04/25/21 13:04	04/26/21 01:33	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656883	1	04/25/21 13:09	04/26/21 22:03	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653772	1	04/18/21 18:07	04/18/21 18:07	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1655290	1	04/22/21 14:55	04/26/21 05:59	JN	Mt. Juliet, TN

MW-108 L1339378-05 GW

Collected by: SU / HMI Team
Collected date/time: 04/13/21 15:00
Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1653096	1	04/16/21 11:18	04/16/21 18:49	VRP	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1653586	1	04/18/21 02:54	04/18/21 02:54	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656210	1	04/22/21 02:48	04/22/21 02:48	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656210	10	04/22/21 03:24	04/22/21 03:24	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1655933	1	04/25/21 13:04	04/26/21 01:36	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656883	1	04/25/21 13:09	04/26/21 22:06	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653772	5	04/18/21 21:31	04/18/21 21:31	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656083	1	04/22/21 06:40	04/22/21 12:15	WCR	Mt. Juliet, TN

NCL-31 L1339378-06 GW

Collected by: SU / HMI Team
Collected date/time: 04/13/21 12:25
Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1653096	1	04/16/21 11:18	04/16/21 18:49	VRP	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1653586	1	04/18/21 02:39	04/18/21 02:39	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656210	1	04/22/21 04:00	04/22/21 04:00	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656210	50	04/22/21 04:18	04/22/21 04:18	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1655933	1	04/25/21 13:04	04/26/21 01:39	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656883	1	04/25/21 13:09	04/26/21 22:22	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653772	1	04/18/21 18:28	04/18/21 18:28	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656083	1	04/22/21 06:40	04/22/21 12:41	WCR	Mt. Juliet, TN

MW-18 L1339378-07 GW

Collected by: SU / HMI Team
Collected date/time: 04/13/21 13:05
Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1653096	1	04/16/21 11:18	04/16/21 18:49	VRP	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1653586	5	04/18/21 03:02	04/18/21 03:02	SDL	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG1656330	1	04/21/21 19:27	04/23/21 16:27	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656210	1	04/22/21 04:36	04/22/21 04:36	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656210	50	04/22/21 04:54	04/22/21 04:54	ELN	Mt. Juliet, TN
Mercury by Method 7470A	WG1652886	1	04/16/21 10:00	04/18/21 13:59	BMF	Mt. Juliet, TN
Mercury by Method 7470A	WG1652891	1	04/19/21 16:40	04/20/21 11:56	BMF	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1656496	1	04/22/21 12:56	04/22/21 17:11	KMG	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1656874	1	04/26/21 06:53	04/26/21 12:03	EL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1655933	1	04/25/21 13:04	04/26/21 01:52	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656883	1	04/25/21 13:09	04/26/21 22:25	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653772	1	04/18/21 18:48	04/18/21 18:48	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656083	1	04/22/21 06:40	04/22/21 17:38	DMG	Mt. Juliet, TN

MW-54A L1339378-08 GW

Collected by: SU / HMI Team
Collected date/time: 04/13/21 15:25
Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1653107	1	04/16/21 11:27	04/16/21 17:10	CAT	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1653586	1	04/18/21 03:03	04/18/21 03:03	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656210	1	04/22/21 05:47	04/22/21 05:47	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656210	20	04/22/21 06:05	04/22/21 06:05	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1655933	1	04/25/21 13:04	04/26/21 01:56	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656883	1	04/25/21 13:09	04/26/21 22:28	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653772	1	04/18/21 19:08	04/18/21 19:08	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656083	1	04/22/21 06:40	04/22/21 18:03	DMG	Mt. Juliet, TN

MW-54B L1339378-09 GW

Collected by: SU / HMI Team
Collected date/time: 04/13/21 16:15
Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1653107	1	04/16/21 11:27	04/16/21 17:10	CAT	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1653586	1	04/18/21 02:43	04/18/21 02:43	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656210	1	04/22/21 06:23	04/22/21 06:23	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656210	20	04/22/21 06:59	04/22/21 06:59	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1655933	1	04/25/21 13:04	04/26/21 01:59	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656883	1	04/25/21 13:09	04/26/21 22:32	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1655063	1	04/20/21 16:28	04/20/21 16:28	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653772	1	04/18/21 19:29	04/18/21 19:29	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656083	1	04/22/21 06:40	04/22/21 18:29	DMG	Mt. Juliet, TN

NCL-49 L1339378-10 GW

Collected by: SU / HMI Team
Collected date/time: 04/13/21 14:00
Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1653107	1	04/16/21 11:27	04/16/21 17:10	CAT	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1653586	5	04/18/21 02:44	04/18/21 02:44	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656210	1	04/22/21 07:17	04/22/21 07:17	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656210	100	04/22/21 07:35	04/22/21 07:35	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1655933	1	04/25/21 13:04	04/26/21 02:02	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656883	1	04/25/21 13:09	04/26/21 22:35	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653772	1	04/18/21 19:49	04/18/21 19:49	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656083	1	04/22/21 06:40	04/23/21 15:48	JN	Mt. Juliet, TN

MW-53R L1339378-11 GW

Collected by: SU / HMI Team
Collected date/time: 04/13/21 14:50
Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1653107	1	04/16/21 11:27	04/16/21 17:10	CAT	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1653586	1	04/18/21 02:45	04/18/21 02:45	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656212	1	04/22/21 01:44	04/22/21 01:44	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656212	50	04/22/21 02:00	04/22/21 02:00	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1655933	1	04/25/21 13:04	04/26/21 02:05	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656883	1	04/25/21 13:09	04/26/21 22:38	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653772	1	04/18/21 20:09	04/18/21 20:09	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656083	1	04/22/21 06:40	04/23/21 16:14	JN	Mt. Juliet, TN

DUP-NCL-01 L1339378-12 GW

Collected by: SU / HMI Team
Collected date/time: 04/13/21 11:00
Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1653107	1	04/16/21 11:27	04/16/21 17:10	CAT	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1653586	5	04/18/21 02:47	04/18/21 02:47	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656212	1	04/22/21 02:16	04/22/21 02:16	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656212	100	04/22/21 02:32	04/22/21 02:32	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1655933	1	04/25/21 13:04	04/26/21 02:09	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656883	1	04/25/21 13:09	04/26/21 19:53	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653772	1	04/18/21 20:30	04/18/21 20:30	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656083	1	04/22/21 06:40	04/22/21 19:46	DMG	Mt. Juliet, TN

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

EB-NCL-01 L1339378-13 GW

Collected by: SU / HMI Team
Collected date/time: 04/13/21 10:10
Received date/time: 04/15/21 09:00

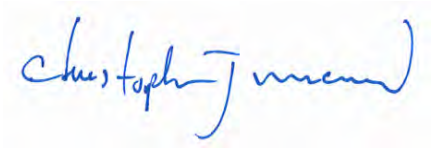
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1653096	1	04/16/21 11:18	04/16/21 18:49	VRP	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1653586	1	04/18/21 02:56	04/18/21 02:56	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656212	1	04/22/21 02:48	04/22/21 02:48	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656885	1	04/26/21 00:29	04/26/21 08:55	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1660980	1	04/30/21 20:01	05/01/21 15:58	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653772	1	04/18/21 16:05	04/18/21 16:05	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656083	1	04/22/21 06:40	04/22/21 20:12	DMG	Mt. Juliet, TN

TRIP BLANK-NCL-01 L1339378-14 GW

Collected by: SU / HMI Team
Collected date/time: 04/13/21 00:00
Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653772	1	04/18/21 16:25	04/18/21 16:25	ADM	Mt. Juliet, TN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Chris McCord
Project Manager

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	2130		50.0	1	04/16/2021 18:49	WG1653096

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.0762	J	0.0500	0.100	1	04/18/2021 02:26	WG1653586

Wet Chemistry by Method 4500CN E-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Cyanide	U		0.00180	0.00500	1	04/23/2021 16:26	WG1656330

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	463		19.0	50.0	50	04/21/2021 23:45	WG1656210
Fluoride	1.62		0.0640	0.150	1	04/21/2021 23:27	WG1656210
Sulfate	781		29.7	250	50	04/21/2021 23:45	WG1656210

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.000100	0.000200	1	04/18/2021 13:57	WG1652886
Mercury,Dissolved	U		0.000100	0.000200	1	04/20/2021 11:54	WG1652891

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Boron	0.631		0.0200	0.200	1	04/26/2021 12:00	WG1656874
Boron,Dissolved	0.644		0.0200	0.200	1	04/22/2021 17:08	WG1656496

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00683		0.000180	0.00200	1	04/26/2021 21:53	WG1656883
Arsenic,Dissolved	0.00628		0.000180	0.00200	1	04/26/2021 01:23	WG1655933
Barium	0.0157	J	0.000381	0.0200	1	04/26/2021 21:53	WG1656883
Barium,Dissolved	0.0140	J	0.000381	0.0200	1	04/26/2021 01:23	WG1655933
Cadmium	U		0.000150	0.00100	1	04/26/2021 21:53	WG1656883
Cadmium,Dissolved	U		0.000150	0.00100	1	04/26/2021 01:23	WG1655933
Calcium	293		0.0936	1.00	1	04/26/2021 21:53	WG1656883
Chromium	U		0.00124	0.00200	1	04/26/2021 21:53	WG1656883
Chromium,Dissolved	U		0.00124	0.00200	1	04/26/2021 01:23	WG1655933
Cobalt	0.000304	J	0.0000596	0.00200	1	04/26/2021 21:53	WG1656883
Cobalt,Dissolved	0.000223	J	0.0000596	0.00200	1	04/26/2021 01:23	WG1655933
Iron	U		0.0281	0.100	1	04/26/2021 21:53	WG1656883
Iron,Dissolved	U		0.0281	0.100	1	04/26/2021 01:23	WG1655933
Lead	0.00103	J	0.000849	0.00200	1	04/26/2021 21:53	WG1656883
Lead,Dissolved	0.00144	J	0.000849	0.00200	1	04/26/2021 01:23	WG1655933
Manganese	0.185		0.000704	0.00500	1	04/26/2021 21:53	WG1656883
Manganese,Dissolved	0.171		0.000704	0.00500	1	04/26/2021 01:23	WG1655933
Nickel	0.00602		0.000816	0.00200	1	04/26/2021 21:53	WG1656883
Nickel,Dissolved	0.00638		0.000816	0.00200	1	04/26/2021 01:23	WG1655933

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Potassium	0.683	J	0.108	2.00	1	04/26/2021 21:53	WG1656883
Selenium	0.000784	J	0.000300	0.00200	1	04/26/2021 21:53	WG1656883
Selenium,Dissolved	0.000882	J	0.000300	0.00200	1	04/26/2021 01:23	WG1655933
Sodium	244		0.376	2.00	1	04/26/2021 21:53	WG1656883
Uranium	0.0314		0.0000700	0.0200	1	04/26/2021 21:53	WG1656883
Uranium,Dissolved	0.0292		0.0000700	0.0200	1	04/26/2021 01:23	WG1655933
Vanadium	0.0185		0.000664	0.00500	1	04/26/2021 21:53	WG1656883
Vanadium,Dissolved	0.0191		0.000664	0.00500	1	04/26/2021 01:23	WG1655933

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.412		0.0314	0.100	1	04/20/2021 16:07	WG1655063
(S) a,a,a-Trifluorotoluene(FID)	*101*			*78.0-120*		*04/20/2021 16:07*	WG1655063

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.113	0.500	10	04/18/2021 21:11	WG1653772
Benzene	U		0.000941	0.0100	10	04/18/2021 21:11	WG1653772
Bromodichloromethane	U		0.00136	0.0100	10	04/18/2021 21:11	WG1653772
Bromoform	U		0.00129	0.0100	10	04/18/2021 21:11	WG1653772
Bromomethane	U		0.00605	0.0500	10	04/18/2021 21:11	WG1653772
n-Butylbenzene	U		0.00157	0.0100	10	04/18/2021 21:11	WG1653772
sec-Butylbenzene	0.00158	J	0.00125	0.0100	10	04/18/2021 21:11	WG1653772
Carbon disulfide	U		0.000962	0.0100	10	04/18/2021 21:11	WG1653772
Carbon tetrachloride	U		0.00128	0.0100	10	04/18/2021 21:11	WG1653772
Chlorobenzene	U		0.00116	0.0100	10	04/18/2021 21:11	WG1653772
Chlorodibromomethane	U		0.00140	0.0100	10	04/18/2021 21:11	WG1653772
Chloroethane	U		0.00192	0.0500	10	04/18/2021 21:11	WG1653772
Chloroform	U		0.00111	0.0500	10	04/18/2021 21:11	WG1653772
Chloromethane	U	J4	0.00960	0.0250	10	04/18/2021 21:11	WG1653772
1,2-Dibromoethane	U		0.00126	0.0100	10	04/18/2021 21:11	WG1653772
1,1-Dichloroethane	U		0.00100	0.0100	10	04/18/2021 21:11	WG1653772
1,2-Dichloroethane	U		0.000819	0.0100	10	04/18/2021 21:11	WG1653772
1,1-Dichloroethene	U		0.00188	0.0100	10	04/18/2021 21:11	WG1653772
cis-1,2-Dichloroethene	U		0.00126	0.0100	10	04/18/2021 21:11	WG1653772
trans-1,2-Dichloroethene	U		0.00149	0.0100	10	04/18/2021 21:11	WG1653772
1,2-Dichloropropane	U		0.00149	0.0100	10	04/18/2021 21:11	WG1653772
cis-1,3-Dichloropropene	U		0.00111	0.0100	10	04/18/2021 21:11	WG1653772
trans-1,3-Dichloropropene	U		0.00118	0.0100	10	04/18/2021 21:11	WG1653772
Ethylbenzene	U		0.00137	0.0100	10	04/18/2021 21:11	WG1653772
Isopropylbenzene	U		0.00105	0.0100	10	04/18/2021 21:11	WG1653772
p-Isopropyltoluene	U		0.00120	0.0100	10	04/18/2021 21:11	WG1653772
2-Butanone (MEK)	U		0.0119	0.100	10	04/18/2021 21:11	WG1653772
2-Hexanone	U		0.00787	0.100	10	04/18/2021 21:11	WG1653772
Methylene Chloride	U		0.00430	0.0500	10	04/18/2021 21:11	WG1653772
4-Methyl-2-pentanone (MIBK)	U		0.00478	0.100	10	04/18/2021 21:11	WG1653772
Methyl tert-butyl ether	0.449		0.00101	0.0100	10	04/18/2021 21:11	WG1653772
Naphthalene	U		0.0100	0.0500	10	04/18/2021 21:11	WG1653772
n-Propylbenzene	U		0.000993	0.0100	10	04/18/2021 21:11	WG1653772
Styrene	U		0.00118	0.0100	10	04/18/2021 21:11	WG1653772
1,1,1,2-Tetrachloroethane	U		0.00147	0.0100	10	04/18/2021 21:11	WG1653772
1,1,2,2-Tetrachloroethane	U		0.00133	0.0100	10	04/18/2021 21:11	WG1653772
Tetrachloroethene	U		0.00300	0.0100	10	04/18/2021 21:11	WG1653772

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Toluene	U		0.00278	0.0100	10	04/18/2021 21:11	WG1653772
1,1,1-Trichloroethane	U		0.00149	0.0100	10	04/18/2021 21:11	WG1653772
1,1,2-Trichloroethane	U		0.00158	0.0100	10	04/18/2021 21:11	WG1653772
Trichloroethene	U		0.00190	0.0100	10	04/18/2021 21:11	WG1653772
1,2,4-Trimethylbenzene	U		0.00322	0.0100	10	04/18/2021 21:11	WG1653772
1,3,5-Trimethylbenzene	U		0.00104	0.0100	10	04/18/2021 21:11	WG1653772
Vinyl chloride	U		0.00234	0.0100	10	04/18/2021 21:11	WG1653772
o-Xylene	U		0.00174	0.0100	10	04/18/2021 21:11	WG1653772
m&p-Xylene	U		0.00430	0.0200	10	04/18/2021 21:11	WG1653772
Xylenes, Total	U		0.00174	0.0300	10	04/18/2021 21:11	WG1653772
(S) Toluene-d8	*106*			*80.0-120*		*04/18/2021 21:11*	WG1653772
(S) 4-Bromofluorobenzene	*106*			*77.0-126*		*04/18/2021 21:11*	WG1653772
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*04/18/2021 21:11*	WG1653772

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	1.81		0.0247	0.100	1	04/26/2021 05:19	WG1655290
(S) o-Terphenyl	*103*			*31.0-160*		*04/26/2021 05:19*	WG1655290

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3420		50.0	1	04/16/2021 17:10	WG1653107

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.0825	J	0.0500	0.100	1	04/18/2021 02:27	WG1653586

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	790		37.9	100	100	04/22/2021 00:21	WG1656210
Fluoride	2.72		0.0640	0.150	1	04/22/2021 00:03	WG1656210
Sulfate	1330		59.4	500	100	04/22/2021 00:21	WG1656210

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00613		0.000180	0.00200	1	04/26/2021 21:56	WG1656883
Arsenic,Dissolved	0.00421		0.000180	0.00200	1	04/26/2021 01:26	WG1655933
Barium	0.0243		0.000381	0.0200	1	04/26/2021 21:56	WG1656883
Barium,Dissolved	0.0197	J	0.000381	0.0200	1	04/26/2021 01:26	WG1655933
Calcium	678		0.0936	1.00	1	04/26/2021 21:56	WG1656883
Chromium	U		0.00124	0.00200	1	04/26/2021 21:56	WG1656883
Chromium,Dissolved	U		0.00124	0.00200	1	04/26/2021 01:26	WG1655933
Iron	3.00		0.0281	0.100	1	04/26/2021 21:56	WG1656883
Iron,Dissolved	U		0.0281	0.100	1	04/26/2021 01:26	WG1655933
Lead	U		0.000849	0.00200	1	04/26/2021 21:56	WG1656883
Lead,Dissolved	U		0.000849	0.00200	1	04/26/2021 01:26	WG1655933
Manganese	0.191		0.000704	0.00500	1	04/26/2021 21:56	WG1656883
Manganese,Dissolved	0.177		0.000704	0.00500	1	04/26/2021 01:26	WG1655933
Potassium	4.74		0.108	2.00	1	04/26/2021 21:56	WG1656883
Selenium	0.00167	J	0.000300	0.00200	1	04/26/2021 21:56	WG1656883
Selenium,Dissolved	0.00143	J	0.000300	0.00200	1	04/26/2021 01:26	WG1655933
Sodium	273		0.376	2.00	1	04/26/2021 21:56	WG1656883

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/18/2021 17:26	WG1653772
Benzene	U		0.0000941	0.00100	1	04/18/2021 17:26	WG1653772
Bromodichloromethane	U		0.000136	0.00100	1	04/18/2021 17:26	WG1653772
Bromoform	U		0.000129	0.00100	1	04/18/2021 17:26	WG1653772
Bromomethane	U		0.000605	0.00500	1	04/18/2021 17:26	WG1653772
n-Butylbenzene	U		0.000157	0.00100	1	04/18/2021 17:26	WG1653772
sec-Butylbenzene	U		0.000125	0.00100	1	04/18/2021 17:26	WG1653772
Carbon disulfide	U		0.0000962	0.00100	1	04/18/2021 17:26	WG1653772
Carbon tetrachloride	U		0.000128	0.00100	1	04/18/2021 17:26	WG1653772
Chlorobenzene	U		0.000116	0.00100	1	04/18/2021 17:26	WG1653772
Chlorodibromomethane	U		0.000140	0.00100	1	04/18/2021 17:26	WG1653772
Chloroethane	U		0.000192	0.00500	1	04/18/2021 17:26	WG1653772
Chloroform	U		0.000111	0.00500	1	04/18/2021 17:26	WG1653772
Chloromethane	U	J4	0.000960	0.00250	1	04/18/2021 17:26	WG1653772
1,2-Dibromoethane	U		0.000126	0.00100	1	04/18/2021 17:26	WG1653772
1,1-Dichloroethane	U		0.000100	0.00100	1	04/18/2021 17:26	WG1653772

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/18/2021 17:26	WG1653772
1,1-Dichloroethene	U		0.000188	0.00100	1	04/18/2021 17:26	WG1653772
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/18/2021 17:26	WG1653772
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/18/2021 17:26	WG1653772
1,2-Dichloropropane	U		0.000149	0.00100	1	04/18/2021 17:26	WG1653772
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/18/2021 17:26	WG1653772
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/18/2021 17:26	WG1653772
Ethylbenzene	U		0.000137	0.00100	1	04/18/2021 17:26	WG1653772
Isopropylbenzene	U		0.000105	0.00100	1	04/18/2021 17:26	WG1653772
p-Isopropyltoluene	U		0.000120	0.00100	1	04/18/2021 17:26	WG1653772
2-Butanone (MEK)	U		0.00119	0.0100	1	04/18/2021 17:26	WG1653772
2-Hexanone	U		0.000787	0.0100	1	04/18/2021 17:26	WG1653772
Methylene Chloride	U		0.000430	0.00500	1	04/18/2021 17:26	WG1653772
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/18/2021 17:26	WG1653772
Methyl tert-butyl ether	0.000449	J	0.000101	0.00100	1	04/18/2021 17:26	WG1653772
Naphthalene	U		0.00100	0.00500	1	04/18/2021 17:26	WG1653772
n-Propylbenzene	U		0.0000993	0.00100	1	04/18/2021 17:26	WG1653772
Styrene	U		0.000118	0.00100	1	04/18/2021 17:26	WG1653772
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/18/2021 17:26	WG1653772
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/18/2021 17:26	WG1653772
Tetrachloroethene	U		0.000300	0.00100	1	04/18/2021 17:26	WG1653772
Toluene	U		0.000278	0.00100	1	04/18/2021 17:26	WG1653772
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/18/2021 17:26	WG1653772
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/18/2021 17:26	WG1653772
Trichloroethene	U		0.000190	0.00100	1	04/18/2021 17:26	WG1653772
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/18/2021 17:26	WG1653772
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/18/2021 17:26	WG1653772
Vinyl chloride	U		0.000234	0.00100	1	04/18/2021 17:26	WG1653772
o-Xylene	U		0.000174	0.00100	1	04/18/2021 17:26	WG1653772
m&p-Xylene	U		0.000430	0.00200	1	04/18/2021 17:26	WG1653772
Xylenes, Total	U		0.000174	0.00300	1	04/18/2021 17:26	WG1653772
(S) Toluene-d8	*105*			*80.0-120*		*04/18/2021 17:26*	WG1653772
(S) 4-Bromofluorobenzene	*106*			*77.0-126*		*04/18/2021 17:26*	WG1653772
(S) 1,2-Dichloroethane-d4	*100*			*70.0-130*		*04/18/2021 17:26*	WG1653772

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	17.3		0.123	0.500	5	04/26/2021 07:00	WG1655290
(S) o-Terphenyl	*127*			*31.0-160*		*04/26/2021 07:00*	WG1655290

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2180		50.0	1	04/16/2021 18:49	WG1653096

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.114		0.0500	0.100	1	04/18/2021 02:30	WG1653586

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	121		19.0	50.0	50	04/22/2021 01:19	WG1656210
Fluoride	1.80		0.0640	0.150	1	04/22/2021 00:39	WG1656210
Sulfate	1200		29.7	250	50	04/22/2021 01:19	WG1656210

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0211		0.000180	0.00200	1	04/26/2021 21:59	WG1656883
Arsenic,Dissolved	0.0125		0.000180	0.00200	1	04/26/2021 01:30	WG1655933
Barium	0.0196	J	0.000381	0.0200	1	04/26/2021 21:59	WG1656883
Barium,Dissolved	0.0176	J	0.000381	0.0200	1	04/26/2021 01:30	WG1655933
Calcium	362		0.0936	1.00	1	04/26/2021 21:59	WG1656883
Chromium	0.00152	B J	0.00124	0.00200	1	04/26/2021 21:59	WG1656883
Chromium,Dissolved	U		0.00124	0.00200	1	04/26/2021 01:30	WG1655933
Iron	1.14		0.0281	0.100	1	04/26/2021 21:59	WG1656883
Iron,Dissolved	U		0.0281	0.100	1	04/26/2021 01:30	WG1655933
Lead	U		0.000849	0.00200	1	04/26/2021 21:59	WG1656883
Lead,Dissolved	U		0.000849	0.00200	1	04/26/2021 01:30	WG1655933
Manganese	0.831		0.000704	0.00500	1	04/26/2021 21:59	WG1656883
Manganese,Dissolved	0.732		0.000704	0.00500	1	04/26/2021 01:30	WG1655933
Potassium	2.27		0.108	2.00	1	04/26/2021 21:59	WG1656883
Selenium	0.000456	J	0.000300	0.00200	1	04/26/2021 21:59	WG1656883
Selenium,Dissolved	U		0.000300	0.00200	1	04/26/2021 01:30	WG1655933
Sodium	146		0.376	2.00	1	04/26/2021 21:59	WG1656883

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/18/2021 17:47	WG1653772
Benzene	U		0.0000941	0.00100	1	04/18/2021 17:47	WG1653772
Bromodichloromethane	U		0.000136	0.00100	1	04/18/2021 17:47	WG1653772
Bromoform	U		0.000129	0.00100	1	04/18/2021 17:47	WG1653772
Bromomethane	U		0.000605	0.00500	1	04/18/2021 17:47	WG1653772
n-Butylbenzene	U		0.000157	0.00100	1	04/18/2021 17:47	WG1653772
sec-Butylbenzene	0.000280	J	0.000125	0.00100	1	04/18/2021 17:47	WG1653772
Carbon disulfide	U		0.0000962	0.00100	1	04/18/2021 17:47	WG1653772
Carbon tetrachloride	U		0.000128	0.00100	1	04/18/2021 17:47	WG1653772
Chlorobenzene	U		0.000116	0.00100	1	04/18/2021 17:47	WG1653772
Chlorodibromomethane	U		0.000140	0.00100	1	04/18/2021 17:47	WG1653772
Chloroethane	U		0.000192	0.00500	1	04/18/2021 17:47	WG1653772
Chloroform	U		0.000111	0.00500	1	04/18/2021 17:47	WG1653772
Chloromethane	U	J4	0.000960	0.00250	1	04/18/2021 17:47	WG1653772
1,2-Dibromoethane	U		0.000126	0.00100	1	04/18/2021 17:47	WG1653772
1,1-Dichloroethane	U		0.000100	0.00100	1	04/18/2021 17:47	WG1653772

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/18/2021 17:47	WG1653772
1,1-Dichloroethene	U		0.000188	0.00100	1	04/18/2021 17:47	WG1653772
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/18/2021 17:47	WG1653772
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/18/2021 17:47	WG1653772
1,2-Dichloropropane	U		0.000149	0.00100	1	04/18/2021 17:47	WG1653772
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/18/2021 17:47	WG1653772
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/18/2021 17:47	WG1653772
Ethylbenzene	U		0.000137	0.00100	1	04/18/2021 17:47	WG1653772
Isopropylbenzene	0.000426	J	0.000105	0.00100	1	04/18/2021 17:47	WG1653772
p-Isopropyltoluene	U		0.000120	0.00100	1	04/18/2021 17:47	WG1653772
2-Butanone (MEK)	U		0.00119	0.0100	1	04/18/2021 17:47	WG1653772
2-Hexanone	U		0.000787	0.0100	1	04/18/2021 17:47	WG1653772
Methylene Chloride	U		0.000430	0.00500	1	04/18/2021 17:47	WG1653772
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/18/2021 17:47	WG1653772
Methyl tert-butyl ether	0.000426	J	0.000101	0.00100	1	04/18/2021 17:47	WG1653772
Naphthalene	U		0.00100	0.00500	1	04/18/2021 17:47	WG1653772
n-Propylbenzene	U		0.0000993	0.00100	1	04/18/2021 17:47	WG1653772
Styrene	U		0.000118	0.00100	1	04/18/2021 17:47	WG1653772
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/18/2021 17:47	WG1653772
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/18/2021 17:47	WG1653772
Tetrachloroethene	U		0.000300	0.00100	1	04/18/2021 17:47	WG1653772
Toluene	U		0.000278	0.00100	1	04/18/2021 17:47	WG1653772
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/18/2021 17:47	WG1653772
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/18/2021 17:47	WG1653772
Trichloroethene	U		0.000190	0.00100	1	04/18/2021 17:47	WG1653772
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/18/2021 17:47	WG1653772
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/18/2021 17:47	WG1653772
Vinyl chloride	U		0.000234	0.00100	1	04/18/2021 17:47	WG1653772
o-Xylene	U		0.000174	0.00100	1	04/18/2021 17:47	WG1653772
m&p-Xylene	U		0.000430	0.00200	1	04/18/2021 17:47	WG1653772
Xylenes, Total	U		0.000174	0.00300	1	04/18/2021 17:47	WG1653772
(S) Toluene-d8	*103*			*80.0-120*		*04/18/2021 17:47*	WG1653772
(S) 4-Bromofluorobenzene	*107*			*77.0-126*		*04/18/2021 17:47*	WG1653772
(S) 1,2-Dichloroethane-d4	*100*			*70.0-130*		*04/18/2021 17:47*	WG1653772

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	5.52		0.0247	0.100	1	04/26/2021 05:39	WG1655290
(S) o-Terphenyl	*111*			*31.0-160*		*04/26/2021 05:39*	WG1655290

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2490		50.0	1	04/16/2021 18:49	WG1653096

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	6.30		0.250	0.500	5	04/18/2021 02:52	WG1653586

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	87.3		0.379	1.00	1	04/22/2021 02:13	WG1656210
Fluoride	1.47		0.0640	0.150	1	04/22/2021 02:13	WG1656210
Sulfate	1670		29.7	250	50	04/22/2021 02:31	WG1656210

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00270		0.000180	0.00200	1	04/26/2021 22:03	WG1656883
Arsenic,Dissolved	0.00191	J	0.000180	0.00200	1	04/26/2021 01:33	WG1655933
Barium	0.0318		0.000381	0.0200	1	04/26/2021 22:03	WG1656883
Barium,Dissolved	0.0141	J	0.000381	0.0200	1	04/26/2021 01:33	WG1655933
Calcium	511		0.0936	1.00	1	04/26/2021 22:03	WG1656883
Chromium	0.00688	B	0.00124	0.00200	1	04/26/2021 22:03	WG1656883
Chromium,Dissolved	U		0.00124	0.00200	1	04/26/2021 01:33	WG1655933
Iron	1.06		0.0281	0.100	1	04/26/2021 22:03	WG1656883
Iron,Dissolved	U		0.0281	0.100	1	04/26/2021 01:33	WG1655933
Lead	0.00515		0.000849	0.00200	1	04/26/2021 22:03	WG1656883
Lead,Dissolved	U		0.000849	0.00200	1	04/26/2021 01:33	WG1655933
Manganese	1.60		0.000704	0.00500	1	04/26/2021 22:03	WG1656883
Manganese,Dissolved	1.55		0.000704	0.00500	1	04/26/2021 01:33	WG1655933
Potassium	3.79		0.108	2.00	1	04/26/2021 22:03	WG1656883
Selenium	0.00222		0.000300	0.00200	1	04/26/2021 22:03	WG1656883
Selenium,Dissolved	0.00214		0.000300	0.00200	1	04/26/2021 01:33	WG1655933
Sodium	113		0.376	2.00	1	04/26/2021 22:03	WG1656883

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/18/2021 18:07	WG1653772
Benzene	U		0.0000941	0.00100	1	04/18/2021 18:07	WG1653772
Bromodichloromethane	U		0.000136	0.00100	1	04/18/2021 18:07	WG1653772
Bromoform	U		0.000129	0.00100	1	04/18/2021 18:07	WG1653772
Bromomethane	U		0.000605	0.00500	1	04/18/2021 18:07	WG1653772
n-Butylbenzene	U		0.000157	0.00100	1	04/18/2021 18:07	WG1653772
sec-Butylbenzene	U		0.000125	0.00100	1	04/18/2021 18:07	WG1653772
Carbon disulfide	U		0.0000962	0.00100	1	04/18/2021 18:07	WG1653772
Carbon tetrachloride	U		0.000128	0.00100	1	04/18/2021 18:07	WG1653772
Chlorobenzene	U		0.000116	0.00100	1	04/18/2021 18:07	WG1653772
Chlorodibromomethane	U		0.000140	0.00100	1	04/18/2021 18:07	WG1653772
Chloroethane	U		0.000192	0.00500	1	04/18/2021 18:07	WG1653772
Chloroform	U		0.000111	0.00500	1	04/18/2021 18:07	WG1653772
Chloromethane	U	J4	0.000960	0.00250	1	04/18/2021 18:07	WG1653772
1,2-Dibromoethane	U		0.000126	0.00100	1	04/18/2021 18:07	WG1653772
1,1-Dichloroethane	U		0.000100	0.00100	1	04/18/2021 18:07	WG1653772

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/18/2021 18:07	WG1653772
1,1-Dichloroethene	U		0.000188	0.00100	1	04/18/2021 18:07	WG1653772
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/18/2021 18:07	WG1653772
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/18/2021 18:07	WG1653772
1,2-Dichloropropane	U		0.000149	0.00100	1	04/18/2021 18:07	WG1653772
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/18/2021 18:07	WG1653772
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/18/2021 18:07	WG1653772
Ethylbenzene	U		0.000137	0.00100	1	04/18/2021 18:07	WG1653772
Isopropylbenzene	U		0.000105	0.00100	1	04/18/2021 18:07	WG1653772
p-Isopropyltoluene	U		0.000120	0.00100	1	04/18/2021 18:07	WG1653772
2-Butanone (MEK)	U		0.00119	0.0100	1	04/18/2021 18:07	WG1653772
2-Hexanone	U		0.000787	0.0100	1	04/18/2021 18:07	WG1653772
Methylene Chloride	U		0.000430	0.00500	1	04/18/2021 18:07	WG1653772
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/18/2021 18:07	WG1653772
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/18/2021 18:07	WG1653772
Naphthalene	U		0.00100	0.00500	1	04/18/2021 18:07	WG1653772
n-Propylbenzene	U		0.0000993	0.00100	1	04/18/2021 18:07	WG1653772
Styrene	U		0.000118	0.00100	1	04/18/2021 18:07	WG1653772
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/18/2021 18:07	WG1653772
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/18/2021 18:07	WG1653772
Tetrachloroethene	U		0.000300	0.00100	1	04/18/2021 18:07	WG1653772
Toluene	U		0.000278	0.00100	1	04/18/2021 18:07	WG1653772
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/18/2021 18:07	WG1653772
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/18/2021 18:07	WG1653772
Trichloroethene	U		0.000190	0.00100	1	04/18/2021 18:07	WG1653772
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/18/2021 18:07	WG1653772
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/18/2021 18:07	WG1653772
Vinyl chloride	U		0.000234	0.00100	1	04/18/2021 18:07	WG1653772
o-Xylene	U		0.000174	0.00100	1	04/18/2021 18:07	WG1653772
m&p-Xylene	U		0.000430	0.00200	1	04/18/2021 18:07	WG1653772
Xylenes, Total	U		0.000174	0.00300	1	04/18/2021 18:07	WG1653772
(S) Toluene-d8	*105*			*80.0-120*		*04/18/2021 18:07*	WG1653772
(S) 4-Bromofluorobenzene	*104*			*77.0-126*		*04/18/2021 18:07*	WG1653772
(S) 1,2-Dichloroethane-d4	*98.8*			*70.0-130*		*04/18/2021 18:07*	WG1653772

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.984		0.0247	0.100	1	04/26/2021 05:59	WG1655290
(S) o-Terphenyl	*84.5*			*31.0-160*		*04/26/2021 05:59*	WG1655290

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1610		25.0	1	04/16/2021 18:49	WG1653096

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0500	0.100	1	04/18/2021 02:54	WG1653586

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	27.0		0.379	1.00	1	04/22/2021 02:48	WG1656210
Fluoride	1.66		0.0640	0.150	1	04/22/2021 02:48	WG1656210
Sulfate	718		5.94	50.0	10	04/22/2021 03:24	WG1656210

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00120	J	0.000180	0.00200	1	04/26/2021 22:06	WG1656883
Arsenic,Dissolved	0.00113	J	0.000180	0.00200	1	04/26/2021 01:36	WG1655933
Barium	0.0709		0.000381	0.0200	1	04/26/2021 22:06	WG1656883
Barium,Dissolved	0.0658		0.000381	0.0200	1	04/26/2021 01:36	WG1655933
Calcium	209		0.0936	1.00	1	04/26/2021 22:06	WG1656883
Chromium	0.00169	B J	0.00124	0.00200	1	04/26/2021 22:06	WG1656883
Chromium,Dissolved	U		0.00124	0.00200	1	04/26/2021 01:36	WG1655933
Iron	0.703		0.0281	0.100	1	04/26/2021 22:06	WG1656883
Iron,Dissolved	0.111		0.0281	0.100	1	04/26/2021 01:36	WG1655933
Lead	0.00174	J	0.000849	0.00200	1	04/26/2021 22:06	WG1656883
Lead,Dissolved	U		0.000849	0.00200	1	04/26/2021 01:36	WG1655933
Manganese	0.231		0.000704	0.00500	1	04/26/2021 22:06	WG1656883
Manganese,Dissolved	0.238		0.000704	0.00500	1	04/26/2021 01:36	WG1655933
Potassium	0.412	J	0.108	2.00	1	04/26/2021 22:06	WG1656883
Selenium	U		0.000300	0.00200	1	04/26/2021 22:06	WG1656883
Selenium,Dissolved	U		0.000300	0.00200	1	04/26/2021 01:36	WG1655933
Sodium	64.6		0.376	2.00	1	04/26/2021 22:06	WG1656883

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0565	0.250	5	04/18/2021 21:31	WG1653772
Benzene	0.200		0.000471	0.00500	5	04/18/2021 21:31	WG1653772
Bromodichloromethane	U		0.000680	0.00500	5	04/18/2021 21:31	WG1653772
Bromoform	U		0.000645	0.00500	5	04/18/2021 21:31	WG1653772
Bromomethane	U		0.00303	0.0250	5	04/18/2021 21:31	WG1653772
n-Butylbenzene	0.00157	J	0.000785	0.00500	5	04/18/2021 21:31	WG1653772
sec-Butylbenzene	0.00355	J	0.000625	0.00500	5	04/18/2021 21:31	WG1653772
Carbon disulfide	0.000748	J	0.000481	0.00500	5	04/18/2021 21:31	WG1653772
Carbon tetrachloride	U		0.000640	0.00500	5	04/18/2021 21:31	WG1653772
Chlorobenzene	U		0.000580	0.00500	5	04/18/2021 21:31	WG1653772
Chlorodibromomethane	U		0.000700	0.00500	5	04/18/2021 21:31	WG1653772
Chloroethane	U		0.000960	0.0250	5	04/18/2021 21:31	WG1653772
Chloroform	U		0.000555	0.0250	5	04/18/2021 21:31	WG1653772
Chloromethane	U	J4	0.00480	0.0125	5	04/18/2021 21:31	WG1653772
1,2-Dibromoethane	U		0.000630	0.00500	5	04/18/2021 21:31	WG1653772
1,1-Dichloroethane	U		0.000500	0.00500	5	04/18/2021 21:31	WG1653772

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.000409	0.00500	5	04/18/2021 21:31	WG1653772
1,1-Dichloroethene	U		0.000940	0.00500	5	04/18/2021 21:31	WG1653772
cis-1,2-Dichloroethene	U		0.000630	0.00500	5	04/18/2021 21:31	WG1653772
trans-1,2-Dichloroethene	U		0.000745	0.00500	5	04/18/2021 21:31	WG1653772
1,2-Dichloropropane	U		0.000745	0.00500	5	04/18/2021 21:31	WG1653772
cis-1,3-Dichloropropene	U		0.000555	0.00500	5	04/18/2021 21:31	WG1653772
trans-1,3-Dichloropropene	U		0.000590	0.00500	5	04/18/2021 21:31	WG1653772
Ethylbenzene	0.00278	J	0.000685	0.00500	5	04/18/2021 21:31	WG1653772
Isopropylbenzene	0.0212		0.000525	0.00500	5	04/18/2021 21:31	WG1653772
p-Isopropyltoluene	0.000781	J	0.000600	0.00500	5	04/18/2021 21:31	WG1653772
2-Butanone (MEK)	U		0.00595	0.0500	5	04/18/2021 21:31	WG1653772
2-Hexanone	U		0.00394	0.0500	5	04/18/2021 21:31	WG1653772
Methylene Chloride	U		0.00215	0.0250	5	04/18/2021 21:31	WG1653772
4-Methyl-2-pentanone (MIBK)	U		0.00239	0.0500	5	04/18/2021 21:31	WG1653772
Methyl tert-butyl ether	U		0.000505	0.00500	5	04/18/2021 21:31	WG1653772
Naphthalene	U		0.00500	0.0250	5	04/18/2021 21:31	WG1653772
n-Propylbenzene	0.0174		0.000497	0.00500	5	04/18/2021 21:31	WG1653772
Styrene	U		0.000590	0.00500	5	04/18/2021 21:31	WG1653772
1,1,1,2-Tetrachloroethane	U		0.000735	0.00500	5	04/18/2021 21:31	WG1653772
1,1,2,2-Tetrachloroethane	U		0.000665	0.00500	5	04/18/2021 21:31	WG1653772
Tetrachloroethene	U		0.00150	0.00500	5	04/18/2021 21:31	WG1653772
Toluene	0.00286	J	0.00139	0.00500	5	04/18/2021 21:31	WG1653772
1,1,1-Trichloroethane	U		0.000745	0.00500	5	04/18/2021 21:31	WG1653772
1,1,2-Trichloroethane	U		0.000790	0.00500	5	04/18/2021 21:31	WG1653772
Trichloroethene	U		0.000950	0.00500	5	04/18/2021 21:31	WG1653772
1,2,4-Trimethylbenzene	0.00750		0.00161	0.00500	5	04/18/2021 21:31	WG1653772
1,3,5-Trimethylbenzene	0.000774	J	0.000520	0.00500	5	04/18/2021 21:31	WG1653772
Vinyl chloride	U		0.00117	0.00500	5	04/18/2021 21:31	WG1653772
o-Xylene	U		0.000870	0.00500	5	04/18/2021 21:31	WG1653772
m&p-Xylene	0.0313		0.00215	0.0100	5	04/18/2021 21:31	WG1653772
Xylenes, Total	0.0313		0.000870	0.0150	5	04/18/2021 21:31	WG1653772
(S) Toluene-d8	*106*			*80.0-120*		*04/18/2021 21:31*	WG1653772
(S) 4-Bromofluorobenzene	*108*			*77.0-126*		*04/18/2021 21:31*	WG1653772
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*04/18/2021 21:31*	WG1653772

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	4.44		0.0247	0.100	1	04/22/2021 12:15	WG1656083
(S) o-Terphenyl	*112*			*31.0-160*		*04/22/2021 12:15*	WG1656083

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	1890		25.0	1	04/16/2021 18:49	WG1653096

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.118		0.0500	0.100	1	04/18/2021 02:39	WG1653586

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	45.1		0.379	1.00	1	04/22/2021 04:00	WG1656210
Fluoride	1.62		0.0640	0.150	1	04/22/2021 04:00	WG1656210
Sulfate	1100		29.7	250	50	04/22/2021 04:18	WG1656210

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00668		0.000180	0.00200	1	04/26/2021 22:22	WG1656883
Arsenic,Dissolved	0.00381		0.000180	0.00200	1	04/26/2021 01:39	WG1655933
Barium	0.0326		0.000381	0.0200	1	04/26/2021 22:22	WG1656883
Barium,Dissolved	0.0158	J	0.000381	0.0200	1	04/26/2021 01:39	WG1655933
Calcium	251		0.0936	1.00	1	04/26/2021 22:22	WG1656883
Chromium	0.00265	B	0.00124	0.00200	1	04/26/2021 22:22	WG1656883
Chromium,Dissolved	U		0.00124	0.00200	1	04/26/2021 01:39	WG1655933
Iron	1.37		0.0281	0.100	1	04/26/2021 22:22	WG1656883
Iron,Dissolved	0.0411	J	0.0281	0.100	1	04/26/2021 01:39	WG1655933
Lead	0.00233		0.000849	0.00200	1	04/26/2021 22:22	WG1656883
Lead,Dissolved	U		0.000849	0.00200	1	04/26/2021 01:39	WG1655933
Manganese	1.49		0.000704	0.00500	1	04/26/2021 22:22	WG1656883
Manganese,Dissolved	1.45		0.000704	0.00500	1	04/26/2021 01:39	WG1655933
Potassium	0.539	J	0.108	2.00	1	04/26/2021 22:22	WG1656883
Selenium	U		0.000300	0.00200	1	04/26/2021 22:22	WG1656883
Selenium,Dissolved	U		0.000300	0.00200	1	04/26/2021 01:39	WG1655933
Sodium	70.8		0.376	2.00	1	04/26/2021 22:22	WG1656883

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0113	0.0500	1	04/18/2021 18:28	WG1653772
Benzene	U		0.0000941	0.00100	1	04/18/2021 18:28	WG1653772
Bromodichloromethane	U		0.000136	0.00100	1	04/18/2021 18:28	WG1653772
Bromoform	U		0.000129	0.00100	1	04/18/2021 18:28	WG1653772
Bromomethane	U		0.000605	0.00500	1	04/18/2021 18:28	WG1653772
n-Butylbenzene	U		0.000157	0.00100	1	04/18/2021 18:28	WG1653772
sec-Butylbenzene	0.000280	J	0.000125	0.00100	1	04/18/2021 18:28	WG1653772
Carbon disulfide	U		0.0000962	0.00100	1	04/18/2021 18:28	WG1653772
Carbon tetrachloride	U		0.000128	0.00100	1	04/18/2021 18:28	WG1653772
Chlorobenzene	U		0.000116	0.00100	1	04/18/2021 18:28	WG1653772
Chlorodibromomethane	U		0.000140	0.00100	1	04/18/2021 18:28	WG1653772
Chloroethane	U		0.000192	0.00500	1	04/18/2021 18:28	WG1653772
Chloroform	U		0.000111	0.00500	1	04/18/2021 18:28	WG1653772
Chloromethane	U	J4	0.000960	0.00250	1	04/18/2021 18:28	WG1653772
1,2-Dibromoethane	U		0.000126	0.00100	1	04/18/2021 18:28	WG1653772
1,1-Dichloroethane	U		0.000100	0.00100	1	04/18/2021 18:28	WG1653772

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/18/2021 18:28	WG1653772
1,1-Dichloroethene	U		0.000188	0.00100	1	04/18/2021 18:28	WG1653772
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/18/2021 18:28	WG1653772
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/18/2021 18:28	WG1653772
1,2-Dichloropropane	U		0.000149	0.00100	1	04/18/2021 18:28	WG1653772
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/18/2021 18:28	WG1653772
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/18/2021 18:28	WG1653772
Ethylbenzene	0.000613	J	0.000137	0.00100	1	04/18/2021 18:28	WG1653772
Isopropylbenzene	0.000251	J	0.000105	0.00100	1	04/18/2021 18:28	WG1653772
p-Isopropyltoluene	U		0.000120	0.00100	1	04/18/2021 18:28	WG1653772
2-Butanone (MEK)	U		0.00119	0.0100	1	04/18/2021 18:28	WG1653772
2-Hexanone	U		0.000787	0.0100	1	04/18/2021 18:28	WG1653772
Methylene Chloride	U		0.000430	0.00500	1	04/18/2021 18:28	WG1653772
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/18/2021 18:28	WG1653772
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/18/2021 18:28	WG1653772
Naphthalene	0.00252	J	0.00100	0.00500	1	04/18/2021 18:28	WG1653772
n-Propylbenzene	0.000273	J	0.0000993	0.00100	1	04/18/2021 18:28	WG1653772
Styrene	U		0.000118	0.00100	1	04/18/2021 18:28	WG1653772
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/18/2021 18:28	WG1653772
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/18/2021 18:28	WG1653772
Tetrachloroethene	U		0.000300	0.00100	1	04/18/2021 18:28	WG1653772
Toluene	U		0.000278	0.00100	1	04/18/2021 18:28	WG1653772
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/18/2021 18:28	WG1653772
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/18/2021 18:28	WG1653772
Trichloroethene	U		0.000190	0.00100	1	04/18/2021 18:28	WG1653772
1,2,4-Trimethylbenzene	0.00249		0.000322	0.00100	1	04/18/2021 18:28	WG1653772
1,3,5-Trimethylbenzene	0.000458	J	0.000104	0.00100	1	04/18/2021 18:28	WG1653772
Vinyl chloride	U		0.000234	0.00100	1	04/18/2021 18:28	WG1653772
o-Xylene	0.000352	J	0.000174	0.00100	1	04/18/2021 18:28	WG1653772
m&p-Xylene	0.000927	J	0.000430	0.00200	1	04/18/2021 18:28	WG1653772
Xylenes, Total	0.00128	J	0.000174	0.00300	1	04/18/2021 18:28	WG1653772
(S) Toluene-d8	*105*			*80.0-120*		*04/18/2021 18:28*	WG1653772
(S) 4-Bromofluorobenzene	*105*			*77.0-126*		*04/18/2021 18:28*	WG1653772
(S) 1,2-Dichloroethane-d4	*98.1*			*70.0-130*		*04/18/2021 18:28*	WG1653772

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.974		0.0247	0.100	1	04/22/2021 12:41	WG1656083
(S) o-Terphenyl	*118*			*31.0-160*		*04/22/2021 12:41*	WG1656083

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	2170		50.0	1	04/16/2021 18:49	WG1653096

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	9.30		0.250	0.500	5	04/18/2021 03:02	WG1653586

Wet Chemistry by Method 4500CN E-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Cyanide	U		0.00180	0.00500	1	04/23/2021 16:27	WG1656330

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	206		19.0	50.0	50	04/22/2021 04:54	WG1656210
Fluoride	1.64		0.0640	0.150	1	04/22/2021 04:36	WG1656210
Sulfate	1150		29.7	250	50	04/22/2021 04:54	WG1656210

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.000100	0.000200	1	04/18/2021 13:59	WG1652886
Mercury,Dissolved	U		0.000100	0.000200	1	04/20/2021 11:56	WG1652891

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Boron	2.29		0.0200	0.200	1	04/26/2021 12:03	WG1656874
Boron,Dissolved	2.32		0.0200	0.200	1	04/22/2021 17:11	WG1656496

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00283		0.000180	0.00200	1	04/26/2021 22:25	WG1656883
Arsenic,Dissolved	0.00270		0.000180	0.00200	1	04/26/2021 01:52	WG1655933
Barium	0.0126	J	0.000381	0.0200	1	04/26/2021 22:25	WG1656883
Barium,Dissolved	0.0120	J	0.000381	0.0200	1	04/26/2021 01:52	WG1655933
Cadmium	U		0.000150	0.00100	1	04/26/2021 22:25	WG1656883
Cadmium,Dissolved	U		0.000150	0.00100	1	04/26/2021 01:52	WG1655933
Calcium	393		0.0936	1.00	1	04/26/2021 22:25	WG1656883
Chromium	U		0.00124	0.00200	1	04/26/2021 22:25	WG1656883
Chromium,Dissolved	U		0.00124	0.00200	1	04/26/2021 01:52	WG1655933
Cobalt	0.000160	J	0.0000596	0.00200	1	04/26/2021 22:25	WG1656883
Cobalt,Dissolved	0.000105	J	0.0000596	0.00200	1	04/26/2021 01:52	WG1655933
Iron	U		0.0281	0.100	1	04/26/2021 22:25	WG1656883
Iron,Dissolved	U		0.0281	0.100	1	04/26/2021 01:52	WG1655933
Lead	U		0.000849	0.00200	1	04/26/2021 22:25	WG1656883
Lead,Dissolved	U		0.000849	0.00200	1	04/26/2021 01:52	WG1655933
Manganese	0.0190		0.000704	0.00500	1	04/26/2021 22:25	WG1656883
Manganese,Dissolved	0.0171		0.000704	0.00500	1	04/26/2021 01:52	WG1655933
Nickel	0.00226		0.000816	0.00200	1	04/26/2021 22:25	WG1656883
Nickel,Dissolved	0.00237		0.000816	0.00200	1	04/26/2021 01:52	WG1655933

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Potassium	1.56	J	0.108	2.00	1	04/26/2021 22:25	WG1656883
Selenium	0.00494		0.000300	0.00200	1	04/26/2021 22:25	WG1656883
Selenium,Dissolved	0.00464		0.000300	0.00200	1	04/26/2021 01:52	WG1655933
Sodium	63.7		0.376	2.00	1	04/26/2021 22:25	WG1656883
Uranium	0.0484		0.0000700	0.0200	1	04/26/2021 22:25	WG1656883
Uranium,Dissolved	0.0440		0.0000700	0.0200	1	04/26/2021 01:52	WG1655933
Vanadium	0.0189		0.000664	0.00500	1	04/26/2021 22:25	WG1656883
Vanadium,Dissolved	0.0187		0.000664	0.00500	1	04/26/2021 01:52	WG1655933

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/18/2021 18:48	WG1653772
Benzene	U		0.0000941	0.00100	1	04/18/2021 18:48	WG1653772
Bromodichloromethane	U		0.000136	0.00100	1	04/18/2021 18:48	WG1653772
Bromoform	U		0.000129	0.00100	1	04/18/2021 18:48	WG1653772
Bromomethane	U		0.000605	0.00500	1	04/18/2021 18:48	WG1653772
n-Butylbenzene	U		0.000157	0.00100	1	04/18/2021 18:48	WG1653772
sec-Butylbenzene	U		0.000125	0.00100	1	04/18/2021 18:48	WG1653772
Carbon disulfide	U		0.0000962	0.00100	1	04/18/2021 18:48	WG1653772
Carbon tetrachloride	U		0.000128	0.00100	1	04/18/2021 18:48	WG1653772
Chlorobenzene	U		0.000116	0.00100	1	04/18/2021 18:48	WG1653772
Chlorodibromomethane	U		0.000140	0.00100	1	04/18/2021 18:48	WG1653772
Chloroethane	U		0.000192	0.00500	1	04/18/2021 18:48	WG1653772
Chloroform	U		0.000111	0.00500	1	04/18/2021 18:48	WG1653772
Chloromethane	U	J4	0.000960	0.00250	1	04/18/2021 18:48	WG1653772
1,2-Dibromoethane	U		0.000126	0.00100	1	04/18/2021 18:48	WG1653772
1,1-Dichloroethane	U		0.000100	0.00100	1	04/18/2021 18:48	WG1653772
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/18/2021 18:48	WG1653772
1,1-Dichloroethene	U		0.000188	0.00100	1	04/18/2021 18:48	WG1653772
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/18/2021 18:48	WG1653772
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/18/2021 18:48	WG1653772
1,2-Dichloropropane	U		0.000149	0.00100	1	04/18/2021 18:48	WG1653772
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/18/2021 18:48	WG1653772
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/18/2021 18:48	WG1653772
Ethylbenzene	U		0.000137	0.00100	1	04/18/2021 18:48	WG1653772
Isopropylbenzene	U		0.000105	0.00100	1	04/18/2021 18:48	WG1653772
p-Isopropyltoluene	U		0.000120	0.00100	1	04/18/2021 18:48	WG1653772
2-Butanone (MEK)	U		0.00119	0.0100	1	04/18/2021 18:48	WG1653772
2-Hexanone	U		0.000787	0.0100	1	04/18/2021 18:48	WG1653772
Methylene Chloride	U		0.000430	0.00500	1	04/18/2021 18:48	WG1653772
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/18/2021 18:48	WG1653772
Methyl tert-butyl ether	0.000338	J	0.000101	0.00100	1	04/18/2021 18:48	WG1653772
Naphthalene	U		0.00100	0.00500	1	04/18/2021 18:48	WG1653772
n-Propylbenzene	U		0.0000993	0.00100	1	04/18/2021 18:48	WG1653772
Styrene	U		0.000118	0.00100	1	04/18/2021 18:48	WG1653772
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/18/2021 18:48	WG1653772
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/18/2021 18:48	WG1653772
Tetrachloroethene	U		0.000300	0.00100	1	04/18/2021 18:48	WG1653772
Toluene	U		0.000278	0.00100	1	04/18/2021 18:48	WG1653772
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/18/2021 18:48	WG1653772
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/18/2021 18:48	WG1653772
Trichloroethene	U		0.000190	0.00100	1	04/18/2021 18:48	WG1653772
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/18/2021 18:48	WG1653772
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/18/2021 18:48	WG1653772
Vinyl chloride	U		0.000234	0.00100	1	04/18/2021 18:48	WG1653772

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
o-Xylene	U		0.000174	0.00100	1	04/18/2021 18:48	WG1653772
m&p-Xylene	U		0.000430	0.00200	1	04/18/2021 18:48	WG1653772
Xylenes, Total	U		0.000174	0.00300	1	04/18/2021 18:48	WG1653772
(S) Toluene-d8	*106*			*80.0-120*		*04/18/2021 18:48*	WG1653772
(S) 4-Bromofluorobenzene	*104*			*77.0-126*		*04/18/2021 18:48*	WG1653772
(S) 1,2-Dichloroethane-d4	*99.0*			*70.0-130*		*04/18/2021 18:48*	WG1653772

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	1.59		0.0247	0.100	1	04/22/2021 17:38	WG1656083
(S) o-Terphenyl	*111*			*31.0-160*		*04/22/2021 17:38*	WG1656083

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1940		50.0	1	04/16/2021 17:10	WG1653107

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.115		0.0500	0.100	1	04/18/2021 03:03	WG1653586

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	217		7.58	20.0	20	04/22/2021 06:05	WG1656210
Fluoride	0.969		0.0640	0.150	1	04/22/2021 05:47	WG1656210
Sulfate	916		11.9	100	20	04/22/2021 06:05	WG1656210

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00595		0.000180	0.00200	1	04/26/2021 22:28	WG1656883
Arsenic,Dissolved	0.00363		0.000180	0.00200	1	04/26/2021 01:56	WG1655933
Barium	0.0185	J	0.000381	0.0200	1	04/26/2021 22:28	WG1656883
Barium,Dissolved	0.0151	J	0.000381	0.0200	1	04/26/2021 01:56	WG1655933
Calcium	414		0.0936	1.00	1	04/26/2021 22:28	WG1656883
Chromium	0.00137	B J	0.00124	0.00200	1	04/26/2021 22:28	WG1656883
Chromium,Dissolved	0.00177	J	0.00124	0.00200	1	04/26/2021 01:56	WG1655933
Iron	0.302	B	0.0281	0.100	1	04/26/2021 22:28	WG1656883
Iron,Dissolved	0.0541	J	0.0281	0.100	1	04/26/2021 01:56	WG1655933
Lead	U		0.000849	0.00200	1	04/26/2021 22:28	WG1656883
Lead,Dissolved	U		0.000849	0.00200	1	04/26/2021 01:56	WG1655933
Manganese	0.778		0.000704	0.00500	1	04/26/2021 22:28	WG1656883
Manganese,Dissolved	0.700		0.000704	0.00500	1	04/26/2021 01:56	WG1655933
Potassium	0.355	J	0.108	2.00	1	04/26/2021 22:28	WG1656883
Selenium	U		0.000300	0.00200	1	04/26/2021 22:28	WG1656883
Selenium,Dissolved	U		0.000300	0.00200	1	04/26/2021 01:56	WG1655933
Sodium	64.3		0.376	2.00	1	04/26/2021 22:28	WG1656883

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/18/2021 19:08	WG1653772
Benzene	U		0.0000941	0.00100	1	04/18/2021 19:08	WG1653772
Bromodichloromethane	U		0.000136	0.00100	1	04/18/2021 19:08	WG1653772
Bromoform	U		0.000129	0.00100	1	04/18/2021 19:08	WG1653772
Bromomethane	U		0.000605	0.00500	1	04/18/2021 19:08	WG1653772
n-Butylbenzene	U		0.000157	0.00100	1	04/18/2021 19:08	WG1653772
sec-Butylbenzene	U		0.000125	0.00100	1	04/18/2021 19:08	WG1653772
Carbon disulfide	U		0.0000962	0.00100	1	04/18/2021 19:08	WG1653772
Carbon tetrachloride	U		0.000128	0.00100	1	04/18/2021 19:08	WG1653772
Chlorobenzene	U		0.000116	0.00100	1	04/18/2021 19:08	WG1653772
Chlorodibromomethane	U		0.000140	0.00100	1	04/18/2021 19:08	WG1653772
Chloroethane	U		0.000192	0.00500	1	04/18/2021 19:08	WG1653772
Chloroform	U		0.000111	0.00500	1	04/18/2021 19:08	WG1653772
Chloromethane	U	J4	0.000960	0.00250	1	04/18/2021 19:08	WG1653772
1,2-Dibromoethane	U		0.000126	0.00100	1	04/18/2021 19:08	WG1653772
1,1-Dichloroethane	U		0.000100	0.00100	1	04/18/2021 19:08	WG1653772

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/18/2021 19:08	WG1653772
1,1-Dichloroethene	U		0.000188	0.00100	1	04/18/2021 19:08	WG1653772
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/18/2021 19:08	WG1653772
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/18/2021 19:08	WG1653772
1,2-Dichloropropane	U		0.000149	0.00100	1	04/18/2021 19:08	WG1653772
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/18/2021 19:08	WG1653772
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/18/2021 19:08	WG1653772
Ethylbenzene	U		0.000137	0.00100	1	04/18/2021 19:08	WG1653772
Isopropylbenzene	U		0.000105	0.00100	1	04/18/2021 19:08	WG1653772
p-Isopropyltoluene	U		0.000120	0.00100	1	04/18/2021 19:08	WG1653772
2-Butanone (MEK)	U		0.00119	0.0100	1	04/18/2021 19:08	WG1653772
2-Hexanone	U		0.000787	0.0100	1	04/18/2021 19:08	WG1653772
Methylene Chloride	U		0.000430	0.00500	1	04/18/2021 19:08	WG1653772
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/18/2021 19:08	WG1653772
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/18/2021 19:08	WG1653772
Naphthalene	U		0.00100	0.00500	1	04/18/2021 19:08	WG1653772
n-Propylbenzene	U		0.0000993	0.00100	1	04/18/2021 19:08	WG1653772
Styrene	U		0.000118	0.00100	1	04/18/2021 19:08	WG1653772
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/18/2021 19:08	WG1653772
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/18/2021 19:08	WG1653772
Tetrachloroethene	U		0.000300	0.00100	1	04/18/2021 19:08	WG1653772
Toluene	U		0.000278	0.00100	1	04/18/2021 19:08	WG1653772
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/18/2021 19:08	WG1653772
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/18/2021 19:08	WG1653772
Trichloroethene	U		0.000190	0.00100	1	04/18/2021 19:08	WG1653772
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/18/2021 19:08	WG1653772
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/18/2021 19:08	WG1653772
Vinyl chloride	U		0.000234	0.00100	1	04/18/2021 19:08	WG1653772
o-Xylene	U		0.000174	0.00100	1	04/18/2021 19:08	WG1653772
m&p-Xylene	U		0.000430	0.00200	1	04/18/2021 19:08	WG1653772
Xylenes, Total	U		0.000174	0.00300	1	04/18/2021 19:08	WG1653772
(S) Toluene-d8	*106*			*80.0-120*		*04/18/2021 19:08*	WG1653772
(S) 4-Bromofluorobenzene	*104*			*77.0-126*		*04/18/2021 19:08*	WG1653772
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*04/18/2021 19:08*	WG1653772

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	3.49		0.0247	0.100	1	04/22/2021 18:03	WG1656083
(S) o-Terphenyl	*120*			*31.0-160*		*04/22/2021 18:03*	WG1656083

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2290		50.0	1	04/16/2021 17:10	WG1653107

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.0845	J	0.0500	0.100	1	04/18/2021 02:43	WG1653586

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	205		7.58	20.0	20	04/22/2021 06:59	WG1656210
Fluoride	0.654		0.0640	0.150	1	04/22/2021 06:23	WG1656210
Sulfate	1320		11.9	100	20	04/22/2021 06:59	WG1656210

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00222		0.000180	0.00200	1	04/26/2021 22:32	WG1656883
Arsenic,Dissolved	0.00185	J	0.000180	0.00200	1	04/26/2021 01:59	WG1655933
Barium	0.0193	J	0.000381	0.0200	1	04/26/2021 22:32	WG1656883
Barium,Dissolved	0.0171	J	0.000381	0.0200	1	04/26/2021 01:59	WG1655933
Calcium	458		0.0936	1.00	1	04/26/2021 22:32	WG1656883
Chromium	U		0.00124	0.00200	1	04/26/2021 22:32	WG1656883
Chromium,Dissolved	0.00150	J	0.00124	0.00200	1	04/26/2021 01:59	WG1655933
Iron	0.977		0.0281	0.100	1	04/26/2021 22:32	WG1656883
Iron,Dissolved	U		0.0281	0.100	1	04/26/2021 01:59	WG1655933
Lead	U		0.000849	0.00200	1	04/26/2021 22:32	WG1656883
Lead,Dissolved	U		0.000849	0.00200	1	04/26/2021 01:59	WG1655933
Manganese	0.582		0.000704	0.00500	1	04/26/2021 22:32	WG1656883
Manganese,Dissolved	0.512		0.000704	0.00500	1	04/26/2021 01:59	WG1655933
Potassium	1.47	J	0.108	2.00	1	04/26/2021 22:32	WG1656883
Selenium	U		0.000300	0.00200	1	04/26/2021 22:32	WG1656883
Selenium,Dissolved	0.000332	J	0.000300	0.00200	1	04/26/2021 01:59	WG1655933
Sodium	69.9		0.376	2.00	1	04/26/2021 22:32	WG1656883

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/20/2021 16:28	WG1655063
(S) a,a,a-Trifluorotoluene(FID)	*101*			*78.0-120*		*04/20/2021 16:28*	WG1655063

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/18/2021 19:29	WG1653772
Benzene	U		0.0000941	0.00100	1	04/18/2021 19:29	WG1653772
Bromodichloromethane	U		0.000136	0.00100	1	04/18/2021 19:29	WG1653772
Bromoform	U		0.000129	0.00100	1	04/18/2021 19:29	WG1653772
Bromomethane	U		0.000605	0.00500	1	04/18/2021 19:29	WG1653772
n-Butylbenzene	U		0.000157	0.00100	1	04/18/2021 19:29	WG1653772
sec-Butylbenzene	U		0.000125	0.00100	1	04/18/2021 19:29	WG1653772
Carbon disulfide	U		0.0000962	0.00100	1	04/18/2021 19:29	WG1653772
Carbon tetrachloride	U		0.000128	0.00100	1	04/18/2021 19:29	WG1653772

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/18/2021 19:29	WG1653772
Chlorodibromomethane	U		0.000140	0.00100	1	04/18/2021 19:29	WG1653772
Chloroethane	U		0.000192	0.00500	1	04/18/2021 19:29	WG1653772
Chloroform	U		0.000111	0.00500	1	04/18/2021 19:29	WG1653772
Chloromethane	U	J4	0.000960	0.00250	1	04/18/2021 19:29	WG1653772
1,2-Dibromoethane	U		0.000126	0.00100	1	04/18/2021 19:29	WG1653772
1,1-Dichloroethane	U		0.000100	0.00100	1	04/18/2021 19:29	WG1653772
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/18/2021 19:29	WG1653772
1,1-Dichloroethene	U		0.000188	0.00100	1	04/18/2021 19:29	WG1653772
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/18/2021 19:29	WG1653772
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/18/2021 19:29	WG1653772
1,2-Dichloropropane	U		0.000149	0.00100	1	04/18/2021 19:29	WG1653772
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/18/2021 19:29	WG1653772
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/18/2021 19:29	WG1653772
Ethylbenzene	U		0.000137	0.00100	1	04/18/2021 19:29	WG1653772
Isopropylbenzene	U		0.000105	0.00100	1	04/18/2021 19:29	WG1653772
p-Isopropyltoluene	U		0.000120	0.00100	1	04/18/2021 19:29	WG1653772
2-Butanone (MEK)	U		0.00119	0.0100	1	04/18/2021 19:29	WG1653772
2-Hexanone	U		0.000787	0.0100	1	04/18/2021 19:29	WG1653772
Methylene Chloride	U		0.000430	0.00500	1	04/18/2021 19:29	WG1653772
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/18/2021 19:29	WG1653772
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/18/2021 19:29	WG1653772
Naphthalene	U		0.00100	0.00500	1	04/18/2021 19:29	WG1653772
n-Propylbenzene	U		0.0000993	0.00100	1	04/18/2021 19:29	WG1653772
Styrene	U		0.000118	0.00100	1	04/18/2021 19:29	WG1653772
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/18/2021 19:29	WG1653772
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/18/2021 19:29	WG1653772
Tetrachloroethene	U		0.000300	0.00100	1	04/18/2021 19:29	WG1653772
Toluene	U		0.000278	0.00100	1	04/18/2021 19:29	WG1653772
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/18/2021 19:29	WG1653772
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/18/2021 19:29	WG1653772
Trichloroethene	U		0.000190	0.00100	1	04/18/2021 19:29	WG1653772
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/18/2021 19:29	WG1653772
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/18/2021 19:29	WG1653772
Vinyl chloride	U		0.000234	0.00100	1	04/18/2021 19:29	WG1653772
o-Xylene	U		0.000174	0.00100	1	04/18/2021 19:29	WG1653772
m&p-Xylene	U		0.000430	0.00200	1	04/18/2021 19:29	WG1653772
Xylenes, Total	U		0.000174	0.00300	1	04/18/2021 19:29	WG1653772
(S) Toluene-d8	*105*			*80.0-120*		*04/18/2021 19:29*	WG1653772
(S) 4-Bromofluorobenzene	*104*			*77.0-126*		*04/18/2021 19:29*	WG1653772
(S) 1,2-Dichloroethane-d4	*99.2*			*70.0-130*		*04/18/2021 19:29*	WG1653772

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	2.02		0.0247	0.100	1	04/22/2021 18:29	WG1656083
(S) o-Terphenyl	*113*			*31.0-160*		*04/22/2021 18:29*	WG1656083

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2930		50.0	1	04/16/2021 17:10	WG1653107

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	6.70		0.250	0.500	5	04/18/2021 02:44	WG1653586

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	115		37.9	100	100	04/22/2021 07:35	WG1656210
Fluoride	0.692		0.0640	0.150	1	04/22/2021 07:17	WG1656210
Sulfate	1970		59.4	500	100	04/22/2021 07:35	WG1656210

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00157	J	0.000180	0.00200	1	04/26/2021 22:35	WG1656883
Arsenic,Dissolved	0.00149	J	0.000180	0.00200	1	04/26/2021 02:02	WG1655933
Barium	0.0132	J	0.000381	0.0200	1	04/26/2021 22:35	WG1656883
Barium,Dissolved	0.0121	J	0.000381	0.0200	1	04/26/2021 02:02	WG1655933
Calcium	501		0.0936	1.00	1	04/26/2021 22:35	WG1656883
Chromium	U		0.00124	0.00200	1	04/26/2021 22:35	WG1656883
Chromium,Dissolved	U		0.00124	0.00200	1	04/26/2021 02:02	WG1655933
Iron	U		0.0281	0.100	1	04/26/2021 22:35	WG1656883
Iron,Dissolved	U		0.0281	0.100	1	04/26/2021 02:02	WG1655933
Lead	U		0.000849	0.00200	1	04/26/2021 22:35	WG1656883
Lead,Dissolved	U		0.000849	0.00200	1	04/26/2021 02:02	WG1655933
Manganese	0.00243	J	0.000704	0.00500	1	04/26/2021 22:35	WG1656883
Manganese,Dissolved	U		0.000704	0.00500	1	04/26/2021 02:02	WG1655933
Potassium	0.786	J	0.108	2.00	1	04/26/2021 22:35	WG1656883
Selenium	0.0104		0.000300	0.00200	1	04/26/2021 22:35	WG1656883
Selenium,Dissolved	0.00981		0.000300	0.00200	1	04/26/2021 02:02	WG1655933
Sodium	154		0.376	2.00	1	04/26/2021 22:35	WG1656883

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/18/2021 19:49	WG1653772
Benzene	U		0.0000941	0.00100	1	04/18/2021 19:49	WG1653772
Bromodichloromethane	U		0.000136	0.00100	1	04/18/2021 19:49	WG1653772
Bromoform	U		0.000129	0.00100	1	04/18/2021 19:49	WG1653772
Bromomethane	U		0.000605	0.00500	1	04/18/2021 19:49	WG1653772
n-Butylbenzene	U		0.000157	0.00100	1	04/18/2021 19:49	WG1653772
sec-Butylbenzene	U		0.000125	0.00100	1	04/18/2021 19:49	WG1653772
Carbon disulfide	U		0.0000962	0.00100	1	04/18/2021 19:49	WG1653772
Carbon tetrachloride	U		0.000128	0.00100	1	04/18/2021 19:49	WG1653772
Chlorobenzene	U		0.000116	0.00100	1	04/18/2021 19:49	WG1653772
Chlorodibromomethane	U		0.000140	0.00100	1	04/18/2021 19:49	WG1653772
Chloroethane	U		0.000192	0.00500	1	04/18/2021 19:49	WG1653772
Chloroform	U		0.000111	0.00500	1	04/18/2021 19:49	WG1653772
Chloromethane	U	J4	0.000960	0.00250	1	04/18/2021 19:49	WG1653772
1,2-Dibromoethane	U		0.000126	0.00100	1	04/18/2021 19:49	WG1653772
1,1-Dichloroethane	U		0.000100	0.00100	1	04/18/2021 19:49	WG1653772

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/18/2021 19:49	WG1653772
1,1-Dichloroethene	U		0.000188	0.00100	1	04/18/2021 19:49	WG1653772
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/18/2021 19:49	WG1653772
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/18/2021 19:49	WG1653772
1,2-Dichloropropane	U		0.000149	0.00100	1	04/18/2021 19:49	WG1653772
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/18/2021 19:49	WG1653772
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/18/2021 19:49	WG1653772
Ethylbenzene	U		0.000137	0.00100	1	04/18/2021 19:49	WG1653772
Isopropylbenzene	U		0.000105	0.00100	1	04/18/2021 19:49	WG1653772
p-Isopropyltoluene	U		0.000120	0.00100	1	04/18/2021 19:49	WG1653772
2-Butanone (MEK)	U		0.00119	0.0100	1	04/18/2021 19:49	WG1653772
2-Hexanone	U		0.000787	0.0100	1	04/18/2021 19:49	WG1653772
Methylene Chloride	U		0.000430	0.00500	1	04/18/2021 19:49	WG1653772
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/18/2021 19:49	WG1653772
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/18/2021 19:49	WG1653772
Naphthalene	U		0.00100	0.00500	1	04/18/2021 19:49	WG1653772
n-Propylbenzene	U		0.0000993	0.00100	1	04/18/2021 19:49	WG1653772
Styrene	U		0.000118	0.00100	1	04/18/2021 19:49	WG1653772
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/18/2021 19:49	WG1653772
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/18/2021 19:49	WG1653772
Tetrachloroethene	U		0.000300	0.00100	1	04/18/2021 19:49	WG1653772
Toluene	U		0.000278	0.00100	1	04/18/2021 19:49	WG1653772
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/18/2021 19:49	WG1653772
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/18/2021 19:49	WG1653772
Trichloroethene	U		0.000190	0.00100	1	04/18/2021 19:49	WG1653772
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/18/2021 19:49	WG1653772
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/18/2021 19:49	WG1653772
Vinyl chloride	U		0.000234	0.00100	1	04/18/2021 19:49	WG1653772
o-Xylene	U		0.000174	0.00100	1	04/18/2021 19:49	WG1653772
m&p-Xylene	U		0.000430	0.00200	1	04/18/2021 19:49	WG1653772
Xylenes, Total	U		0.000174	0.00300	1	04/18/2021 19:49	WG1653772
(S) Toluene-d8	*107*			*80.0-120*		*04/18/2021 19:49*	WG1653772
(S) 4-Bromofluorobenzene	*107*			*77.0-126*		*04/18/2021 19:49*	WG1653772
(S) 1,2-Dichloroethane-d4	*99.6*			*70.0-130*		*04/18/2021 19:49*	WG1653772

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0315	J	0.0247	0.100	1	04/23/2021 15:48	WG1656083
(S) o-Terphenyl	*81.6*			*31.0-160*		*04/23/2021 15:48*	WG1656083

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1870		25.0	1	04/16/2021 17:10	WG1653107

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.132		0.0500	0.100	1	04/18/2021 02:45	WG1653586

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	64.8		0.379	1.00	1	04/22/2021 01:44	WG1656212
Fluoride	1.29		0.0640	0.150	1	04/22/2021 01:44	WG1656212
Sulfate	1110		29.7	250	50	04/22/2021 02:00	WG1656212

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00191	J	0.000180	0.00200	1	04/26/2021 22:38	WG1656883
Arsenic,Dissolved	0.00155	J	0.000180	0.00200	1	04/26/2021 02:05	WG1655933
Barium	0.0278		0.000381	0.0200	1	04/26/2021 22:38	WG1656883
Barium,Dissolved	0.0241		0.000381	0.0200	1	04/26/2021 02:05	WG1655933
Calcium	312		0.0936	1.00	1	04/26/2021 22:38	WG1656883
Chromium	U		0.00124	0.00200	1	04/26/2021 22:38	WG1656883
Chromium,Dissolved	U		0.00124	0.00200	1	04/26/2021 02:05	WG1655933
Iron	0.135	B	0.0281	0.100	1	04/26/2021 22:38	WG1656883
Iron,Dissolved	U		0.0281	0.100	1	04/26/2021 02:05	WG1655933
Lead	U		0.000849	0.00200	1	04/26/2021 22:38	WG1656883
Lead,Dissolved	U		0.000849	0.00200	1	04/26/2021 02:05	WG1655933
Manganese	0.663		0.000704	0.00500	1	04/26/2021 22:38	WG1656883
Manganese,Dissolved	0.430		0.000704	0.00500	1	04/26/2021 02:05	WG1655933
Potassium	2.37		0.108	2.00	1	04/26/2021 22:38	WG1656883
Selenium	U		0.000300	0.00200	1	04/26/2021 22:38	WG1656883
Selenium,Dissolved	U		0.000300	0.00200	1	04/26/2021 02:05	WG1655933
Sodium	78.2		0.376	2.00	1	04/26/2021 22:38	WG1656883

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/18/2021 20:09	WG1653772
Benzene	U		0.0000941	0.00100	1	04/18/2021 20:09	WG1653772
Bromodichloromethane	U		0.000136	0.00100	1	04/18/2021 20:09	WG1653772
Bromoform	U		0.000129	0.00100	1	04/18/2021 20:09	WG1653772
Bromomethane	U		0.000605	0.00500	1	04/18/2021 20:09	WG1653772
n-Butylbenzene	U		0.000157	0.00100	1	04/18/2021 20:09	WG1653772
sec-Butylbenzene	U		0.000125	0.00100	1	04/18/2021 20:09	WG1653772
Carbon disulfide	U		0.0000962	0.00100	1	04/18/2021 20:09	WG1653772
Carbon tetrachloride	U		0.000128	0.00100	1	04/18/2021 20:09	WG1653772
Chlorobenzene	U		0.000116	0.00100	1	04/18/2021 20:09	WG1653772
Chlorodibromomethane	U		0.000140	0.00100	1	04/18/2021 20:09	WG1653772
Chloroethane	U		0.000192	0.00500	1	04/18/2021 20:09	WG1653772
Chloroform	U		0.000111	0.00500	1	04/18/2021 20:09	WG1653772
Chloromethane	U	J4	0.000960	0.00250	1	04/18/2021 20:09	WG1653772
1,2-Dibromoethane	U		0.000126	0.00100	1	04/18/2021 20:09	WG1653772
1,1-Dichloroethane	U		0.000100	0.00100	1	04/18/2021 20:09	WG1653772

MW-33R
Collected date/time: 04/13/21 14:50
L1339378

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/18/2021 20:09	WG1653772
1,1-Dichloroethene	U		0.000188	0.00100	1	04/18/2021 20:09	WG1653772
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/18/2021 20:09	WG1653772
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/18/2021 20:09	WG1653772
1,2-Dichloropropane	U		0.000149	0.00100	1	04/18/2021 20:09	WG1653772
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/18/2021 20:09	WG1653772
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/18/2021 20:09	WG1653772
Ethylbenzene	U		0.000137	0.00100	1	04/18/2021 20:09	WG1653772
Isopropylbenzene	U		0.000105	0.00100	1	04/18/2021 20:09	WG1653772
p-Isopropyltoluene	U		0.000120	0.00100	1	04/18/2021 20:09	WG1653772
2-Butanone (MEK)	U		0.00119	0.0100	1	04/18/2021 20:09	WG1653772
2-Hexanone	U		0.000787	0.0100	1	04/18/2021 20:09	WG1653772
Methylene Chloride	U		0.000430	0.00500	1	04/18/2021 20:09	WG1653772
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/18/2021 20:09	WG1653772
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/18/2021 20:09	WG1653772
Naphthalene	U		0.00100	0.00500	1	04/18/2021 20:09	WG1653772
n-Propylbenzene	U		0.0000993	0.00100	1	04/18/2021 20:09	WG1653772
Styrene	U		0.000118	0.00100	1	04/18/2021 20:09	WG1653772
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/18/2021 20:09	WG1653772
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/18/2021 20:09	WG1653772
Tetrachloroethene	U		0.000300	0.00100	1	04/18/2021 20:09	WG1653772
Toluene	U		0.000278	0.00100	1	04/18/2021 20:09	WG1653772
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/18/2021 20:09	WG1653772
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/18/2021 20:09	WG1653772
Trichloroethene	U		0.000190	0.00100	1	04/18/2021 20:09	WG1653772
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/18/2021 20:09	WG1653772
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/18/2021 20:09	WG1653772
Vinyl chloride	U		0.000234	0.00100	1	04/18/2021 20:09	WG1653772
o-Xylene	U		0.000174	0.00100	1	04/18/2021 20:09	WG1653772
m&p-Xylene	U		0.000430	0.00200	1	04/18/2021 20:09	WG1653772
Xylenes, Total	U		0.000174	0.00300	1	04/18/2021 20:09	WG1653772
(S) Toluene-d8	*106*			*80.0-120*		*04/18/2021 20:09*	WG1653772
(S) 4-Bromofluorobenzene	*105*			*77.0-126*		*04/18/2021 20:09*	WG1653772
(S) 1,2-Dichloroethane-d4	*100*			*70.0-130*		*04/18/2021 20:09*	WG1653772

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.123		0.0247	0.100	1	04/23/2021 16:14	WG1656083
(S) o-Terphenyl	*87.9*			*31.0-160*		*04/23/2021 16:14*	WG1656083

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2910		50.0	1	04/16/2021 17:10	WG1653107

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	7.30		0.250	0.500	5	04/18/2021 02:47	WG1653586

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	118		37.9	100	100	04/22/2021 02:32	WG1656212
Fluoride	0.645		0.0640	0.150	1	04/22/2021 02:16	WG1656212
Sulfate	2030		59.4	500	100	04/22/2021 02:32	WG1656212

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00163	J	0.000180	0.00200	1	04/26/2021 19:53	WG1656883
Arsenic,Dissolved	0.00146	J	0.000180	0.00200	1	04/26/2021 02:09	WG1655933
Barium	0.0128	J	0.000381	0.0200	1	04/26/2021 19:53	WG1656883
Barium,Dissolved	0.0118	J	0.000381	0.0200	1	04/26/2021 02:09	WG1655933
Calcium	491		0.0936	1.00	1	04/26/2021 19:53	WG1656883
Chromium	U		0.00124	0.00200	1	04/26/2021 19:53	WG1656883
Chromium,Dissolved	U		0.00124	0.00200	1	04/26/2021 02:09	WG1655933
Iron	U		0.0281	0.100	1	04/26/2021 19:53	WG1656883
Iron,Dissolved	U		0.0281	0.100	1	04/26/2021 02:09	WG1655933
Lead	U		0.000849	0.00200	1	04/26/2021 19:53	WG1656883
Lead,Dissolved	U		0.000849	0.00200	1	04/26/2021 02:09	WG1655933
Manganese	U		0.000704	0.00500	1	04/26/2021 19:53	WG1656883
Manganese,Dissolved	U		0.000704	0.00500	1	04/26/2021 02:09	WG1655933
Potassium	0.706	J	0.108	2.00	1	04/26/2021 19:53	WG1656883
Selenium	0.0103		0.000300	0.00200	1	04/26/2021 19:53	WG1656883
Selenium,Dissolved	0.00959		0.000300	0.00200	1	04/26/2021 02:09	WG1655933
Sodium	149	V	0.376	2.00	1	04/26/2021 19:53	WG1656883

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/18/2021 20:30	WG1653772
Benzene	U		0.0000941	0.00100	1	04/18/2021 20:30	WG1653772
Bromodichloromethane	U		0.000136	0.00100	1	04/18/2021 20:30	WG1653772
Bromoform	U		0.000129	0.00100	1	04/18/2021 20:30	WG1653772
Bromomethane	U		0.000605	0.00500	1	04/18/2021 20:30	WG1653772
n-Butylbenzene	U		0.000157	0.00100	1	04/18/2021 20:30	WG1653772
sec-Butylbenzene	U		0.000125	0.00100	1	04/18/2021 20:30	WG1653772
Carbon disulfide	U		0.0000962	0.00100	1	04/18/2021 20:30	WG1653772
Carbon tetrachloride	U		0.000128	0.00100	1	04/18/2021 20:30	WG1653772
Chlorobenzene	U		0.000116	0.00100	1	04/18/2021 20:30	WG1653772
Chlorodibromomethane	U		0.000140	0.00100	1	04/18/2021 20:30	WG1653772
Chloroethane	U		0.000192	0.00500	1	04/18/2021 20:30	WG1653772
Chloroform	U		0.000111	0.00500	1	04/18/2021 20:30	WG1653772
Chloromethane	U	J4	0.000960	0.00250	1	04/18/2021 20:30	WG1653772
1,2-Dibromoethane	U		0.000126	0.00100	1	04/18/2021 20:30	WG1653772
1,1-Dichloroethane	U		0.000100	0.00100	1	04/18/2021 20:30	WG1653772

DUP-NOL-01
Collected date/time: 04/13/21 11:00
L1339378

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/18/2021 20:30	WG1653772
1,1-Dichloroethene	U		0.000188	0.00100	1	04/18/2021 20:30	WG1653772
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/18/2021 20:30	WG1653772
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/18/2021 20:30	WG1653772
1,2-Dichloropropane	U		0.000149	0.00100	1	04/18/2021 20:30	WG1653772
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/18/2021 20:30	WG1653772
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/18/2021 20:30	WG1653772
Ethylbenzene	U		0.000137	0.00100	1	04/18/2021 20:30	WG1653772
Isopropylbenzene	U		0.000105	0.00100	1	04/18/2021 20:30	WG1653772
p-Isopropyltoluene	U		0.000120	0.00100	1	04/18/2021 20:30	WG1653772
2-Butanone (MEK)	U		0.00119	0.0100	1	04/18/2021 20:30	WG1653772
2-Hexanone	U		0.000787	0.0100	1	04/18/2021 20:30	WG1653772
Methylene Chloride	U		0.000430	0.00500	1	04/18/2021 20:30	WG1653772
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/18/2021 20:30	WG1653772
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/18/2021 20:30	WG1653772
Naphthalene	U		0.00100	0.00500	1	04/18/2021 20:30	WG1653772
n-Propylbenzene	U		0.0000993	0.00100	1	04/18/2021 20:30	WG1653772
Styrene	U		0.000118	0.00100	1	04/18/2021 20:30	WG1653772
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/18/2021 20:30	WG1653772
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/18/2021 20:30	WG1653772
Tetrachloroethene	U		0.000300	0.00100	1	04/18/2021 20:30	WG1653772
Toluene	U		0.000278	0.00100	1	04/18/2021 20:30	WG1653772
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/18/2021 20:30	WG1653772
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/18/2021 20:30	WG1653772
Trichloroethene	U		0.000190	0.00100	1	04/18/2021 20:30	WG1653772
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/18/2021 20:30	WG1653772
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/18/2021 20:30	WG1653772
Vinyl chloride	U		0.000234	0.00100	1	04/18/2021 20:30	WG1653772
o-Xylene	U		0.000174	0.00100	1	04/18/2021 20:30	WG1653772
m&p-Xylene	U		0.000430	0.00200	1	04/18/2021 20:30	WG1653772
Xylenes, Total	U		0.000174	0.00300	1	04/18/2021 20:30	WG1653772
(S) Toluene-d8	*106*			*80.0-120*		*04/18/2021 20:30*	WG1653772
(S) 4-Bromofluorobenzene	*106*			*77.0-126*		*04/18/2021 20:30*	WG1653772
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*04/18/2021 20:30*	WG1653772

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0728	J	0.0247	0.100	1	04/22/2021 19:46	WG1656083
(S) o-Terphenyl	*88.9*			*31.0-160*		*04/22/2021 19:46*	WG1656083

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	ND		10.0	1	04/16/2021 18:49	WG1653096

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.0780	J	0.0500	0.100	1	04/18/2021 02:56	WG1653586

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	U		0.379	1.00	1	04/22/2021 02:48	WG1656212
Fluoride	U		0.0640	0.150	1	04/22/2021 02:48	WG1656212
Sulfate	U		0.594	5.00	1	04/22/2021 02:48	WG1656212

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	U		0.000180	0.00200	1	04/26/2021 08:55	WG1656885
Arsenic,Dissolved	U		0.000180	0.00200	1	05/01/2021 15:58	WG1660980
Barium	0.000455	J	0.000381	0.0200	1	04/26/2021 08:55	WG1656885
Barium,Dissolved	0.000537	J	0.000381	0.0200	1	05/01/2021 15:58	WG1660980
Calcium	U		0.0936	1.00	1	04/26/2021 08:55	WG1656885
Chromium	U		0.00124	0.00200	1	04/26/2021 08:55	WG1656885
Chromium,Dissolved	U		0.00124	0.00200	1	05/01/2021 15:58	WG1660980
Iron	U		0.0281	0.100	1	04/26/2021 08:55	WG1656885
Iron,Dissolved	U		0.0281	0.100	1	05/01/2021 15:58	WG1660980
Lead	U		0.000849	0.00200	1	04/26/2021 08:55	WG1656885
Lead,Dissolved	U		0.000849	0.00200	1	05/01/2021 15:58	WG1660980
Manganese	U		0.000704	0.00500	1	04/26/2021 08:55	WG1656885
Manganese,Dissolved	U		0.000704	0.00500	1	05/01/2021 15:58	WG1660980
Potassium	U		0.108	2.00	1	04/26/2021 08:55	WG1656885
Selenium	U		0.000300	0.00200	1	04/26/2021 08:55	WG1656885
Selenium,Dissolved	U		0.000300	0.00200	1	05/01/2021 15:58	WG1660980
Sodium	U		0.376	2.00	1	04/26/2021 08:55	WG1656885

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/18/2021 16:05	WG1653772
Benzene	U		0.0000941	0.00100	1	04/18/2021 16:05	WG1653772
Bromodichloromethane	U		0.000136	0.00100	1	04/18/2021 16:05	WG1653772
Bromoform	U		0.000129	0.00100	1	04/18/2021 16:05	WG1653772
Bromomethane	U		0.000605	0.00500	1	04/18/2021 16:05	WG1653772
n-Butylbenzene	U		0.000157	0.00100	1	04/18/2021 16:05	WG1653772
sec-Butylbenzene	U		0.000125	0.00100	1	04/18/2021 16:05	WG1653772
Carbon disulfide	U		0.0000962	0.00100	1	04/18/2021 16:05	WG1653772
Carbon tetrachloride	U		0.000128	0.00100	1	04/18/2021 16:05	WG1653772
Chlorobenzene	U		0.000116	0.00100	1	04/18/2021 16:05	WG1653772
Chlorodibromomethane	U		0.000140	0.00100	1	04/18/2021 16:05	WG1653772
Chloroethane	U		0.000192	0.00500	1	04/18/2021 16:05	WG1653772
Chloroform	U		0.000111	0.00500	1	04/18/2021 16:05	WG1653772
Chloromethane	U	J4	0.000960	0.00250	1	04/18/2021 16:05	WG1653772
1,2-Dibromoethane	U		0.000126	0.00100	1	04/18/2021 16:05	WG1653772
1,1-Dichloroethane	U		0.000100	0.00100	1	04/18/2021 16:05	WG1653772

LB-NCL-01
Collected date/time: 04/13/21 10:10
L1339378

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/18/2021 16:05	WG1653772
1,1-Dichloroethene	U		0.000188	0.00100	1	04/18/2021 16:05	WG1653772
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/18/2021 16:05	WG1653772
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/18/2021 16:05	WG1653772
1,2-Dichloropropane	U		0.000149	0.00100	1	04/18/2021 16:05	WG1653772
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/18/2021 16:05	WG1653772
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/18/2021 16:05	WG1653772
Ethylbenzene	U		0.000137	0.00100	1	04/18/2021 16:05	WG1653772
Isopropylbenzene	U		0.000105	0.00100	1	04/18/2021 16:05	WG1653772
p-Isopropyltoluene	U		0.000120	0.00100	1	04/18/2021 16:05	WG1653772
2-Butanone (MEK)	U		0.00119	0.0100	1	04/18/2021 16:05	WG1653772
2-Hexanone	U		0.000787	0.0100	1	04/18/2021 16:05	WG1653772
Methylene Chloride	U		0.000430	0.00500	1	04/18/2021 16:05	WG1653772
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/18/2021 16:05	WG1653772
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/18/2021 16:05	WG1653772
Naphthalene	U		0.00100	0.00500	1	04/18/2021 16:05	WG1653772
n-Propylbenzene	U		0.0000993	0.00100	1	04/18/2021 16:05	WG1653772
Styrene	U		0.000118	0.00100	1	04/18/2021 16:05	WG1653772
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/18/2021 16:05	WG1653772
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/18/2021 16:05	WG1653772
Tetrachloroethene	U		0.000300	0.00100	1	04/18/2021 16:05	WG1653772
Toluene	U		0.000278	0.00100	1	04/18/2021 16:05	WG1653772
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/18/2021 16:05	WG1653772
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/18/2021 16:05	WG1653772
Trichloroethene	U		0.000190	0.00100	1	04/18/2021 16:05	WG1653772
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/18/2021 16:05	WG1653772
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/18/2021 16:05	WG1653772
Vinyl chloride	U		0.000234	0.00100	1	04/18/2021 16:05	WG1653772
o-Xylene	U		0.000174	0.00100	1	04/18/2021 16:05	WG1653772
m&p-Xylene	U		0.000430	0.00200	1	04/18/2021 16:05	WG1653772
Xylenes, Total	U		0.000174	0.00300	1	04/18/2021 16:05	WG1653772
(S) Toluene-d8	*106*			*80.0-120*		*04/18/2021 16:05*	WG1653772
(S) 4-Bromofluorobenzene	*105*			*77.0-126*		*04/18/2021 16:05*	WG1653772
(S) 1,2-Dichloroethane-d4	*99.7*			*70.0-130*		*04/18/2021 16:05*	WG1653772

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0351	J	0.0247	0.100	1	04/22/2021 20:12	WG1656083
(S) o-Terphenyl	*96.8*			*31.0-160*		*04/22/2021 20:12*	WG1656083

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/18/2021 16:25	WG1653772
Benzene	U		0.0000941	0.00100	1	04/18/2021 16:25	WG1653772
Bromodichloromethane	U		0.000136	0.00100	1	04/18/2021 16:25	WG1653772
Bromoform	U		0.000129	0.00100	1	04/18/2021 16:25	WG1653772
Bromomethane	U		0.000605	0.00500	1	04/18/2021 16:25	WG1653772
n-Butylbenzene	U		0.000157	0.00100	1	04/18/2021 16:25	WG1653772
sec-Butylbenzene	U		0.000125	0.00100	1	04/18/2021 16:25	WG1653772
Carbon disulfide	U		0.0000962	0.00100	1	04/18/2021 16:25	WG1653772
Carbon tetrachloride	U		0.000128	0.00100	1	04/18/2021 16:25	WG1653772
Chlorobenzene	U		0.000116	0.00100	1	04/18/2021 16:25	WG1653772
Chlorodibromomethane	U		0.000140	0.00100	1	04/18/2021 16:25	WG1653772
Chloroethane	U		0.000192	0.00500	1	04/18/2021 16:25	WG1653772
Chloroform	U		0.000111	0.00500	1	04/18/2021 16:25	WG1653772
Chloromethane	U	J4	0.000960	0.00250	1	04/18/2021 16:25	WG1653772
1,2-Dibromoethane	U		0.000126	0.00100	1	04/18/2021 16:25	WG1653772
1,1-Dichloroethane	U		0.000100	0.00100	1	04/18/2021 16:25	WG1653772
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/18/2021 16:25	WG1653772
1,1-Dichloroethene	U		0.000188	0.00100	1	04/18/2021 16:25	WG1653772
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/18/2021 16:25	WG1653772
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/18/2021 16:25	WG1653772
1,2-Dichloropropane	U		0.000149	0.00100	1	04/18/2021 16:25	WG1653772
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/18/2021 16:25	WG1653772
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/18/2021 16:25	WG1653772
Ethylbenzene	U		0.000137	0.00100	1	04/18/2021 16:25	WG1653772
Isopropylbenzene	U		0.000105	0.00100	1	04/18/2021 16:25	WG1653772
p-Isopropyltoluene	U		0.000120	0.00100	1	04/18/2021 16:25	WG1653772
2-Butanone (MEK)	U		0.00119	0.0100	1	04/18/2021 16:25	WG1653772
2-Hexanone	U		0.000787	0.0100	1	04/18/2021 16:25	WG1653772
Methylene Chloride	U		0.000430	0.00500	1	04/18/2021 16:25	WG1653772
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/18/2021 16:25	WG1653772
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/18/2021 16:25	WG1653772
Naphthalene	U		0.00100	0.00500	1	04/18/2021 16:25	WG1653772
n-Propylbenzene	U		0.0000993	0.00100	1	04/18/2021 16:25	WG1653772
Styrene	U		0.000118	0.00100	1	04/18/2021 16:25	WG1653772
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/18/2021 16:25	WG1653772
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/18/2021 16:25	WG1653772
Tetrachloroethene	U		0.000300	0.00100	1	04/18/2021 16:25	WG1653772
Toluene	U		0.000278	0.00100	1	04/18/2021 16:25	WG1653772
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/18/2021 16:25	WG1653772
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/18/2021 16:25	WG1653772
Trichloroethene	U		0.000190	0.00100	1	04/18/2021 16:25	WG1653772
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/18/2021 16:25	WG1653772
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/18/2021 16:25	WG1653772
Vinyl chloride	U		0.000234	0.00100	1	04/18/2021 16:25	WG1653772
o-Xylene	U		0.000174	0.00100	1	04/18/2021 16:25	WG1653772
m&p-Xylene	U		0.000430	0.00200	1	04/18/2021 16:25	WG1653772
Xylenes, Total	U		0.000174	0.00300	1	04/18/2021 16:25	WG1653772
(S) Toluene-d8	*106*			*80.0-120*		*04/18/2021 16:25*	WG1653772
(S) 4-Bromofluorobenzene	*105*			*77.0-126*		*04/18/2021 16:25*	WG1653772
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*04/18/2021 16:25*	WG1653772

Method Blank (MB)

(MB) R3643732-1 04/16/21 18:49

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1339378-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1339378-05 04/16/21 18:49 • (DUP) R3643732-3 04/16/21 18:49

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	1610	1650	1	2.61		5

L1339378-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1339378-06 04/16/21 18:49 • (DUP) R3643732-4 04/16/21 18:49

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	1890	1970	1	4.14		5

Laboratory Control Sample (LCS)

(LCS) R3643732-2 04/16/21 18:49

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8150	92.6	77.4-123	

Method Blank (MB)

(MB) R3643845-1 04/16/21 17:10

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1338078-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1338078-01 04/16/21 17:10 • (DUP) R3643845-3 04/16/21 17:10

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	1410	1510	1	6.87	J3	5

L1339378-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1339378-11 04/16/21 17:10 • (DUP) R3643845-4 04/16/21 17:10

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	1870	1900	1	1.73		5

Laboratory Control Sample (LCS)

(LCS) R3643845-2 04/16/21 17:10

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8300	94.3	77.4-123	

Method Blank (MB)

(MB) R3643143-1 04/18/21 02:19

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Nitrate-Nitrite	U		0.0500	0.100

L1339378-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1339378-02 04/18/21 02:27 • (DUP) R3643143-3 04/18/21 02:29

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate-Nitrite	0.0825	0.0841	1	1.92	J	20

L1339378-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1339378-04 04/18/21 02:52 • (DUP) R3643143-5 04/18/21 02:53

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate-Nitrite	6.30	6.25	5	0.797		20

Laboratory Control Sample (LCS)

(LCS) R3643143-2 04/18/21 02:20

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Nitrate-Nitrite	2.50	2.47	98.8	90.0-110	

L1339378-07 Original Sample (OS) • Matrix Spike (MS)

(OS) L1339378-07 04/18/21 02:40 • (MS) R3643143-4 04/18/21 02:42

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Nitrate-Nitrite	2.50	8.61	10.6	79.6	1	90.0-110	E J6

L1339364-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339364-01 04/18/21 02:58 • (MS) R3643143-6 04/18/21 02:59 • (MSD) R3643143-7 04/18/21 03:01

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Nitrate-Nitrite	2.50	2.78	5.11	5.35	93.2	103	1	90.0-110	E	E	4.59	20

Method Blank (MB)

(MB) R3645905-1 04/23/21 15:59

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Cyanide	U		0.00180	0.00500

L1339087-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1339087-02 04/23/21 16:43 • (DUP) R3645905-3 04/23/21 16:11

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	U	U	1	0.000		20

L1339112-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1339112-01 04/23/21 16:15 • (DUP) R3645905-6 04/23/21 16:16

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3645905-2 04/23/21 16:00

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Cyanide	0.100	0.0965	96.5	87.1-120	

L1339087-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339087-03 04/23/21 16:12 • (MS) R3645905-4 04/23/21 16:13 • (MSD) R3645905-5 04/23/21 16:14

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Cyanide	0.100	U	0.0858	0.0884	85.8	88.4	1	90.0-110	J6	J6	2.99	20

L1339087-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339087-01 04/23/21 16:41 • (MS) R3645905-7 04/23/21 16:42 • (MSD) R3645905-8 04/23/21 16:44

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Cyanide	0.100	U	0.0983	0.0889	98.3	88.9	1	90.0-110		J6	10.0	20

Method Blank (MB)

(MB) R3645013-1 04/21/21 15:24

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.379	1.00
Fluoride	U		0.0640	0.150
Sulfate	U		0.594	5.00

L1339141-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1339141-01 04/21/21 19:17 • (DUP) R3645013-3 04/21/21 19:35

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	0.977	0.833	1	0.000		15
Fluoride	0.115	0.112	1	0.000		15

L1339378-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1339378-05 04/22/21 02:48 • (DUP) R3645013-6 04/22/21 03:06

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	27.0	26.9	1	0.290		15
Fluoride	1.66	1.65	1	0.260		15

L1339378-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1339378-05 04/22/21 03:24 • (DUP) R3645013-7 04/22/21 03:42

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Sulfate	718	715	10	0.301		15

L1339141-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1339141-01 04/22/21 09:33 • (DUP) R3645013-9 04/22/21 09:50

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Sulfate	167	167	5	0.0989		15

Laboratory Control Sample (LCS)

(LCS) R3645013-2 04/21/21 15:42

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	39.3	98.3	80.0-120	
Fluoride	8.00	8.02	100	80.0-120	
Sulfate	40.0	39.9	99.9	80.0-120	

L1339141-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339141-02 04/21/21 19:53 • (MS) R3645013-4 04/21/21 20:11 • (MSD) R3645013-5 04/21/21 20:28

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50.0	1.02	51.3	51.2	101	100	1	80.0-120			0.218	15
Fluoride	5.00	0.117	5.18	5.17	101	101	1	80.0-120			0.0232	15
Sulfate	50.0	171	213	214	83.3	85.0	1	80.0-120	E	E	0.400	15

L1339378-09 Original Sample (OS) • Matrix Spike (MS)

(OS) L1339378-09 04/22/21 06:23 • (MS) R3645013-8 04/22/21 06:41

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	206	247	81.5	1	80.0-120	E
Fluoride	5.00	0.654	5.44	95.8	1	80.0-120	
Sulfate	50.0	1300	1320	24.6	1	80.0-120	E V

Method Blank (MB)

(MB) R3645311-1 04/22/21 01:13

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.379	1.00
Fluoride	U		0.0640	0.150
Sulfate	U		0.594	5.00

L1339378-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1339378-13 04/22/21 02:48 • (DUP) R3645311-3 04/22/21 03:04

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	U	U	1	0.000		15
Fluoride	U	U	1	0.000		15
Sulfate	U	U	1	0.000		15

L1339412-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1339412-03 04/22/21 05:27 • (DUP) R3645311-6 04/22/21 13:56

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	U	U	1	0.000		15
Fluoride	U	U	1	0.000		15
Sulfate	U	U	1	0.000		15

Laboratory Control Sample (LCS)

(LCS) R3645311-2 04/22/21 01:28

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	40.7	102	80.0-120	
Fluoride	8.00	8.12	101	80.0-120	
Sulfate	40.0	41.1	103	80.0-120	

L1339378-13 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339378-13 04/22/21 02:48 • (MS) R3645311-4 04/22/21 03:19 • (MSD) R3645311-5 04/22/21 03:35

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50.0	U	51.7	51.8	103	104	1	80.0-120			0.260	15
Fluoride	5.00	U	5.14	5.18	103	104	1	80.0-120			0.717	15
Sulfate	50.0	U	51.2	51.2	102	102	1	80.0-120			0.0166	15

L1339412-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L1339412-03 04/22/21 05:27 • (MS) R3645311-7 04/22/21 14:12

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	U	50.7	101	1	80.0-120	
Fluoride	5.00	U	5.04	101	1	80.0-120	
Sulfate	50.0	U	50.2	100	1	80.0-120	

Method Blank (MB)

(MB) R3643288-1 04/18/21 13:05

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury	U		0.000100	0.000200

Laboratory Control Sample (LCS)

(LCS) R3643288-2 04/18/21 13:07

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.00300	0.00322	107	80.0-120	

L1339409-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339409-01 04/18/21 13:09 • (MS) R3643288-3 04/18/21 13:11 • (MSD) R3643288-4 04/18/21 13:13

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.00300	U	0.00300	0.00294	100	98.0	1	75.0-125			2.17	20

Method Blank (MB)

(MB) R3644082-1 04/20/21 11:09

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury,Dissolved	U		0.000100	0.000200

Laboratory Control Sample (LCS)

(LCS) R3644082-2 04/20/21 11:11

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury,Dissolved	0.00300	0.00321	107	80.0-120	

L1339260-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339260-09 04/20/21 11:13 • (MS) R3644082-3 04/20/21 11:19 • (MSD) R3644082-4 04/20/21 11:21

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury,Dissolved	0.00300	U	0.00355	0.00349	118	116	1	75.0-125			1.84	20

L1339260-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339260-12 04/20/21 11:23 • (MS) R3644082-5 04/20/21 11:25 • (MSD) R3644082-6 04/20/21 11:27

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury,Dissolved	0.00300	U	0.00354	0.00346	118	115	1	75.0-125			2.08	20

Method Blank (MB)

(MB) R3645443-1 04/22/21 16:48

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Boron,Dissolved	U		0.0200	0.200

Laboratory Control Sample (LCS)

(LCS) R3645443-2 04/22/21 16:51

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron,Dissolved	1.00	0.955	95.5	80.0-120	

L1339260-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339260-12 04/22/21 16:54 • (MS) R3645443-4 04/22/21 16:59 • (MSD) R3645443-5 04/22/21 17:02

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Boron,Dissolved	1.00	1.05	2.04	2.00	98.9	95.2	1	75.0-125			1.81	20

Method Blank (MB)

(MB) R3646690-1 04/26/21 11:38

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Boron	U		0.0200	0.200

Laboratory Control Sample (LCS)

(LCS) R3646690-2 04/26/21 11:40

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron	1.00	0.927	92.7	80.0-120	

L1339205-27 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339205-27 04/26/21 11:43 • (MS) R3646690-4 04/26/21 11:48 • (MSD) R3646690-5 04/26/21 11:51

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Boron	1.00	U	0.945	0.935	94.5	93.5	1	75.0-125			1.06	20

Method Blank (MB)

(MB) R3646329-1 04/26/21 00:28

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic,Dissolved	U		0.000180	0.00200
Barium,Dissolved	0.000435	J	0.000381	0.0200
Cadmium,Dissolved	U		0.000150	0.00100
Chromium,Dissolved	U		0.00124	0.00200
Cobalt,Dissolved	U		0.0000596	0.00200
Iron,Dissolved	U		0.0281	0.100
Lead,Dissolved	U		0.000849	0.00200
Manganese,Dissolved	U		0.000704	0.00500
Nickel,Dissolved	U		0.000816	0.00200
Selenium,Dissolved	U		0.000300	0.00200
Uranium,Dissolved	U		0.0000700	0.0200
Vanadium,Dissolved	U		0.000664	0.00500

Laboratory Control Sample (LCS)

(LCS) R3646329-2 04/26/21 00:31

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic,Dissolved	0.0500	0.0441	88.2	80.0-120	
Barium,Dissolved	0.0500	0.0425	85.0	80.0-120	
Cadmium,Dissolved	0.0500	0.0466	93.1	80.0-120	
Chromium,Dissolved	0.0500	0.0455	91.0	80.0-120	
Cobalt,Dissolved	0.0500	0.0456	91.2	80.0-120	
Iron,Dissolved	5.00	4.46	89.2	80.0-120	
Lead,Dissolved	0.0500	0.0436	87.2	80.0-120	
Manganese,Dissolved	0.0500	0.0448	89.6	80.0-120	
Nickel,Dissolved	0.0500	0.0465	92.9	80.0-120	
Selenium,Dissolved	0.0500	0.0457	91.4	80.0-120	
Uranium,Dissolved	0.0500	0.0434	86.9	80.0-120	
Vanadium,Dissolved	0.0500	0.0456	91.2	80.0-120	

L1339352-26 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339352-26 04/26/21 00:34 • (MS) R3646329-4 04/26/21 00:41 • (MSD) R3646329-5 04/26/21 00:44

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic,Dissolved	0.0500	0.000375	0.0455	0.0456	90.3	90.5	1	75.0-125			0.173	20
Barium,Dissolved	0.0500	0.0164	0.0633	0.0650	93.8	97.2	1	75.0-125			2.67	20
Cadmium,Dissolved	0.0500	U	0.0429	0.0429	85.9	85.7	1	75.0-125			0.158	20

L1339352-26 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339352-26 04/26/21 00:34 • (MS) R3646329-4 04/26/21 00:41 • (MSD) R3646329-5 04/26/21 00:44

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chromium,Dissolved	0.0500	U	0.0449	0.0451	89.8	90.3	1	75.0-125			0.578	20
Cobalt,Dissolved	0.0500	0.000273	0.0432	0.0435	85.8	86.5	1	75.0-125			0.837	20
Iron,Dissolved	5.00	U	4.69	4.47	93.7	89.4	1	75.0-125			4.73	20
Lead,Dissolved	0.0500	U	0.0450	0.0430	90.1	86.0	1	75.0-125			4.69	20
Manganese,Dissolved	0.0500	0.274	0.319	0.317	89.7	86.7	1	75.0-125			0.477	20
Nickel,Dissolved	0.0500	0.000914	0.0441	0.0428	86.3	83.8	1	75.0-125			2.92	20
Selenium,Dissolved	0.0500	U	0.0490	0.0499	98.0	99.8	1	75.0-125			1.79	20
Uranium,Dissolved	0.0500	0.000780	0.0474	0.0461	93.2	90.7	1	75.0-125			2.74	20
Vanadium,Dissolved	0.0500	U	0.0465	0.0464	93.0	92.9	1	75.0-125			0.168	20

Method Blank (MB)

(MB) R3646817-1 04/26/21 19:46

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic	U		0.000180	0.00200
Barium	U		0.000381	0.0200
Cadmium	U		0.000150	0.00100
Calcium	U		0.0936	1.00
Chromium	0.00181	J	0.00124	0.00200
Cobalt	U		0.0000596	0.00200
Iron	0.0449	J	0.0281	0.100
Lead	U		0.000849	0.00200
Manganese	U		0.000704	0.00500
Nickel	U		0.000816	0.00200
Potassium	U		0.108	2.00
Selenium	U		0.000300	0.00200
Sodium	U		0.376	2.00
Uranium	U		0.0000700	0.0200
Vanadium	U		0.000664	0.00500

Laboratory Control Sample (LCS)

(LCS) R3646817-2 04/26/21 19:50

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	0.0500	0.0490	98.0	80.0-120	
Barium	0.0500	0.0496	99.3	80.0-120	
Cadmium	0.0500	0.0509	102	80.0-120	
Calcium	5.00	5.16	103	80.0-120	
Chromium	0.0500	0.0518	104	80.0-120	
Cobalt	0.0500	0.0509	102	80.0-120	
Iron	5.00	5.10	102	80.0-120	
Lead	0.0500	0.0508	102	80.0-120	
Manganese	0.0500	0.0512	102	80.0-120	
Nickel	0.0500	0.0515	103	80.0-120	
Potassium	5.00	5.09	102	80.0-120	
Selenium	0.0500	0.0484	96.9	80.0-120	
Sodium	5.00	5.10	102	80.0-120	
Uranium	0.0500	0.0503	101	80.0-120	
Vanadium	0.0500	0.0501	100	80.0-120	

L1339378-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339378-12 04/26/21 19:53 • (MS) R3646817-4 04/26/21 20:00 • (MSD) R3646817-5 04/26/21 20:03

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	0.0500	0.00163	0.0508	0.0521	98.2	101	1	75.0-125			2.69	20
Barium	0.0500	0.0128	0.0636	0.0634	102	101	1	75.0-125			0.347	20
Cadmium	0.0500	U	0.0528	0.0538	106	108	1	75.0-125			1.85	20
Calcium	5.00	491	499	498	173	152	1	75.0-125	V	V	0.204	20
Chromium	0.0500	U	0.0514	0.0519	103	104	1	75.0-125			0.933	20
Cobalt	0.0500	0.000292	0.0505	0.0515	100	102	1	75.0-125			1.80	20
Potassium	5.00	0.706	5.77	5.72	101	100	1	75.0-125			0.858	20
Iron	5.00	U	5.05	5.09	101	102	1	75.0-125			0.841	20
Lead	0.0500	U	0.0511	0.0511	102	102	1	75.0-125			0.0148	20
Manganese	0.0500	U	0.0516	0.0518	103	104	1	75.0-125			0.408	20
Nickel	0.0500	0.000817	0.0500	0.0522	98.4	103	1	75.0-125			4.39	20
Selenium	0.0500	0.0103	0.0577	0.0614	94.7	102	1	75.0-125			6.17	20
Sodium	5.00	149	156	155	149	119	1	75.0-125	V		0.962	20
Uranium	0.0500	0.0185	0.0697	0.0697	102	103	1	75.0-125			0.133	20
Vanadium	0.0500	0.0116	0.0622	0.0619	101	101	1	75.0-125			0.514	20

Method Blank (MB)

(MB) R3646546-1 04/26/21 08:49

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic	U		0.000180	0.00200
Barium	U		0.000381	0.0200
Calcium	U		0.0936	1.00
Chromium	U		0.00124	0.00200
Iron	U		0.0281	0.100
Lead	U		0.000849	0.00200
Manganese	U		0.000704	0.00500
Potassium	U		0.108	2.00
Selenium	U		0.000300	0.00200
Sodium	U		0.376	2.00

Laboratory Control Sample (LCS)

(LCS) R3646546-2 04/26/21 08:52

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	0.0500	0.0490	98.0	80.0-120	
Barium	0.0500	0.0468	93.7	80.0-120	
Calcium	5.00	4.97	99.5	80.0-120	
Chromium	0.0500	0.0515	103	80.0-120	
Iron	5.00	5.21	104	80.0-120	
Lead	0.0500	0.0505	101	80.0-120	
Manganese	0.0500	0.0507	101	80.0-120	
Potassium	5.00	4.76	95.2	80.0-120	
Selenium	0.0500	0.0498	99.5	80.0-120	
Sodium	5.00	5.17	103	80.0-120	

L1339378-13 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339378-13 04/26/21 08:55 • (MS) R3646546-4 04/26/21 09:02 • (MSD) R3646546-5 04/26/21 09:05

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	0.0500	U	0.0484	0.0479	96.7	95.9	1	75.0-125			0.871	20
Barium	0.0500	0.000455	0.0479	0.0482	94.9	95.4	1	75.0-125			0.463	20
Calcium	5.00	U	5.05	5.02	101	100	1	75.0-125			0.565	20
Chromium	0.0500	U	0.0511	0.0505	102	101	1	75.0-125			1.15	20
Potassium	5.00	U	4.83	4.83	96.7	96.5	1	75.0-125			0.155	20
Iron	5.00	U	5.16	4.90	103	97.9	1	75.0-125			5.30	20
Lead	0.0500	U	0.0489	0.0494	97.7	98.8	1	75.0-125			1.07	20

L1339378-13 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339378-13 04/26/21 08:55 • (MS) R3646546-4 04/26/21 09:02 • (MSD) R3646546-5 04/26/21 09:05

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Manganese	0.0500	U	0.0501	0.0497	100	99.4	1	75.0-125			0.870	20
Selenium	0.0500	U	0.0503	0.0506	101	101	1	75.0-125			0.576	20
Sodium	5.00	U	5.55	5.27	111	105	1	75.0-125			5.20	20

Method Blank (MB)

(MB) R3649114-1 05/01/21 15:37

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic,Dissolved	U		0.000180	0.00200
Barium,Dissolved	U		0.000381	0.0200
Chromium,Dissolved	U		0.00124	0.00200
Iron,Dissolved	U		0.0281	0.100
Lead,Dissolved	U		0.000849	0.00200
Manganese,Dissolved	U		0.000704	0.00500
Selenium,Dissolved	U		0.000300	0.00200

Laboratory Control Sample (LCS)

(LCS) R3649114-2 05/01/21 15:41

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic,Dissolved	0.0500	0.0476	95.2	80.0-120	
Barium,Dissolved	0.0500	0.0491	98.1	80.0-120	
Chromium,Dissolved	0.0500	0.0496	99.1	80.0-120	
Iron,Dissolved	5.00	5.14	103	80.0-120	
Lead,Dissolved	0.0500	0.0476	95.2	80.0-120	
Manganese,Dissolved	0.0500	0.0495	99.0	80.0-120	
Selenium,Dissolved	0.0500	0.0476	95.2	80.0-120	

L1341702-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1341702-01 05/01/21 15:44 • (MS) R3649114-4 05/01/21 15:51 • (MSD) R3649114-5 05/01/21 15:55

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic,Dissolved	0.0500	0.00216	0.0483	0.0503	92.3	96.2	1	75.0-125			3.96	20
Barium,Dissolved	0.0500	0.00640	0.0514	0.0546	89.9	96.4	1	75.0-125			6.08	20
Chromium,Dissolved	0.0500	U	0.0480	0.0500	96.0	100	1	75.0-125			4.14	20
Iron,Dissolved	5.00	U	5.01	5.22	100	104	1	75.0-125			4.15	20
Lead,Dissolved	0.0500	U	0.0487	0.0497	97.4	99.3	1	75.0-125			1.95	20
Manganese,Dissolved	0.0500	0.0172	0.0640	0.0668	93.5	99.2	1	75.0-125			4.33	20
Selenium,Dissolved	0.0500	U	0.0480	0.0492	96.0	98.5	1	75.0-125			2.53	20

Method Blank (MB)

(MB) R3644081-2 04/20/21 09:44

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*101*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R3644081-1 04/20/21 09:01

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.47	99.5	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*113*	*78.0-120*	

Method Blank (MB)

(MB) R3645267-2 04/18/21 13:48

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0113	0.0500
Benzene	U		0.0000941	0.00100
Bromodichloromethane	U		0.000136	0.00100
Bromoform	U		0.000129	0.00100
Bromomethane	U		0.000605	0.00500
n-Butylbenzene	U		0.000157	0.00100
sec-Butylbenzene	U		0.000125	0.00100
Carbon disulfide	U		0.0000962	0.00100
Carbon tetrachloride	U		0.000128	0.00100
Chlorobenzene	U		0.000116	0.00100
Chlorodibromomethane	U		0.000140	0.00100
Chloroethane	U		0.000192	0.00500
Chloroform	U		0.000111	0.00500
Chloromethane	U		0.000960	0.00250
1,2-Dibromoethane	U		0.000126	0.00100
1,1-Dichloroethane	U		0.000100	0.00100
1,2-Dichloroethane	U		0.0000819	0.00100
1,1-Dichloroethene	U		0.000188	0.00100
cis-1,2-Dichloroethene	U		0.000126	0.00100
trans-1,2-Dichloroethene	U		0.000149	0.00100
1,2-Dichloropropane	U		0.000149	0.00100
cis-1,3-Dichloropropene	U		0.000111	0.00100
trans-1,3-Dichloropropene	U		0.000118	0.00100
Ethylbenzene	U		0.000137	0.00100
2-Hexanone	U		0.000787	0.0100
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
Methylene Chloride	U		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100
Methyl tert-butyl ether	U		0.000101	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.0000993	0.00100
Styrene	U		0.000118	0.00100
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100
Tetrachloroethene	U		0.000300	0.00100
Toluene	U		0.000278	0.00100
1,1,1-Trichloroethane	U		0.000149	0.00100
1,1,2-Trichloroethane	U		0.000158	0.00100

Method Blank (MB)

(MB) R3645267-2 04/18/21 13:48

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Trichloroethene	U		0.000190	0.00100
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
Vinyl chloride	U		0.000234	0.00100
Xylenes, Total	U		0.000174	0.00300
o-Xylene	U		0.000174	0.00100
m&p-Xylenes	U		0.000430	0.00200
(S) Toluene-d8	*106*			*80.0-120*
(S) 4-Bromofluorobenzene	*107*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3645267-1 04/18/21 12:46

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.0250	0.0370	148	19.0-160	
Benzene	0.00500	0.00485	97.0	70.0-123	
Bromodichloromethane	0.00500	0.00486	97.2	75.0-120	
Bromoform	0.00500	0.00485	97.0	68.0-132	
Bromomethane	0.00500	0.00522	104	10.0-160	
n-Butylbenzene	0.00500	0.00501	100	73.0-125	
sec-Butylbenzene	0.00500	0.00487	97.4	75.0-125	
Carbon disulfide	0.00500	0.00466	93.2	61.0-128	
Carbon tetrachloride	0.00500	0.00465	93.0	68.0-126	
Chlorobenzene	0.00500	0.00475	95.0	80.0-121	
Chlorodibromomethane	0.00500	0.00490	98.0	77.0-125	
Chloroethane	0.00500	0.00542	108	47.0-150	
Chloroform	0.00500	0.00497	99.4	73.0-120	
Chloromethane	0.00500	0.00790	158	41.0-142	J4
1,2-Dibromoethane	0.00500	0.00481	96.2	80.0-122	
1,1-Dichloroethane	0.00500	0.00514	103	70.0-126	
1,2-Dichloroethane	0.00500	0.00473	94.6	70.0-128	
1,1-Dichloroethene	0.00500	0.00496	99.2	71.0-124	
cis-1,2-Dichloroethene	0.00500	0.00487	97.4	73.0-120	
trans-1,2-Dichloroethene	0.00500	0.00490	98.0	73.0-120	
1,2-Dichloropropane	0.00500	0.00530	106	77.0-125	
cis-1,3-Dichloropropene	0.00500	0.00495	99.0	80.0-123	
trans-1,3-Dichloropropene	0.00500	0.00472	94.4	78.0-124	

Laboratory Control Sample (LCS)

(LCS) R3645267-1 04/18/21 12:46

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ethylbenzene	0.00500	0.00481	96.2	79.0-123	
2-Hexanone	0.0250	0.0288	115	67.0-149	
Isopropylbenzene	0.00500	0.00469	93.8	76.0-127	
p-Isopropyltoluene	0.00500	0.00499	99.8	76.0-125	
2-Butanone (MEK)	0.0250	0.0276	110	44.0-160	
Methylene Chloride	0.00500	0.00496	99.2	67.0-120	
4-Methyl-2-pentanone (MIBK)	0.0250	0.0278	111	68.0-142	
Methyl tert-butyl ether	0.00500	0.00485	97.0	68.0-125	
Naphthalene	0.00500	0.00639	128	54.0-135	
n-Propylbenzene	0.00500	0.00460	92.0	77.0-124	
Styrene	0.00500	0.00474	94.8	73.0-130	
1,1,1,2-Tetrachloroethane	0.00500	0.00501	100	75.0-125	
1,1,2,2-Tetrachloroethane	0.00500	0.00481	96.2	65.0-130	
Tetrachloroethene	0.00500	0.00464	92.8	72.0-132	
Toluene	0.00500	0.00458	91.6	79.0-120	
1,1,1-Trichloroethane	0.00500	0.00487	97.4	73.0-124	
1,1,2-Trichloroethane	0.00500	0.00495	99.0	80.0-120	
Trichloroethene	0.00500	0.00515	103	78.0-124	
1,2,4-Trimethylbenzene	0.00500	0.00480	96.0	76.0-121	
1,3,5-Trimethylbenzene	0.00500	0.00463	92.6	76.0-122	
Vinyl chloride	0.00500	0.00599	120	67.0-131	
Xylenes, Total	0.0150	0.0137	91.3	79.0-123	
o-Xylene	0.00500	0.00465	93.0	80.0-122	
m&p-Xylenes	0.0100	0.00906	90.6	80.0-122	
(S) Toluene-d8			*105*	*80.0-120*	
(S) 4-Bromofluorobenzene			*106*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*101*	*70.0-130*	

Method Blank (MB)

(MB) R3645511-1 04/22/21 16:54

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) High Fraction	U		0.0247	0.100
(S) o-Terphenyl	*124*			*31.0-160*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3645511-2 04/22/21 17:14 • (LCSD) R3645511-3 04/22/21 17:35

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) High Fraction	1.50	1.65	1.69	110	113	50.0-150			2.40	20
(S) o-Terphenyl				*121*	*125*	*31.0-160*				

Method Blank (MB)

(MB) R3645400-1 04/22/21 10:58

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) High Fraction	U		0.0247	0.100
(S) o-Terphenyl	*104*			*31.0-160*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3645400-2 04/22/21 11:24 • (LCSD) R3645400-3 04/22/21 11:50

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) High Fraction	1.50	1.68	1.72	112	115	50.0-150			2.35	20
(S) o-Terphenyl				*123*	*120*	*31.0-160*				

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
V	The sample concentration is too high to evaluate accurate spike recoveries.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

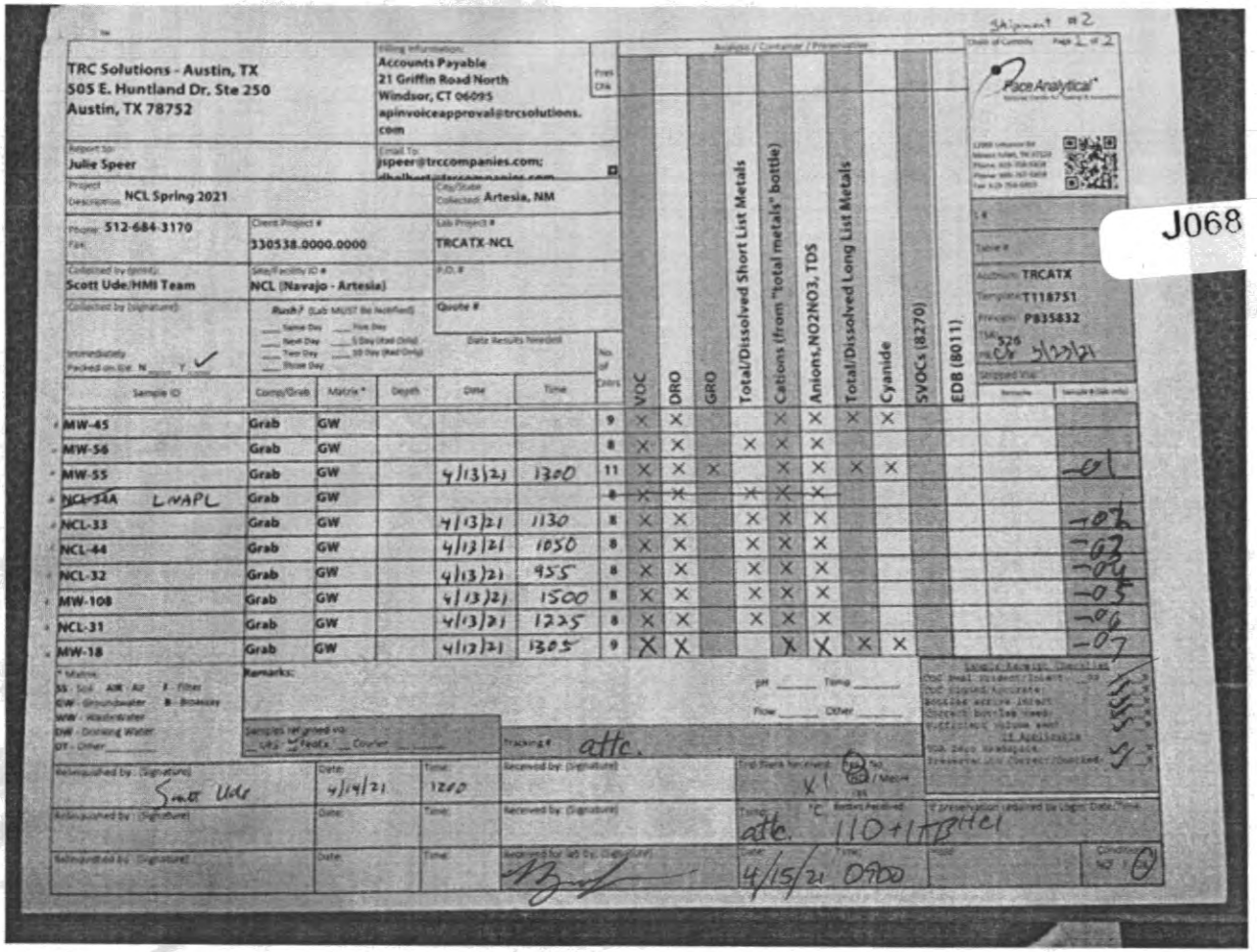
[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

L1339378

J068



TRC Solutions - Austin, TX
505 E. Huntland Dr. Ste 250
Austin, TX 78752

Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Julie Speer
jspeer@trccompanies.com;

Project Description: NCL Spring 2021
City/State Collected: Artesia, NM
Phone: 512-684-3170
Client Project #: 330538.0000.0000
Lab Project #: TRCATX-NCL
Collected by (print): Scott Ude/HMI Team
Site/Facility ID #: NCL (Navajo - Artesia)
P.O. #
Quote #
Immediately Packed on Ice: N ___ Y ✓
Rush? (Lab MUST Be Notified): ___ Same Day ___ Five Day ___ Next Day ___ 5 Day (Std Only) ___ Two Day ___ 10 Day (Std Only) ___ Three Day
Date Results Needed:

Shipment #2

Page 1 of 2

Pace Analytical

Acctnum: TRCATX
Template: T118751
Prelogin: P835832
TSR: 326
PB: CR 5/13/21

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions, NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Remarks	Sample # (lab only)
MW-45	Grab	GW				9	X	X			X	X	X	X				
MW-56	Grab	GW				8	X	X		X	X	X						
MW-55	Grab	GW		4/13/21	1300	11	X	X	X		X	X	X	X				-01
~~NCL-34A~~ LNAPL	Grab	GW				~~8~~	~~X~~	~~X~~		~~X~~	~~X~~	~~X~~						
NCL-33	Grab	GW		4/13/21	1130	8	X	X		X	X	X						-02
NCL-44	Grab	GW		4/13/21	1050	8	X	X		X	X	X						-03
NCL-32	Grab	GW		4/13/21	955	8	X	X		X	X	X						-04
MW-108	Grab	GW		4/13/21	1500	8	X	X		X	X	X						-05
NCL-31	Grab	GW		4/13/21	1225	8	X	X		X	X	X						-06
MW-18	Grab	GW		4/13/21	1305	9	X	X			X	X	X	X				-07

* Matrix: SS - Soil, AIR - Air, F - Filter, GW - Groundwater, B - Bioassay, WW - Wastewater, DW - Drinking Water, OT - Other

Remarks:

pH ____ Temp ____
Flow ____ Other ____

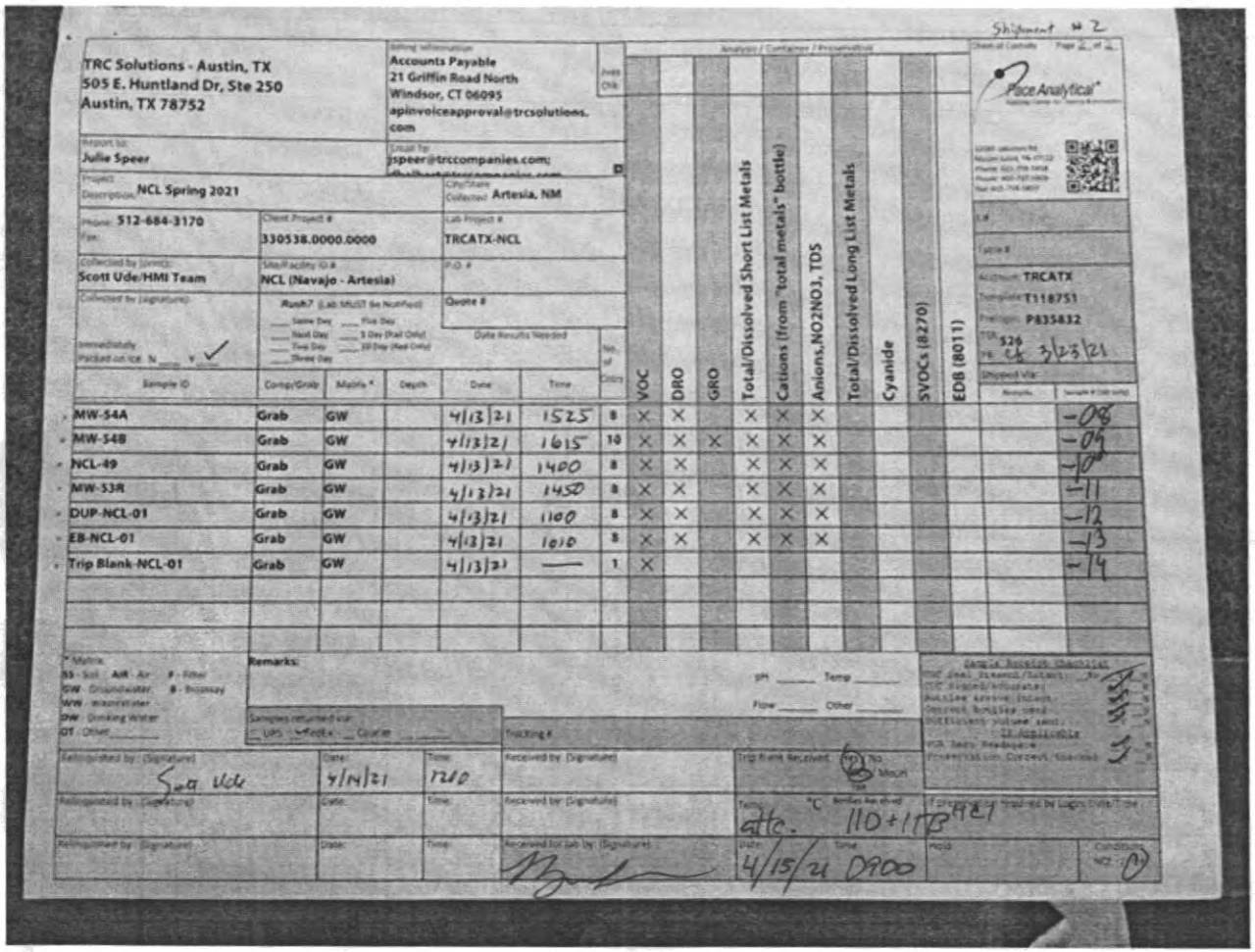
Samples returned via: ___ UPS ___ FedEx ___ Courier
Tracking # attc.

Relinquished by: (Signature) Scott Ude — Date: 4/14/21 — Time: 1200
Received by: (Signature)
Relinquished by: (Signature) — Date: — Time:
Received by: (Signature)
Relinquished by: (Signature) — Date: — Time:
Received for lab by: (Signature) — Date: 4/15/21 — Time: 0900

Sample Receipt Checklist
COC Seal Present/Intact: NP
COC Signed/Accurate: Y
Bottles Arrive Intact: Y
Correct Bottles Used: Y
Sufficient Volume Sent: Y
If Applicable
VOA Zero Headspace: Y
Preservation Correct/Checked: Y

End Blank Received: Yes / No — 1 / MeOH
Temp: attc. °C — Bottles Received: 11
If preservation required by Login: Date/Time: 10+1 HCl
Condition: NCF / OK

L1339378



TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Report to: Julie Speer
Email To: jspeer@trccompanies.com;

Project Description: NCL Spring 2021
Collected: Artesia, NM

Phone: 512-684-3170
Client Project #: 330538.0000.0000
Lab Project #: TRCATX-NCL

Collected by (print): Scott Ude/HMI Team
Site/Facility ID #: NCL (Navajo - Artesia)
P.O. #:

Collected by (signature):
Rush? (Lab MUST be Notified)
Quote #:
Date Results Needed
Immediately Packed on Ice: N ___ Y ✓

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions,NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	
MW-54A	Grab	GW		4/13/21	1525	8	X	X		X	X	X					-08
MW-54B	Grab	GW		4/13/21	1615	10	X	X	X	X	X	X					-09
NCL-49	Grab	GW		4/13/21	1400	8	X	X		X	X	X					-10
MW-53R	Grab	GW		4/13/21	1450	8	X	X		X	X	X					-11
DUP-NCL-01	Grab	GW		4/13/21	1100	8	X	X		X	X	X					-12
EB-NCL-01	Grab	GW		4/13/21	1010	8	X	X		X	X	X					-13
Trip Blank-NCL-01	Grab	GW		4/13/21	—	1	X										-14

Shipment # 2

PaceAnalytical

Account: TRCATX
Template: T118751
Prelogin: P835432
TSR: 520
PM: ck 3/23/21
Shipped Via:

* Matrix: SS - Soil, AIR - Air, F - Filter, GW - Groundwater, B - Bioassay, WW - Wastewater, DW - Drinking Water, OT - Other

Remarks:

pH ____ Temp ____
Flow ____ Other ____

Samples returned via: ___ UPS ___ FedEx ___ Courier

Tracking #:

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No, HCL / MeOH
Scott Ude	4/14/21	1200		
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4°C Bottles Received: 110+118
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4/15/21 Time: 0900

Sample Receipt Checklist
COC Seal Present/Intact: NP
COC Signed/Accurate: Y
Bottles Arrive Intact: Y
Correct Bottles Used: Y
Sufficient Volume Sent: Y
If Applicable
VOA Zero Headspace: Y
Preservation Correct/Checked: Y

Hold: Condition: NCF: 0

Thanks,

Scott C. Ude, P.G.

Hydrologic Monitoring
1654 W. Sam Houston Pkwy N.
Houston, TX 77043

Direct 713.714.1624
Cell 832.347.4521
Email ude@HMIgroundwater.com

Page 359 of 1716

FedEx Tracking #:	Corresponding Temp:
9517 5771 3003	1.8 ± .3 = 2.1 A2 OT
5770 9283	2.5 + .3 = 2.1 A2 OT
5771 3172	2.6 ± 0 = 2.6 A7 KH
2990	1.9 ± 0 = 1.9
5016 1220 5832	2.1 ± 0 = 2.1
9517 5771 3183	1.8 + .3 = 2.1 A2 OT
5770 9261	2.1 ± 0 = 2.1 A7 KH
5016 1217 2080	1.1 ± .3 = 1.4 A2 OT
1220 5843	1.8 + .3 = 2.1
9517 5770 9309	2.1 ± 0 = 2.1 A7 KH
5016 1220 5854	1.1 + .3 = 1.4 A2 OT
9517 5770 9272	0.5 ± 0 = 0.5 A7 KH
5771 3117	1.8 ± 0 = 1.8
5016 1217 2090	0.3 + .3 = 0.6 A2 OT
9159 8784 8000	1.5 ± 0 = 1.5 A7 KH

LB339378

Received by OCD: 1/9/2025 2:41:44 PM

Released to Imaging: 2/7/2025 11:08:22 AM

Shipment

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Pres Chk

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com; dholbert@trccompanies.com**

Project Description: **NCL Spring 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **330538.0000.0000**

Lab Project # **TRCATX-NCL**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **NCL (Navajo - Artesia)**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page 1 of 2

Pace Analytical® National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L #

Table #

Acctnum: **TRCATX**

Template: **T118751**

Prelogin: **P835832**

TSR: **526**

PB: **CR 3/23/21**

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions,NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Remarks	Sample # (lab only)
MW-45	Grab	GW				9	X	X			X	X	X	X				
MW-56	Grab	GW				8	X	X		X	X	X						
MW-55	Grab	GW		4/13/21	1300	11	X	X	X		X	X	X	X				
~~NCL-34A~~ LNAPL	Grab	GW				~~8~~	~~X~~	~~X~~		~~X~~	~~X~~	~~X~~						
NCL-33	Grab	GW		4/13/21	1130	8	X	X		X	X	X						
NCL-44	Grab	GW		4/13/21	1050	8	X	X		X	X	X						
NCL-32	Grab	GW		4/13/21	955	8	X	X		X	X	X						
MW-108	Grab	GW		4/13/21	1500	8	X	X		X	X	X						
NCL-31	Grab	GW		4/13/21	1225	8	X	X		X	X	X						
MW-18	Grab	GW		4/13/21	1305	9	X	X			X	X	X	X				

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP ✓Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Scott Ude	4/14/21	1200		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4.3 °C Bottles Received: 0,2,1,3,5,6
				If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4/15/21 Time: 0900
				Hold: / Condition: NCF / OK

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Pres Chk

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com; dholbert@trccompanies.com**

Project Description: **NCL Spring 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **330538.0000.0000**

Lab Project # **TRCATX-NCL**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **NCL (Navajo - Artesia)**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Chain of Custody Page 2 of 2

Pace Analytical®
National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L #

Table #

Acctnum: **TRCATX**
Template: **T118751**
Prelogin: **P835832**
TSR: **526**
PB: CK 3/23/21

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions,NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Remarks	Sample # (lab only)
MW-54A	Grab	GW		4/13/21	1525	8	X	X		X	X	X						
MW-54B	Grab	GW		4/13/21	1615	10	X	X	X	X	X	X						
NCL-49	Grab	GW		4/13/21	1400	8	X	X		X	X	X						
MW-53R	Grab	GW		4/13/21	1450	8	X	X		X	X	X						
DUP-NCL-01	Grab	GW		4/13/21	1100	8	X	X		X	X	X						
EB-NCL-01	Grab	GW		4/13/21	1010	8	X	X		X	X	X						
Trip Blank-NCL-01	Grab	GW		4/13/21	—	1	X											

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP __Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Scott Ude	4/14/21	1200		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4.3 °C Bottles Received: 0,2,3,3,2,0,5
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4/15/21 Time: 0900

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

ANALYTICAL REPORT

April 26, 2021

TRC Solutions - Austin, TX

Sample Delivery Group:	L1339412
Samples Received:	04/15/2021
Project Number:	425135.0000.0000
Description:	TEL Spring 2021
Site:	TEL - NAVAJO-ARTESIA
Report To:	Julie Speer
	505 E. Huntland Dr, Ste 250
	Austin, TX 78752

Entire Report Reviewed By:

Chris McCord
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

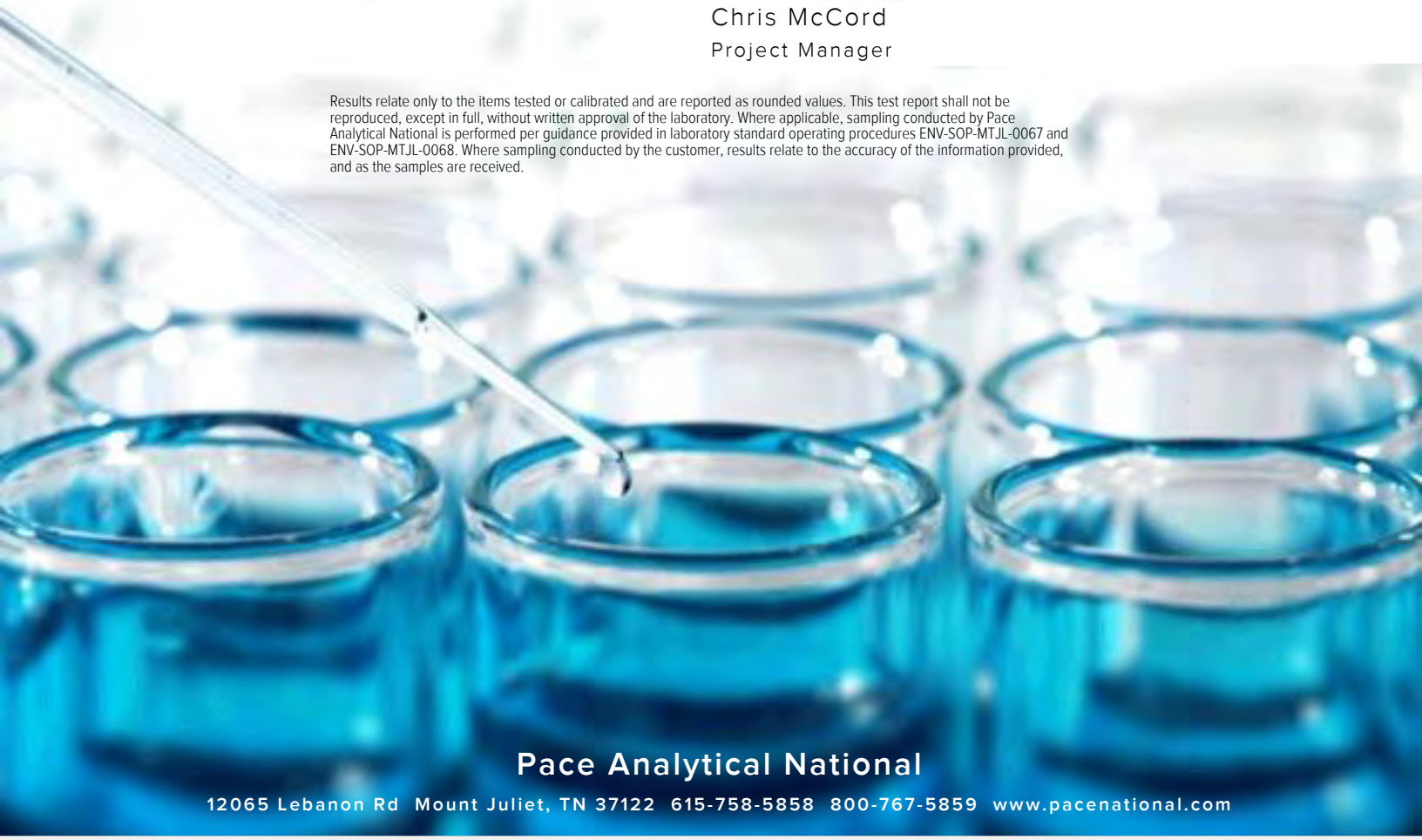


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TEL-4 L1339412-01 GW

Collected by: SU / HMI Team
Collected date/time: 04/13/21 08:40
Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1654730	1	04/19/21 18:09	04/19/21 20:11	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1653895	1	04/18/21 03:38	04/18/21 03:38	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656212	1	04/22/21 04:23	04/22/21 04:23	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656212	100	04/22/21 04:39	04/22/21 04:39	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1655935	1	04/26/21 02:46	04/26/21 13:44	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656885	1	04/26/21 00:29	04/26/21 10:31	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1657096	1	04/23/21 13:19	04/23/21 13:19	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653772	1	04/18/21 21:51	04/18/21 21:51	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656083	1	04/22/21 06:40	04/22/21 20:38	DMG	Mt. Juliet, TN

DUP-TEL-01 L1339412-02 GW

Collected by: SU / HMI Team
Collected date/time: 04/13/21 09:00
Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1654730	1	04/19/21 18:09	04/19/21 20:11	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1653895	1	04/18/21 03:43	04/18/21 03:43	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656212	1	04/22/21 04:55	04/22/21 04:55	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656212	20	04/22/21 05:11	04/22/21 05:11	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1655935	1	04/26/21 02:46	04/26/21 13:48	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656885	1	04/26/21 00:29	04/26/21 10:34	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1657096	1	04/23/21 12:57	04/23/21 12:57	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653772	1	04/18/21 20:50	04/18/21 20:50	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656083	1	04/22/21 06:40	04/22/21 21:03	DMG	Mt. Juliet, TN

EB-TEL-01 L1339412-03 GW

Collected by: SU / HMI Team
Collected date/time: 04/13/21 10:00
Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1654730	1	04/19/21 18:09	04/19/21 20:11	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1653895	1	04/18/21 03:45	04/18/21 03:45	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656212	1	04/22/21 05:27	04/22/21 05:27	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1655935	1	04/26/21 02:46	04/26/21 13:51	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656885	1	04/26/21 00:29	04/26/21 10:38	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1655063	1	04/20/21 11:33	04/20/21 11:33	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653772	1	04/18/21 16:46	04/18/21 16:46	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656083	1	04/22/21 06:40	04/23/21 16:39	JN	Mt. Juliet, TN

TRIP BLANK-TEL-01 L1339412-04 GW

Collected by: SU / HMI Team
Collected date/time: 04/13/21 00:00
Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653772	1	04/18/21 17:06	04/18/21 17:06	ADM	Mt. Juliet, TN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Chris McCord
Project Manager

Sample Delivery Group (SDG) Narrative

pH outside of method requirement.

Lab Sample ID	Project Sample ID	Method
L1339412-02	DUP-TEL-01	3511/8015

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3510		20.0	1	04/19/2021 20:11	WG1654730

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.0747	J	0.0500	0.100	1	04/18/2021 03:38	WG1653895

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	290		37.9	100	100	04/22/2021 04:39	WG1656212
Fluoride	0.829		0.0640	0.150	1	04/22/2021 04:23	WG1656212
Sulfate	1240		59.4	500	100	04/22/2021 04:39	WG1656212

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0128		0.000180	0.00200	1	04/26/2021 10:31	WG1656885
Arsenic,Dissolved	0.0112		0.000180	0.00200	1	04/26/2021 13:44	WG1655935
Barium	0.0172	J	0.000381	0.0200	1	04/26/2021 10:31	WG1656885
Barium,Dissolved	0.0163	J	0.000381	0.0200	1	04/26/2021 13:44	WG1655935
Calcium	342		0.0936	1.00	1	04/26/2021 10:31	WG1656885
Chromium	0.316		0.00124	0.00200	1	04/26/2021 10:31	WG1656885
Chromium,Dissolved	0.0402		0.00124	0.00200	1	04/26/2021 13:44	WG1655935
Iron	1.18		0.0281	0.100	1	04/26/2021 10:31	WG1656885
Iron,Dissolved	U		0.0281	0.100	1	04/26/2021 13:44	WG1655935
Lead	0.00118	J	0.000849	0.00200	1	04/26/2021 10:31	WG1656885
Lead,Dissolved	U		0.000849	0.00200	1	04/26/2021 13:44	WG1655935
Manganese	1.53		0.000704	0.00500	1	04/26/2021 10:31	WG1656885
Manganese,Dissolved	1.49		0.000704	0.00500	1	04/26/2021 13:44	WG1655935
Potassium	0.513	J	0.108	2.00	1	04/26/2021 10:31	WG1656885
Selenium	0.000534	J	0.000300	0.00200	1	04/26/2021 10:31	WG1656885
Selenium,Dissolved	0.000523	J	0.000300	0.00200	1	04/26/2021 13:44	WG1655935
Sodium	367		0.376	2.00	1	04/26/2021 10:31	WG1656885

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.834		0.0314	0.100	1	04/23/2021 13:19	WG1657096
(S) a,a,a-Trifluorotoluene(FID)	*100*			*78.0-120*		*04/23/2021 13:19*	WG1657096

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/18/2021 21:51	WG1653772
Benzene	0.000588	J	0.0000941	0.00100	1	04/18/2021 21:51	WG1653772
Bromodichloromethane	U		0.000136	0.00100	1	04/18/2021 21:51	WG1653772
Bromoform	U		0.000129	0.00100	1	04/18/2021 21:51	WG1653772
Bromomethane	U		0.000605	0.00500	1	04/18/2021 21:51	WG1653772
n-Butylbenzene	0.000428	J	0.000157	0.00100	1	04/18/2021 21:51	WG1653772
sec-Butylbenzene	0.0112		0.000125	0.00100	1	04/18/2021 21:51	WG1653772
Carbon disulfide	0.000163	J	0.0000962	0.00100	1	04/18/2021 21:51	WG1653772
Carbon tetrachloride	U		0.000128	0.00100	1	04/18/2021 21:51	WG1653772

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/18/2021 21:51	WG1653772
Chlorodibromomethane	U		0.000140	0.00100	1	04/18/2021 21:51	WG1653772
Chloroethane	U		0.000192	0.00500	1	04/18/2021 21:51	WG1653772
Chloroform	U		0.000111	0.00500	1	04/18/2021 21:51	WG1653772
Chloromethane	U	J4	0.000960	0.00250	1	04/18/2021 21:51	WG1653772
1,2-Dibromoethane	U		0.000126	0.00100	1	04/18/2021 21:51	WG1653772
1,1-Dichloroethane	U		0.000100	0.00100	1	04/18/2021 21:51	WG1653772
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/18/2021 21:51	WG1653772
1,1-Dichloroethene	U		0.000188	0.00100	1	04/18/2021 21:51	WG1653772
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/18/2021 21:51	WG1653772
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/18/2021 21:51	WG1653772
1,2-Dichloropropane	U		0.000149	0.00100	1	04/18/2021 21:51	WG1653772
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/18/2021 21:51	WG1653772
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/18/2021 21:51	WG1653772
Ethylbenzene	0.000952	J	0.000137	0.00100	1	04/18/2021 21:51	WG1653772
Isopropylbenzene	0.0120		0.000105	0.00100	1	04/18/2021 21:51	WG1653772
p-Isopropyltoluene	U		0.000120	0.00100	1	04/18/2021 21:51	WG1653772
2-Butanone (MEK)	U		0.00119	0.0100	1	04/18/2021 21:51	WG1653772
2-Hexanone	U		0.000787	0.0100	1	04/18/2021 21:51	WG1653772
Methylene Chloride	U		0.000430	0.00500	1	04/18/2021 21:51	WG1653772
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/18/2021 21:51	WG1653772
Methyl tert-butyl ether	0.0969		0.000101	0.00100	1	04/18/2021 21:51	WG1653772
Naphthalene	0.00240	J	0.00100	0.00500	1	04/18/2021 21:51	WG1653772
n-Propylbenzene	0.00243		0.0000993	0.00100	1	04/18/2021 21:51	WG1653772
Styrene	U		0.000118	0.00100	1	04/18/2021 21:51	WG1653772
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/18/2021 21:51	WG1653772
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/18/2021 21:51	WG1653772
Tetrachloroethene	U		0.000300	0.00100	1	04/18/2021 21:51	WG1653772
Toluene	0.000798	J	0.000278	0.00100	1	04/18/2021 21:51	WG1653772
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/18/2021 21:51	WG1653772
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/18/2021 21:51	WG1653772
Trichloroethene	U		0.000190	0.00100	1	04/18/2021 21:51	WG1653772
1,2,4-Trimethylbenzene	0.00286		0.000322	0.00100	1	04/18/2021 21:51	WG1653772
1,3,5-Trimethylbenzene	0.000486	J	0.000104	0.00100	1	04/18/2021 21:51	WG1653772
Vinyl chloride	U		0.000234	0.00100	1	04/18/2021 21:51	WG1653772
o-Xylene	0.000599	J	0.000174	0.00100	1	04/18/2021 21:51	WG1653772
m&p-Xylene	0.00151	J	0.000430	0.00200	1	04/18/2021 21:51	WG1653772
Xylenes, Total	0.00211	J	0.000174	0.00300	1	04/18/2021 21:51	WG1653772
(S) Toluene-d8	*103*			*80.0-120*		*04/18/2021 21:51*	WG1653772
(S) 4-Bromofluorobenzene	*108*			*77.0-126*		*04/18/2021 21:51*	WG1653772
(S) 1,2-Dichloroethane-d4	*97.9*			*70.0-130*		*04/18/2021 21:51*	WG1653772

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	6.87		0.0247	0.100	1	04/22/2021 20:38	WG1656083
(S) o-Terphenyl	*125*			*31.0-160*		*04/22/2021 20:38*	WG1656083

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3540		20.0	1	04/19/2021 20:11	WG1654730

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.0730	J	0.0500	0.100	1	04/18/2021 03:43	WG1653895

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	325		7.58	20.0	20	04/22/2021 05:11	WG1656212
Fluoride	0.825		0.0640	0.150	1	04/22/2021 04:55	WG1656212
Sulfate	1410		11.9	100	20	04/22/2021 05:11	WG1656212

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0130		0.000180	0.00200	1	04/26/2021 10:34	WG1656885
Arsenic,Dissolved	0.0113		0.000180	0.00200	1	04/26/2021 13:48	WG1655935
Barium	0.0185	J	0.000381	0.0200	1	04/26/2021 10:34	WG1656885
Barium,Dissolved	0.0174	J	0.000381	0.0200	1	04/26/2021 13:48	WG1655935
Calcium	341		0.0936	1.00	1	04/26/2021 10:34	WG1656885
Chromium	0.313		0.00124	0.00200	1	04/26/2021 10:34	WG1656885
Chromium,Dissolved	0.0372		0.00124	0.00200	1	04/26/2021 13:48	WG1655935
Iron	1.11		0.0281	0.100	1	04/26/2021 10:34	WG1656885
Iron,Dissolved	0.0401	J	0.0281	0.100	1	04/26/2021 13:48	WG1655935
Lead	0.00178	J	0.000849	0.00200	1	04/26/2021 10:34	WG1656885
Lead,Dissolved	U		0.000849	0.00200	1	04/26/2021 13:48	WG1655935
Manganese	1.49		0.000704	0.00500	1	04/26/2021 10:34	WG1656885
Manganese,Dissolved	1.49		0.000704	0.00500	1	04/26/2021 13:48	WG1655935
Potassium	0.521	J	0.108	2.00	1	04/26/2021 10:34	WG1656885
Selenium	0.000518	J	0.000300	0.00200	1	04/26/2021 10:34	WG1656885
Selenium,Dissolved	0.000460	J	0.000300	0.00200	1	04/26/2021 13:48	WG1655935
Sodium	356		0.376	2.00	1	04/26/2021 10:34	WG1656885

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.829		0.0314	0.100	1	04/23/2021 12:57	WG1657096
(S) a,a,a-Trifluorotoluene(FID)	*100*			*78.0-120*		*04/23/2021 12:57*	WG1657096

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/18/2021 20:50	WG1653772
Benzene	0.000602	J	0.0000941	0.00100	1	04/18/2021 20:50	WG1653772
Bromodichloromethane	U		0.000136	0.00100	1	04/18/2021 20:50	WG1653772
Bromoform	U		0.000129	0.00100	1	04/18/2021 20:50	WG1653772
Bromomethane	U		0.000605	0.00500	1	04/18/2021 20:50	WG1653772
n-Butylbenzene	0.000541	J	0.000157	0.00100	1	04/18/2021 20:50	WG1653772
sec-Butylbenzene	0.0107		0.000125	0.00100	1	04/18/2021 20:50	WG1653772
Carbon disulfide	U		0.0000962	0.00100	1	04/18/2021 20:50	WG1653772
Carbon tetrachloride	U		0.000128	0.00100	1	04/18/2021 20:50	WG1653772

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/18/2021 20:50	WG1653772
Chlorodibromomethane	U		0.000140	0.00100	1	04/18/2021 20:50	WG1653772
Chloroethane	U		0.000192	0.00500	1	04/18/2021 20:50	WG1653772
Chloroform	U		0.000111	0.00500	1	04/18/2021 20:50	WG1653772
Chloromethane	U	J4	0.000960	0.00250	1	04/18/2021 20:50	WG1653772
1,2-Dibromoethane	U		0.000126	0.00100	1	04/18/2021 20:50	WG1653772
1,1-Dichloroethane	U		0.000100	0.00100	1	04/18/2021 20:50	WG1653772
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/18/2021 20:50	WG1653772
1,1-Dichloroethene	U		0.000188	0.00100	1	04/18/2021 20:50	WG1653772
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/18/2021 20:50	WG1653772
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/18/2021 20:50	WG1653772
1,2-Dichloropropane	U		0.000149	0.00100	1	04/18/2021 20:50	WG1653772
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/18/2021 20:50	WG1653772
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/18/2021 20:50	WG1653772
Ethylbenzene	0.00106		0.000137	0.00100	1	04/18/2021 20:50	WG1653772
Isopropylbenzene	0.0112		0.000105	0.00100	1	04/18/2021 20:50	WG1653772
p-Isopropyltoluene	U		0.000120	0.00100	1	04/18/2021 20:50	WG1653772
2-Butanone (MEK)	U		0.00119	0.0100	1	04/18/2021 20:50	WG1653772
2-Hexanone	U		0.000787	0.0100	1	04/18/2021 20:50	WG1653772
Methylene Chloride	U		0.000430	0.00500	1	04/18/2021 20:50	WG1653772
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/18/2021 20:50	WG1653772
Methyl tert-butyl ether	0.0942		0.000101	0.00100	1	04/18/2021 20:50	WG1653772
Naphthalene	0.00236	J	0.00100	0.00500	1	04/18/2021 20:50	WG1653772
n-Propylbenzene	0.00328		0.0000993	0.00100	1	04/18/2021 20:50	WG1653772
Styrene	U		0.000118	0.00100	1	04/18/2021 20:50	WG1653772
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/18/2021 20:50	WG1653772
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/18/2021 20:50	WG1653772
Tetrachloroethene	U		0.000300	0.00100	1	04/18/2021 20:50	WG1653772
Toluene	0.000757	J	0.000278	0.00100	1	04/18/2021 20:50	WG1653772
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/18/2021 20:50	WG1653772
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/18/2021 20:50	WG1653772
Trichloroethene	U		0.000190	0.00100	1	04/18/2021 20:50	WG1653772
1,2,4-Trimethylbenzene	0.00291		0.000322	0.00100	1	04/18/2021 20:50	WG1653772
1,3,5-Trimethylbenzene	0.000488	J	0.000104	0.00100	1	04/18/2021 20:50	WG1653772
Vinyl chloride	U		0.000234	0.00100	1	04/18/2021 20:50	WG1653772
o-Xylene	0.000592	J	0.000174	0.00100	1	04/18/2021 20:50	WG1653772
m&p-Xylene	0.00150	J	0.000430	0.00200	1	04/18/2021 20:50	WG1653772
Xylenes, Total	0.00209	J	0.000174	0.00300	1	04/18/2021 20:50	WG1653772
(S) Toluene-d8	*102*			*80.0-120*		*04/18/2021 20:50*	WG1653772
(S) 4-Bromofluorobenzene	*107*			*77.0-126*		*04/18/2021 20:50*	WG1653772
(S) 1,2-Dichloroethane-d4	*99.4*			*70.0-130*		*04/18/2021 20:50*	WG1653772

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	6.87		0.0247	0.100	1	04/22/2021 21:03	WG1656083
(S) o-Terphenyl	*131*			*31.0-160*		*04/22/2021 21:03*	WG1656083

EB-TEL-01
Collected date/time: 04/13/21 10:00
L1339412

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	ND		10.0	1	04/19/2021 20:11	WG1654730

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.104		0.0500	0.100	1	04/18/2021 03:45	WG1653895

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	U		0.379	1.00	1	04/22/2021 05:27	WG1656212
Fluoride	U		0.0640	0.150	1	04/22/2021 05:27	WG1656212
Sulfate	U		0.594	5.00	1	04/22/2021 05:27	WG1656212

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	U		0.000180	0.00200	1	04/26/2021 10:38	WG1656885
Arsenic,Dissolved	U		0.000180	0.00200	1	04/26/2021 13:51	WG1655935
Barium	0.000710	J	0.000381	0.0200	1	04/26/2021 10:38	WG1656885
Barium,Dissolved	0.000588	J	0.000381	0.0200	1	04/26/2021 13:51	WG1655935
Calcium	0.128	J	0.0936	1.00	1	04/26/2021 10:38	WG1656885
Chromium	U		0.00124	0.00200	1	04/26/2021 10:38	WG1656885
Chromium,Dissolved	U		0.00124	0.00200	1	04/26/2021 13:51	WG1655935
Iron	U		0.0281	0.100	1	04/26/2021 10:38	WG1656885
Iron,Dissolved	U		0.0281	0.100	1	04/26/2021 13:51	WG1655935
Lead	0.00101	J	0.000849	0.00200	1	04/26/2021 10:38	WG1656885
Lead,Dissolved	U		0.000849	0.00200	1	04/26/2021 13:51	WG1655935
Manganese	0.00106	J	0.000704	0.00500	1	04/26/2021 10:38	WG1656885
Manganese,Dissolved	0.00151	J	0.000704	0.00500	1	04/26/2021 13:51	WG1655935
Potassium	U		0.108	2.00	1	04/26/2021 10:38	WG1656885
Selenium	U		0.000300	0.00200	1	04/26/2021 10:38	WG1656885
Selenium,Dissolved	U		0.000300	0.00200	1	04/26/2021 13:51	WG1655935
Sodium	U		0.376	2.00	1	04/26/2021 10:38	WG1656885

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/20/2021 11:33	WG1655063
(S) a,a,a-Trifluorotoluene(FID)	*102*			*78.0-120*		*04/20/2021 11:33*	WG1655063

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0113	0.0500	1	04/18/2021 16:46	WG1653772
Benzene	U		0.0000941	0.00100	1	04/18/2021 16:46	WG1653772
Bromodichloromethane	U		0.000136	0.00100	1	04/18/2021 16:46	WG1653772
Bromoform	U		0.000129	0.00100	1	04/18/2021 16:46	WG1653772
Bromomethane	U		0.000605	0.00500	1	04/18/2021 16:46	WG1653772
n-Butylbenzene	U		0.000157	0.00100	1	04/18/2021 16:46	WG1653772
sec-Butylbenzene	U		0.000125	0.00100	1	04/18/2021 16:46	WG1653772
Carbon disulfide	U		0.0000962	0.00100	1	04/18/2021 16:46	WG1653772
Carbon tetrachloride	U		0.000128	0.00100	1	04/18/2021 16:46	WG1653772

EB-TEL-01
Collected date/time: 04/13/21 10:00
L1339412

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/18/2021 16:46	WG1653772
Chlorodibromomethane	U		0.000140	0.00100	1	04/18/2021 16:46	WG1653772
Chloroethane	U		0.000192	0.00500	1	04/18/2021 16:46	WG1653772
Chloroform	U		0.000111	0.00500	1	04/18/2021 16:46	WG1653772
Chloromethane	U	J4	0.000960	0.00250	1	04/18/2021 16:46	WG1653772
1,2-Dibromoethane	U		0.000126	0.00100	1	04/18/2021 16:46	WG1653772
1,1-Dichloroethane	U		0.000100	0.00100	1	04/18/2021 16:46	WG1653772
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/18/2021 16:46	WG1653772
1,1-Dichloroethene	U		0.000188	0.00100	1	04/18/2021 16:46	WG1653772
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/18/2021 16:46	WG1653772
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/18/2021 16:46	WG1653772
1,2-Dichloropropane	U		0.000149	0.00100	1	04/18/2021 16:46	WG1653772
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/18/2021 16:46	WG1653772
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/18/2021 16:46	WG1653772
Ethylbenzene	U		0.000137	0.00100	1	04/18/2021 16:46	WG1653772
Isopropylbenzene	U		0.000105	0.00100	1	04/18/2021 16:46	WG1653772
p-Isopropyltoluene	U		0.000120	0.00100	1	04/18/2021 16:46	WG1653772
2-Butanone (MEK)	U		0.00119	0.0100	1	04/18/2021 16:46	WG1653772
2-Hexanone	U		0.000787	0.0100	1	04/18/2021 16:46	WG1653772
Methylene Chloride	U		0.000430	0.00500	1	04/18/2021 16:46	WG1653772
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/18/2021 16:46	WG1653772
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/18/2021 16:46	WG1653772
Naphthalene	U		0.00100	0.00500	1	04/18/2021 16:46	WG1653772
n-Propylbenzene	U		0.0000993	0.00100	1	04/18/2021 16:46	WG1653772
Styrene	U		0.000118	0.00100	1	04/18/2021 16:46	WG1653772
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/18/2021 16:46	WG1653772
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/18/2021 16:46	WG1653772
Tetrachloroethene	U		0.000300	0.00100	1	04/18/2021 16:46	WG1653772
Toluene	U		0.000278	0.00100	1	04/18/2021 16:46	WG1653772
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/18/2021 16:46	WG1653772
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/18/2021 16:46	WG1653772
Trichloroethene	U		0.000190	0.00100	1	04/18/2021 16:46	WG1653772
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/18/2021 16:46	WG1653772
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/18/2021 16:46	WG1653772
Vinyl chloride	U		0.000234	0.00100	1	04/18/2021 16:46	WG1653772
o-Xylene	U		0.000174	0.00100	1	04/18/2021 16:46	WG1653772
m&p-Xylene	U		0.000430	0.00200	1	04/18/2021 16:46	WG1653772
Xylenes, Total	U		0.000174	0.00300	1	04/18/2021 16:46	WG1653772
(S) Toluene-d8	*108*			*80.0-120*		*04/18/2021 16:46*	WG1653772
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*04/18/2021 16:46*	WG1653772
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*04/18/2021 16:46*	WG1653772

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	U		0.0247	0.100	1	04/23/2021 16:39	WG1656083
(S) o-Terphenyl	*90.5*			*31.0-160*		*04/23/2021 16:39*	WG1656083

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/18/2021 17:06	WG1653772
Benzene	U		0.0000941	0.00100	1	04/18/2021 17:06	WG1653772
Bromodichloromethane	U		0.000136	0.00100	1	04/18/2021 17:06	WG1653772
Bromoform	U		0.000129	0.00100	1	04/18/2021 17:06	WG1653772
Bromomethane	U		0.000605	0.00500	1	04/18/2021 17:06	WG1653772
n-Butylbenzene	U		0.000157	0.00100	1	04/18/2021 17:06	WG1653772
sec-Butylbenzene	U		0.000125	0.00100	1	04/18/2021 17:06	WG1653772
Carbon disulfide	U		0.0000962	0.00100	1	04/18/2021 17:06	WG1653772
Carbon tetrachloride	U		0.000128	0.00100	1	04/18/2021 17:06	WG1653772
Chlorobenzene	U		0.000116	0.00100	1	04/18/2021 17:06	WG1653772
Chlorodibromomethane	U		0.000140	0.00100	1	04/18/2021 17:06	WG1653772
Chloroethane	U		0.000192	0.00500	1	04/18/2021 17:06	WG1653772
Chloroform	U		0.000111	0.00500	1	04/18/2021 17:06	WG1653772
Chloromethane	U	J4	0.000960	0.00250	1	04/18/2021 17:06	WG1653772
1,2-Dibromoethane	U		0.000126	0.00100	1	04/18/2021 17:06	WG1653772
1,1-Dichloroethane	U		0.000100	0.00100	1	04/18/2021 17:06	WG1653772
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/18/2021 17:06	WG1653772
1,1-Dichloroethene	U		0.000188	0.00100	1	04/18/2021 17:06	WG1653772
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/18/2021 17:06	WG1653772
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/18/2021 17:06	WG1653772
1,2-Dichloropropane	U		0.000149	0.00100	1	04/18/2021 17:06	WG1653772
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/18/2021 17:06	WG1653772
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/18/2021 17:06	WG1653772
Ethylbenzene	U		0.000137	0.00100	1	04/18/2021 17:06	WG1653772
Isopropylbenzene	U		0.000105	0.00100	1	04/18/2021 17:06	WG1653772
p-Isopropyltoluene	U		0.000120	0.00100	1	04/18/2021 17:06	WG1653772
2-Butanone (MEK)	U		0.00119	0.0100	1	04/18/2021 17:06	WG1653772
2-Hexanone	U		0.000787	0.0100	1	04/18/2021 17:06	WG1653772
Methylene Chloride	U		0.000430	0.00500	1	04/18/2021 17:06	WG1653772
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/18/2021 17:06	WG1653772
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/18/2021 17:06	WG1653772
Naphthalene	U		0.00100	0.00500	1	04/18/2021 17:06	WG1653772
n-Propylbenzene	U		0.0000993	0.00100	1	04/18/2021 17:06	WG1653772
Styrene	U		0.000118	0.00100	1	04/18/2021 17:06	WG1653772
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/18/2021 17:06	WG1653772
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/18/2021 17:06	WG1653772
Tetrachloroethene	U		0.000300	0.00100	1	04/18/2021 17:06	WG1653772
Toluene	U		0.000278	0.00100	1	04/18/2021 17:06	WG1653772
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/18/2021 17:06	WG1653772
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/18/2021 17:06	WG1653772
Trichloroethene	U		0.000190	0.00100	1	04/18/2021 17:06	WG1653772
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/18/2021 17:06	WG1653772
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/18/2021 17:06	WG1653772
Vinyl chloride	U		0.000234	0.00100	1	04/18/2021 17:06	WG1653772
o-Xylene	U		0.000174	0.00100	1	04/18/2021 17:06	WG1653772
m&p-Xylene	U		0.000430	0.00200	1	04/18/2021 17:06	WG1653772
Xylenes, Total	U		0.000174	0.00300	1	04/18/2021 17:06	WG1653772
(S) Toluene-d8	*105*			*80.0-120*		*04/18/2021 17:06*	WG1653772
(S) 4-Bromofluorobenzene	*106*			*77.0-126*		*04/18/2021 17:06*	WG1653772
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*04/18/2021 17:06*	WG1653772

Method Blank (MB)

(MB) R3644791-1 04/19/21 20:11

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1339412-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1339412-01 04/19/21 20:11 • (DUP) R3644791-3 04/19/21 20:11

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	3510	3540	1	1.02		5

L1339469-15 Original Sample (OS) • Duplicate (DUP)

(OS) L1339469-15 04/19/21 20:11 • (DUP) R3644791-4 04/19/21 20:11

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	3260	3340	1	2.24		5

Laboratory Control Sample (LCS)

(LCS) R3644791-2 04/19/21 20:11

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8830	100	77.4-123	

Method Blank (MB)

(MB) R3643147-1 04/18/21 03:27

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Nitrate-Nitrite	U		0.0500	0.100

L1338951-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1338951-02 04/18/21 04:24 • (DUP) R3643147-3 04/18/21 03:32

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate-Nitrite	2.39	2.38	1	0.419		20

L1339469-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1339469-10 04/18/21 04:07 • (DUP) R3643147-6 04/18/21 04:08

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate-Nitrite	7.85	7.75	5	1.28		20

Laboratory Control Sample (LCS)

(LCS) R3643147-2 04/18/21 03:28

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Nitrate-Nitrite	2.50	2.47	98.8	90.0-110	

L1339375-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339375-02 04/18/21 03:34 • (MS) R3643147-4 04/18/21 03:35 • (MSD) R3643147-5 04/18/21 03:37

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Nitrate-Nitrite	2.50	10.7	14.2	13.5	142	112	5	90.0-110	V	V	5.41	20

L1339469-11 Original Sample (OS) • Matrix Spike (MS)

(OS) L1339469-11 04/18/21 04:10 • (MS) R3643147-7 04/18/21 04:11

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Nitrate-Nitrite	2.50	16.1	18.2	84.0	10	90.0-110	V

Method Blank (MB)

(MB) R3645311-1 04/22/21 01:13

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.379	1.00
Fluoride	U		0.0640	0.150
Sulfate	U		0.594	5.00

L1339378-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1339378-13 04/22/21 02:48 • (DUP) R3645311-3 04/22/21 03:04

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	U	U	1	0.000		15
Fluoride	U	U	1	0.000		15
Sulfate	U	U	1	0.000		15

L1339412-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1339412-03 04/22/21 05:27 • (DUP) R3645311-6 04/22/21 13:56

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	U	U	1	0.000		15
Fluoride	U	U	1	0.000		15
Sulfate	U	U	1	0.000		15

Laboratory Control Sample (LCS)

(LCS) R3645311-2 04/22/21 01:28

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	40.7	102	80.0-120	
Fluoride	8.00	8.12	101	80.0-120	
Sulfate	40.0	41.1	103	80.0-120	

L1339378-13 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339378-13 04/22/21 02:48 • (MS) R3645311-4 04/22/21 03:19 • (MSD) R3645311-5 04/22/21 03:35

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50.0	U	51.7	51.8	103	104	1	80.0-120			0.260	15
Fluoride	5.00	U	5.14	5.18	103	104	1	80.0-120			0.717	15
Sulfate	50.0	U	51.2	51.2	102	102	1	80.0-120			0.0166	15

L1339412-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L1339412-03 04/22/21 05:27 • (MS) R3645311-7 04/22/21 14:12

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	U	50.7	101	1	80.0-120	
Fluoride	5.00	U	5.04	101	1	80.0-120	
Sulfate	50.0	U	50.2	100	1	80.0-120	

Method Blank (MB)

(MB) R3646692-1 04/26/21 11:41

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic,Dissolved	U		0.000180	0.00200
Barium,Dissolved	U		0.000381	0.0200
Chromium,Dissolved	U		0.00124	0.00200
Iron,Dissolved	U		0.0281	0.100
Lead,Dissolved	U		0.000849	0.00200
Manganese,Dissolved	U		0.000704	0.00500
Selenium,Dissolved	U		0.000300	0.00200

Laboratory Control Sample (LCS)

(LCS) R3646692-2 04/26/21 11:44

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic,Dissolved	0.0500	0.0484	96.7	80.0-120	
Barium,Dissolved	0.0500	0.0473	94.7	80.0-120	
Chromium,Dissolved	0.0500	0.0521	104	80.0-120	
Iron,Dissolved	5.00	5.05	101	80.0-120	
Lead,Dissolved	0.0500	0.0476	95.2	80.0-120	
Manganese,Dissolved	0.0500	0.0507	101	80.0-120	
Selenium,Dissolved	0.0500	0.0498	99.7	80.0-120	

L1339592-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339592-02 04/26/21 11:48 • (MS) R3646692-4 04/26/21 11:54 • (MSD) R3646692-5 04/26/21 11:57

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic,Dissolved	0.0500	0.00609	0.0539	0.0544	95.7	96.7	1	75.0-125			0.870	20
Barium,Dissolved	0.0500	0.0392	0.0868	0.0866	95.2	94.6	1	75.0-125			0.311	20
Chromium,Dissolved	0.0500	U	0.0505	0.0502	101	100	1	75.0-125			0.687	20
Iron,Dissolved	5.00	1.49	6.39	6.36	98.0	97.3	1	75.0-125			0.540	20
Lead,Dissolved	0.0500	U	0.0496	0.0488	99.3	97.6	1	75.0-125			1.73	20
Manganese,Dissolved	0.0500	0.569	0.604	0.613	70.4	88.5	1	75.0-125	V		1.49	20
Selenium,Dissolved	0.0500	U	0.0504	0.0508	101	102	1	75.0-125			0.743	20

Method Blank (MB)

(MB) R3646546-1 04/26/21 08:49

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic	U		0.000180	0.00200
Barium	U		0.000381	0.0200
Calcium	U		0.0936	1.00
Chromium	U		0.00124	0.00200
Iron	U		0.0281	0.100
Lead	U		0.000849	0.00200
Manganese	U		0.000704	0.00500
Potassium	U		0.108	2.00
Selenium	U		0.000300	0.00200
Sodium	U		0.376	2.00

Laboratory Control Sample (LCS)

(LCS) R3646546-2 04/26/21 08:52

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	0.0500	0.0490	98.0	80.0-120	
Barium	0.0500	0.0468	93.7	80.0-120	
Calcium	5.00	4.97	99.5	80.0-120	
Chromium	0.0500	0.0515	103	80.0-120	
Iron	5.00	5.21	104	80.0-120	
Lead	0.0500	0.0505	101	80.0-120	
Manganese	0.0500	0.0507	101	80.0-120	
Potassium	5.00	4.76	95.2	80.0-120	
Selenium	0.0500	0.0498	99.5	80.0-120	
Sodium	5.00	5.17	103	80.0-120	

L1339378-13 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339378-13 04/26/21 08:55 • (MS) R3646546-4 04/26/21 09:02 • (MSD) R3646546-5 04/26/21 09:05

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	0.0500	U	0.0484	0.0479	96.7	95.9	1	75.0-125			0.871	20
Barium	0.0500	0.000455	0.0479	0.0482	94.9	95.4	1	75.0-125			0.463	20
Calcium	5.00	U	5.05	5.02	101	100	1	75.0-125			0.565	20
Chromium	0.0500	U	0.0511	0.0505	102	101	1	75.0-125			1.15	20
Potassium	5.00	U	4.83	4.83	96.7	96.5	1	75.0-125			0.155	20
Iron	5.00	U	5.16	4.90	103	97.9	1	75.0-125			5.30	20
Lead	0.0500	U	0.0489	0.0494	97.7	98.8	1	75.0-125			1.07	20

L1339378-13 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339378-13 04/26/21 08:55 • (MS) R3646546-4 04/26/21 09:02 • (MSD) R3646546-5 04/26/21 09:05

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Manganese	0.0500	U	0.0501	0.0497	100	99.4	1	75.0-125			0.870	20
Selenium	0.0500	U	0.0503	0.0506	101	101	1	75.0-125			0.576	20
Sodium	5.00	U	5.55	5.27	111	105	1	75.0-125			5.20	20

Method Blank (MB)

(MB) R3644081-2 04/20/21 09:44

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*101*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R3644081-1 04/20/21 09:01

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.47	99.5	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*113*	*78.0-120*	

Method Blank (MB)

(MB) R3645785-2 04/23/21 09:48

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*99.0*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R3645785-1 04/23/21 08:14

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	4.69	85.3	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*105*	*78.0-120*	

Method Blank (MB)

(MB) R3645267-2 04/18/21 13:48

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0113	0.0500
Benzene	U		0.0000941	0.00100
Bromodichloromethane	U		0.000136	0.00100
Bromoform	U		0.000129	0.00100
Bromomethane	U		0.000605	0.00500
n-Butylbenzene	U		0.000157	0.00100
sec-Butylbenzene	U		0.000125	0.00100
Carbon disulfide	U		0.0000962	0.00100
Carbon tetrachloride	U		0.000128	0.00100
Chlorobenzene	U		0.000116	0.00100
Chlorodibromomethane	U		0.000140	0.00100
Chloroethane	U		0.000192	0.00500
Chloroform	U		0.000111	0.00500
Chloromethane	U		0.000960	0.00250
1,2-Dibromoethane	U		0.000126	0.00100
1,1-Dichloroethane	U		0.000100	0.00100
1,2-Dichloroethane	U		0.0000819	0.00100
1,1-Dichloroethene	U		0.000188	0.00100
cis-1,2-Dichloroethene	U		0.000126	0.00100
trans-1,2-Dichloroethene	U		0.000149	0.00100
1,2-Dichloropropane	U		0.000149	0.00100
cis-1,3-Dichloropropene	U		0.000111	0.00100
trans-1,3-Dichloropropene	U		0.000118	0.00100
Ethylbenzene	U		0.000137	0.00100
2-Hexanone	U		0.000787	0.0100
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
Methylene Chloride	U		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100
Methyl tert-butyl ether	U		0.000101	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.0000993	0.00100
Styrene	U		0.000118	0.00100
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100
Tetrachloroethene	U		0.000300	0.00100
Toluene	U		0.000278	0.00100
1,1,1-Trichloroethane	U		0.000149	0.00100
1,1,2-Trichloroethane	U		0.000158	0.00100

Method Blank (MB)

(MB) R3645267-2 04/18/21 13:48

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Trichloroethene	U		0.000190	0.00100
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
Vinyl chloride	U		0.000234	0.00100
Xylenes, Total	U		0.000174	0.00300
o-Xylene	U		0.000174	0.00100
m&p-Xylenes	U		0.000430	0.00200
(S) Toluene-d8	*106*			*80.0-120*
(S) 4-Bromofluorobenzene	*107*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3645267-1 04/18/21 12:46

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.0250	0.0370	148	19.0-160	
Benzene	0.00500	0.00485	97.0	70.0-123	
Bromodichloromethane	0.00500	0.00486	97.2	75.0-120	
Bromoform	0.00500	0.00485	97.0	68.0-132	
Bromomethane	0.00500	0.00522	104	10.0-160	
n-Butylbenzene	0.00500	0.00501	100	73.0-125	
sec-Butylbenzene	0.00500	0.00487	97.4	75.0-125	
Carbon disulfide	0.00500	0.00466	93.2	61.0-128	
Carbon tetrachloride	0.00500	0.00465	93.0	68.0-126	
Chlorobenzene	0.00500	0.00475	95.0	80.0-121	
Chlorodibromomethane	0.00500	0.00490	98.0	77.0-125	
Chloroethane	0.00500	0.00542	108	47.0-150	
Chloroform	0.00500	0.00497	99.4	73.0-120	
Chloromethane	0.00500	0.00790	158	41.0-142	J4
1,2-Dibromoethane	0.00500	0.00481	96.2	80.0-122	
1,1-Dichloroethane	0.00500	0.00514	103	70.0-126	
1,2-Dichloroethane	0.00500	0.00473	94.6	70.0-128	
1,1-Dichloroethene	0.00500	0.00496	99.2	71.0-124	
cis-1,2-Dichloroethene	0.00500	0.00487	97.4	73.0-120	
trans-1,2-Dichloroethene	0.00500	0.00490	98.0	73.0-120	
1,2-Dichloropropane	0.00500	0.00530	106	77.0-125	
cis-1,3-Dichloropropene	0.00500	0.00495	99.0	80.0-123	
trans-1,3-Dichloropropene	0.00500	0.00472	94.4	78.0-124	

Laboratory Control Sample (LCS)

(LCS) R3645267-1 04/18/21 12:46

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ethylbenzene	0.00500	0.00481	96.2	79.0-123	
2-Hexanone	0.0250	0.0288	115	67.0-149	
Isopropylbenzene	0.00500	0.00469	93.8	76.0-127	
p-Isopropyltoluene	0.00500	0.00499	99.8	76.0-125	
2-Butanone (MEK)	0.0250	0.0276	110	44.0-160	
Methylene Chloride	0.00500	0.00496	99.2	67.0-120	
4-Methyl-2-pentanone (MIBK)	0.0250	0.0278	111	68.0-142	
Methyl tert-butyl ether	0.00500	0.00485	97.0	68.0-125	
Naphthalene	0.00500	0.00639	128	54.0-135	
n-Propylbenzene	0.00500	0.00460	92.0	77.0-124	
Styrene	0.00500	0.00474	94.8	73.0-130	
1,1,1,2-Tetrachloroethane	0.00500	0.00501	100	75.0-125	
1,1,2,2-Tetrachloroethane	0.00500	0.00481	96.2	65.0-130	
Tetrachloroethene	0.00500	0.00464	92.8	72.0-132	
Toluene	0.00500	0.00458	91.6	79.0-120	
1,1,1-Trichloroethane	0.00500	0.00487	97.4	73.0-124	
1,1,2-Trichloroethane	0.00500	0.00495	99.0	80.0-120	
Trichloroethene	0.00500	0.00515	103	78.0-124	
1,2,4-Trimethylbenzene	0.00500	0.00480	96.0	76.0-121	
1,3,5-Trimethylbenzene	0.00500	0.00463	92.6	76.0-122	
Vinyl chloride	0.00500	0.00599	120	67.0-131	
Xylenes, Total	0.0150	0.0137	91.3	79.0-123	
o-Xylene	0.00500	0.00465	93.0	80.0-122	
m&p-Xylenes	0.0100	0.00906	90.6	80.0-122	
(S) Toluene-d8			*105*	*80.0-120*	
(S) 4-Bromofluorobenzene			*106*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*101*	*70.0-130*	

Method Blank (MB)

(MB) R3645400-1 04/22/21 10:58

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) High Fraction	U		0.0247	0.100
(S) o-Terphenyl	*104*			*31.0-160*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3645400-2 04/22/21 11:24 • (LCSD) R3645400-3 04/22/21 11:50

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) High Fraction	1.50	1.68	1.72	112	115	50.0-150			2.35	20
(S) o-Terphenyl				*123*	*120*	*31.0-160*				

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J4	The associated batch QC was outside the established quality control range for accuracy.
V	The sample concentration is too high to evaluate accurate spike recoveries.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

L1339412

Shipment #2

1058

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Report to: Julie Speer
Email To: jspeer@trccompanies.com;

Project Description: TEL Spring 2021
City/State Collected: Artesia, NM
Phone: 512-684-3170
Client Project #: 330538.0000.0000
Lab Project #: TRCATX-TEL
Collected by (print): Scott Ude/HMI Team
Site/Facility ID #: TEL (Navajo - Artesia)
P.O. #
Collected by (signature):
Rush? (Lab MUST Be Notified) Quote #
Immediately Packed on Ice: N ___ Y ✓
Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions, NO2/NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Remarks	Sample # (lab only)
TEL-4	Grab	GW		4/13/21	840	10	X	X	X	X	X	X						-01
~~TEL-3~~ LNAPL	Grab	GW				10	X	X	X	X	X	X						
~~TEL-2~~ LNAPL	Grab	GW				10	X	X	X	X	X	X						
~~TEL-1~~ LNAPL	Grab	GW				10	X	X	X	X	X	X						
MW-49	Grab	GW				11	X	X	X		X	X	X	X				
DUP-TEL-01	Grab	GW		4/13/21	900	10	X	X	X	X	X	X						-02
EB-TEL-01	Grab	GW		4/13/21	1000	10	X	X	X	X	X	X						-03
Trip Blank-TEL-01	Grab	GW		4/13/21	—	1	X											-04

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

Pace Analytical

Address: TRCATX
Template: T116731
Prelogin: P835834
TSR: 326
PB: LK 3/23/21
Shipped Via:

* Matrix: SS - Soil, AIR - Air, F - Filter, GW - Groundwater, B - Bioassay, WW - Wastewater, DW - Drinking Water, OT - Other

Remarks: Dissolved metals field-filtered.

pH ____ Temp ____
Flow ____ Other ____

Samples returned via: UPS FedEx Courier
Tracking # attc.

Sample Receipt Checklist
COC Seal Present/Intact: Y
COC Signed/Accurate: Y
Bottles arrive intact: Y
Correct bottles used: Y
Sufficient volume sent: Y
If Applicable
VOA Zero Headspace: Y
Preservation Correct/Checked: Y

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/14/21	1200	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: Yes / No, HCL / MeOH / TSP / Other: X1
Temp: attc. °C Bottles Received: 30+1TB #4
If preservation required by Login: Date/Time
Hold:
Condition: NCF

Date: 4/15/21 Time: 0900

5

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LB339412

FedEx Tracking #:	Corresponding Temp:
9517 5771 3003	1.8 +.3 = 2.1 A2 OT
5770 9283	2.5 +.3 = 2.1 A2 OT
5771 3172	2.6 ±0 = 2.6 A7 KH
2990	1.9 ±0 = 1.9
5016 1220 5832	2.1 ±0 = 2.1
9517 5771 3183	1.8 +.3 = 2.1 A2 OT
5770 9261	2.1 ±0 = 2.1 A7 KH
5016 1217 2080	1.1 +.3 = 1.4 A2 OT
1220 5843	1.8 +.3 = 2.1
9517 5770 9309	2.1 ±0 = 2.1 A7 KH
5016 1220 5854	1.1 +.3 = 1.4 A2 OT
9517 5770 9272	0.5 ±0 = 0.5 A7 KH
5771 3117	1.8 ±0 = 1.8
016 1217 2090	0.3 +.3 = 0.6 A2 OT
159 8784 8000	1.5 ±0 = 1.5 A7 KH

Received by OCD: 1/9/2025 2:41:44 PM

Released to Imaging: 2/7/2025 11:08:22 AM

Received by OCD: 1/9/2025 2:41:44 PM

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Pres Chk

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com; dbelbert@trccompanies.com**

Project Description: **TEL Spring 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **330538.0000.0000**

Lab Project # **TRCATX-TEL**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **TEL (Navajo - Artesia)**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ____ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Chain of Custody Page 1 of 1

Pace Analytical® National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L #

Table #

Acctnum: **TRCATX**
Template: **T118731**
Prelogin: **P835834**
TSR: **526**
PB: cs 3/23/21

Shipped Via:

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions,NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Remarks	Sample # (lab only)
TEL-4	Grab	GW		4/13/21	840	10	X	X	X	X	X	X						
~~TEL-3~~ LNAPL	Grab	GW				10	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~						
~~TEL-2~~ LNAPL	Grab	GW				10	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~						
~~TEL-1~~ LNAPL	Grab	GW				10	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~						
MW-49	Grab	GW				11	X	X	X		X	X	X	X				
DUP-TEL-01	Grab	GW		4/13/21	900	10	X	X	X	X	X	X						
EB-TEL-01	Grab	GW		4/13/21	1000	10	X	X	X	X	X	X						
Trip Blank-TEL-01	Grab	GW		4/13/21	—	1	X											

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:
Dissolved metals field-filtered.

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP ✓Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	
Scott Ude	4/14/21	1200			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:	If preservation required by Login: Date/Time
				0.2,3,2,0,S	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4/15/21 Time: 0900	Hold: / Condition: NCF / OK

Released to Imaging: 2/7/2025 11:08:22 AM

ANALYTICAL REPORT

April 30, 2021

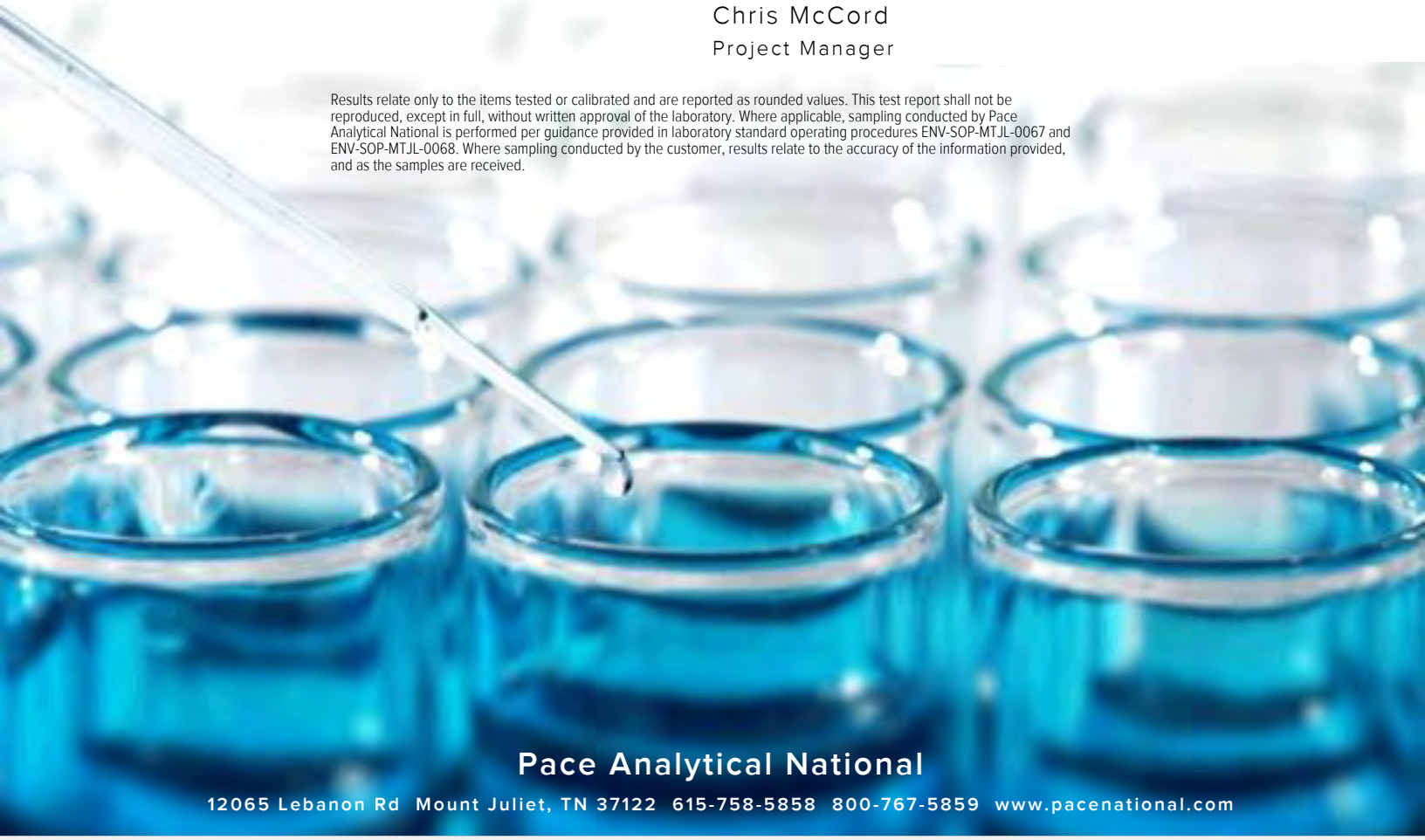
TRC Solutions - Austin, TX

Sample Delivery Group:	L1339469
Samples Received:	04/15/2021
Project Number:	425135.0000.0000
Description:	REST Spring 2021
Site:	REST (NAVAJO-ARTESIA)
Report To:	Julie Speer
	505 E. Huntland Dr, Ste 250
	Austin, TX 78752

Entire Report Reviewed By:

Chris McCord
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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Released to Imaging: 2/7/2025 11:08:22 AM

MW-135 L1339469-01 GW

Collected by: SU / HMI Team
Collected date/time: 04/13/21 16:35
Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1654730	1	04/19/21 18:09	04/19/21 20:11	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1653895	5	04/18/21 03:50	04/18/21 03:50	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656212	1	04/22/21 06:30	04/22/21 06:30	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656212	100	04/22/21 06:46	04/22/21 06:46	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1655935	1	04/26/21 02:46	04/26/21 13:54	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656885	1	04/26/21 00:29	04/26/21 10:41	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1655063	1	04/20/21 16:50	04/20/21 16:50	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653784	1	04/18/21 03:03	04/18/21 03:03	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656083	1	04/22/21 06:40	04/22/21 21:55	DMG	Mt. Juliet, TN

MW-117 L1339469-02 GW

Collected by: SU / HMI Team
Collected date/time: 04/13/21 14:05
Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1654730	1	04/19/21 18:09	04/19/21 20:11	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1653895	5	04/18/21 03:51	04/18/21 03:51	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656212	1	04/22/21 07:34	04/22/21 07:34	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656212	100	04/22/21 07:50	04/22/21 07:50	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1655935	1	04/26/21 02:46	04/26/21 13:57	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656885	1	04/26/21 00:29	04/26/21 10:44	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1655063	1	04/20/21 17:12	04/20/21 17:12	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653784	1	04/18/21 03:24	04/18/21 03:24	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656083	1	04/22/21 06:40	04/22/21 22:20	DMG	Mt. Juliet, TN

MW-118 L1339469-03 GW

Collected by: SU / HMI Team
Collected date/time: 04/13/21 13:20
Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1654730	1	04/19/21 18:09	04/19/21 20:11	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1653895	1	04/18/21 04:03	04/18/21 04:03	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656212	1	04/22/21 08:06	04/22/21 08:06	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656212	100	04/22/21 08:22	04/22/21 08:22	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1655935	1	04/26/21 02:46	04/26/21 14:01	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656885	1	04/26/21 00:29	04/26/21 10:47	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1655180	1	04/20/21 22:26	04/20/21 22:26	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653784	1	04/18/21 03:45	04/18/21 03:45	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656083	1.05	04/22/21 06:40	04/22/21 22:46	DMG	Mt. Juliet, TN

MW-119 L1339469-04 GW

Collected by: SU / HMI Team
Collected date/time: 04/13/21 12:30
Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1654730	1	04/19/21 18:09	04/19/21 20:11	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1653895	1	04/18/21 03:54	04/18/21 03:54	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656212	1	04/22/21 08:38	04/22/21 08:38	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656212	100	04/22/21 08:54	04/22/21 08:54	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1655935	1	04/26/21 02:46	04/26/21 14:04	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656889	1	04/25/21 21:33	04/26/21 08:59	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1655180	1	04/20/21 22:47	04/20/21 22:47	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653793	1	04/17/21 20:44	04/17/21 20:44	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656083	1	04/22/21 06:40	04/22/21 23:12	DMG	Mt. Juliet, TN

NP-5 L1339469-05 GW

Collected by: SU / HMI Team | Collected date/time: 04/13/21 10:05 | Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1654730	1	04/19/21 18:09	04/19/21 20:11	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1653895	1	04/18/21 03:56	04/18/21 03:56	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656212	10	04/22/21 09:10	04/22/21 09:10	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656212	100	04/22/21 09:25	04/22/21 09:25	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1655935	1	04/26/21 02:46	04/26/21 14:07	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656889	1	04/25/21 21:33	04/26/21 09:13	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653793	1	04/17/21 21:03	04/17/21 21:03	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656083	1	04/22/21 06:40	04/22/21 23:38	DMG	Mt. Juliet, TN

MW-136 L1339469-06 GW

Collected by: SU / HMI Team | Collected date/time: 04/13/21 11:00 | Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1654730	1	04/19/21 18:09	04/19/21 20:11	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1653895	5	04/18/21 03:57	04/18/21 03:57	SDL	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG1656330	1	04/21/21 19:27	04/23/21 16:28	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656212	1	04/22/21 09:41	04/22/21 09:41	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656212	100	04/22/21 09:57	04/22/21 09:57	ELN	Mt. Juliet, TN
Mercury by Method 7470A	WG1652892	1	04/21/21 11:29	04/21/21 17:45	BMF	Mt. Juliet, TN
Mercury by Method 7470A	WG1653243	1	04/18/21 17:49	04/19/21 07:36	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1656496	1	04/22/21 12:56	04/22/21 17:32	KMG	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1656874	1	04/26/21 06:53	04/26/21 12:28	EL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656889	1	04/25/21 21:33	04/26/21 09:17	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1658404	1	04/24/21 22:26	04/25/21 20:23	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1657165	1	04/23/21 11:52	04/23/21 11:52	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653793	1	04/17/21 21:22	04/17/21 21:22	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656083	1	04/22/21 06:40	04/23/21 00:03	DMG	Mt. Juliet, TN

MW-126B L1339469-07 GW

Collected by: SU / HMI Team | Collected date/time: 04/13/21 09:05 | Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1654730	1	04/19/21 18:09	04/19/21 20:11	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1653895	1	04/18/21 03:58	04/18/21 03:58	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656212	1	04/22/21 10:45	04/22/21 10:45	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656212	100	04/22/21 11:01	04/22/21 11:01	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656889	1	04/25/21 21:33	04/26/21 09:20	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1658404	1	04/24/21 22:26	04/25/21 20:27	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1655180	1	04/20/21 23:31	04/20/21 23:31	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653793	1	04/17/21 21:41	04/17/21 21:41	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656083	1	04/22/21 06:40	04/23/21 00:29	DMG	Mt. Juliet, TN

KWB-1C L1339469-08 GW

Collected by: SU / HMI Team | Collected date/time: 04/13/21 14:15 | Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1654730	1	04/19/21 18:09	04/19/21 20:11	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1653895	1	04/18/21 04:05	04/18/21 04:05	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656212	1	04/22/21 11:17	04/22/21 11:17	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656212	100	04/22/21 11:33	04/22/21 11:33	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656889	1	04/25/21 21:33	04/26/21 09:24	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1658404	1	04/24/21 22:26	04/25/21 19:42	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653793	1	04/17/21 22:00	04/17/21 22:00	ADM	Mt. Juliet, TN

Cp Tc Ss Cn Sr Qc Gl Al Sc

KWB-1C L1339469-08 GW

Collected by: SU / HMI Team
Collected date/time: 04/13/21 14:15
Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656083	1	04/22/21 06:40	04/23/21 00:55	DMG	Mt. Juliet, TN

MW-57 L1339469-09 GW

Collected by: SU / HMI Team
Collected date/time: 04/13/21 11:15
Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1654730	1	04/19/21 18:09	04/19/21 20:11	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1653895	5	04/18/21 04:06	04/18/21 04:06	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656212	10	04/22/21 11:49	04/22/21 11:49	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656212	100	04/22/21 12:05	04/22/21 12:05	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656889	1	04/25/21 21:33	04/26/21 09:57	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1658404	1	04/24/21 22:26	04/25/21 20:30	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1655180	1	04/20/21 23:53	04/20/21 23:53	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653793	1	04/17/21 22:19	04/17/21 22:19	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656087	1	04/22/21 06:41	04/22/21 15:54	AEG	Mt. Juliet, TN

KWB-12B L1339469-10 GW

Collected by: SU / HMI Team
Collected date/time: 04/13/21 10:05
Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1654730	1	04/19/21 18:09	04/19/21 20:11	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1653895	5	04/18/21 04:07	04/18/21 04:07	SDL	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG1656330	1	04/21/21 19:27	04/23/21 16:29	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656212	1	04/22/21 12:20	04/22/21 12:20	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656212	100	04/22/21 12:36	04/22/21 12:36	ELN	Mt. Juliet, TN
Mercury by Method 7470A	WG1652892	1	04/21/21 11:29	04/21/21 17:47	BMF	Mt. Juliet, TN
Mercury by Method 7470A	WG1653243	1	04/18/21 17:49	04/19/21 07:38	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1656496	1	04/22/21 12:56	04/22/21 17:35	KMG	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1656874	1	04/26/21 06:53	04/26/21 12:32	EL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656889	1	04/25/21 21:33	04/26/21 10:00	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1658404	1	04/24/21 22:26	04/25/21 20:33	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1655180	1	04/21/21 00:14	04/21/21 00:14	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653793	1	04/17/21 22:38	04/17/21 22:38	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656087	1	04/22/21 06:41	04/22/21 18:28	AEG	Mt. Juliet, TN

KWB-13 L1339469-11 GW

Collected by: SU / HMI Team
Collected date/time: 04/13/21 12:10
Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1654730	1	04/19/21 18:09	04/19/21 20:11	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1653895	10	04/18/21 04:10	04/18/21 04:10	SDL	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG1656330	1	04/21/21 19:27	04/23/21 16:30	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656212	1	04/22/21 12:52	04/22/21 12:52	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656212	100	04/22/21 13:08	04/22/21 13:08	ELN	Mt. Juliet, TN
Mercury by Method 7470A	WG1652892	1	04/21/21 11:29	04/21/21 17:49	BMF	Mt. Juliet, TN
Mercury by Method 7470A	WG1653243	1	04/18/21 17:49	04/19/21 07:44	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1656496	1	04/22/21 12:56	04/22/21 17:38	KMG	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1656874	1	04/26/21 06:53	04/26/21 12:35	EL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656889	1	04/25/21 21:33	04/26/21 10:04	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1658404	1	04/24/21 22:26	04/25/21 20:37	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653793	1	04/17/21 22:57	04/17/21 22:57	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656087	1	04/22/21 06:41	04/22/21 16:11	AEG	Mt. Juliet, TN

MW-104 L1339469-12 GW

Collected by: SU / HMI Team
Collected date/time: 04/13/21 13:00
Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1654730	1	04/19/21 18:09	04/19/21 20:11	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1653896	1	04/18/21 06:08	04/18/21 06:08	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656213	1	04/22/21 03:24	04/22/21 03:24	GB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656213	100	04/22/21 03:41	04/22/21 03:41	GB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656889	1	04/25/21 21:33	04/26/21 10:08	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1658404	1	04/24/21 22:26	04/25/21 20:40	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1655180	1	04/21/21 00:36	04/21/21 00:36	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653793	1	04/17/21 23:16	04/17/21 23:16	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656087	1	04/22/21 06:41	04/22/21 16:28	AEG	Mt. Juliet, TN

MW-98 L1339469-13 GW

Collected by: SU / HMI Team
Collected date/time: 04/13/21 12:55
Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1654730	1	04/19/21 18:09	04/19/21 20:11	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1653896	1000	04/18/21 06:10	04/18/21 06:10	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656213	1	04/22/21 03:57	04/22/21 03:57	GB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656213	100	04/22/21 04:14	04/22/21 04:14	GB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656889	1	04/25/21 21:33	04/26/21 10:11	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1658404	1	04/24/21 22:26	04/25/21 20:44	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1655942	50	04/22/21 19:04	04/22/21 19:04	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653793	50	04/18/21 02:07	04/18/21 02:07	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656087	1	04/22/21 06:41	04/22/21 16:28	AEG	Mt. Juliet, TN

RW-10 L1339469-14 GW

Collected by: SU / HMI Team
Collected date/time: 04/13/21 11:05
Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1654730	1	04/19/21 18:09	04/19/21 20:11	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1653896	1	04/18/21 06:13	04/18/21 06:13	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656213	1	04/22/21 04:30	04/22/21 04:30	GB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656213	100	04/22/21 04:46	04/22/21 04:46	GB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656889	1	04/25/21 21:33	04/26/21 10:15	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1658404	1	04/24/21 22:26	04/25/21 20:47	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1655180	1	04/21/21 00:58	04/21/21 00:58	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653793	1	04/17/21 23:35	04/17/21 23:35	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656087	1	04/22/21 06:41	04/22/21 18:45	AEG	Mt. Juliet, TN

MW-106 L1339469-15 GW

Collected by: SU / HMI Team
Collected date/time: 04/13/21 11:55
Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1654730	1	04/19/21 18:09	04/19/21 20:11	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1660820	1	04/28/21 21:30	04/28/21 21:30	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656213	1	04/22/21 05:03	04/22/21 05:03	GB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656213	100	04/22/21 05:19	04/22/21 05:19	GB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656889	1	04/25/21 21:33	04/26/21 10:19	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1658404	1	04/24/21 22:26	04/25/21 20:52	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1655942	200	04/22/21 19:26	04/22/21 19:26	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653793	200	04/18/21 02:26	04/18/21 02:26	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656087	5	04/22/21 06:41	04/27/21 10:09	DMG	Mt. Juliet, TN

MW-50 L1339469-16 GW

Collected by: SU / HMI Team
Collected date/time: 04/13/21 10:00
Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1654733	1	04/19/21 17:40	04/19/21 22:36	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1653896	1	04/18/21 06:15	04/18/21 06:15	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656213	1	04/22/21 06:09	04/22/21 06:09	GB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656213	100	04/22/21 06:25	04/22/21 06:25	GB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656889	1	04/25/21 21:33	04/26/21 10:22	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1658404	1	04/24/21 22:26	04/25/21 20:55	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653793	1	04/17/21 23:54	04/17/21 23:54	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656087	1	04/22/21 06:41	04/22/21 16:45	AEG	Mt. Juliet, TN

MW-90 L1339469-17 GW

Collected by: SU / HMI Team
Collected date/time: 04/13/21 11:00
Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1654733	1	04/19/21 17:40	04/19/21 22:36	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1660820	1	04/28/21 21:34	04/28/21 21:34	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656213	1	04/22/21 06:42	04/22/21 06:42	GB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656213	100	04/22/21 06:58	04/22/21 06:58	GB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656889	1	04/25/21 21:33	04/26/21 10:26	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1658404	1	04/24/21 22:26	04/25/21 21:11	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1655180	1	04/21/21 01:20	04/21/21 01:20	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653793	1	04/18/21 00:13	04/18/21 00:13	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656087	1	04/22/21 06:41	04/22/21 16:45	AEG	Mt. Juliet, TN

DUP-REST-02 L1339469-18 GW

Collected by: SU / HMI Team
Collected date/time: 04/13/21 12:00
Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1654733	1	04/19/21 17:40	04/19/21 22:36	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1660820	1	04/28/21 21:35	04/28/21 21:35	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656213	1	04/22/21 07:14	04/22/21 07:14	GB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656213	100	04/22/21 07:31	04/22/21 07:31	GB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656889	1	04/25/21 21:33	04/26/21 10:29	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1658404	1	04/24/21 22:26	04/25/21 21:14	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1655180	1	04/21/21 01:41	04/21/21 01:41	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653793	1	04/18/21 00:32	04/18/21 00:32	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656087	1	04/22/21 06:41	04/22/21 17:02	AEG	Mt. Juliet, TN

DUP-REST-05 L1339469-19 GW

Collected by: SU / HMI Team
Collected date/time: 04/13/21 12:00
Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1654733	1	04/19/21 17:40	04/19/21 22:36	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1660820	5	04/28/21 21:36	04/28/21 21:36	JER	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG1656330	1	04/21/21 19:27	04/23/21 16:31	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656213	1	04/22/21 07:47	04/22/21 07:47	GB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656213	100	04/22/21 08:04	04/22/21 08:04	GB	Mt. Juliet, TN
Mercury by Method 7470A	WG1652892	1	04/21/21 11:29	04/21/21 17:55	BMF	Mt. Juliet, TN
Mercury by Method 7470A	WG1653243	1	04/18/21 17:49	04/19/21 07:46	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1656496	1	04/22/21 12:56	04/22/21 17:41	KMG	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1656874	1	04/26/21 06:53	04/26/21 12:38	EL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656889	1	04/25/21 21:33	04/26/21 10:47	RDS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1658404	1	04/24/21 22:26	04/25/21 21:17	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1655180	1	04/21/21 07:12	04/21/21 07:12	JAH	Mt. Juliet, TN

DUP-REST-05 L1339469-19 GW

Collected by: SU / HMI Team | Collected date/time: 04/13/21 12:00 | Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653793	1	04/18/21 00:51	04/18/21 00:51	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656087	1	04/22/21 06:41	04/27/21 09:18	DMG	Mt. Juliet, TN

EB-REST-05 L1339469-20 GW

Collected by: SU / HMI Team | Collected date/time: 04/13/21 10:25 | Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1654733	1	04/19/21 17:40	04/19/21 22:36	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1660820	1	04/28/21 21:37	04/28/21 21:37	JER	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG1656330	1	04/21/21 19:27	04/23/21 16:32	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656213	1	04/22/21 08:20	04/22/21 08:20	GB	Mt. Juliet, TN
Mercury by Method 7470A	WG1652892	1	04/21/21 11:29	04/21/21 17:57	BMF	Mt. Juliet, TN
Mercury by Method 7470A	WG1653243	1	04/18/21 17:49	04/19/21 07:48	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1656496	1	04/22/21 12:56	04/22/21 17:44	KMG	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1656874	1	04/26/21 06:53	04/26/21 11:30	EL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656889	1	04/25/21 21:33	04/26/21 10:51	RDS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1658404	1	04/24/21 22:26	04/25/21 21:21	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1655180	1	04/21/21 07:34	04/21/21 07:34	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653793	1	04/18/21 01:10	04/18/21 01:10	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656087	1	04/22/21 06:41	04/22/21 17:19	AEG	Mt. Juliet, TN

TRIP BLANK-REST-02 L1339469-21 GW

Collected by: SU / HMI Team | Collected date/time: 04/13/21 00:00 | Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653793	1	04/17/21 20:25	04/17/21 20:25	ADM	Mt. Juliet, TN

MW-139 L1339469-22 GW

Collected by: SU / HMI Team | Collected date/time: 04/13/21 16:30 | Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1654733	1	04/19/21 17:40	04/19/21 22:36	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1660820	1	04/28/21 21:43	04/28/21 21:43	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656213	1	04/22/21 09:59	04/22/21 09:59	GB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656213	100	04/22/21 10:15	04/22/21 10:15	GB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656889	1	04/25/21 21:33	04/26/21 10:55	RDS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1658404	1	04/24/21 22:26	04/25/21 21:24	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1655180	1	04/21/21 07:56	04/21/21 07:56	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653793	1	04/18/21 01:29	04/18/21 01:29	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656087	1	04/22/21 06:41	04/22/21 17:19	AEG	Mt. Juliet, TN

MW-145 L1339469-23 GW

Collected by: SU / HMI Team | Collected date/time: 04/13/21 12:00 | Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1654733	1	04/19/21 17:40	04/19/21 22:36	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656213	1	04/22/21 10:32	04/22/21 10:32	GB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656213	100	04/22/21 10:48	04/22/21 10:48	GB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656889	1	04/25/21 21:33	04/26/21 10:58	RDS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1658404	1	04/24/21 22:26	04/25/21 21:27	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1655180	1	04/21/21 08:18	04/21/21 08:18	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653793	1	04/18/21 01:48	04/18/21 01:48	ADM	Mt. Juliet, TN

MW-145 L1339469-23 GW

Collected by: SU / HMI Team
Collected date/time: 04/13/21 12:00
Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656087	1	04/22/21 06:41	04/22/21 17:36	AEG	Mt. Juliet, TN

MW-146 L1339469-24 GW

Collected by: SU / HMI Team
Collected date/time: 04/13/21 11:15
Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1654733	1	04/19/21 17:40	04/19/21 22:36	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656213	1	04/22/21 11:05	04/22/21 11:05	GB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656213	100	04/22/21 11:21	04/22/21 11:21	GB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656889	1	04/25/21 21:33	04/26/21 11:02	RDS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1658404	1	04/24/21 22:26	04/25/21 21:31	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1655180	1	04/21/21 08:39	04/21/21 08:39	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653797	1	04/17/21 20:38	04/17/21 20:38	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656087	1	04/22/21 06:41	04/27/21 09:43	DMG	Mt. Juliet, TN

MW-148 L1339469-25 GW

Collected by: SU / HMI Team
Collected date/time: 04/13/21 10:20
Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1654733	1	04/19/21 17:40	04/19/21 22:36	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656213	1	04/22/21 11:38	04/22/21 11:38	GB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656213	100	04/22/21 11:54	04/22/21 11:54	GB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656892	1	04/26/21 04:02	04/26/21 14:45	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1658404	1	04/24/21 22:26	04/25/21 21:34	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1657165	1	04/23/21 12:14	04/23/21 12:14	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1653797	1	04/17/21 20:57	04/17/21 20:57	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656087	1	04/22/21 06:41	04/22/21 17:53	AEG	Mt. Juliet, TN

KWB-11B L1339469-26 GW

Collected by: SU / HMI Team
Collected date/time: 04/13/21 10:10
Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1654733	1	04/19/21 17:40	04/19/21 22:36	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1653896	1	04/18/21 06:27	04/18/21 06:27	SDL	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG1656485	1	04/22/21 11:18	04/22/21 23:15	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656344	1	04/22/21 23:36	04/22/21 23:36	GB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656344	100	04/22/21 23:49	04/22/21 23:49	GB	Mt. Juliet, TN
Mercury by Method 7470A	WG1654200	1	04/21/21 12:16	04/21/21 18:36	SD	Mt. Juliet, TN
Mercury by Method 7470A	WG1655704	1	04/21/21 17:41	04/22/21 08:23	SD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1656501	1	04/24/21 07:56	04/25/21 10:33	EL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1656876	1	04/26/21 15:15	04/27/21 07:56	EL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1655946	1	04/26/21 06:54	04/26/21 11:33	RDS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656892	1	04/26/21 04:02	04/26/21 15:51	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1655942	1	04/22/21 16:10	04/22/21 16:10	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654282	1	04/19/21 20:43	04/19/21 20:43	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1657699	1	04/23/21 14:27	04/24/21 02:00	JN	Mt. Juliet, TN

MW-103 L1339469-27 GW

Collected by: SU / HMI Team | Collected date/time: 04/13/21 14:10 | Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1654733	1	04/19/21 17:40	04/19/21 22:36	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1653896	10	04/18/21 06:28	04/18/21 06:28	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656344	1	04/23/21 00:03	04/23/21 00:03	GB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656344	100	04/23/21 00:16	04/23/21 00:16	GB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1655946	1	04/26/21 06:54	04/26/21 11:37	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1655946	5	04/26/21 06:54	04/26/21 14:09	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656892	1	04/26/21 04:02	04/26/21 15:54	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656892	10	04/26/21 04:02	04/26/21 16:29	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1656818	10	04/23/21 04:02	04/23/21 04:02	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654282	20	04/20/21 01:28	04/20/21 01:28	JCP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1656346	20	04/22/21 18:06	04/22/21 18:06	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656969	1	04/22/21 17:13	04/22/21 22:57	TJD	Mt. Juliet, TN

MW-64 L1339469-28 GW

Collected by: SU / HMI Team | Collected date/time: 04/13/21 15:00 | Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1654733	1	04/19/21 17:40	04/19/21 22:36	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1660820	1	04/28/21 21:44	04/28/21 21:44	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656344	1	04/23/21 00:29	04/23/21 00:29	GB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656344	100	04/23/21 00:42	04/23/21 00:42	GB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1655946	1	04/26/21 06:54	04/26/21 11:40	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1655946	5	04/26/21 06:54	04/26/21 14:12	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656892	1	04/26/21 04:02	04/26/21 15:58	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1656818	100	04/23/21 04:23	04/23/21 04:23	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654282	500	04/20/21 01:49	04/20/21 01:49	JCP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1656346	500	04/22/21 18:27	04/22/21 18:27	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656969	1	04/22/21 17:13	04/22/21 23:17	TJD	Mt. Juliet, TN

EB-REST-02 L1339469-29 GW

Collected by: SU / HMI Team | Collected date/time: 04/13/21 13:05 | Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1654733	1	04/19/21 17:40	04/19/21 22:36	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1660820	1	04/28/21 21:45	04/28/21 21:45	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656344	1	04/22/21 17:31	04/22/21 17:31	GB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1655946	1	04/26/21 06:54	04/26/21 11:43	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656892	1	04/26/21 04:02	04/26/21 16:01	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1656818	1	04/22/21 23:15	04/22/21 23:15	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654282	1	04/19/21 19:42	04/19/21 19:42	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1657699	1	04/23/21 14:27	04/24/21 02:20	JN	Mt. Juliet, TN

MW-147 L1339469-30 GW

Collected by: SU / HMI Team | Collected date/time: 04/13/21 09:10 | Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1654733	1	04/19/21 17:40	04/19/21 22:36	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656344	1	04/23/21 00:55	04/23/21 00:55	GB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656344	100	04/23/21 01:08	04/23/21 01:08	GB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1655946	1	04/26/21 06:54	04/26/21 12:12	RDS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656892	1	04/26/21 04:02	04/26/21 16:12	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1655942	1	04/22/21 16:32	04/22/21 16:32	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654282	1	04/19/21 21:04	04/19/21 21:04	JCP	Mt. Juliet, TN

SAMPLE SUMMARY

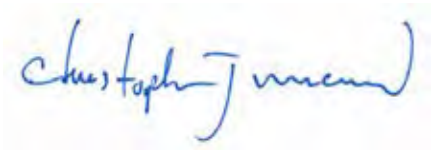
MW-147 L1339469-30 GW

Collected by	Collected date/time	Received date/time
SU / HMI Team	04/13/21 09:10	04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1657699	1	04/23/21 14:27	04/24/21 02:41	JN	Mt. Juliet, TN

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Chris McCord
Project Manager

Sample Delivery Group (SDG) Narrative

pH outside of method requirement.

Lab Sample ID	Project Sample ID	Method
L1339469-11	KWB-13	3511/8015
L1339469-13	MW-98	3511/8015
L1339469-15	MW-106	3511/8015
L1339469-27	MW-103	3511/8015
L1339469-28	MW-64	8015D/GRO, 3511/8015

The following analysis were performed from an unpreserved, insufficiently or inadequately preserved sample.

Lab Sample ID	Project Sample ID	Method
L1339469-15	MW-106	353.2
L1339469-17	MW-90	353.2
L1339469-18	DUP-REST-02	353.2
L1339469-19	DUP-REST-05	353.2
L1339469-20	EB-REST-05	353.2
L1339469-22	MW-139	353.2
L1339469-28	MW-64	353.2
L1339469-29	EB-REST-02	353.2

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	5550		50.0	1	04/19/2021 20:11	WG1654730

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	7.25		0.250	0.500	5	04/18/2021 03:50	WG1653895

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	440		37.9	100	100	04/22/2021 06:46	WG1656212
Fluoride	1.16		0.0640	0.150	1	04/22/2021 06:30	WG1656212
Sulfate	3070		59.4	500	100	04/22/2021 06:46	WG1656212

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00321		0.000180	0.00200	1	04/26/2021 10:41	WG1656885
Arsenic,Dissolved	0.00312		0.000180	0.00200	1	04/26/2021 13:54	WG1655935
Barium	0.0116	J	0.000381	0.0200	1	04/26/2021 10:41	WG1656885
Barium,Dissolved	0.00760	J	0.000381	0.0200	1	04/26/2021 13:54	WG1655935
Calcium	527		0.0936	1.00	1	04/26/2021 10:41	WG1656885
Chromium	U		0.00124	0.00200	1	04/26/2021 10:41	WG1656885
Chromium,Dissolved	0.00173	J	0.00124	0.00200	1	04/26/2021 13:54	WG1655935
Iron	0.127		0.0281	0.100	1	04/26/2021 10:41	WG1656885
Iron,Dissolved	U		0.0281	0.100	1	04/26/2021 13:54	WG1655935
Lead	U		0.000849	0.00200	1	04/26/2021 10:41	WG1656885
Lead,Dissolved	U		0.000849	0.00200	1	04/26/2021 13:54	WG1655935
Manganese	0.00777		0.000704	0.00500	1	04/26/2021 10:41	WG1656885
Manganese,Dissolved	0.000786	J	0.000704	0.00500	1	04/26/2021 13:54	WG1655935
Potassium	0.832	J	0.108	2.00	1	04/26/2021 10:41	WG1656885
Selenium	0.0197		0.000300	0.00200	1	04/26/2021 10:41	WG1656885
Selenium,Dissolved	0.0199		0.000300	0.00200	1	04/26/2021 13:54	WG1655935
Sodium	606		0.376	2.00	1	04/26/2021 10:41	WG1656885

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/20/2021 16:50	WG1655063
(S) a,a,a-Trifluorotoluene(FID)	*102*			*78.0-120*		*04/20/2021 16:50*	WG1655063

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0113	0.0500	1	04/18/2021 03:03	WG1653784
Benzene	U		0.0000941	0.00100	1	04/18/2021 03:03	WG1653784
Bromodichloromethane	U		0.000136	0.00100	1	04/18/2021 03:03	WG1653784
Bromoform	U		0.000129	0.00100	1	04/18/2021 03:03	WG1653784
Bromomethane	U		0.000605	0.00500	1	04/18/2021 03:03	WG1653784
n-Butylbenzene	U		0.000157	0.00100	1	04/18/2021 03:03	WG1653784
sec-Butylbenzene	U		0.000125	0.00100	1	04/18/2021 03:03	WG1653784
Carbon disulfide	U		0.0000962	0.00100	1	04/18/2021 03:03	WG1653784
Carbon tetrachloride	U		0.000128	0.00100	1	04/18/2021 03:03	WG1653784

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/18/2021 03:03	WG1653784
Chlorodibromomethane	U		0.000140	0.00100	1	04/18/2021 03:03	WG1653784
Chloroethane	U		0.000192	0.00500	1	04/18/2021 03:03	WG1653784
Chloroform	U		0.000111	0.00500	1	04/18/2021 03:03	WG1653784
Chloromethane	U		0.000960	0.00250	1	04/18/2021 03:03	WG1653784
1,2-Dibromoethane	U		0.000126	0.00100	1	04/18/2021 03:03	WG1653784
1,1-Dichloroethane	U		0.000100	0.00100	1	04/18/2021 03:03	WG1653784
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/18/2021 03:03	WG1653784
1,1-Dichloroethene	U		0.000188	0.00100	1	04/18/2021 03:03	WG1653784
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/18/2021 03:03	WG1653784
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/18/2021 03:03	WG1653784
1,2-Dichloropropane	U		0.000149	0.00100	1	04/18/2021 03:03	WG1653784
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/18/2021 03:03	WG1653784
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/18/2021 03:03	WG1653784
Ethylbenzene	U		0.000137	0.00100	1	04/18/2021 03:03	WG1653784
Isopropylbenzene	U		0.000105	0.00100	1	04/18/2021 03:03	WG1653784
p-Isopropyltoluene	U		0.000120	0.00100	1	04/18/2021 03:03	WG1653784
2-Butanone (MEK)	U		0.00119	0.0100	1	04/18/2021 03:03	WG1653784
2-Hexanone	U		0.000787	0.0100	1	04/18/2021 03:03	WG1653784
Methylene Chloride	U		0.000430	0.00500	1	04/18/2021 03:03	WG1653784
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/18/2021 03:03	WG1653784
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/18/2021 03:03	WG1653784
Naphthalene	U		0.00100	0.00500	1	04/18/2021 03:03	WG1653784
n-Propylbenzene	U		0.0000993	0.00100	1	04/18/2021 03:03	WG1653784
Styrene	U		0.000118	0.00100	1	04/18/2021 03:03	WG1653784
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/18/2021 03:03	WG1653784
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/18/2021 03:03	WG1653784
Tetrachloroethene	U		0.000300	0.00100	1	04/18/2021 03:03	WG1653784
Toluene	U		0.000278	0.00100	1	04/18/2021 03:03	WG1653784
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/18/2021 03:03	WG1653784
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/18/2021 03:03	WG1653784
Trichloroethene	U		0.000190	0.00100	1	04/18/2021 03:03	WG1653784
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/18/2021 03:03	WG1653784
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/18/2021 03:03	WG1653784
Vinyl chloride	U		0.000234	0.00100	1	04/18/2021 03:03	WG1653784
o-Xylene	U		0.000174	0.00100	1	04/18/2021 03:03	WG1653784
m&p-Xylene	U		0.000430	0.00200	1	04/18/2021 03:03	WG1653784
Xylenes, Total	U		0.000174	0.00300	1	04/18/2021 03:03	WG1653784
(S) Toluene-d8	*114*			*80.0-120*		*04/18/2021 03:03*	WG1653784
(S) 4-Bromofluorobenzene	*97.9*			*77.0-126*		*04/18/2021 03:03*	WG1653784
(S) 1,2-Dichloroethane-d4	*92.3*			*70.0-130*		*04/18/2021 03:03*	WG1653784

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0720	J	0.0247	0.100	1	04/22/2021 21:55	WG1656083
(S) o-Terphenyl	*86.3*			*31.0-160*		*04/22/2021 21:55*	WG1656083

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	4080		20.0	1	04/19/2021 20:11	WG1654730

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	5.55		0.250	0.500	5	04/18/2021 03:51	WG1653895

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	304		37.9	100	100	04/22/2021 07:50	WG1656212
Fluoride	2.89		0.0640	0.150	1	04/22/2021 07:34	WG1656212
Sulfate	2290		59.4	500	100	04/22/2021 07:50	WG1656212

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00260		0.000180	0.00200	1	04/26/2021 10:44	WG1656885
Arsenic,Dissolved	0.00263		0.000180	0.00200	1	04/26/2021 13:57	WG1655935
Barium	0.0108	J	0.000381	0.0200	1	04/26/2021 10:44	WG1656885
Barium,Dissolved	0.0105	J	0.000381	0.0200	1	04/26/2021 13:57	WG1655935
Calcium	663		0.0936	1.00	1	04/26/2021 10:44	WG1656885
Chromium	0.00191	J	0.00124	0.00200	1	04/26/2021 10:44	WG1656885
Chromium,Dissolved	0.00129	J	0.00124	0.00200	1	04/26/2021 13:57	WG1655935
Iron	0.112		0.0281	0.100	1	04/26/2021 10:44	WG1656885
Iron,Dissolved	U		0.0281	0.100	1	04/26/2021 13:57	WG1655935
Lead	0.00109	J	0.000849	0.00200	1	04/26/2021 10:44	WG1656885
Lead,Dissolved	U		0.000849	0.00200	1	04/26/2021 13:57	WG1655935
Manganese	0.00472	J	0.000704	0.00500	1	04/26/2021 10:44	WG1656885
Manganese,Dissolved	0.00408	J	0.000704	0.00500	1	04/26/2021 13:57	WG1655935
Potassium	5.49		0.108	2.00	1	04/26/2021 10:44	WG1656885
Selenium	0.0141		0.000300	0.00200	1	04/26/2021 10:44	WG1656885
Selenium,Dissolved	0.0142		0.000300	0.00200	1	04/26/2021 13:57	WG1655935
Sodium	147		0.376	2.00	1	04/26/2021 10:44	WG1656885

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/20/2021 17:12	WG1655063
(S) a,a,a-Trifluorotoluene(FID)	*102*			*78.0-120*		*04/20/2021 17:12*	WG1655063

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0113	0.0500	1	04/18/2021 03:24	WG1653784
Benzene	U		0.0000941	0.00100	1	04/18/2021 03:24	WG1653784
Bromodichloromethane	U		0.000136	0.00100	1	04/18/2021 03:24	WG1653784
Bromoform	U		0.000129	0.00100	1	04/18/2021 03:24	WG1653784
Bromomethane	U		0.000605	0.00500	1	04/18/2021 03:24	WG1653784
n-Butylbenzene	U		0.000157	0.00100	1	04/18/2021 03:24	WG1653784
sec-Butylbenzene	U		0.000125	0.00100	1	04/18/2021 03:24	WG1653784
Carbon disulfide	U		0.0000962	0.00100	1	04/18/2021 03:24	WG1653784
Carbon tetrachloride	U		0.000128	0.00100	1	04/18/2021 03:24	WG1653784

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/18/2021 03:24	WG1653784
Chlorodibromomethane	U		0.000140	0.00100	1	04/18/2021 03:24	WG1653784
Chloroethane	U		0.000192	0.00500	1	04/18/2021 03:24	WG1653784
Chloroform	U		0.000111	0.00500	1	04/18/2021 03:24	WG1653784
Chloromethane	U		0.000960	0.00250	1	04/18/2021 03:24	WG1653784
1,2-Dibromoethane	U		0.000126	0.00100	1	04/18/2021 03:24	WG1653784
1,1-Dichloroethane	U		0.000100	0.00100	1	04/18/2021 03:24	WG1653784
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/18/2021 03:24	WG1653784
1,1-Dichloroethene	U		0.000188	0.00100	1	04/18/2021 03:24	WG1653784
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/18/2021 03:24	WG1653784
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/18/2021 03:24	WG1653784
1,2-Dichloropropane	U		0.000149	0.00100	1	04/18/2021 03:24	WG1653784
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/18/2021 03:24	WG1653784
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/18/2021 03:24	WG1653784
Ethylbenzene	U		0.000137	0.00100	1	04/18/2021 03:24	WG1653784
Isopropylbenzene	U		0.000105	0.00100	1	04/18/2021 03:24	WG1653784
p-Isopropyltoluene	U		0.000120	0.00100	1	04/18/2021 03:24	WG1653784
2-Butanone (MEK)	U		0.00119	0.0100	1	04/18/2021 03:24	WG1653784
2-Hexanone	U		0.000787	0.0100	1	04/18/2021 03:24	WG1653784
Methylene Chloride	U		0.000430	0.00500	1	04/18/2021 03:24	WG1653784
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/18/2021 03:24	WG1653784
Methyl tert-butyl ether	0.00284		0.000101	0.00100	1	04/18/2021 03:24	WG1653784
Naphthalene	U		0.00100	0.00500	1	04/18/2021 03:24	WG1653784
n-Propylbenzene	U		0.0000993	0.00100	1	04/18/2021 03:24	WG1653784
Styrene	U		0.000118	0.00100	1	04/18/2021 03:24	WG1653784
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/18/2021 03:24	WG1653784
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/18/2021 03:24	WG1653784
Tetrachloroethene	U		0.000300	0.00100	1	04/18/2021 03:24	WG1653784
Toluene	U		0.000278	0.00100	1	04/18/2021 03:24	WG1653784
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/18/2021 03:24	WG1653784
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/18/2021 03:24	WG1653784
Trichloroethene	U		0.000190	0.00100	1	04/18/2021 03:24	WG1653784
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/18/2021 03:24	WG1653784
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/18/2021 03:24	WG1653784
Vinyl chloride	U		0.000234	0.00100	1	04/18/2021 03:24	WG1653784
o-Xylene	U		0.000174	0.00100	1	04/18/2021 03:24	WG1653784
m&p-Xylene	U		0.000430	0.00200	1	04/18/2021 03:24	WG1653784
Xylenes, Total	U		0.000174	0.00300	1	04/18/2021 03:24	WG1653784
(S) Toluene-d8	*110*			*80.0-120*		*04/18/2021 03:24*	WG1653784
(S) 4-Bromofluorobenzene	*102*			*77.0-126*		*04/18/2021 03:24*	WG1653784
(S) 1,2-Dichloroethane-d4	*91.7*			*70.0-130*		*04/18/2021 03:24*	WG1653784

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.211		0.0247	0.100	1	04/22/2021 22:20	WG1656083
(S) o-Terphenyl	*82.6*			*31.0-160*		*04/22/2021 22:20*	WG1656083

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	4840		20.0	1	04/19/2021 20:11	WG1654730

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	2.29		0.0500	0.100	1	04/18/2021 04:03	WG1653895

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	241		37.9	100	100	04/22/2021 08:22	WG1656212
Fluoride	4.51		0.0640	0.150	1	04/22/2021 08:06	WG1656212
Sulfate	2880		59.4	500	100	04/22/2021 08:22	WG1656212

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00732		0.000180	0.00200	1	04/26/2021 10:47	WG1656885
Arsenic,Dissolved	0.00732		0.000180	0.00200	1	04/26/2021 14:01	WG1655935
Barium	0.0108	J	0.000381	0.0200	1	04/26/2021 10:47	WG1656885
Barium,Dissolved	0.0103	J	0.000381	0.0200	1	04/26/2021 14:01	WG1655935
Calcium	575		0.0936	1.00	1	04/26/2021 10:47	WG1656885
Chromium	0.00125	J	0.00124	0.00200	1	04/26/2021 10:47	WG1656885
Chromium,Dissolved	U		0.00124	0.00200	1	04/26/2021 14:01	WG1655935
Iron	0.0458	J	0.0281	0.100	1	04/26/2021 10:47	WG1656885
Iron,Dissolved	U		0.0281	0.100	1	04/26/2021 14:01	WG1655935
Lead	U		0.000849	0.00200	1	04/26/2021 10:47	WG1656885
Lead,Dissolved	U		0.000849	0.00200	1	04/26/2021 14:01	WG1655935
Manganese	U		0.000704	0.00500	1	04/26/2021 10:47	WG1656885
Manganese,Dissolved	U		0.000704	0.00500	1	04/26/2021 14:01	WG1655935
Potassium	2.85		0.108	2.00	1	04/26/2021 10:47	WG1656885
Selenium	0.0137		0.000300	0.00200	1	04/26/2021 10:47	WG1656885
Selenium,Dissolved	0.0133		0.000300	0.00200	1	04/26/2021 14:01	WG1655935
Sodium	192		0.376	2.00	1	04/26/2021 10:47	WG1656885

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/20/2021 22:26	WG1655180
(S) a,a,a-Trifluorotoluene(FID)	*102*			*78.0-120*		*04/20/2021 22:26*	WG1655180

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0113	0.0500	1	04/18/2021 03:45	WG1653784
Benzene	U		0.0000941	0.00100	1	04/18/2021 03:45	WG1653784
Bromodichloromethane	U		0.000136	0.00100	1	04/18/2021 03:45	WG1653784
Bromoform	U		0.000129	0.00100	1	04/18/2021 03:45	WG1653784
Bromomethane	U		0.000605	0.00500	1	04/18/2021 03:45	WG1653784
n-Butylbenzene	U		0.000157	0.00100	1	04/18/2021 03:45	WG1653784
sec-Butylbenzene	U		0.000125	0.00100	1	04/18/2021 03:45	WG1653784
Carbon disulfide	U		0.0000962	0.00100	1	04/18/2021 03:45	WG1653784
Carbon tetrachloride	U		0.000128	0.00100	1	04/18/2021 03:45	WG1653784

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/18/2021 03:45	WG1653784
Chlorodibromomethane	U		0.000140	0.00100	1	04/18/2021 03:45	WG1653784
Chloroethane	U		0.000192	0.00500	1	04/18/2021 03:45	WG1653784
Chloroform	U		0.000111	0.00500	1	04/18/2021 03:45	WG1653784
Chloromethane	U		0.000960	0.00250	1	04/18/2021 03:45	WG1653784
1,2-Dibromoethane	U		0.000126	0.00100	1	04/18/2021 03:45	WG1653784
1,1-Dichloroethane	U		0.000100	0.00100	1	04/18/2021 03:45	WG1653784
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/18/2021 03:45	WG1653784
1,1-Dichloroethene	U		0.000188	0.00100	1	04/18/2021 03:45	WG1653784
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/18/2021 03:45	WG1653784
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/18/2021 03:45	WG1653784
1,2-Dichloropropane	U		0.000149	0.00100	1	04/18/2021 03:45	WG1653784
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/18/2021 03:45	WG1653784
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/18/2021 03:45	WG1653784
Ethylbenzene	U		0.000137	0.00100	1	04/18/2021 03:45	WG1653784
Isopropylbenzene	U		0.000105	0.00100	1	04/18/2021 03:45	WG1653784
p-Isopropyltoluene	U		0.000120	0.00100	1	04/18/2021 03:45	WG1653784
2-Butanone (MEK)	U		0.00119	0.0100	1	04/18/2021 03:45	WG1653784
2-Hexanone	U		0.000787	0.0100	1	04/18/2021 03:45	WG1653784
Methylene Chloride	U		0.000430	0.00500	1	04/18/2021 03:45	WG1653784
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/18/2021 03:45	WG1653784
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/18/2021 03:45	WG1653784
Naphthalene	U		0.00100	0.00500	1	04/18/2021 03:45	WG1653784
n-Propylbenzene	U		0.0000993	0.00100	1	04/18/2021 03:45	WG1653784
Styrene	U		0.000118	0.00100	1	04/18/2021 03:45	WG1653784
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/18/2021 03:45	WG1653784
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/18/2021 03:45	WG1653784
Tetrachloroethene	U		0.000300	0.00100	1	04/18/2021 03:45	WG1653784
Toluene	U		0.000278	0.00100	1	04/18/2021 03:45	WG1653784
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/18/2021 03:45	WG1653784
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/18/2021 03:45	WG1653784
Trichloroethene	U		0.000190	0.00100	1	04/18/2021 03:45	WG1653784
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/18/2021 03:45	WG1653784
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/18/2021 03:45	WG1653784
Vinyl chloride	U		0.000234	0.00100	1	04/18/2021 03:45	WG1653784
o-Xylene	U		0.000174	0.00100	1	04/18/2021 03:45	WG1653784
m&p-Xylene	U		0.000430	0.00200	1	04/18/2021 03:45	WG1653784
Xylenes, Total	U		0.000174	0.00300	1	04/18/2021 03:45	WG1653784
(S) Toluene-d8	*118*			*80.0-120*		*04/18/2021 03:45*	WG1653784
(S) 4-Bromofluorobenzene	*93.7*			*77.0-126*		*04/18/2021 03:45*	WG1653784
(S) 1,2-Dichloroethane-d4	*95.5*			*70.0-130*		*04/18/2021 03:45*	WG1653784

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0499	J	0.0259	0.105	1.05	04/22/2021 22:46	WG1656083
(S) o-Terphenyl	*82.4*			*31.0-160*		*04/22/2021 22:46*	WG1656083

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	4400		20.0	1	04/19/2021 20:11	WG1654730

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.237		0.0500	0.100	1	04/18/2021 03:54	WG1653895

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	278		37.9	100	100	04/22/2021 08:54	WG1656212
Fluoride	1.49		0.0640	0.150	1	04/22/2021 08:38	WG1656212
Sulfate	2580		59.4	500	100	04/22/2021 08:54	WG1656212

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00449		0.000180	0.00200	1	04/26/2021 08:59	WG1656889
Arsenic,Dissolved	0.00435		0.000180	0.00200	1	04/26/2021 14:04	WG1655935
Barium	0.0129	J	0.000381	0.0200	1	04/26/2021 08:59	WG1656889
Barium,Dissolved	0.00901	J	0.000381	0.0200	1	04/26/2021 14:04	WG1655935
Calcium	620		0.0936	1.00	1	04/26/2021 08:59	WG1656889
Chromium	0.00278		0.00124	0.00200	1	04/26/2021 08:59	WG1656889
Chromium,Dissolved	U		0.00124	0.00200	1	04/26/2021 14:04	WG1655935
Iron	0.276		0.0281	0.100	1	04/26/2021 08:59	WG1656889
Iron,Dissolved	U		0.0281	0.100	1	04/26/2021 14:04	WG1655935
Lead	U		0.000849	0.00200	1	04/26/2021 08:59	WG1656889
Lead,Dissolved	U		0.000849	0.00200	1	04/26/2021 14:04	WG1655935
Manganese	0.0119		0.000704	0.00500	1	04/26/2021 08:59	WG1656889
Manganese,Dissolved	0.00426	J	0.000704	0.00500	1	04/26/2021 14:04	WG1655935
Potassium	0.690	J	0.108	2.00	1	04/26/2021 08:59	WG1656889
Selenium	0.00456		0.000300	0.00200	1	04/26/2021 08:59	WG1656889
Selenium,Dissolved	0.00488		0.000300	0.00200	1	04/26/2021 14:04	WG1655935
Sodium	189	V	0.376	2.00	1	04/26/2021 08:59	WG1656889

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/20/2021 22:47	WG1655180
(S) a,a,a-Trifluorotoluene(FID)	*102*			*78.0-120*		*04/20/2021 22:47*	WG1655180

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0113	0.0500	1	04/17/2021 20:44	WG1653793
Benzene	U		0.0000941	0.00100	1	04/17/2021 20:44	WG1653793
Bromodichloromethane	U		0.000136	0.00100	1	04/17/2021 20:44	WG1653793
Bromoform	U		0.000129	0.00100	1	04/17/2021 20:44	WG1653793
Bromomethane	U		0.000605	0.00500	1	04/17/2021 20:44	WG1653793
n-Butylbenzene	U		0.000157	0.00100	1	04/17/2021 20:44	WG1653793
sec-Butylbenzene	U		0.000125	0.00100	1	04/17/2021 20:44	WG1653793
Carbon disulfide	U		0.0000962	0.00100	1	04/17/2021 20:44	WG1653793
Carbon tetrachloride	U		0.000128	0.00100	1	04/17/2021 20:44	WG1653793

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/17/2021 20:44	WG1653793
Chlorodibromomethane	U		0.000140	0.00100	1	04/17/2021 20:44	WG1653793
Chloroethane	U		0.000192	0.00500	1	04/17/2021 20:44	WG1653793
Chloroform	U		0.000111	0.00500	1	04/17/2021 20:44	WG1653793
Chloromethane	U		0.000960	0.00250	1	04/17/2021 20:44	WG1653793
1,2-Dibromoethane	U		0.000126	0.00100	1	04/17/2021 20:44	WG1653793
1,1-Dichloroethane	U		0.000100	0.00100	1	04/17/2021 20:44	WG1653793
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/17/2021 20:44	WG1653793
1,1-Dichloroethene	U		0.000188	0.00100	1	04/17/2021 20:44	WG1653793
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/17/2021 20:44	WG1653793
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/17/2021 20:44	WG1653793
1,2-Dichloropropane	U		0.000149	0.00100	1	04/17/2021 20:44	WG1653793
cis-1,3-Dichloropropene	U	J4	0.000111	0.00100	1	04/17/2021 20:44	WG1653793
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/17/2021 20:44	WG1653793
Ethylbenzene	U		0.000137	0.00100	1	04/17/2021 20:44	WG1653793
Isopropylbenzene	U		0.000105	0.00100	1	04/17/2021 20:44	WG1653793
p-Isopropyltoluene	U		0.000120	0.00100	1	04/17/2021 20:44	WG1653793
2-Butanone (MEK)	U		0.00119	0.0100	1	04/17/2021 20:44	WG1653793
2-Hexanone	U		0.000787	0.0100	1	04/17/2021 20:44	WG1653793
Methylene Chloride	U		0.000430	0.00500	1	04/17/2021 20:44	WG1653793
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/17/2021 20:44	WG1653793
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/17/2021 20:44	WG1653793
Naphthalene	U		0.00100	0.00500	1	04/17/2021 20:44	WG1653793
n-Propylbenzene	U		0.0000993	0.00100	1	04/17/2021 20:44	WG1653793
Styrene	U		0.000118	0.00100	1	04/17/2021 20:44	WG1653793
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/17/2021 20:44	WG1653793
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/17/2021 20:44	WG1653793
Tetrachloroethene	U		0.000300	0.00100	1	04/17/2021 20:44	WG1653793
Toluene	U		0.000278	0.00100	1	04/17/2021 20:44	WG1653793
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/17/2021 20:44	WG1653793
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/17/2021 20:44	WG1653793
Trichloroethene	U		0.000190	0.00100	1	04/17/2021 20:44	WG1653793
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/17/2021 20:44	WG1653793
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/17/2021 20:44	WG1653793
Vinyl chloride	U		0.000234	0.00100	1	04/17/2021 20:44	WG1653793
o-Xylene	U		0.000174	0.00100	1	04/17/2021 20:44	WG1653793
m&p-Xylene	U		0.000430	0.00200	1	04/17/2021 20:44	WG1653793
Xylenes, Total	U		0.000174	0.00300	1	04/17/2021 20:44	WG1653793
(S) Toluene-d8	*114*			*80.0-120*		*04/17/2021 20:44*	WG1653793
(S) 4-Bromofluorobenzene	*94.4*			*77.0-126*		*04/17/2021 20:44*	WG1653793
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*04/17/2021 20:44*	WG1653793

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.135		0.0247	0.100	1	04/22/2021 23:12	WG1656083
(S) o-Terphenyl	*81.1*			*31.0-160*		*04/22/2021 23:12*	WG1656083

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	5410		20.0	1	04/19/2021 20:11	WG1654730

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.721		0.0500	0.100	1	04/18/2021 03:56	WG1653895

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	253		3.79	10.0	10	04/22/2021 09:10	WG1656212
Fluoride	2.49		0.640	1.50	10	04/22/2021 09:10	WG1656212
Sulfate	3320		59.4	500	100	04/22/2021 09:25	WG1656212

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00331		0.000180	0.00200	1	04/26/2021 09:13	WG1656889
Arsenic,Dissolved	0.00345		0.000180	0.00200	1	04/26/2021 14:07	WG1655935
Barium	0.00873	J	0.000381	0.0200	1	04/26/2021 09:13	WG1656889
Barium,Dissolved	0.00814	J	0.000381	0.0200	1	04/26/2021 14:07	WG1655935
Calcium	529		0.0936	1.00	1	04/26/2021 09:13	WG1656889
Chromium	U		0.00124	0.00200	1	04/26/2021 09:13	WG1656889
Chromium,Dissolved	U		0.00124	0.00200	1	04/26/2021 14:07	WG1655935
Iron	0.0551	J	0.0281	0.100	1	04/26/2021 09:13	WG1656889
Iron,Dissolved	U		0.0281	0.100	1	04/26/2021 14:07	WG1655935
Lead	U		0.000849	0.00200	1	04/26/2021 09:13	WG1656889
Lead,Dissolved	U		0.000849	0.00200	1	04/26/2021 14:07	WG1655935
Manganese	0.00154	J	0.000704	0.00500	1	04/26/2021 09:13	WG1656889
Manganese,Dissolved	0.000958	J	0.000704	0.00500	1	04/26/2021 14:07	WG1655935
Potassium	0.258	J	0.108	2.00	1	04/26/2021 09:13	WG1656889
Selenium	0.00904		0.000300	0.00200	1	04/26/2021 09:13	WG1656889
Selenium,Dissolved	0.00956		0.000300	0.00200	1	04/26/2021 14:07	WG1655935
Sodium	226		0.376	2.00	1	04/26/2021 09:13	WG1656889

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0113	0.0500	1	04/17/2021 21:03	WG1653793
Benzene	U		0.0000941	0.00100	1	04/17/2021 21:03	WG1653793
Bromodichloromethane	U		0.000136	0.00100	1	04/17/2021 21:03	WG1653793
Bromoform	U		0.000129	0.00100	1	04/17/2021 21:03	WG1653793
Bromomethane	U		0.000605	0.00500	1	04/17/2021 21:03	WG1653793
n-Butylbenzene	U		0.000157	0.00100	1	04/17/2021 21:03	WG1653793
sec-Butylbenzene	U		0.000125	0.00100	1	04/17/2021 21:03	WG1653793
Carbon disulfide	U		0.0000962	0.00100	1	04/17/2021 21:03	WG1653793
Carbon tetrachloride	U		0.000128	0.00100	1	04/17/2021 21:03	WG1653793
Chlorobenzene	U		0.000116	0.00100	1	04/17/2021 21:03	WG1653793
Chlorodibromomethane	U		0.000140	0.00100	1	04/17/2021 21:03	WG1653793
Chloroethane	U		0.000192	0.00500	1	04/17/2021 21:03	WG1653793
Chloroform	U		0.000111	0.00500	1	04/17/2021 21:03	WG1653793
Chloromethane	U		0.000960	0.00250	1	04/17/2021 21:03	WG1653793
1,2-Dibromoethane	U		0.000126	0.00100	1	04/17/2021 21:03	WG1653793
1,1-Dichloroethane	U		0.000100	0.00100	1	04/17/2021 21:03	WG1653793

NT-3
Collected date/time: 04/13/21 10:05
L1339469

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/17/2021 21:03	WG1653793
1,1-Dichloroethene	U		0.000188	0.00100	1	04/17/2021 21:03	WG1653793
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/17/2021 21:03	WG1653793
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/17/2021 21:03	WG1653793
1,2-Dichloropropane	U		0.000149	0.00100	1	04/17/2021 21:03	WG1653793
cis-1,3-Dichloropropene	U	J4	0.000111	0.00100	1	04/17/2021 21:03	WG1653793
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/17/2021 21:03	WG1653793
Ethylbenzene	U		0.000137	0.00100	1	04/17/2021 21:03	WG1653793
Isopropylbenzene	U		0.000105	0.00100	1	04/17/2021 21:03	WG1653793
p-Isopropyltoluene	U		0.000120	0.00100	1	04/17/2021 21:03	WG1653793
2-Butanone (MEK)	U		0.00119	0.0100	1	04/17/2021 21:03	WG1653793
2-Hexanone	U		0.000787	0.0100	1	04/17/2021 21:03	WG1653793
Methylene Chloride	U		0.000430	0.00500	1	04/17/2021 21:03	WG1653793
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/17/2021 21:03	WG1653793
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/17/2021 21:03	WG1653793
Naphthalene	U		0.00100	0.00500	1	04/17/2021 21:03	WG1653793
n-Propylbenzene	U		0.0000993	0.00100	1	04/17/2021 21:03	WG1653793
Styrene	U		0.000118	0.00100	1	04/17/2021 21:03	WG1653793
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/17/2021 21:03	WG1653793
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/17/2021 21:03	WG1653793
Tetrachloroethene	U		0.000300	0.00100	1	04/17/2021 21:03	WG1653793
Toluene	U		0.000278	0.00100	1	04/17/2021 21:03	WG1653793
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/17/2021 21:03	WG1653793
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/17/2021 21:03	WG1653793
Trichloroethene	U		0.000190	0.00100	1	04/17/2021 21:03	WG1653793
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/17/2021 21:03	WG1653793
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/17/2021 21:03	WG1653793
Vinyl chloride	U		0.000234	0.00100	1	04/17/2021 21:03	WG1653793
o-Xylene	U		0.000174	0.00100	1	04/17/2021 21:03	WG1653793
m&p-Xylene	U		0.000430	0.00200	1	04/17/2021 21:03	WG1653793
Xylenes, Total	U		0.000174	0.00300	1	04/17/2021 21:03	WG1653793
(S) Toluene-d8	*114*			*80.0-120*		*04/17/2021 21:03*	WG1653793
(S) 4-Bromofluorobenzene	*94.3*			*77.0-126*		*04/17/2021 21:03*	WG1653793
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*04/17/2021 21:03*	WG1653793

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0663	J	0.0247	0.100	1	04/22/2021 23:38	WG1656083
(S) o-Terphenyl	*80.0*			*31.0-160*		*04/22/2021 23:38*	WG1656083

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	3640		20.0	1	04/19/2021 20:11	WG1654730

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	13.8		0.250	0.500	5	04/18/2021 03:57	WG1653895

Wet Chemistry by Method 4500CN E-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Cyanide	U		0.00180	0.00500	1	04/23/2021 16:28	WG1656330

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	272		37.9	100	100	04/22/2021 09:57	WG1656212
Fluoride	1.57		0.0640	0.150	1	04/22/2021 09:41	WG1656212
Sulfate	2020		59.4	500	100	04/22/2021 09:57	WG1656212

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.000100	0.000200	1	04/19/2021 07:36	WG1653243
Mercury,Dissolved	U		0.000100	0.000200	1	04/21/2021 17:45	WG1652892

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Boron	0.475		0.0200	0.200	1	04/26/2021 12:28	WG1656874
Boron,Dissolved	0.485		0.0200	0.200	1	04/22/2021 17:32	WG1656496

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00252		0.000180	0.00200	1	04/26/2021 09:17	WG1656889
Arsenic,Dissolved	0.00251		0.000180	0.00200	1	04/25/2021 20:23	WG1658404
Barium	0.0122	J	0.000381	0.0200	1	04/26/2021 09:17	WG1656889
Barium,Dissolved	0.00885	J	0.000381	0.0200	1	04/25/2021 20:23	WG1658404
Cadmium	U		0.000150	0.00100	1	04/26/2021 09:17	WG1656889
Cadmium,Dissolved	U		0.000150	0.00100	1	04/25/2021 20:23	WG1658404
Calcium	580		0.0936	1.00	1	04/26/2021 09:17	WG1656889
Chromium	0.00160	J	0.00124	0.00200	1	04/26/2021 09:17	WG1656889
Chromium,Dissolved	U		0.00124	0.00200	1	04/25/2021 20:23	WG1658404
Cobalt	0.000526	J	0.0000596	0.00200	1	04/26/2021 09:17	WG1656889
Cobalt,Dissolved	0.000378	J	0.0000596	0.00200	1	04/25/2021 20:23	WG1658404
Iron	0.116		0.0281	0.100	1	04/26/2021 09:17	WG1656889
Iron,Dissolved	U		0.0281	0.100	1	04/25/2021 20:23	WG1658404
Lead	0.00247		0.000849	0.00200	1	04/26/2021 09:17	WG1656889
Lead,Dissolved	0.00127	J	0.000849	0.00200	1	04/25/2021 20:23	WG1658404
Manganese	0.0207		0.000704	0.00500	1	04/26/2021 09:17	WG1656889
Manganese,Dissolved	0.00464	J	0.000704	0.00500	1	04/25/2021 20:23	WG1658404
Nickel	0.00359		0.000816	0.00200	1	04/26/2021 09:17	WG1656889
Nickel,Dissolved	0.00276		0.000816	0.00200	1	04/25/2021 20:23	WG1658404

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Potassium	2.25		0.108	2.00	1	04/26/2021 09:17	WG1656889
Selenium	0.00730		0.000300	0.00200	1	04/26/2021 09:17	WG1656889
Selenium,Dissolved	0.00726		0.000300	0.00200	1	04/25/2021 20:23	WG1658404
Sodium	128		0.376	2.00	1	04/26/2021 09:17	WG1656889
Uranium	0.0459		0.0000700	0.0200	1	04/26/2021 09:17	WG1656889
Uranium,Dissolved	0.0405		0.0000700	0.0200	1	04/25/2021 20:23	WG1658404
Vanadium	0.0153		0.000664	0.00500	1	04/26/2021 09:17	WG1656889
Vanadium,Dissolved	0.0148		0.000664	0.00500	1	04/25/2021 20:23	WG1658404

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/23/2021 11:52	WG1657165
(S) a,a,a-Trifluorotoluene(FID)	*98.6*			*78.0-120*		*04/23/2021 11:52*	WG1657165

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/17/2021 21:22	WG1653793
Benzene	U		0.0000941	0.00100	1	04/17/2021 21:22	WG1653793
Bromodichloromethane	U		0.000136	0.00100	1	04/17/2021 21:22	WG1653793
Bromoform	U		0.000129	0.00100	1	04/17/2021 21:22	WG1653793
Bromomethane	U		0.000605	0.00500	1	04/17/2021 21:22	WG1653793
n-Butylbenzene	U		0.000157	0.00100	1	04/17/2021 21:22	WG1653793
sec-Butylbenzene	U		0.000125	0.00100	1	04/17/2021 21:22	WG1653793
Carbon disulfide	U		0.0000962	0.00100	1	04/17/2021 21:22	WG1653793
Carbon tetrachloride	U		0.000128	0.00100	1	04/17/2021 21:22	WG1653793
Chlorobenzene	U		0.000116	0.00100	1	04/17/2021 21:22	WG1653793
Chlorodibromomethane	U		0.000140	0.00100	1	04/17/2021 21:22	WG1653793
Chloroethane	U		0.000192	0.00500	1	04/17/2021 21:22	WG1653793
Chloroform	U		0.000111	0.00500	1	04/17/2021 21:22	WG1653793
Chloromethane	U		0.000960	0.00250	1	04/17/2021 21:22	WG1653793
1,2-Dibromoethane	U		0.000126	0.00100	1	04/17/2021 21:22	WG1653793
1,1-Dichloroethane	U		0.000100	0.00100	1	04/17/2021 21:22	WG1653793
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/17/2021 21:22	WG1653793
1,1-Dichloroethene	U		0.000188	0.00100	1	04/17/2021 21:22	WG1653793
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/17/2021 21:22	WG1653793
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/17/2021 21:22	WG1653793
1,2-Dichloropropane	U		0.000149	0.00100	1	04/17/2021 21:22	WG1653793
cis-1,3-Dichloropropene	U	J4	0.000111	0.00100	1	04/17/2021 21:22	WG1653793
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/17/2021 21:22	WG1653793
Ethylbenzene	U		0.000137	0.00100	1	04/17/2021 21:22	WG1653793
Isopropylbenzene	U		0.000105	0.00100	1	04/17/2021 21:22	WG1653793
p-Isopropyltoluene	U		0.000120	0.00100	1	04/17/2021 21:22	WG1653793
2-Butanone (MEK)	U		0.00119	0.0100	1	04/17/2021 21:22	WG1653793
2-Hexanone	U		0.000787	0.0100	1	04/17/2021 21:22	WG1653793
Methylene Chloride	U		0.000430	0.00500	1	04/17/2021 21:22	WG1653793
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/17/2021 21:22	WG1653793
Methyl tert-butyl ether	0.000430	J	0.000101	0.00100	1	04/17/2021 21:22	WG1653793
Naphthalene	U		0.00100	0.00500	1	04/17/2021 21:22	WG1653793
n-Propylbenzene	U		0.0000993	0.00100	1	04/17/2021 21:22	WG1653793
Styrene	U		0.000118	0.00100	1	04/17/2021 21:22	WG1653793
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/17/2021 21:22	WG1653793
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/17/2021 21:22	WG1653793
Tetrachloroethene	U		0.000300	0.00100	1	04/17/2021 21:22	WG1653793

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Toluene	U		0.000278	0.00100	1	04/17/2021 21:22	WG1653793
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/17/2021 21:22	WG1653793
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/17/2021 21:22	WG1653793
Trichloroethene	U		0.000190	0.00100	1	04/17/2021 21:22	WG1653793
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/17/2021 21:22	WG1653793
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/17/2021 21:22	WG1653793
Vinyl chloride	U		0.000234	0.00100	1	04/17/2021 21:22	WG1653793
o-Xylene	U		0.000174	0.00100	1	04/17/2021 21:22	WG1653793
m&p-Xylene	U		0.000430	0.00200	1	04/17/2021 21:22	WG1653793
Xylenes, Total	U		0.000174	0.00300	1	04/17/2021 21:22	WG1653793
(S) Toluene-d8	*118*			*80.0-120*		*04/17/2021 21:22*	WG1653793
(S) 4-Bromofluorobenzene	*93.7*			*77.0-126*		*04/17/2021 21:22*	WG1653793
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*04/17/2021 21:22*	WG1653793

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.110		0.0247	0.100	1	04/23/2021 00:03	WG1656083
(S) o-Terphenyl	*80.0*			*31.0-160*		*04/23/2021 00:03*	WG1656083

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	4080		20.0	1	04/19/2021 20:11	WG1654730

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.509		0.0500	0.100	1	04/18/2021 03:58	WG1653895

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	243		37.9	100	100	04/22/2021 11:01	WG1656212
Fluoride	0.739		0.0640	0.150	1	04/22/2021 10:45	WG1656212
Sulfate	2210		59.4	500	100	04/22/2021 11:01	WG1656212

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00367		0.000180	0.00200	1	04/26/2021 09:20	WG1656889
Arsenic,Dissolved	0.00385		0.000180	0.00200	1	04/25/2021 20:27	WG1658404
Barium	0.00942	J	0.000381	0.0200	1	04/26/2021 09:20	WG1656889
Barium,Dissolved	0.00918	J	0.000381	0.0200	1	04/25/2021 20:27	WG1658404
Calcium	552		0.0936	1.00	1	04/26/2021 09:20	WG1656889
Chromium	U		0.00124	0.00200	1	04/26/2021 09:20	WG1656889
Chromium,Dissolved	U		0.00124	0.00200	1	04/25/2021 20:27	WG1658404
Iron	U		0.0281	0.100	1	04/26/2021 09:20	WG1656889
Iron,Dissolved	U		0.0281	0.100	1	04/25/2021 20:27	WG1658404
Lead	U		0.000849	0.00200	1	04/26/2021 09:20	WG1656889
Lead,Dissolved	U		0.000849	0.00200	1	04/25/2021 20:27	WG1658404
Manganese	0.0464		0.000704	0.00500	1	04/26/2021 09:20	WG1656889
Manganese,Dissolved	0.0532		0.000704	0.00500	1	04/25/2021 20:27	WG1658404
Potassium	2.31		0.108	2.00	1	04/26/2021 09:20	WG1656889
Selenium	0.00348		0.000300	0.00200	1	04/26/2021 09:20	WG1656889
Selenium,Dissolved	0.00204		0.000300	0.00200	1	04/25/2021 20:27	WG1658404
Sodium	202		0.376	2.00	1	04/26/2021 09:20	WG1656889

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/20/2021 23:31	WG1655180
(S) a,a,a-Trifluorotoluene(FID)	*102*			*78.0-120*		*04/20/2021 23:31*	WG1655180

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0113	0.0500	1	04/17/2021 21:41	WG1653793
Benzene	U		0.0000941	0.00100	1	04/17/2021 21:41	WG1653793
Bromodichloromethane	U		0.000136	0.00100	1	04/17/2021 21:41	WG1653793
Bromoform	U		0.000129	0.00100	1	04/17/2021 21:41	WG1653793
Bromomethane	U		0.000605	0.00500	1	04/17/2021 21:41	WG1653793
n-Butylbenzene	U		0.000157	0.00100	1	04/17/2021 21:41	WG1653793
sec-Butylbenzene	U		0.000125	0.00100	1	04/17/2021 21:41	WG1653793
Carbon disulfide	U		0.0000962	0.00100	1	04/17/2021 21:41	WG1653793
Carbon tetrachloride	U		0.000128	0.00100	1	04/17/2021 21:41	WG1653793

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/17/2021 21:41	WG1653793
Chlorodibromomethane	U		0.000140	0.00100	1	04/17/2021 21:41	WG1653793
Chloroethane	U		0.000192	0.00500	1	04/17/2021 21:41	WG1653793
Chloroform	U		0.000111	0.00500	1	04/17/2021 21:41	WG1653793
Chloromethane	U		0.000960	0.00250	1	04/17/2021 21:41	WG1653793
1,2-Dibromoethane	U		0.000126	0.00100	1	04/17/2021 21:41	WG1653793
1,1-Dichloroethane	U		0.000100	0.00100	1	04/17/2021 21:41	WG1653793
1,2-Dichloroethane	0.000123	J	0.0000819	0.00100	1	04/17/2021 21:41	WG1653793
1,1-Dichloroethene	U		0.000188	0.00100	1	04/17/2021 21:41	WG1653793
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/17/2021 21:41	WG1653793
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/17/2021 21:41	WG1653793
1,2-Dichloropropane	U		0.000149	0.00100	1	04/17/2021 21:41	WG1653793
cis-1,3-Dichloropropene	U	J4	0.000111	0.00100	1	04/17/2021 21:41	WG1653793
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/17/2021 21:41	WG1653793
Ethylbenzene	U		0.000137	0.00100	1	04/17/2021 21:41	WG1653793
Isopropylbenzene	U		0.000105	0.00100	1	04/17/2021 21:41	WG1653793
p-Isopropyltoluene	U		0.000120	0.00100	1	04/17/2021 21:41	WG1653793
2-Butanone (MEK)	U		0.00119	0.0100	1	04/17/2021 21:41	WG1653793
2-Hexanone	U		0.000787	0.0100	1	04/17/2021 21:41	WG1653793
Methylene Chloride	U		0.000430	0.00500	1	04/17/2021 21:41	WG1653793
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/17/2021 21:41	WG1653793
Methyl tert-butyl ether	0.000152	J	0.000101	0.00100	1	04/17/2021 21:41	WG1653793
Naphthalene	U		0.00100	0.00500	1	04/17/2021 21:41	WG1653793
n-Propylbenzene	U		0.0000993	0.00100	1	04/17/2021 21:41	WG1653793
Styrene	U		0.000118	0.00100	1	04/17/2021 21:41	WG1653793
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/17/2021 21:41	WG1653793
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/17/2021 21:41	WG1653793
Tetrachloroethene	U		0.000300	0.00100	1	04/17/2021 21:41	WG1653793
Toluene	U		0.000278	0.00100	1	04/17/2021 21:41	WG1653793
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/17/2021 21:41	WG1653793
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/17/2021 21:41	WG1653793
Trichloroethene	U		0.000190	0.00100	1	04/17/2021 21:41	WG1653793
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/17/2021 21:41	WG1653793
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/17/2021 21:41	WG1653793
Vinyl chloride	U		0.000234	0.00100	1	04/17/2021 21:41	WG1653793
o-Xylene	U		0.000174	0.00100	1	04/17/2021 21:41	WG1653793
m&p-Xylene	U		0.000430	0.00200	1	04/17/2021 21:41	WG1653793
Xylenes, Total	U		0.000174	0.00300	1	04/17/2021 21:41	WG1653793
(S) Toluene-d8	*116*			*80.0-120*		*04/17/2021 21:41*	WG1653793
(S) 4-Bromofluorobenzene	*97.5*			*77.0-126*		*04/17/2021 21:41*	WG1653793
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*04/17/2021 21:41*	WG1653793

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.250		0.0247	0.100	1	04/23/2021 00:29	WG1656083
(S) o-Terphenyl	*88.9*			*31.0-160*		*04/23/2021 00:29*	WG1656083

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4490		20.0	1	04/19/2021 20:11	WG1654730

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.0807	J	0.0500	0.100	1	04/18/2021 04:05	WG1653895

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	275		37.9	100	100	04/22/2021 11:33	WG1656212
Fluoride	1.15		0.0640	0.150	1	04/22/2021 11:17	WG1656212
Sulfate	2580		59.4	500	100	04/22/2021 11:33	WG1656212

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00331		0.000180	0.00200	1	04/26/2021 09:24	WG1656889
Arsenic,Dissolved	0.00315		0.000180	0.00200	1	04/25/2021 19:42	WG1658404
Barium	0.00957	J	0.000381	0.0200	1	04/26/2021 09:24	WG1656889
Barium,Dissolved	0.0100	J	0.000381	0.0200	1	04/25/2021 19:42	WG1658404
Calcium	488		0.0936	1.00	1	04/26/2021 09:24	WG1656889
Chromium	U		0.00124	0.00200	1	04/26/2021 09:24	WG1656889
Chromium,Dissolved	U		0.00124	0.00200	1	04/25/2021 19:42	WG1658404
Iron	0.0295	J	0.0281	0.100	1	04/26/2021 09:24	WG1656889
Iron,Dissolved	U		0.0281	0.100	1	04/25/2021 19:42	WG1658404
Lead	U		0.000849	0.00200	1	04/26/2021 09:24	WG1656889
Lead,Dissolved	U		0.000849	0.00200	1	04/25/2021 19:42	WG1658404
Manganese	0.420		0.000704	0.00500	1	04/26/2021 09:24	WG1656889
Manganese,Dissolved	0.400		0.000704	0.00500	1	04/25/2021 19:42	WG1658404
Potassium	1.24	J	0.108	2.00	1	04/26/2021 09:24	WG1656889
Selenium	0.000303	J	0.000300	0.00200	1	04/26/2021 09:24	WG1656889
Selenium,Dissolved	U		0.000300	0.00200	1	04/25/2021 19:42	WG1658404
Sodium	249		0.376	2.00	1	04/26/2021 09:24	WG1656889

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/17/2021 22:00	WG1653793
Benzene	U		0.0000941	0.00100	1	04/17/2021 22:00	WG1653793
Bromodichloromethane	U		0.000136	0.00100	1	04/17/2021 22:00	WG1653793
Bromoform	U		0.000129	0.00100	1	04/17/2021 22:00	WG1653793
Bromomethane	U		0.000605	0.00500	1	04/17/2021 22:00	WG1653793
n-Butylbenzene	U		0.000157	0.00100	1	04/17/2021 22:00	WG1653793
sec-Butylbenzene	U		0.000125	0.00100	1	04/17/2021 22:00	WG1653793
Carbon disulfide	U		0.0000962	0.00100	1	04/17/2021 22:00	WG1653793
Carbon tetrachloride	U		0.000128	0.00100	1	04/17/2021 22:00	WG1653793
Chlorobenzene	U		0.000116	0.00100	1	04/17/2021 22:00	WG1653793
Chlorodibromomethane	U		0.000140	0.00100	1	04/17/2021 22:00	WG1653793
Chloroethane	U		0.000192	0.00500	1	04/17/2021 22:00	WG1653793
Chloroform	U		0.000111	0.00500	1	04/17/2021 22:00	WG1653793
Chloromethane	U		0.000960	0.00250	1	04/17/2021 22:00	WG1653793
1,2-Dibromoethane	U		0.000126	0.00100	1	04/17/2021 22:00	WG1653793
1,1-Dichloroethane	U		0.000100	0.00100	1	04/17/2021 22:00	WG1653793

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/17/2021 22:00	WG1653793
1,1-Dichloroethene	U		0.000188	0.00100	1	04/17/2021 22:00	WG1653793
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/17/2021 22:00	WG1653793
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/17/2021 22:00	WG1653793
1,2-Dichloropropane	U		0.000149	0.00100	1	04/17/2021 22:00	WG1653793
cis-1,3-Dichloropropene	U	J4	0.000111	0.00100	1	04/17/2021 22:00	WG1653793
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/17/2021 22:00	WG1653793
Ethylbenzene	U		0.000137	0.00100	1	04/17/2021 22:00	WG1653793
Isopropylbenzene	U		0.000105	0.00100	1	04/17/2021 22:00	WG1653793
p-Isopropyltoluene	U		0.000120	0.00100	1	04/17/2021 22:00	WG1653793
2-Butanone (MEK)	U		0.00119	0.0100	1	04/17/2021 22:00	WG1653793
2-Hexanone	U		0.000787	0.0100	1	04/17/2021 22:00	WG1653793
Methylene Chloride	U		0.000430	0.00500	1	04/17/2021 22:00	WG1653793
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/17/2021 22:00	WG1653793
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/17/2021 22:00	WG1653793
Naphthalene	U		0.00100	0.00500	1	04/17/2021 22:00	WG1653793
n-Propylbenzene	U		0.0000993	0.00100	1	04/17/2021 22:00	WG1653793
Styrene	U		0.000118	0.00100	1	04/17/2021 22:00	WG1653793
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/17/2021 22:00	WG1653793
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/17/2021 22:00	WG1653793
Tetrachloroethene	U		0.000300	0.00100	1	04/17/2021 22:00	WG1653793
Toluene	U		0.000278	0.00100	1	04/17/2021 22:00	WG1653793
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/17/2021 22:00	WG1653793
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/17/2021 22:00	WG1653793
Trichloroethene	U		0.000190	0.00100	1	04/17/2021 22:00	WG1653793
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/17/2021 22:00	WG1653793
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/17/2021 22:00	WG1653793
Vinyl chloride	U		0.000234	0.00100	1	04/17/2021 22:00	WG1653793
o-Xylene	U		0.000174	0.00100	1	04/17/2021 22:00	WG1653793
m&p-Xylene	U		0.000430	0.00200	1	04/17/2021 22:00	WG1653793
Xylenes, Total	U		0.000174	0.00300	1	04/17/2021 22:00	WG1653793
(S) Toluene-d8	*116*			*80.0-120*		*04/17/2021 22:00*	WG1653793
(S) 4-Bromofluorobenzene	*95.3*			*77.0-126*		*04/17/2021 22:00*	WG1653793
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*04/17/2021 22:00*	WG1653793

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0847	J	0.0247	0.100	1	04/23/2021 00:55	WG1656083
(S) o-Terphenyl	*87.4*			*31.0-160*		*04/23/2021 00:55*	WG1656083

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	3730		20.0	1	04/19/2021 20:11	WG1654730

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	7.90		0.250	0.500	5	04/18/2021 04:06	WG1653895

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	210		3.79	10.0	10	04/22/2021 11:49	WG1656212
Fluoride	1.88		0.640	1.50	10	04/22/2021 11:49	WG1656212
Sulfate	1910		59.4	500	100	04/22/2021 12:05	WG1656212

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00954		0.000180	0.00200	1	04/26/2021 09:57	WG1656889
Arsenic,Dissolved	0.00345		0.000180	0.00200	1	04/25/2021 20:30	WG1658404
Barium	0.0573		0.000381	0.0200	1	04/26/2021 09:57	WG1656889
Barium,Dissolved	0.0226		0.000381	0.0200	1	04/25/2021 20:30	WG1658404
Calcium	460		0.0936	1.00	1	04/26/2021 09:57	WG1656889
Chromium	0.00558		0.00124	0.00200	1	04/26/2021 09:57	WG1656889
Chromium,Dissolved	U		0.00124	0.00200	1	04/25/2021 20:30	WG1658404
Iron	2.15		0.0281	0.100	1	04/26/2021 09:57	WG1656889
Iron,Dissolved	U		0.0281	0.100	1	04/25/2021 20:30	WG1658404
Lead	0.00445		0.000849	0.00200	1	04/26/2021 09:57	WG1656889
Lead,Dissolved	U		0.000849	0.00200	1	04/25/2021 20:30	WG1658404
Manganese	0.195		0.000704	0.00500	1	04/26/2021 09:57	WG1656889
Manganese,Dissolved	0.158		0.000704	0.00500	1	04/25/2021 20:30	WG1658404
Potassium	1.50	J	0.108	2.00	1	04/26/2021 09:57	WG1656889
Selenium	0.0145		0.000300	0.00200	1	04/26/2021 09:57	WG1656889
Selenium,Dissolved	0.0143		0.000300	0.00200	1	04/25/2021 20:30	WG1658404
Sodium	265		0.376	2.00	1	04/26/2021 09:57	WG1656889

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/20/2021 23:53	WG1655180
(S) a,a,a-Trifluorotoluene(FID)	*102*			*78.0-120*		*04/20/2021 23:53*	WG1655180

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0113	0.0500	1	04/17/2021 22:19	WG1653793
Benzene	U		0.0000941	0.00100	1	04/17/2021 22:19	WG1653793
Bromodichloromethane	U		0.000136	0.00100	1	04/17/2021 22:19	WG1653793
Bromoform	U		0.000129	0.00100	1	04/17/2021 22:19	WG1653793
Bromomethane	U		0.000605	0.00500	1	04/17/2021 22:19	WG1653793
n-Butylbenzene	U		0.000157	0.00100	1	04/17/2021 22:19	WG1653793
sec-Butylbenzene	U		0.000125	0.00100	1	04/17/2021 22:19	WG1653793
Carbon disulfide	U		0.0000962	0.00100	1	04/17/2021 22:19	WG1653793
Carbon tetrachloride	U		0.000128	0.00100	1	04/17/2021 22:19	WG1653793

MW-37
Collected date/time: 04/13/21 11:15
L1339469

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/17/2021 22:19	WG1653793
Chlorodibromomethane	U		0.000140	0.00100	1	04/17/2021 22:19	WG1653793
Chloroethane	U		0.000192	0.00500	1	04/17/2021 22:19	WG1653793
Chloroform	U		0.000111	0.00500	1	04/17/2021 22:19	WG1653793
Chloromethane	U		0.000960	0.00250	1	04/17/2021 22:19	WG1653793
1,2-Dibromoethane	U		0.000126	0.00100	1	04/17/2021 22:19	WG1653793
1,1-Dichloroethane	U		0.000100	0.00100	1	04/17/2021 22:19	WG1653793
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/17/2021 22:19	WG1653793
1,1-Dichloroethene	U		0.000188	0.00100	1	04/17/2021 22:19	WG1653793
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/17/2021 22:19	WG1653793
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/17/2021 22:19	WG1653793
1,2-Dichloropropane	U		0.000149	0.00100	1	04/17/2021 22:19	WG1653793
cis-1,3-Dichloropropene	U	J4	0.000111	0.00100	1	04/17/2021 22:19	WG1653793
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/17/2021 22:19	WG1653793
Ethylbenzene	U		0.000137	0.00100	1	04/17/2021 22:19	WG1653793
Isopropylbenzene	U		0.000105	0.00100	1	04/17/2021 22:19	WG1653793
p-Isopropyltoluene	U		0.000120	0.00100	1	04/17/2021 22:19	WG1653793
2-Butanone (MEK)	U		0.00119	0.0100	1	04/17/2021 22:19	WG1653793
2-Hexanone	U		0.000787	0.0100	1	04/17/2021 22:19	WG1653793
Methylene Chloride	U		0.000430	0.00500	1	04/17/2021 22:19	WG1653793
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/17/2021 22:19	WG1653793
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/17/2021 22:19	WG1653793
Naphthalene	U		0.00100	0.00500	1	04/17/2021 22:19	WG1653793
n-Propylbenzene	U		0.0000993	0.00100	1	04/17/2021 22:19	WG1653793
Styrene	U		0.000118	0.00100	1	04/17/2021 22:19	WG1653793
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/17/2021 22:19	WG1653793
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/17/2021 22:19	WG1653793
Tetrachloroethene	U		0.000300	0.00100	1	04/17/2021 22:19	WG1653793
Toluene	U		0.000278	0.00100	1	04/17/2021 22:19	WG1653793
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/17/2021 22:19	WG1653793
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/17/2021 22:19	WG1653793
Trichloroethene	U		0.000190	0.00100	1	04/17/2021 22:19	WG1653793
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/17/2021 22:19	WG1653793
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/17/2021 22:19	WG1653793
Vinyl chloride	U		0.000234	0.00100	1	04/17/2021 22:19	WG1653793
o-Xylene	U		0.000174	0.00100	1	04/17/2021 22:19	WG1653793
m&p-Xylene	U		0.000430	0.00200	1	04/17/2021 22:19	WG1653793
Xylenes, Total	U		0.000174	0.00300	1	04/17/2021 22:19	WG1653793
(S) Toluene-d8	*115*			*80.0-120*		*04/17/2021 22:19*	WG1653793
(S) 4-Bromofluorobenzene	*94.4*			*77.0-126*		*04/17/2021 22:19*	WG1653793
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*04/17/2021 22:19*	WG1653793

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.117		0.0247	0.100	1	04/22/2021 15:54	WG1656087
(S) o-Terphenyl	*88.9*			*31.0-160*		*04/22/2021 15:54*	WG1656087

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3890		20.0	1	04/19/2021 20:11	WG1654730

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	7.85		0.250	0.500	5	04/18/2021 04:07	WG1653895

Wet Chemistry by Method 4500CN E-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Cyanide	U		0.00180	0.00500	1	04/23/2021 16:29	WG1656330

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	136		37.9	100	100	04/22/2021 12:36	WG1656212
Fluoride	0.374		0.0640	0.150	1	04/22/2021 12:20	WG1656212
Sulfate	2350		59.4	500	100	04/22/2021 12:36	WG1656212

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U		0.000100	0.000200	1	04/19/2021 07:38	WG1653243
Mercury,Dissolved	U		0.000100	0.000200	1	04/21/2021 17:47	WG1652892

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	0.600		0.0200	0.200	1	04/26/2021 12:32	WG1656874
Boron,Dissolved	0.606		0.0200	0.200	1	04/22/2021 17:35	WG1656496

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00177	J	0.000180	0.00200	1	04/26/2021 10:00	WG1656889
Arsenic,Dissolved	0.00173	J	0.000180	0.00200	1	04/25/2021 20:33	WG1658404
Barium	0.0102	J	0.000381	0.0200	1	04/26/2021 10:00	WG1656889
Barium,Dissolved	0.00936	J	0.000381	0.0200	1	04/25/2021 20:33	WG1658404
Cadmium	U		0.000150	0.00100	1	04/26/2021 10:00	WG1656889
Cadmium,Dissolved	U		0.000150	0.00100	1	04/25/2021 20:33	WG1658404
Calcium	562		0.0936	1.00	1	04/26/2021 10:00	WG1656889
Chromium	U		0.00124	0.00200	1	04/26/2021 10:00	WG1656889
Chromium,Dissolved	0.00305		0.00124	0.00200	1	04/25/2021 20:33	WG1658404
Cobalt	0.0000762	J	0.0000596	0.00200	1	04/26/2021 10:00	WG1656889
Cobalt,Dissolved	0.0000950	J	0.0000596	0.00200	1	04/25/2021 20:33	WG1658404
Iron	0.0567	J	0.0281	0.100	1	04/26/2021 10:00	WG1656889
Iron,Dissolved	0.0404	J	0.0281	0.100	1	04/25/2021 20:33	WG1658404
Lead	0.00113	J	0.000849	0.00200	1	04/26/2021 10:00	WG1656889
Lead,Dissolved	U		0.000849	0.00200	1	04/25/2021 20:33	WG1658404
Manganese	0.00260	J	0.000704	0.00500	1	04/26/2021 10:00	WG1656889
Manganese,Dissolved	0.00344	J	0.000704	0.00500	1	04/25/2021 20:33	WG1658404
Nickel	0.00113	J	0.000816	0.00200	1	04/26/2021 10:00	WG1656889
Nickel,Dissolved	0.00262		0.000816	0.00200	1	04/25/2021 20:33	WG1658404

Received by OCD: 1/9/2025 2:41:44 PM

KWD-12B
Collected date/time: 04/13/21 10:05
L1339469

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Potassium	0.691	J	0.108	2.00	1	04/26/2021 10:00	WG1656889
Selenium	0.00317		0.000300	0.00200	1	04/26/2021 10:00	WG1656889
Selenium,Dissolved	0.00288		0.000300	0.00200	1	04/25/2021 20:33	WG1658404
Sodium	140		0.376	2.00	1	04/26/2021 10:00	WG1656889
Uranium	0.0278		0.0000700	0.0200	1	04/26/2021 10:00	WG1656889
Uranium,Dissolved	0.0266		0.0000700	0.0200	1	04/25/2021 20:33	WG1658404
Vanadium	0.0133		0.000664	0.00500	1	04/26/2021 10:00	WG1656889
Vanadium,Dissolved	0.0120		0.000664	0.00500	1	04/25/2021 20:33	WG1658404

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/21/2021 00:14	WG1655180
(S) a,a,a-Trifluorotoluene(FID)	*102*			*78.0-120*		*04/21/2021 00:14*	WG1655180

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/17/2021 22:38	WG1653793
Benzene	U		0.0000941	0.00100	1	04/17/2021 22:38	WG1653793
Bromodichloromethane	U		0.000136	0.00100	1	04/17/2021 22:38	WG1653793
Bromoform	U		0.000129	0.00100	1	04/17/2021 22:38	WG1653793
Bromomethane	U		0.000605	0.00500	1	04/17/2021 22:38	WG1653793
n-Butylbenzene	U		0.000157	0.00100	1	04/17/2021 22:38	WG1653793
sec-Butylbenzene	U		0.000125	0.00100	1	04/17/2021 22:38	WG1653793
Carbon disulfide	U		0.0000962	0.00100	1	04/17/2021 22:38	WG1653793
Carbon tetrachloride	U		0.000128	0.00100	1	04/17/2021 22:38	WG1653793
Chlorobenzene	U		0.000116	0.00100	1	04/17/2021 22:38	WG1653793
Chlorodibromomethane	U		0.000140	0.00100	1	04/17/2021 22:38	WG1653793
Chloroethane	U		0.000192	0.00500	1	04/17/2021 22:38	WG1653793
Chloroform	U		0.000111	0.00500	1	04/17/2021 22:38	WG1653793
Chloromethane	U		0.000960	0.00250	1	04/17/2021 22:38	WG1653793
1,2-Dibromoethane	U		0.000126	0.00100	1	04/17/2021 22:38	WG1653793
1,1-Dichloroethane	U		0.000100	0.00100	1	04/17/2021 22:38	WG1653793
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/17/2021 22:38	WG1653793
1,1-Dichloroethene	U		0.000188	0.00100	1	04/17/2021 22:38	WG1653793
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/17/2021 22:38	WG1653793
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/17/2021 22:38	WG1653793
1,2-Dichloropropane	U		0.000149	0.00100	1	04/17/2021 22:38	WG1653793
cis-1,3-Dichloropropene	U	J4	0.000111	0.00100	1	04/17/2021 22:38	WG1653793
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/17/2021 22:38	WG1653793
Ethylbenzene	U		0.000137	0.00100	1	04/17/2021 22:38	WG1653793
Isopropylbenzene	U		0.000105	0.00100	1	04/17/2021 22:38	WG1653793
p-Isopropyltoluene	U		0.000120	0.00100	1	04/17/2021 22:38	WG1653793
2-Butanone (MEK)	U		0.00119	0.0100	1	04/17/2021 22:38	WG1653793
2-Hexanone	U		0.000787	0.0100	1	04/17/2021 22:38	WG1653793
Methylene Chloride	U		0.000430	0.00500	1	04/17/2021 22:38	WG1653793
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/17/2021 22:38	WG1653793
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/17/2021 22:38	WG1653793
Naphthalene	U		0.00100	0.00500	1	04/17/2021 22:38	WG1653793
n-Propylbenzene	U		0.0000993	0.00100	1	04/17/2021 22:38	WG1653793
Styrene	U		0.000118	0.00100	1	04/17/2021 22:38	WG1653793
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/17/2021 22:38	WG1653793
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/17/2021 22:38	WG1653793
Tetrachloroethene	U		0.000300	0.00100	1	04/17/2021 22:38	WG1653793

Released to Imaging: 2/7/2025 11:08:22 AM

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Toluene	U		0.000278	0.00100	1	04/17/2021 22:38	WG1653793
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/17/2021 22:38	WG1653793
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/17/2021 22:38	WG1653793
Trichloroethene	U		0.000190	0.00100	1	04/17/2021 22:38	WG1653793
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/17/2021 22:38	WG1653793
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/17/2021 22:38	WG1653793
Vinyl chloride	U		0.000234	0.00100	1	04/17/2021 22:38	WG1653793
o-Xylene	U		0.000174	0.00100	1	04/17/2021 22:38	WG1653793
m&p-Xylene	U		0.000430	0.00200	1	04/17/2021 22:38	WG1653793
Xylenes, Total	U		0.000174	0.00300	1	04/17/2021 22:38	WG1653793
(S) Toluene-d8	*117*			*80.0-120*		*04/17/2021 22:38*	WG1653793
(S) 4-Bromofluorobenzene	*95.8*			*77.0-126*		*04/17/2021 22:38*	WG1653793
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*04/17/2021 22:38*	WG1653793

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0955	J	0.0247	0.100	1	04/22/2021 18:28	WG1656087
(S) o-Terphenyl	*96.3*			*31.0-160*		*04/22/2021 18:28*	WG1656087

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3610		20.0	1	04/19/2021 20:11	WG1654730

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	16.1	V	0.500	1.00	10	04/18/2021 04:10	WG1653895

Wet Chemistry by Method 4500CN E-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Cyanide	U		0.00180	0.00500	1	04/23/2021 16:30	WG1656330

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	128		37.9	100	100	04/22/2021 13:08	WG1656212
Fluoride	0.689		0.0640	0.150	1	04/22/2021 12:52	WG1656212
Sulfate	2090		59.4	500	100	04/22/2021 13:08	WG1656212

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U		0.000100	0.000200	1	04/19/2021 07:44	WG1653243
Mercury,Dissolved	U		0.000100	0.000200	1	04/21/2021 17:49	WG1652892

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	0.287		0.0200	0.200	1	04/26/2021 12:35	WG1656874
Boron,Dissolved	0.291		0.0200	0.200	1	04/22/2021 17:38	WG1656496

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00822		0.000180	0.00200	1	04/26/2021 10:04	WG1656889
Arsenic,Dissolved	0.00217		0.000180	0.00200	1	04/25/2021 20:37	WG1658404
Barium	0.0713		0.000381	0.0200	1	04/26/2021 10:04	WG1656889
Barium,Dissolved	0.0142	J	0.000381	0.0200	1	04/25/2021 20:37	WG1658404
Cadmium	0.000652	J	0.000150	0.00100	1	04/26/2021 10:04	WG1656889
Cadmium,Dissolved	U		0.000150	0.00100	1	04/25/2021 20:37	WG1658404
Calcium	660		0.0936	1.00	1	04/26/2021 10:04	WG1656889
Chromium	0.0152		0.00124	0.00200	1	04/26/2021 10:04	WG1656889
Chromium,Dissolved	0.00124	J	0.00124	0.00200	1	04/25/2021 20:37	WG1658404
Cobalt	0.00279		0.0000596	0.00200	1	04/26/2021 10:04	WG1656889
Cobalt,Dissolved	0.000138	J	0.0000596	0.00200	1	04/25/2021 20:37	WG1658404
Iron	10.8		0.0281	0.100	1	04/26/2021 10:04	WG1656889
Iron,Dissolved	U		0.0281	0.100	1	04/25/2021 20:37	WG1658404
Lead	0.00870		0.000849	0.00200	1	04/26/2021 10:04	WG1656889
Lead,Dissolved	U		0.000849	0.00200	1	04/25/2021 20:37	WG1658404
Manganese	0.179		0.000704	0.00500	1	04/26/2021 10:04	WG1656889
Manganese,Dissolved	0.00336	J	0.000704	0.00500	1	04/25/2021 20:37	WG1658404
Nickel	0.0107		0.000816	0.00200	1	04/26/2021 10:04	WG1656889
Nickel,Dissolved	0.00114	J	0.000816	0.00200	1	04/25/2021 20:37	WG1658404

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Potassium	3.54		0.108	2.00	1	04/26/2021 10:04	WG1656889
Selenium	0.0115		0.000300	0.00200	1	04/26/2021 10:04	WG1656889
Selenium,Dissolved	0.0126		0.000300	0.00200	1	04/25/2021 20:37	WG1658404
Sodium	181		0.376	2.00	1	04/26/2021 10:04	WG1656889
Uranium	0.0196	J	0.0000700	0.0200	1	04/26/2021 10:04	WG1656889
Uranium,Dissolved	0.0220		0.0000700	0.0200	1	04/25/2021 20:37	WG1658404
Vanadium	0.0446		0.000664	0.00500	1	04/26/2021 10:04	WG1656889
Vanadium,Dissolved	0.0174		0.000664	0.00500	1	04/25/2021 20:37	WG1658404

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/17/2021 22:57	WG1653793
Benzene	0.000162	J	0.0000941	0.00100	1	04/17/2021 22:57	WG1653793
Bromodichloromethane	U		0.000136	0.00100	1	04/17/2021 22:57	WG1653793
Bromoform	U		0.000129	0.00100	1	04/17/2021 22:57	WG1653793
Bromomethane	U		0.000605	0.00500	1	04/17/2021 22:57	WG1653793
n-Butylbenzene	U		0.000157	0.00100	1	04/17/2021 22:57	WG1653793
sec-Butylbenzene	U		0.000125	0.00100	1	04/17/2021 22:57	WG1653793
Carbon disulfide	U		0.0000962	0.00100	1	04/17/2021 22:57	WG1653793
Carbon tetrachloride	U		0.000128	0.00100	1	04/17/2021 22:57	WG1653793
Chlorobenzene	U		0.000116	0.00100	1	04/17/2021 22:57	WG1653793
Chlorodibromomethane	U		0.000140	0.00100	1	04/17/2021 22:57	WG1653793
Chloroethane	U		0.000192	0.00500	1	04/17/2021 22:57	WG1653793
Chloroform	U		0.000111	0.00500	1	04/17/2021 22:57	WG1653793
Chloromethane	U		0.000960	0.00250	1	04/17/2021 22:57	WG1653793
1,2-Dibromoethane	U		0.000126	0.00100	1	04/17/2021 22:57	WG1653793
1,1-Dichloroethane	U		0.000100	0.00100	1	04/17/2021 22:57	WG1653793
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/17/2021 22:57	WG1653793
1,1-Dichloroethene	U		0.000188	0.00100	1	04/17/2021 22:57	WG1653793
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/17/2021 22:57	WG1653793
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/17/2021 22:57	WG1653793
1,2-Dichloropropane	U		0.000149	0.00100	1	04/17/2021 22:57	WG1653793
cis-1,3-Dichloropropene	U	J4	0.000111	0.00100	1	04/17/2021 22:57	WG1653793
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/17/2021 22:57	WG1653793
Ethylbenzene	0.000210	J	0.000137	0.00100	1	04/17/2021 22:57	WG1653793
Isopropylbenzene	U		0.000105	0.00100	1	04/17/2021 22:57	WG1653793
p-Isopropyltoluene	U		0.000120	0.00100	1	04/17/2021 22:57	WG1653793
2-Butanone (MEK)	U		0.00119	0.0100	1	04/17/2021 22:57	WG1653793
2-Hexanone	U		0.000787	0.0100	1	04/17/2021 22:57	WG1653793
Methylene Chloride	U		0.000430	0.00500	1	04/17/2021 22:57	WG1653793
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/17/2021 22:57	WG1653793
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/17/2021 22:57	WG1653793
Naphthalene	U		0.00100	0.00500	1	04/17/2021 22:57	WG1653793
n-Propylbenzene	U		0.0000993	0.00100	1	04/17/2021 22:57	WG1653793
Styrene	U		0.000118	0.00100	1	04/17/2021 22:57	WG1653793
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/17/2021 22:57	WG1653793
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/17/2021 22:57	WG1653793
Tetrachloroethene	U		0.000300	0.00100	1	04/17/2021 22:57	WG1653793
Toluene	U		0.000278	0.00100	1	04/17/2021 22:57	WG1653793
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/17/2021 22:57	WG1653793
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/17/2021 22:57	WG1653793
Trichloroethene	U		0.000190	0.00100	1	04/17/2021 22:57	WG1653793
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/17/2021 22:57	WG1653793
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/17/2021 22:57	WG1653793
Vinyl chloride	U		0.000234	0.00100	1	04/17/2021 22:57	WG1653793

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
o-Xylene	U		0.000174	0.00100	1	04/17/2021 22:57	WG1653793
m&p-Xylene	0.000438	J	0.000430	0.00200	1	04/17/2021 22:57	WG1653793
Xylenes, Total	0.000438	J	0.000174	0.00300	1	04/17/2021 22:57	WG1653793
(S) Toluene-d8	*118*			*80.0-120*		*04/17/2021 22:57*	WG1653793
(S) 4-Bromofluorobenzene	*96.2*			*77.0-126*		*04/17/2021 22:57*	WG1653793
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*04/17/2021 22:57*	WG1653793

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0527	J	0.0247	0.100	1	04/22/2021 16:11	WG1656087
(S) o-Terphenyl	*92.1*			*31.0-160*		*04/22/2021 16:11*	WG1656087

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1820		10.0	1	04/19/2021 20:11	WG1654730

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.109		0.0500	0.100	1	04/18/2021 06:08	WG1653896

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	55.4		0.379	1.00	1	04/22/2021 03:24	WG1656213
Fluoride	1.15		0.0640	0.150	1	04/22/2021 03:24	WG1656213
Sulfate	935		59.4	500	100	04/22/2021 03:41	WG1656213

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00144	J	0.000180	0.00200	1	04/26/2021 10:08	WG1656889
Arsenic,Dissolved	0.00149	J	0.000180	0.00200	1	04/25/2021 20:40	WG1658404
Barium	0.0225		0.000381	0.0200	1	04/26/2021 10:08	WG1656889
Barium,Dissolved	0.0215		0.000381	0.0200	1	04/25/2021 20:40	WG1658404
Calcium	321		0.0936	1.00	1	04/26/2021 10:08	WG1656889
Chromium	0.00174	J	0.00124	0.00200	1	04/26/2021 10:08	WG1656889
Chromium,Dissolved	U		0.00124	0.00200	1	04/25/2021 20:40	WG1658404
Iron	U		0.0281	0.100	1	04/26/2021 10:08	WG1656889
Iron,Dissolved	U		0.0281	0.100	1	04/25/2021 20:40	WG1658404
Lead	0.000964	J	0.000849	0.00200	1	04/26/2021 10:08	WG1656889
Lead,Dissolved	U		0.000849	0.00200	1	04/25/2021 20:40	WG1658404
Manganese	0.0383		0.000704	0.00500	1	04/26/2021 10:08	WG1656889
Manganese,Dissolved	0.0338		0.000704	0.00500	1	04/25/2021 20:40	WG1658404
Potassium	4.78		0.108	2.00	1	04/26/2021 10:08	WG1656889
Selenium	U		0.000300	0.00200	1	04/26/2021 10:08	WG1656889
Selenium,Dissolved	U		0.000300	0.00200	1	04/25/2021 20:40	WG1658404
Sodium	67.3		0.376	2.00	1	04/26/2021 10:08	WG1656889

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	1.06		0.0314	0.100	1	04/21/2021 00:36	WG1655180
(S) a,a,a-Trifluorotoluene(FID)	*103*			*78.0-120*		*04/21/2021 00:36*	WG1655180

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/17/2021 23:16	WG1653793
Benzene	0.0163		0.0000941	0.00100	1	04/17/2021 23:16	WG1653793
Bromodichloromethane	U		0.000136	0.00100	1	04/17/2021 23:16	WG1653793
Bromoform	U		0.000129	0.00100	1	04/17/2021 23:16	WG1653793
Bromomethane	U		0.000605	0.00500	1	04/17/2021 23:16	WG1653793
n-Butylbenzene	0.000347	J	0.000157	0.00100	1	04/17/2021 23:16	WG1653793
sec-Butylbenzene	0.0403		0.000125	0.00100	1	04/17/2021 23:16	WG1653793
Carbon disulfide	0.000232	J	0.0000962	0.00100	1	04/17/2021 23:16	WG1653793
Carbon tetrachloride	U		0.000128	0.00100	1	04/17/2021 23:16	WG1653793

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/17/2021 23:16	WG1653793
Chlorodibromomethane	U		0.000140	0.00100	1	04/17/2021 23:16	WG1653793
Chloroethane	U		0.000192	0.00500	1	04/17/2021 23:16	WG1653793
Chloroform	U		0.000111	0.00500	1	04/17/2021 23:16	WG1653793
Chloromethane	U		0.000960	0.00250	1	04/17/2021 23:16	WG1653793
1,2-Dibromoethane	U		0.000126	0.00100	1	04/17/2021 23:16	WG1653793
1,1-Dichloroethane	U		0.000100	0.00100	1	04/17/2021 23:16	WG1653793
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/17/2021 23:16	WG1653793
1,1-Dichloroethene	U		0.000188	0.00100	1	04/17/2021 23:16	WG1653793
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/17/2021 23:16	WG1653793
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/17/2021 23:16	WG1653793
1,2-Dichloropropane	U		0.000149	0.00100	1	04/17/2021 23:16	WG1653793
cis-1,3-Dichloropropene	U	J4	0.000111	0.00100	1	04/17/2021 23:16	WG1653793
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/17/2021 23:16	WG1653793
Ethylbenzene	U		0.000137	0.00100	1	04/17/2021 23:16	WG1653793
Isopropylbenzene	0.0228		0.000105	0.00100	1	04/17/2021 23:16	WG1653793
p-Isopropyltoluene	U		0.000120	0.00100	1	04/17/2021 23:16	WG1653793
2-Butanone (MEK)	U		0.00119	0.0100	1	04/17/2021 23:16	WG1653793
2-Hexanone	U		0.000787	0.0100	1	04/17/2021 23:16	WG1653793
Methylene Chloride	U		0.000430	0.00500	1	04/17/2021 23:16	WG1653793
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/17/2021 23:16	WG1653793
Methyl tert-butyl ether	0.000406	J	0.000101	0.00100	1	04/17/2021 23:16	WG1653793
Naphthalene	U		0.00100	0.00500	1	04/17/2021 23:16	WG1653793
n-Propylbenzene	0.00217		0.0000993	0.00100	1	04/17/2021 23:16	WG1653793
Styrene	U		0.000118	0.00100	1	04/17/2021 23:16	WG1653793
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/17/2021 23:16	WG1653793
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/17/2021 23:16	WG1653793
Tetrachloroethene	U		0.000300	0.00100	1	04/17/2021 23:16	WG1653793
Toluene	U		0.000278	0.00100	1	04/17/2021 23:16	WG1653793
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/17/2021 23:16	WG1653793
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/17/2021 23:16	WG1653793
Trichloroethene	U		0.000190	0.00100	1	04/17/2021 23:16	WG1653793
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/17/2021 23:16	WG1653793
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/17/2021 23:16	WG1653793
Vinyl chloride	U		0.000234	0.00100	1	04/17/2021 23:16	WG1653793
o-Xylene	U		0.000174	0.00100	1	04/17/2021 23:16	WG1653793
m&p-Xylene	U		0.000430	0.00200	1	04/17/2021 23:16	WG1653793
Xylenes, Total	U		0.000174	0.00300	1	04/17/2021 23:16	WG1653793
(S) Toluene-d8	*121*	J1		*80.0-120*		*04/17/2021 23:16*	WG1653793
(S) 4-Bromofluorobenzene	*95.9*			*77.0-126*		*04/17/2021 23:16*	WG1653793
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*04/17/2021 23:16*	WG1653793

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.762		0.0247	0.100	1	04/22/2021 16:28	WG1656087
(S) o-Terphenyl	*96.8*			*31.0-160*		*04/22/2021 16:28*	WG1656087

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3380		20.0	1	04/19/2021 20:11	WG1654730

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		50.0	100	1000	04/18/2021 06:10	WG1653896

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	195		37.9	100	100	04/22/2021 04:14	WG1656213
Fluoride	1.58		0.0640	0.150	1	04/22/2021 03:57	WG1656213
Sulfate	1390		59.4	500	100	04/22/2021 04:14	WG1656213

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.000700	J	0.000180	0.00200	1	04/26/2021 10:11	WG1656889
Arsenic,Dissolved	0.00100	J	0.000180	0.00200	1	04/25/2021 20:44	WG1658404
Barium	0.0193	J	0.000381	0.0200	1	04/26/2021 10:11	WG1656889
Barium,Dissolved	0.0187	J	0.000381	0.0200	1	04/25/2021 20:44	WG1658404
Calcium	580		0.0936	1.00	1	04/26/2021 10:11	WG1656889
Chromium	0.00134	J	0.00124	0.00200	1	04/26/2021 10:11	WG1656889
Chromium,Dissolved	U		0.00124	0.00200	1	04/25/2021 20:44	WG1658404
Iron	0.0480	J	0.0281	0.100	1	04/26/2021 10:11	WG1656889
Iron,Dissolved	U		0.0281	0.100	1	04/25/2021 20:44	WG1658404
Lead	0.00642		0.000849	0.00200	1	04/26/2021 10:11	WG1656889
Lead,Dissolved	0.00492		0.000849	0.00200	1	04/25/2021 20:44	WG1658404
Manganese	0.0219		0.000704	0.00500	1	04/26/2021 10:11	WG1656889
Manganese,Dissolved	0.0208		0.000704	0.00500	1	04/25/2021 20:44	WG1658404
Potassium	0.219	J	0.108	2.00	1	04/26/2021 10:11	WG1656889
Selenium	0.000516	J	0.000300	0.00200	1	04/26/2021 10:11	WG1656889
Selenium,Dissolved	U		0.000300	0.00200	1	04/25/2021 20:44	WG1658404
Sodium	166		0.376	2.00	1	04/26/2021 10:11	WG1656889

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	14.4		1.57	5.00	50	04/22/2021 19:04	WG1655942
(S) a,a,a-Trifluorotoluene(FID)	*99.2*			*78.0-120*		*04/22/2021 19:04*	WG1655942

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.565	2.50	50	04/18/2021 02:07	WG1653793
Benzene	1.12		0.00471	0.0500	50	04/18/2021 02:07	WG1653793
Bromodichloromethane	U		0.00680	0.0500	50	04/18/2021 02:07	WG1653793
Bromoform	U		0.00645	0.0500	50	04/18/2021 02:07	WG1653793
Bromomethane	U		0.0303	0.250	50	04/18/2021 02:07	WG1653793
n-Butylbenzene	U		0.00785	0.0500	50	04/18/2021 02:07	WG1653793
sec-Butylbenzene	0.00820	J	0.00625	0.0500	50	04/18/2021 02:07	WG1653793
Carbon disulfide	U		0.00481	0.0500	50	04/18/2021 02:07	WG1653793
Carbon tetrachloride	U		0.00640	0.0500	50	04/18/2021 02:07	WG1653793

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.00580	0.0500	50	04/18/2021 02:07	WG1653793
Chlorodibromomethane	U		0.00700	0.0500	50	04/18/2021 02:07	WG1653793
Chloroethane	U		0.00960	0.250	50	04/18/2021 02:07	WG1653793
Chloroform	U		0.00555	0.250	50	04/18/2021 02:07	WG1653793
Chloromethane	U		0.0480	0.125	50	04/18/2021 02:07	WG1653793
1,2-Dibromoethane	U		0.00630	0.0500	50	04/18/2021 02:07	WG1653793
1,1-Dichloroethane	U		0.00500	0.0500	50	04/18/2021 02:07	WG1653793
1,2-Dichloroethane	U		0.00409	0.0500	50	04/18/2021 02:07	WG1653793
1,1-Dichloroethene	U		0.00940	0.0500	50	04/18/2021 02:07	WG1653793
cis-1,2-Dichloroethene	U		0.00630	0.0500	50	04/18/2021 02:07	WG1653793
trans-1,2-Dichloroethene	U		0.00745	0.0500	50	04/18/2021 02:07	WG1653793
1,2-Dichloropropane	U		0.00745	0.0500	50	04/18/2021 02:07	WG1653793
cis-1,3-Dichloropropene	U	J4	0.00555	0.0500	50	04/18/2021 02:07	WG1653793
trans-1,3-Dichloropropene	U		0.00590	0.0500	50	04/18/2021 02:07	WG1653793
Ethylbenzene	0.938		0.00685	0.0500	50	04/18/2021 02:07	WG1653793
Isopropylbenzene	0.0818		0.00525	0.0500	50	04/18/2021 02:07	WG1653793
p-Isopropyltoluene	U		0.00600	0.0500	50	04/18/2021 02:07	WG1653793
2-Butanone (MEK)	U		0.0595	0.500	50	04/18/2021 02:07	WG1653793
2-Hexanone	U		0.0394	0.500	50	04/18/2021 02:07	WG1653793
Methylene Chloride	U		0.0215	0.250	50	04/18/2021 02:07	WG1653793
4-Methyl-2-pentanone (MIBK)	U		0.0239	0.500	50	04/18/2021 02:07	WG1653793
Methyl tert-butyl ether	U		0.00505	0.0500	50	04/18/2021 02:07	WG1653793
Naphthalene	0.294		0.0500	0.250	50	04/18/2021 02:07	WG1653793
n-Propylbenzene	0.106		0.00497	0.0500	50	04/18/2021 02:07	WG1653793
Styrene	U		0.00590	0.0500	50	04/18/2021 02:07	WG1653793
1,1,1,2-Tetrachloroethane	U		0.00735	0.0500	50	04/18/2021 02:07	WG1653793
1,1,2,2-Tetrachloroethane	U		0.00665	0.0500	50	04/18/2021 02:07	WG1653793
Tetrachloroethene	U		0.0150	0.0500	50	04/18/2021 02:07	WG1653793
Toluene	0.227		0.0139	0.0500	50	04/18/2021 02:07	WG1653793
1,1,1-Trichloroethane	U		0.00745	0.0500	50	04/18/2021 02:07	WG1653793
1,1,2-Trichloroethane	U		0.00790	0.0500	50	04/18/2021 02:07	WG1653793
Trichloroethene	U		0.00950	0.0500	50	04/18/2021 02:07	WG1653793
1,2,4-Trimethylbenzene	0.431		0.0161	0.0500	50	04/18/2021 02:07	WG1653793
1,3,5-Trimethylbenzene	0.0924		0.00520	0.0500	50	04/18/2021 02:07	WG1653793
Vinyl chloride	U		0.0117	0.0500	50	04/18/2021 02:07	WG1653793
o-Xylene	0.0253	J	0.00870	0.0500	50	04/18/2021 02:07	WG1653793
m&p-Xylene	1.81		0.0215	0.100	50	04/18/2021 02:07	WG1653793
Xylenes, Total	1.84		0.00870	0.150	50	04/18/2021 02:07	WG1653793
(S) Toluene-d8	*112*			*80.0-120*		*04/18/2021 02:07*	WG1653793
(S) 4-Bromofluorobenzene	*97.0*			*77.0-126*		*04/18/2021 02:07*	WG1653793
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*04/18/2021 02:07*	WG1653793

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	4.89		0.0247	0.100	1	04/22/2021 16:28	WG1656087
(S) o-Terphenyl	*94.7*			*31.0-160*		*04/22/2021 16:28*	WG1656087

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2730		20.0	1	04/19/2021 20:11	WG1654730

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.0679	J	0.0500	0.100	1	04/18/2021 06:13	WG1653896

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	193		37.9	100	100	04/22/2021 04:46	WG1656213
Fluoride	3.26		0.0640	0.150	1	04/22/2021 04:30	WG1656213
Sulfate	1110		59.4	500	100	04/22/2021 04:46	WG1656213

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00573		0.000180	0.00200	1	04/26/2021 10:15	WG1656889
Arsenic,Dissolved	0.00529		0.000180	0.00200	1	04/25/2021 20:47	WG1658404
Barium	0.0209		0.000381	0.0200	1	04/26/2021 10:15	WG1656889
Barium,Dissolved	0.0208		0.000381	0.0200	1	04/25/2021 20:47	WG1658404
Calcium	353		0.0936	1.00	1	04/26/2021 10:15	WG1656889
Chromium	U		0.00124	0.00200	1	04/26/2021 10:15	WG1656889
Chromium,Dissolved	U		0.00124	0.00200	1	04/25/2021 20:47	WG1658404
Iron	0.0380	J	0.0281	0.100	1	04/26/2021 10:15	WG1656889
Iron,Dissolved	U		0.0281	0.100	1	04/25/2021 20:47	WG1658404
Lead	U		0.000849	0.00200	1	04/26/2021 10:15	WG1656889
Lead,Dissolved	U		0.000849	0.00200	1	04/25/2021 20:47	WG1658404
Manganese	0.157		0.000704	0.00500	1	04/26/2021 10:15	WG1656889
Manganese,Dissolved	0.142		0.000704	0.00500	1	04/25/2021 20:47	WG1658404
Potassium	3.53		0.108	2.00	1	04/26/2021 10:15	WG1656889
Selenium	0.000422	J	0.000300	0.00200	1	04/26/2021 10:15	WG1656889
Selenium,Dissolved	U		0.000300	0.00200	1	04/25/2021 20:47	WG1658404
Sodium	312		0.376	2.00	1	04/26/2021 10:15	WG1656889

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.532		0.0314	0.100	1	04/21/2021 00:58	WG1655180
(S) a,a,a-Trifluorotoluene(FID)	*101*			*78.0-120*		*04/21/2021 00:58*	WG1655180

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/17/2021 23:35	WG1653793
Benzene	0.000378	J	0.0000941	0.00100	1	04/17/2021 23:35	WG1653793
Bromodichloromethane	U		0.000136	0.00100	1	04/17/2021 23:35	WG1653793
Bromoform	U		0.000129	0.00100	1	04/17/2021 23:35	WG1653793
Bromomethane	U		0.000605	0.00500	1	04/17/2021 23:35	WG1653793
n-Butylbenzene	U		0.000157	0.00100	1	04/17/2021 23:35	WG1653793
sec-Butylbenzene	0.000615	J	0.000125	0.00100	1	04/17/2021 23:35	WG1653793
Carbon disulfide	U		0.0000962	0.00100	1	04/17/2021 23:35	WG1653793
Carbon tetrachloride	U		0.000128	0.00100	1	04/17/2021 23:35	WG1653793

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/17/2021 23:35	WG1653793
Chlorodibromomethane	U		0.000140	0.00100	1	04/17/2021 23:35	WG1653793
Chloroethane	U		0.000192	0.00500	1	04/17/2021 23:35	WG1653793
Chloroform	U		0.000111	0.00500	1	04/17/2021 23:35	WG1653793
Chloromethane	U		0.000960	0.00250	1	04/17/2021 23:35	WG1653793
1,2-Dibromoethane	U		0.000126	0.00100	1	04/17/2021 23:35	WG1653793
1,1-Dichloroethane	U		0.000100	0.00100	1	04/17/2021 23:35	WG1653793
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/17/2021 23:35	WG1653793
1,1-Dichloroethene	U		0.000188	0.00100	1	04/17/2021 23:35	WG1653793
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/17/2021 23:35	WG1653793
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/17/2021 23:35	WG1653793
1,2-Dichloropropane	U		0.000149	0.00100	1	04/17/2021 23:35	WG1653793
cis-1,3-Dichloropropene	U	J4	0.000111	0.00100	1	04/17/2021 23:35	WG1653793
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/17/2021 23:35	WG1653793
Ethylbenzene	0.00500		0.000137	0.00100	1	04/17/2021 23:35	WG1653793
Isopropylbenzene	0.00387		0.000105	0.00100	1	04/17/2021 23:35	WG1653793
p-Isopropyltoluene	U		0.000120	0.00100	1	04/17/2021 23:35	WG1653793
2-Butanone (MEK)	U		0.00119	0.0100	1	04/17/2021 23:35	WG1653793
2-Hexanone	U		0.000787	0.0100	1	04/17/2021 23:35	WG1653793
Methylene Chloride	U		0.000430	0.00500	1	04/17/2021 23:35	WG1653793
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/17/2021 23:35	WG1653793
Methyl tert-butyl ether	0.00268		0.000101	0.00100	1	04/17/2021 23:35	WG1653793
Naphthalene	0.00196	J	0.00100	0.00500	1	04/17/2021 23:35	WG1653793
n-Propylbenzene	0.000395	J	0.0000993	0.00100	1	04/17/2021 23:35	WG1653793
Styrene	U		0.000118	0.00100	1	04/17/2021 23:35	WG1653793
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/17/2021 23:35	WG1653793
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/17/2021 23:35	WG1653793
Tetrachloroethene	U		0.000300	0.00100	1	04/17/2021 23:35	WG1653793
Toluene	0.0104		0.000278	0.00100	1	04/17/2021 23:35	WG1653793
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/17/2021 23:35	WG1653793
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/17/2021 23:35	WG1653793
Trichloroethene	U		0.000190	0.00100	1	04/17/2021 23:35	WG1653793
1,2,4-Trimethylbenzene	0.00429		0.000322	0.00100	1	04/17/2021 23:35	WG1653793
1,3,5-Trimethylbenzene	0.000850	J	0.000104	0.00100	1	04/17/2021 23:35	WG1653793
Vinyl chloride	U		0.000234	0.00100	1	04/17/2021 23:35	WG1653793
o-Xylene	0.0170		0.000174	0.00100	1	04/17/2021 23:35	WG1653793
m&p-Xylene	0.00301		0.000430	0.00200	1	04/17/2021 23:35	WG1653793
Xylenes, Total	0.0200		0.000174	0.00300	1	04/17/2021 23:35	WG1653793
(S) Toluene-d8	*115*			*80.0-120*		*04/17/2021 23:35*	WG1653793
(S) 4-Bromofluorobenzene	*98.9*			*77.0-126*		*04/17/2021 23:35*	WG1653793
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*04/17/2021 23:35*	WG1653793

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	6.96		0.0247	0.100	1	04/22/2021 18:45	WG1656087
(S) o-Terphenyl	*120*			*31.0-160*		*04/22/2021 18:45*	WG1656087

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	3260		20.0	1	04/19/2021 20:11	WG1654730

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.0500	0.100	1	04/28/2021 21:30	WG1660820

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	322		37.9	100	100	04/22/2021 05:19	WG1656213
Fluoride	1.01		0.0640	0.150	1	04/22/2021 05:03	WG1656213
Sulfate	1580		59.4	500	100	04/22/2021 05:19	WG1656213

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0209		0.000180	0.00200	1	04/26/2021 10:19	WG1656889
Arsenic,Dissolved	0.0240		0.000180	0.00200	1	04/25/2021 20:52	WG1658404
Barium	0.0281		0.000381	0.0200	1	04/26/2021 10:19	WG1656889
Barium,Dissolved	0.0276		0.000381	0.0200	1	04/25/2021 20:52	WG1658404
Calcium	308		0.0936	1.00	1	04/26/2021 10:19	WG1656889
Chromium	0.00210		0.00124	0.00200	1	04/26/2021 10:19	WG1656889
Chromium,Dissolved	0.00156	J	0.00124	0.00200	1	04/25/2021 20:52	WG1658404
Iron	0.279		0.0281	0.100	1	04/26/2021 10:19	WG1656889
Iron,Dissolved	U		0.0281	0.100	1	04/25/2021 20:52	WG1658404
Lead	0.00341		0.000849	0.00200	1	04/26/2021 10:19	WG1656889
Lead,Dissolved	0.00206		0.000849	0.00200	1	04/25/2021 20:52	WG1658404
Manganese	0.0323		0.000704	0.00500	1	04/26/2021 10:19	WG1656889
Manganese,Dissolved	0.0301		0.000704	0.00500	1	04/25/2021 20:52	WG1658404
Potassium	1.02	J	0.108	2.00	1	04/26/2021 10:19	WG1656889
Selenium	0.000651	J	0.000300	0.00200	1	04/26/2021 10:19	WG1656889
Selenium,Dissolved	0.000577	J	0.000300	0.00200	1	04/25/2021 20:52	WG1658404
Sodium	333		0.376	2.00	1	04/26/2021 10:19	WG1656889

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	24.4		6.28	20.0	200	04/22/2021 19:26	WG1655942
(S) a,a,a-Trifluorotoluene(FID)	*99.3*			*78.0-120*		*04/22/2021 19:26*	WG1655942

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		2.26	10.0	200	04/18/2021 02:26	WG1653793
Benzene	9.39		0.0188	0.200	200	04/18/2021 02:26	WG1653793
Bromodichloromethane	U		0.0272	0.200	200	04/18/2021 02:26	WG1653793
Bromoform	U		0.0258	0.200	200	04/18/2021 02:26	WG1653793
Bromomethane	U		0.121	1.00	200	04/18/2021 02:26	WG1653793
n-Butylbenzene	U		0.0314	0.200	200	04/18/2021 02:26	WG1653793
sec-Butylbenzene	U		0.0250	0.200	200	04/18/2021 02:26	WG1653793
Carbon disulfide	U		0.0192	0.200	200	04/18/2021 02:26	WG1653793
Carbon tetrachloride	U		0.0256	0.200	200	04/18/2021 02:26	WG1653793

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.0232	0.200	200	04/18/2021 02:26	WG1653793
Chlorodibromomethane	U		0.0280	0.200	200	04/18/2021 02:26	WG1653793
Chloroethane	U		0.0384	1.00	200	04/18/2021 02:26	WG1653793
Chloroform	U		0.0222	1.00	200	04/18/2021 02:26	WG1653793
Chloromethane	U		0.192	0.500	200	04/18/2021 02:26	WG1653793
1,2-Dibromoethane	U		0.0252	0.200	200	04/18/2021 02:26	WG1653793
1,1-Dichloroethane	U		0.0200	0.200	200	04/18/2021 02:26	WG1653793
1,2-Dichloroethane	U		0.0164	0.200	200	04/18/2021 02:26	WG1653793
1,1-Dichloroethene	U		0.0376	0.200	200	04/18/2021 02:26	WG1653793
cis-1,2-Dichloroethene	U		0.0252	0.200	200	04/18/2021 02:26	WG1653793
trans-1,2-Dichloroethene	U		0.0298	0.200	200	04/18/2021 02:26	WG1653793
1,2-Dichloropropane	U		0.0298	0.200	200	04/18/2021 02:26	WG1653793
cis-1,3-Dichloropropene	U	J4	0.0222	0.200	200	04/18/2021 02:26	WG1653793
trans-1,3-Dichloropropene	U		0.0236	0.200	200	04/18/2021 02:26	WG1653793
Ethylbenzene	0.101	J	0.0274	0.200	200	04/18/2021 02:26	WG1653793
Isopropylbenzene	0.0374	J	0.0210	0.200	200	04/18/2021 02:26	WG1653793
p-Isopropyltoluene	U		0.0240	0.200	200	04/18/2021 02:26	WG1653793
2-Butanone (MEK)	U		0.238	2.00	200	04/18/2021 02:26	WG1653793
2-Hexanone	U		0.157	2.00	200	04/18/2021 02:26	WG1653793
Methylene Chloride	U		0.0860	1.00	200	04/18/2021 02:26	WG1653793
4-Methyl-2-pentanone (MIBK)	U		0.0956	2.00	200	04/18/2021 02:26	WG1653793
Methyl tert-butyl ether	0.0746	J	0.0202	0.200	200	04/18/2021 02:26	WG1653793
Naphthalene	U		0.200	1.00	200	04/18/2021 02:26	WG1653793
n-Propylbenzene	0.0498	J	0.0199	0.200	200	04/18/2021 02:26	WG1653793
Styrene	U		0.0236	0.200	200	04/18/2021 02:26	WG1653793
1,1,1,2-Tetrachloroethane	U		0.0294	0.200	200	04/18/2021 02:26	WG1653793
1,1,2,2-Tetrachloroethane	U		0.0266	0.200	200	04/18/2021 02:26	WG1653793
Tetrachloroethene	U		0.0600	0.200	200	04/18/2021 02:26	WG1653793
Toluene	0.289		0.0556	0.200	200	04/18/2021 02:26	WG1653793
1,1,1-Trichloroethane	U		0.0298	0.200	200	04/18/2021 02:26	WG1653793
1,1,2-Trichloroethane	U		0.0316	0.200	200	04/18/2021 02:26	WG1653793
Trichloroethene	U		0.0380	0.200	200	04/18/2021 02:26	WG1653793
1,2,4-Trimethylbenzene	0.116	J	0.0644	0.200	200	04/18/2021 02:26	WG1653793
1,3,5-Trimethylbenzene	U		0.0208	0.200	200	04/18/2021 02:26	WG1653793
Vinyl chloride	U		0.0468	0.200	200	04/18/2021 02:26	WG1653793
o-Xylene	U		0.0348	0.200	200	04/18/2021 02:26	WG1653793
m&p-Xylene	0.245	J	0.0860	0.400	200	04/18/2021 02:26	WG1653793
Xylenes, Total	0.245	J	0.0348	0.600	200	04/18/2021 02:26	WG1653793
(S) Toluene-d8	*116*			*80.0-120*		*04/18/2021 02:26*	WG1653793
(S) 4-Bromofluorobenzene	*95.4*			*77.0-126*		*04/18/2021 02:26*	WG1653793
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*04/18/2021 02:26*	WG1653793

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	26.3		0.123	0.500	5	04/27/2021 10:09	WG1656087
(S) o-Terphenyl	*218*	J1		*31.0-160*		*04/27/2021 10:09*	WG1656087

Sample Narrative:

L1339469-15 WG1656087: Surrogate failure due to matrix interference

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3370		20.0	1	04/19/2021 22:36	WG1654733

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.0950	J	0.0500	0.100	1	04/18/2021 06:15	WG1653896

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	191		37.9	100	100	04/22/2021 06:25	WG1656213
Fluoride	1.47		0.0640	0.150	1	04/22/2021 06:09	WG1656213
Sulfate	1650		59.4	500	100	04/22/2021 06:25	WG1656213

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0121		0.000180	0.00200	1	04/26/2021 10:22	WG1656889
Arsenic,Dissolved	0.00582		0.000180	0.00200	1	04/25/2021 20:55	WG1658404
Barium	0.0142	J	0.000381	0.0200	1	04/26/2021 10:22	WG1656889
Barium,Dissolved	0.0143	J	0.000381	0.0200	1	04/25/2021 20:55	WG1658404
Calcium	387		0.0936	1.00	1	04/26/2021 10:22	WG1656889
Chromium	U		0.00124	0.00200	1	04/26/2021 10:22	WG1656889
Chromium,Dissolved	0.0376		0.00124	0.00200	1	04/25/2021 20:55	WG1658404
Iron	3.96		0.0281	0.100	1	04/26/2021 10:22	WG1656889
Iron,Dissolved	0.182		0.0281	0.100	1	04/25/2021 20:55	WG1658404
Lead	0.00161	J	0.000849	0.00200	1	04/26/2021 10:22	WG1656889
Lead,Dissolved	U		0.000849	0.00200	1	04/25/2021 20:55	WG1658404
Manganese	1.04		0.000704	0.00500	1	04/26/2021 10:22	WG1656889
Manganese,Dissolved	0.903		0.000704	0.00500	1	04/25/2021 20:55	WG1658404
Potassium	2.42		0.108	2.00	1	04/26/2021 10:22	WG1656889
Selenium	0.000675	J	0.000300	0.00200	1	04/26/2021 10:22	WG1656889
Selenium,Dissolved	0.000453	J	0.000300	0.00200	1	04/25/2021 20:55	WG1658404
Sodium	242		0.376	2.00	1	04/26/2021 10:22	WG1656889

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/17/2021 23:54	WG1653793
Benzene	0.000515	J	0.0000941	0.00100	1	04/17/2021 23:54	WG1653793
Bromodichloromethane	U		0.000136	0.00100	1	04/17/2021 23:54	WG1653793
Bromoform	U		0.000129	0.00100	1	04/17/2021 23:54	WG1653793
Bromomethane	U		0.000605	0.00500	1	04/17/2021 23:54	WG1653793
n-Butylbenzene	U		0.000157	0.00100	1	04/17/2021 23:54	WG1653793
sec-Butylbenzene	0.000629	J	0.000125	0.00100	1	04/17/2021 23:54	WG1653793
Carbon disulfide	U		0.0000962	0.00100	1	04/17/2021 23:54	WG1653793
Carbon tetrachloride	U		0.000128	0.00100	1	04/17/2021 23:54	WG1653793
Chlorobenzene	U		0.000116	0.00100	1	04/17/2021 23:54	WG1653793
Chlorodibromomethane	U		0.000140	0.00100	1	04/17/2021 23:54	WG1653793
Chloroethane	U		0.000192	0.00500	1	04/17/2021 23:54	WG1653793
Chloroform	U		0.000111	0.00500	1	04/17/2021 23:54	WG1653793
Chloromethane	U		0.000960	0.00250	1	04/17/2021 23:54	WG1653793
1,2-Dibromoethane	U		0.000126	0.00100	1	04/17/2021 23:54	WG1653793
1,1-Dichloroethane	U		0.000100	0.00100	1	04/17/2021 23:54	WG1653793

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	0.000114	J	0.0000819	0.00100	1	04/17/2021 23:54	WG1653793
1,1-Dichloroethene	U		0.000188	0.00100	1	04/17/2021 23:54	WG1653793
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/17/2021 23:54	WG1653793
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/17/2021 23:54	WG1653793
1,2-Dichloropropane	U		0.000149	0.00100	1	04/17/2021 23:54	WG1653793
cis-1,3-Dichloropropene	U	J4	0.000111	0.00100	1	04/17/2021 23:54	WG1653793
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/17/2021 23:54	WG1653793
Ethylbenzene	U		0.000137	0.00100	1	04/17/2021 23:54	WG1653793
Isopropylbenzene	0.000135	J	0.000105	0.00100	1	04/17/2021 23:54	WG1653793
p-Isopropyltoluene	U		0.000120	0.00100	1	04/17/2021 23:54	WG1653793
2-Butanone (MEK)	U		0.00119	0.0100	1	04/17/2021 23:54	WG1653793
2-Hexanone	U		0.000787	0.0100	1	04/17/2021 23:54	WG1653793
Methylene Chloride	U		0.000430	0.00500	1	04/17/2021 23:54	WG1653793
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/17/2021 23:54	WG1653793
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/17/2021 23:54	WG1653793
Naphthalene	U		0.00100	0.00500	1	04/17/2021 23:54	WG1653793
n-Propylbenzene	U		0.0000993	0.00100	1	04/17/2021 23:54	WG1653793
Styrene	U		0.000118	0.00100	1	04/17/2021 23:54	WG1653793
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/17/2021 23:54	WG1653793
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/17/2021 23:54	WG1653793
Tetrachloroethene	U		0.000300	0.00100	1	04/17/2021 23:54	WG1653793
Toluene	U		0.000278	0.00100	1	04/17/2021 23:54	WG1653793
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/17/2021 23:54	WG1653793
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/17/2021 23:54	WG1653793
Trichloroethene	U		0.000190	0.00100	1	04/17/2021 23:54	WG1653793
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/17/2021 23:54	WG1653793
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/17/2021 23:54	WG1653793
Vinyl chloride	U		0.000234	0.00100	1	04/17/2021 23:54	WG1653793
o-Xylene	U		0.000174	0.00100	1	04/17/2021 23:54	WG1653793
m&p-Xylene	U		0.000430	0.00200	1	04/17/2021 23:54	WG1653793
Xylenes, Total	U		0.000174	0.00300	1	04/17/2021 23:54	WG1653793
(S) Toluene-d8	*114*			*80.0-120*		*04/17/2021 23:54*	WG1653793
(S) 4-Bromofluorobenzene	*94.8*			*77.0-126*		*04/17/2021 23:54*	WG1653793
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*04/17/2021 23:54*	WG1653793

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.396		0.0247	0.100	1	04/22/2021 16:45	WG1656087
(S) o-Terphenyl	*94.7*			*31.0-160*		*04/22/2021 16:45*	WG1656087

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	2960		20.0	1	04/19/2021 22:36	WG1654733

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.0500	0.100	1	04/28/2021 21:34	WG1660820

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	230		37.9	100	100	04/22/2021 06:58	WG1656213
Fluoride	1.06		0.0640	0.150	1	04/22/2021 06:42	WG1656213
Sulfate	1250		59.4	500	100	04/22/2021 06:58	WG1656213

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00598		0.000180	0.00200	1	04/26/2021 10:26	WG1656889
Arsenic,Dissolved	0.00744		0.000180	0.00200	1	04/25/2021 21:11	WG1658404
Barium	0.0161	J	0.000381	0.0200	1	04/26/2021 10:26	WG1656889
Barium,Dissolved	0.0167	J	0.000381	0.0200	1	04/25/2021 21:11	WG1658404
Calcium	314		0.0936	1.00	1	04/26/2021 10:26	WG1656889
Chromium	U		0.00124	0.00200	1	04/26/2021 10:26	WG1656889
Chromium,Dissolved	U		0.00124	0.00200	1	04/25/2021 21:11	WG1658404
Iron	0.511		0.0281	0.100	1	04/26/2021 10:26	WG1656889
Iron,Dissolved	U		0.0281	0.100	1	04/25/2021 21:11	WG1658404
Lead	U		0.000849	0.00200	1	04/26/2021 10:26	WG1656889
Lead,Dissolved	U		0.000849	0.00200	1	04/25/2021 21:11	WG1658404
Manganese	0.107		0.000704	0.00500	1	04/26/2021 10:26	WG1656889
Manganese,Dissolved	0.101		0.000704	0.00500	1	04/25/2021 21:11	WG1658404
Potassium	0.760	J	0.108	2.00	1	04/26/2021 10:26	WG1656889
Selenium	0.000845	J	0.000300	0.00200	1	04/26/2021 10:26	WG1656889
Selenium,Dissolved	0.000531	J	0.000300	0.00200	1	04/25/2021 21:11	WG1658404
Sodium	170		0.376	2.00	1	04/26/2021 10:26	WG1656889

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	0.477		0.0314	0.100	1	04/21/2021 01:20	WG1655180
(S) a,a,a-Trifluorotoluene(FID)	*100*			*78.0-120*		*04/21/2021 01:20*	WG1655180

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0113	0.0500	1	04/18/2021 00:13	WG1653793
Benzene	0.00164		0.0000941	0.00100	1	04/18/2021 00:13	WG1653793
Bromodichloromethane	U		0.000136	0.00100	1	04/18/2021 00:13	WG1653793
Bromoform	U		0.000129	0.00100	1	04/18/2021 00:13	WG1653793
Bromomethane	U		0.000605	0.00500	1	04/18/2021 00:13	WG1653793
n-Butylbenzene	0.000309	J	0.000157	0.00100	1	04/18/2021 00:13	WG1653793
sec-Butylbenzene	0.00824		0.000125	0.00100	1	04/18/2021 00:13	WG1653793
Carbon disulfide	0.000200	J	0.0000962	0.00100	1	04/18/2021 00:13	WG1653793
Carbon tetrachloride	U		0.000128	0.00100	1	04/18/2021 00:13	WG1653793

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/18/2021 00:13	WG1653793
Chlorodibromomethane	U		0.000140	0.00100	1	04/18/2021 00:13	WG1653793
Chloroethane	U		0.000192	0.00500	1	04/18/2021 00:13	WG1653793
Chloroform	U		0.000111	0.00500	1	04/18/2021 00:13	WG1653793
Chloromethane	U		0.000960	0.00250	1	04/18/2021 00:13	WG1653793
1,2-Dibromoethane	U		0.000126	0.00100	1	04/18/2021 00:13	WG1653793
1,1-Dichloroethane	U		0.000100	0.00100	1	04/18/2021 00:13	WG1653793
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/18/2021 00:13	WG1653793
1,1-Dichloroethene	U		0.000188	0.00100	1	04/18/2021 00:13	WG1653793
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/18/2021 00:13	WG1653793
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/18/2021 00:13	WG1653793
1,2-Dichloropropane	U		0.000149	0.00100	1	04/18/2021 00:13	WG1653793
cis-1,3-Dichloropropene	U	J4	0.000111	0.00100	1	04/18/2021 00:13	WG1653793
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/18/2021 00:13	WG1653793
Ethylbenzene	0.000228	J	0.000137	0.00100	1	04/18/2021 00:13	WG1653793
Isopropylbenzene	0.0406		0.000105	0.00100	1	04/18/2021 00:13	WG1653793
p-Isopropyltoluene	U		0.000120	0.00100	1	04/18/2021 00:13	WG1653793
2-Butanone (MEK)	U		0.00119	0.0100	1	04/18/2021 00:13	WG1653793
2-Hexanone	U		0.000787	0.0100	1	04/18/2021 00:13	WG1653793
Methylene Chloride	U		0.000430	0.00500	1	04/18/2021 00:13	WG1653793
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/18/2021 00:13	WG1653793
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/18/2021 00:13	WG1653793
Naphthalene	U		0.00100	0.00500	1	04/18/2021 00:13	WG1653793
n-Propylbenzene	0.00254		0.0000993	0.00100	1	04/18/2021 00:13	WG1653793
Styrene	U		0.000118	0.00100	1	04/18/2021 00:13	WG1653793
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/18/2021 00:13	WG1653793
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/18/2021 00:13	WG1653793
Tetrachloroethene	U		0.000300	0.00100	1	04/18/2021 00:13	WG1653793
Toluene	U		0.000278	0.00100	1	04/18/2021 00:13	WG1653793
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/18/2021 00:13	WG1653793
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/18/2021 00:13	WG1653793
Trichloroethene	U		0.000190	0.00100	1	04/18/2021 00:13	WG1653793
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/18/2021 00:13	WG1653793
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/18/2021 00:13	WG1653793
Vinyl chloride	U		0.000234	0.00100	1	04/18/2021 00:13	WG1653793
o-Xylene	0.000225	J	0.000174	0.00100	1	04/18/2021 00:13	WG1653793
m&p-Xylene	U		0.000430	0.00200	1	04/18/2021 00:13	WG1653793
Xylenes, Total	0.000225	J	0.000174	0.00300	1	04/18/2021 00:13	WG1653793
(S) Toluene-d8	*114*			*80.0-120*		*04/18/2021 00:13*	WG1653793
(S) 4-Bromofluorobenzene	*97.6*			*77.0-126*		*04/18/2021 00:13*	WG1653793
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*04/18/2021 00:13*	WG1653793

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	4.25		0.0247	0.100	1	04/22/2021 16:45	WG1656087
(S) o-Terphenyl	*89.5*			*31.0-160*		*04/22/2021 16:45*	WG1656087

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1760		10.0	1	04/19/2021 22:36	WG1654733

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0500	0.100	1	04/28/2021 21:35	WG1660820

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	55.8		0.379	1.00	1	04/22/2021 07:14	WG1656213
Fluoride	1.18		0.0640	0.150	1	04/22/2021 07:14	WG1656213
Sulfate	929		59.4	500	100	04/22/2021 07:31	WG1656213

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00155	J	0.000180	0.00200	1	04/26/2021 10:29	WG1656889
Arsenic,Dissolved	0.00150	J	0.000180	0.00200	1	04/25/2021 21:14	WG1658404
Barium	0.0228		0.000381	0.0200	1	04/26/2021 10:29	WG1656889
Barium,Dissolved	0.0225		0.000381	0.0200	1	04/25/2021 21:14	WG1658404
Calcium	314		0.0936	1.00	1	04/26/2021 10:29	WG1656889
Chromium	0.00125	J	0.00124	0.00200	1	04/26/2021 10:29	WG1656889
Chromium,Dissolved	U		0.00124	0.00200	1	04/25/2021 21:14	WG1658404
Iron	U		0.0281	0.100	1	04/26/2021 10:29	WG1656889
Iron,Dissolved	U		0.0281	0.100	1	04/25/2021 21:14	WG1658404
Lead	U		0.000849	0.00200	1	04/26/2021 10:29	WG1656889
Lead,Dissolved	U		0.000849	0.00200	1	04/25/2021 21:14	WG1658404
Manganese	0.0395		0.000704	0.00500	1	04/26/2021 10:29	WG1656889
Manganese,Dissolved	0.0360		0.000704	0.00500	1	04/25/2021 21:14	WG1658404
Potassium	4.58		0.108	2.00	1	04/26/2021 10:29	WG1656889
Selenium	0.000316	J	0.000300	0.00200	1	04/26/2021 10:29	WG1656889
Selenium,Dissolved	U		0.000300	0.00200	1	04/25/2021 21:14	WG1658404
Sodium	67.3		0.376	2.00	1	04/26/2021 10:29	WG1656889

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	1.07		0.0314	0.100	1	04/21/2021 01:41	WG1655180
(S) a,a,a-Trifluorotoluene(FID)	*105*			*78.0-120*		*04/21/2021 01:41*	WG1655180

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/18/2021 00:32	WG1653793
Benzene	0.0169		0.0000941	0.00100	1	04/18/2021 00:32	WG1653793
Bromodichloromethane	U		0.000136	0.00100	1	04/18/2021 00:32	WG1653793
Bromoform	U		0.000129	0.00100	1	04/18/2021 00:32	WG1653793
Bromomethane	U		0.000605	0.00500	1	04/18/2021 00:32	WG1653793
n-Butylbenzene	0.000375	J	0.000157	0.00100	1	04/18/2021 00:32	WG1653793
sec-Butylbenzene	0.0404		0.000125	0.00100	1	04/18/2021 00:32	WG1653793
Carbon disulfide	0.000289	J	0.0000962	0.00100	1	04/18/2021 00:32	WG1653793
Carbon tetrachloride	U		0.000128	0.00100	1	04/18/2021 00:32	WG1653793

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/18/2021 00:32	WG1653793
Chlorodibromomethane	U		0.000140	0.00100	1	04/18/2021 00:32	WG1653793
Chloroethane	U		0.000192	0.00500	1	04/18/2021 00:32	WG1653793
Chloroform	U		0.000111	0.00500	1	04/18/2021 00:32	WG1653793
Chloromethane	U		0.000960	0.00250	1	04/18/2021 00:32	WG1653793
1,2-Dibromoethane	U		0.000126	0.00100	1	04/18/2021 00:32	WG1653793
1,1-Dichloroethane	U		0.000100	0.00100	1	04/18/2021 00:32	WG1653793
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/18/2021 00:32	WG1653793
1,1-Dichloroethene	U		0.000188	0.00100	1	04/18/2021 00:32	WG1653793
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/18/2021 00:32	WG1653793
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/18/2021 00:32	WG1653793
1,2-Dichloropropane	U		0.000149	0.00100	1	04/18/2021 00:32	WG1653793
cis-1,3-Dichloropropene	U	J4	0.000111	0.00100	1	04/18/2021 00:32	WG1653793
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/18/2021 00:32	WG1653793
Ethylbenzene	U		0.000137	0.00100	1	04/18/2021 00:32	WG1653793
Isopropylbenzene	0.0229		0.000105	0.00100	1	04/18/2021 00:32	WG1653793
p-Isopropyltoluene	U		0.000120	0.00100	1	04/18/2021 00:32	WG1653793
2-Butanone (MEK)	U		0.00119	0.0100	1	04/18/2021 00:32	WG1653793
2-Hexanone	U		0.000787	0.0100	1	04/18/2021 00:32	WG1653793
Methylene Chloride	U		0.000430	0.00500	1	04/18/2021 00:32	WG1653793
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/18/2021 00:32	WG1653793
Methyl tert-butyl ether	0.000417	J	0.000101	0.00100	1	04/18/2021 00:32	WG1653793
Naphthalene	U		0.00100	0.00500	1	04/18/2021 00:32	WG1653793
n-Propylbenzene	0.00210		0.0000993	0.00100	1	04/18/2021 00:32	WG1653793
Styrene	U		0.000118	0.00100	1	04/18/2021 00:32	WG1653793
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/18/2021 00:32	WG1653793
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/18/2021 00:32	WG1653793
Tetrachloroethene	U		0.000300	0.00100	1	04/18/2021 00:32	WG1653793
Toluene	U		0.000278	0.00100	1	04/18/2021 00:32	WG1653793
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/18/2021 00:32	WG1653793
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/18/2021 00:32	WG1653793
Trichloroethene	U		0.000190	0.00100	1	04/18/2021 00:32	WG1653793
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/18/2021 00:32	WG1653793
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/18/2021 00:32	WG1653793
Vinyl chloride	U		0.000234	0.00100	1	04/18/2021 00:32	WG1653793
o-Xylene	U		0.000174	0.00100	1	04/18/2021 00:32	WG1653793
m&p-Xylene	U		0.000430	0.00200	1	04/18/2021 00:32	WG1653793
Xylenes, Total	U		0.000174	0.00300	1	04/18/2021 00:32	WG1653793
(S) Toluene-d8	*122*	J1		*80.0-120*		*04/18/2021 00:32*	WG1653793
(S) 4-Bromofluorobenzene	*95.8*			*77.0-126*		*04/18/2021 00:32*	WG1653793
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*04/18/2021 00:32*	WG1653793

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.800		0.0247	0.100	1	04/22/2021 17:02	WG1656087
(S) o-Terphenyl	*95.8*			*31.0-160*		*04/22/2021 17:02*	WG1656087

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	3900		20.0	1	04/19/2021 22:36	WG1654733

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	8.05		0.250	0.500	5	04/28/2021 21:36	WG1660820

Wet Chemistry by Method 4500CN E-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Cyanide	U		0.00180	0.00500	1	04/23/2021 16:31	WG1656330

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	121		37.9	100	100	04/22/2021 08:04	WG1656213
Fluoride	0.394		0.0640	0.150	1	04/22/2021 07:47	WG1656213
Sulfate	2070		59.4	500	100	04/22/2021 08:04	WG1656213

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.000100	0.000200	1	04/19/2021 07:46	WG1653243
Mercury,Dissolved	U		0.000100	0.000200	1	04/21/2021 17:55	WG1652892

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Boron	0.594		0.0200	0.200	1	04/26/2021 12:38	WG1656874
Boron,Dissolved	0.587		0.0200	0.200	1	04/22/2021 17:41	WG1656496

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00170	J	0.000180	0.00200	1	04/26/2021 10:47	WG1656889
Arsenic,Dissolved	0.00182	J	0.000180	0.00200	1	04/25/2021 21:17	WG1658404
Barium	0.0103	J	0.000381	0.0200	1	04/26/2021 10:47	WG1656889
Barium,Dissolved	0.00985	J	0.000381	0.0200	1	04/25/2021 21:17	WG1658404
Cadmium	U		0.000150	0.00100	1	04/26/2021 10:47	WG1656889
Cadmium,Dissolved	U		0.000150	0.00100	1	04/25/2021 21:17	WG1658404
Calcium	556		0.0936	1.00	1	04/26/2021 10:47	WG1656889
Chromium	U		0.00124	0.00200	1	04/26/2021 10:47	WG1656889
Chromium,Dissolved	U		0.00124	0.00200	1	04/25/2021 21:17	WG1658404
Cobalt	0.0000869	J	0.0000596	0.00200	1	04/26/2021 10:47	WG1656889
Cobalt,Dissolved	0.0000984	J	0.0000596	0.00200	1	04/25/2021 21:17	WG1658404
Iron	0.0513	J	0.0281	0.100	1	04/26/2021 10:47	WG1656889
Iron,Dissolved	0.0319	J	0.0281	0.100	1	04/25/2021 21:17	WG1658404
Lead	U		0.000849	0.00200	1	04/26/2021 10:47	WG1656889
Lead,Dissolved	U		0.000849	0.00200	1	04/25/2021 21:17	WG1658404
Manganese	0.00145	J	0.000704	0.00500	1	04/26/2021 10:47	WG1656889
Manganese,Dissolved	0.00604		0.000704	0.00500	1	04/25/2021 21:17	WG1658404
Nickel	0.000957	J	0.000816	0.00200	1	04/26/2021 10:47	WG1656889
Nickel,Dissolved	U		0.000816	0.00200	1	04/25/2021 21:17	WG1658404

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Potassium	0.669	J	0.108	2.00	1	04/26/2021 10:47	WG1656889
Selenium	0.00265		0.000300	0.00200	1	04/26/2021 10:47	WG1656889
Selenium,Dissolved	0.00332		0.000300	0.00200	1	04/25/2021 21:17	WG1658404
Sodium	143		0.376	2.00	1	04/26/2021 10:47	WG1656889
Uranium	0.0296		0.0000700	0.0200	1	04/26/2021 10:47	WG1656889
Uranium,Dissolved	0.0273		0.0000700	0.0200	1	04/25/2021 21:17	WG1658404
Vanadium	0.0130		0.000664	0.00500	1	04/26/2021 10:47	WG1656889
Vanadium,Dissolved	0.0123		0.000664	0.00500	1	04/25/2021 21:17	WG1658404

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0590	J	0.0314	0.100	1	04/21/2021 07:12	WG1655180
(S) a,a,a-Trifluorotoluene(FID)	*103*			*78.0-120*		*04/21/2021 07:12*	WG1655180

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/18/2021 00:51	WG1653793
Benzene	U		0.0000941	0.00100	1	04/18/2021 00:51	WG1653793
Bromodichloromethane	U		0.000136	0.00100	1	04/18/2021 00:51	WG1653793
Bromoform	U		0.000129	0.00100	1	04/18/2021 00:51	WG1653793
Bromomethane	U		0.000605	0.00500	1	04/18/2021 00:51	WG1653793
n-Butylbenzene	U		0.000157	0.00100	1	04/18/2021 00:51	WG1653793
sec-Butylbenzene	0.000261	J	0.000125	0.00100	1	04/18/2021 00:51	WG1653793
Carbon disulfide	U		0.0000962	0.00100	1	04/18/2021 00:51	WG1653793
Carbon tetrachloride	U		0.000128	0.00100	1	04/18/2021 00:51	WG1653793
Chlorobenzene	U		0.000116	0.00100	1	04/18/2021 00:51	WG1653793
Chlorodibromomethane	U		0.000140	0.00100	1	04/18/2021 00:51	WG1653793
Chloroethane	U		0.000192	0.00500	1	04/18/2021 00:51	WG1653793
Chloroform	U		0.000111	0.00500	1	04/18/2021 00:51	WG1653793
Chloromethane	U		0.000960	0.00250	1	04/18/2021 00:51	WG1653793
1,2-Dibromoethane	U		0.000126	0.00100	1	04/18/2021 00:51	WG1653793
1,1-Dichloroethane	U		0.000100	0.00100	1	04/18/2021 00:51	WG1653793
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/18/2021 00:51	WG1653793
1,1-Dichloroethene	U		0.000188	0.00100	1	04/18/2021 00:51	WG1653793
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/18/2021 00:51	WG1653793
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/18/2021 00:51	WG1653793
1,2-Dichloropropane	U		0.000149	0.00100	1	04/18/2021 00:51	WG1653793
cis-1,3-Dichloropropene	U	J4	0.000111	0.00100	1	04/18/2021 00:51	WG1653793
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/18/2021 00:51	WG1653793
Ethylbenzene	U		0.000137	0.00100	1	04/18/2021 00:51	WG1653793
Isopropylbenzene	U		0.000105	0.00100	1	04/18/2021 00:51	WG1653793
p-Isopropyltoluene	U		0.000120	0.00100	1	04/18/2021 00:51	WG1653793
2-Butanone (MEK)	U		0.00119	0.0100	1	04/18/2021 00:51	WG1653793
2-Hexanone	U		0.000787	0.0100	1	04/18/2021 00:51	WG1653793
Methylene Chloride	U		0.000430	0.00500	1	04/18/2021 00:51	WG1653793
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/18/2021 00:51	WG1653793
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/18/2021 00:51	WG1653793
Naphthalene	U		0.00100	0.00500	1	04/18/2021 00:51	WG1653793
n-Propylbenzene	U		0.0000993	0.00100	1	04/18/2021 00:51	WG1653793
Styrene	U		0.000118	0.00100	1	04/18/2021 00:51	WG1653793
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/18/2021 00:51	WG1653793
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/18/2021 00:51	WG1653793
Tetrachloroethene	U		0.000300	0.00100	1	04/18/2021 00:51	WG1653793

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Toluene	U		0.000278	0.00100	1	04/18/2021 00:51	WG1653793
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/18/2021 00:51	WG1653793
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/18/2021 00:51	WG1653793
Trichloroethene	U		0.000190	0.00100	1	04/18/2021 00:51	WG1653793
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/18/2021 00:51	WG1653793
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/18/2021 00:51	WG1653793
Vinyl chloride	U		0.000234	0.00100	1	04/18/2021 00:51	WG1653793
o-Xylene	U		0.000174	0.00100	1	04/18/2021 00:51	WG1653793
m&p-Xylene	U		0.000430	0.00200	1	04/18/2021 00:51	WG1653793
Xylenes, Total	U		0.000174	0.00300	1	04/18/2021 00:51	WG1653793
(S) Toluene-d8	*118*			*80.0-120*		*04/18/2021 00:51*	WG1653793
(S) 4-Bromofluorobenzene	*94.2*			*77.0-126*		*04/18/2021 00:51*	WG1653793
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*04/18/2021 00:51*	WG1653793

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0537	J	0.0247	0.100	1	04/27/2021 09:18	WG1656087
(S) o-Terphenyl	*102*			*31.0-160*		*04/27/2021 09:18*	WG1656087

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	ND		10.0	1	04/19/2021 22:36	WG1654733

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.0500	0.100	1	04/28/2021 21:37	WG1660820

Wet Chemistry by Method 4500CN E-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Cyanide	U		0.00180	0.00500	1	04/23/2021 16:32	WG1656330

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	U	P1	0.379	1.00	1	04/22/2021 08:20	WG1656213
Fluoride	0.0702	J	0.0640	0.150	1	04/22/2021 08:20	WG1656213
Sulfate	U		0.594	5.00	1	04/22/2021 08:20	WG1656213

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.000100	0.000200	1	04/19/2021 07:48	WG1653243
Mercury,Dissolved	U		0.000100	0.000200	1	04/21/2021 17:57	WG1652892

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Boron	U		0.0200	0.200	1	04/26/2021 11:30	WG1656874
Boron,Dissolved	U		0.0200	0.200	1	04/22/2021 17:44	WG1656496

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	U		0.000180	0.00200	1	04/26/2021 10:51	WG1656889
Arsenic,Dissolved	U		0.000180	0.00200	1	04/25/2021 21:21	WG1658404
Barium	0.000664	B J	0.000381	0.0200	1	04/26/2021 10:51	WG1656889
Barium,Dissolved	U		0.000381	0.0200	1	04/25/2021 21:21	WG1658404
Cadmium	U		0.000150	0.00100	1	04/26/2021 10:51	WG1656889
Cadmium,Dissolved	U		0.000150	0.00100	1	04/25/2021 21:21	WG1658404
Calcium	0.0936	J	0.0936	1.00	1	04/26/2021 10:51	WG1656889
Chromium	U		0.00124	0.00200	1	04/26/2021 10:51	WG1656889
Chromium,Dissolved	U		0.00124	0.00200	1	04/25/2021 21:21	WG1658404
Cobalt	U		0.0000596	0.00200	1	04/26/2021 10:51	WG1656889
Cobalt,Dissolved	U		0.0000596	0.00200	1	04/25/2021 21:21	WG1658404
Iron	U		0.0281	0.100	1	04/26/2021 10:51	WG1656889
Iron,Dissolved	U		0.0281	0.100	1	04/25/2021 21:21	WG1658404
Lead	0.000956	J	0.000849	0.00200	1	04/26/2021 10:51	WG1656889
Lead,Dissolved	U		0.000849	0.00200	1	04/25/2021 21:21	WG1658404
Manganese	0.000990	J	0.000704	0.00500	1	04/26/2021 10:51	WG1656889
Manganese,Dissolved	0.00153	J	0.000704	0.00500	1	04/25/2021 21:21	WG1658404
Nickel	U		0.000816	0.00200	1	04/26/2021 10:51	WG1656889
Nickel,Dissolved	U		0.000816	0.00200	1	04/25/2021 21:21	WG1658404

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Potassium	U		0.108	2.00	1	04/26/2021 10:51	WG1656889
Selenium	U		0.000300	0.00200	1	04/26/2021 10:51	WG1656889
Selenium,Dissolved	U		0.000300	0.00200	1	04/25/2021 21:21	WG1658404
Sodium	0.552	J	0.376	2.00	1	04/26/2021 10:51	WG1656889
Uranium	U		0.0000700	0.0200	1	04/26/2021 10:51	WG1656889
Uranium,Dissolved	U		0.0000700	0.0200	1	04/25/2021 21:21	WG1658404
Vanadium	U		0.000664	0.00500	1	04/26/2021 10:51	WG1656889
Vanadium,Dissolved	U		0.000664	0.00500	1	04/25/2021 21:21	WG1658404

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/21/2021 07:34	WG1655180
(S) a,a,a-Trifluorotoluene(FID)	*101*			*78.0-120*		*04/21/2021 07:34*	WG1655180

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/18/2021 01:10	WG1653793
Benzene	U		0.0000941	0.00100	1	04/18/2021 01:10	WG1653793
Bromodichloromethane	U		0.000136	0.00100	1	04/18/2021 01:10	WG1653793
Bromoform	U		0.000129	0.00100	1	04/18/2021 01:10	WG1653793
Bromomethane	U		0.000605	0.00500	1	04/18/2021 01:10	WG1653793
n-Butylbenzene	U		0.000157	0.00100	1	04/18/2021 01:10	WG1653793
sec-Butylbenzene	U		0.000125	0.00100	1	04/18/2021 01:10	WG1653793
Carbon disulfide	U		0.0000962	0.00100	1	04/18/2021 01:10	WG1653793
Carbon tetrachloride	U		0.000128	0.00100	1	04/18/2021 01:10	WG1653793
Chlorobenzene	U		0.000116	0.00100	1	04/18/2021 01:10	WG1653793
Chlorodibromomethane	U		0.000140	0.00100	1	04/18/2021 01:10	WG1653793
Chloroethane	U		0.000192	0.00500	1	04/18/2021 01:10	WG1653793
Chloroform	U		0.000111	0.00500	1	04/18/2021 01:10	WG1653793
Chloromethane	U		0.000960	0.00250	1	04/18/2021 01:10	WG1653793
1,2-Dibromoethane	U		0.000126	0.00100	1	04/18/2021 01:10	WG1653793
1,1-Dichloroethane	U		0.000100	0.00100	1	04/18/2021 01:10	WG1653793
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/18/2021 01:10	WG1653793
1,1-Dichloroethene	U		0.000188	0.00100	1	04/18/2021 01:10	WG1653793
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/18/2021 01:10	WG1653793
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/18/2021 01:10	WG1653793
1,2-Dichloropropane	U		0.000149	0.00100	1	04/18/2021 01:10	WG1653793
cis-1,3-Dichloropropene	U	J4	0.000111	0.00100	1	04/18/2021 01:10	WG1653793
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/18/2021 01:10	WG1653793
Ethylbenzene	U		0.000137	0.00100	1	04/18/2021 01:10	WG1653793
Isopropylbenzene	U		0.000105	0.00100	1	04/18/2021 01:10	WG1653793
p-Isopropyltoluene	U		0.000120	0.00100	1	04/18/2021 01:10	WG1653793
2-Butanone (MEK)	U		0.00119	0.0100	1	04/18/2021 01:10	WG1653793
2-Hexanone	U		0.000787	0.0100	1	04/18/2021 01:10	WG1653793
Methylene Chloride	U		0.000430	0.00500	1	04/18/2021 01:10	WG1653793
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/18/2021 01:10	WG1653793
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/18/2021 01:10	WG1653793
Naphthalene	U		0.00100	0.00500	1	04/18/2021 01:10	WG1653793
n-Propylbenzene	U		0.0000993	0.00100	1	04/18/2021 01:10	WG1653793
Styrene	U		0.000118	0.00100	1	04/18/2021 01:10	WG1653793
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/18/2021 01:10	WG1653793
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/18/2021 01:10	WG1653793
Tetrachloroethene	U		0.000300	0.00100	1	04/18/2021 01:10	WG1653793

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Toluene	U		0.000278	0.00100	1	04/18/2021 01:10	WG1653793
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/18/2021 01:10	WG1653793
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/18/2021 01:10	WG1653793
Trichloroethene	U		0.000190	0.00100	1	04/18/2021 01:10	WG1653793
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/18/2021 01:10	WG1653793
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/18/2021 01:10	WG1653793
Vinyl chloride	U		0.000234	0.00100	1	04/18/2021 01:10	WG1653793
o-Xylene	U		0.000174	0.00100	1	04/18/2021 01:10	WG1653793
m&p-Xylene	U		0.000430	0.00200	1	04/18/2021 01:10	WG1653793
Xylenes, Total	U		0.000174	0.00300	1	04/18/2021 01:10	WG1653793
(S) Toluene-d8	*117*			*80.0-120*		*04/18/2021 01:10*	WG1653793
(S) 4-Bromofluorobenzene	*94.0*			*77.0-126*		*04/18/2021 01:10*	WG1653793
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*04/18/2021 01:10*	WG1653793

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0269	J	0.0247	0.100	1	04/22/2021 17:19	WG1656087
(S) o-Terphenyl	*102*			*31.0-160*		*04/22/2021 17:19*	WG1656087

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/17/2021 20:25	WG1653793
Benzene	U		0.0000941	0.00100	1	04/17/2021 20:25	WG1653793
Bromodichloromethane	U		0.000136	0.00100	1	04/17/2021 20:25	WG1653793
Bromoform	U		0.000129	0.00100	1	04/17/2021 20:25	WG1653793
Bromomethane	U		0.000605	0.00500	1	04/17/2021 20:25	WG1653793
n-Butylbenzene	U		0.000157	0.00100	1	04/17/2021 20:25	WG1653793
sec-Butylbenzene	U		0.000125	0.00100	1	04/17/2021 20:25	WG1653793
Carbon disulfide	0.000120	J	0.0000962	0.00100	1	04/17/2021 20:25	WG1653793
Carbon tetrachloride	U		0.000128	0.00100	1	04/17/2021 20:25	WG1653793
Chlorobenzene	U		0.000116	0.00100	1	04/17/2021 20:25	WG1653793
Chlorodibromomethane	U		0.000140	0.00100	1	04/17/2021 20:25	WG1653793
Chloroethane	U		0.000192	0.00500	1	04/17/2021 20:25	WG1653793
Chloroform	U		0.000111	0.00500	1	04/17/2021 20:25	WG1653793
Chloromethane	U		0.000960	0.00250	1	04/17/2021 20:25	WG1653793
1,2-Dibromoethane	U		0.000126	0.00100	1	04/17/2021 20:25	WG1653793
1,1-Dichloroethane	U		0.000100	0.00100	1	04/17/2021 20:25	WG1653793
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/17/2021 20:25	WG1653793
1,1-Dichloroethene	U		0.000188	0.00100	1	04/17/2021 20:25	WG1653793
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/17/2021 20:25	WG1653793
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/17/2021 20:25	WG1653793
1,2-Dichloropropane	U		0.000149	0.00100	1	04/17/2021 20:25	WG1653793
cis-1,3-Dichloropropene	U	J4	0.000111	0.00100	1	04/17/2021 20:25	WG1653793
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/17/2021 20:25	WG1653793
Ethylbenzene	U		0.000137	0.00100	1	04/17/2021 20:25	WG1653793
Isopropylbenzene	U		0.000105	0.00100	1	04/17/2021 20:25	WG1653793
p-Isopropyltoluene	U		0.000120	0.00100	1	04/17/2021 20:25	WG1653793
2-Butanone (MEK)	U		0.00119	0.0100	1	04/17/2021 20:25	WG1653793
2-Hexanone	U		0.000787	0.0100	1	04/17/2021 20:25	WG1653793
Methylene Chloride	U		0.000430	0.00500	1	04/17/2021 20:25	WG1653793
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/17/2021 20:25	WG1653793
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/17/2021 20:25	WG1653793
Naphthalene	U		0.00100	0.00500	1	04/17/2021 20:25	WG1653793
n-Propylbenzene	U		0.0000993	0.00100	1	04/17/2021 20:25	WG1653793
Styrene	U		0.000118	0.00100	1	04/17/2021 20:25	WG1653793
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/17/2021 20:25	WG1653793
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/17/2021 20:25	WG1653793
Tetrachloroethene	U		0.000300	0.00100	1	04/17/2021 20:25	WG1653793
Toluene	U		0.000278	0.00100	1	04/17/2021 20:25	WG1653793
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/17/2021 20:25	WG1653793
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/17/2021 20:25	WG1653793
Trichloroethene	U		0.000190	0.00100	1	04/17/2021 20:25	WG1653793
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/17/2021 20:25	WG1653793
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/17/2021 20:25	WG1653793
Vinyl chloride	U		0.000234	0.00100	1	04/17/2021 20:25	WG1653793
o-Xylene	U		0.000174	0.00100	1	04/17/2021 20:25	WG1653793
m&p-Xylene	U		0.000430	0.00200	1	04/17/2021 20:25	WG1653793
Xylenes, Total	U		0.000174	0.00300	1	04/17/2021 20:25	WG1653793
(S) Toluene-d8	*118*			*80.0-120*		*04/17/2021 20:25*	WG1653793
(S) 4-Bromofluorobenzene	*96.1*			*77.0-126*		*04/17/2021 20:25*	WG1653793
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*04/17/2021 20:25*	WG1653793

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	3620		20.0	1	04/19/2021 22:36	WG1654733

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.0500	0.100	1	04/28/2021 21:43	WG1660820

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	163		37.9	100	100	04/22/2021 10:15	WG1656213
Fluoride	0.636		0.0640	0.150	1	04/22/2021 09:59	WG1656213
Sulfate	1630		59.4	500	100	04/22/2021 10:15	WG1656213

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00843		0.000180	0.00200	1	04/26/2021 10:55	WG1656889
Arsenic,Dissolved	0.00983		0.000180	0.00200	1	04/25/2021 21:24	WG1658404
Barium	0.0335		0.000381	0.0200	1	04/26/2021 10:55	WG1656889
Barium,Dissolved	0.0329		0.000381	0.0200	1	04/25/2021 21:24	WG1658404
Calcium	363		0.0936	1.00	1	04/26/2021 10:55	WG1656889
Chromium	0.00138	J	0.00124	0.00200	1	04/26/2021 10:55	WG1656889
Chromium,Dissolved	U		0.00124	0.00200	1	04/25/2021 21:24	WG1658404
Iron	0.528		0.0281	0.100	1	04/26/2021 10:55	WG1656889
Iron,Dissolved	0.177		0.0281	0.100	1	04/25/2021 21:24	WG1658404
Lead	U		0.000849	0.00200	1	04/26/2021 10:55	WG1656889
Lead,Dissolved	0.00924		0.000849	0.00200	1	04/25/2021 21:24	WG1658404
Manganese	1.71		0.000704	0.00500	1	04/26/2021 10:55	WG1656889
Manganese,Dissolved	2.27		0.000704	0.00500	1	04/25/2021 21:24	WG1658404
Potassium	0.433	J	0.108	2.00	1	04/26/2021 10:55	WG1656889
Selenium	U		0.000300	0.00200	1	04/26/2021 10:55	WG1656889
Selenium,Dissolved	0.000314	J	0.000300	0.00200	1	04/25/2021 21:24	WG1658404
Sodium	282		0.376	2.00	1	04/26/2021 10:55	WG1656889

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	0.383		0.0314	0.100	1	04/21/2021 07:56	WG1655180
(S) a,a,a-Trifluorotoluene(FID)	*106*			*78.0-120*		*04/21/2021 07:56*	WG1655180

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0113	0.0500	1	04/18/2021 01:29	WG1653793
Benzene	U		0.0000941	0.00100	1	04/18/2021 01:29	WG1653793
Bromodichloromethane	U		0.000136	0.00100	1	04/18/2021 01:29	WG1653793
Bromoform	U		0.000129	0.00100	1	04/18/2021 01:29	WG1653793
Bromomethane	U		0.000605	0.00500	1	04/18/2021 01:29	WG1653793
n-Butylbenzene	U		0.000157	0.00100	1	04/18/2021 01:29	WG1653793
sec-Butylbenzene	0.00455		0.000125	0.00100	1	04/18/2021 01:29	WG1653793
Carbon disulfide	U		0.0000962	0.00100	1	04/18/2021 01:29	WG1653793
Carbon tetrachloride	U		0.000128	0.00100	1	04/18/2021 01:29	WG1653793

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	0.000847	J	0.000116	0.00100	1	04/18/2021 01:29	WG1653793
Chlorodibromomethane	U		0.000140	0.00100	1	04/18/2021 01:29	WG1653793
Chloroethane	U		0.000192	0.00500	1	04/18/2021 01:29	WG1653793
Chloroform	U		0.000111	0.00500	1	04/18/2021 01:29	WG1653793
Chloromethane	U		0.000960	0.00250	1	04/18/2021 01:29	WG1653793
1,2-Dibromoethane	U		0.000126	0.00100	1	04/18/2021 01:29	WG1653793
1,1-Dichloroethane	U		0.000100	0.00100	1	04/18/2021 01:29	WG1653793
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/18/2021 01:29	WG1653793
1,1-Dichloroethene	U		0.000188	0.00100	1	04/18/2021 01:29	WG1653793
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/18/2021 01:29	WG1653793
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/18/2021 01:29	WG1653793
1,2-Dichloropropane	U		0.000149	0.00100	1	04/18/2021 01:29	WG1653793
cis-1,3-Dichloropropene	U	J4	0.000111	0.00100	1	04/18/2021 01:29	WG1653793
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/18/2021 01:29	WG1653793
Ethylbenzene	U		0.000137	0.00100	1	04/18/2021 01:29	WG1653793
Isopropylbenzene	0.00437		0.000105	0.00100	1	04/18/2021 01:29	WG1653793
p-Isopropyltoluene	U		0.000120	0.00100	1	04/18/2021 01:29	WG1653793
2-Butanone (MEK)	U		0.00119	0.0100	1	04/18/2021 01:29	WG1653793
2-Hexanone	U		0.000787	0.0100	1	04/18/2021 01:29	WG1653793
Methylene Chloride	U		0.000430	0.00500	1	04/18/2021 01:29	WG1653793
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/18/2021 01:29	WG1653793
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/18/2021 01:29	WG1653793
Naphthalene	U		0.00100	0.00500	1	04/18/2021 01:29	WG1653793
n-Propylbenzene	0.000343	J	0.0000993	0.00100	1	04/18/2021 01:29	WG1653793
Styrene	U		0.000118	0.00100	1	04/18/2021 01:29	WG1653793
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/18/2021 01:29	WG1653793
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/18/2021 01:29	WG1653793
Tetrachloroethene	U		0.000300	0.00100	1	04/18/2021 01:29	WG1653793
Toluene	U		0.000278	0.00100	1	04/18/2021 01:29	WG1653793
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/18/2021 01:29	WG1653793
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/18/2021 01:29	WG1653793
Trichloroethene	U		0.000190	0.00100	1	04/18/2021 01:29	WG1653793
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/18/2021 01:29	WG1653793
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/18/2021 01:29	WG1653793
Vinyl chloride	U		0.000234	0.00100	1	04/18/2021 01:29	WG1653793
o-Xylene	U		0.000174	0.00100	1	04/18/2021 01:29	WG1653793
m&p-Xylene	U		0.000430	0.00200	1	04/18/2021 01:29	WG1653793
Xylenes, Total	U		0.000174	0.00300	1	04/18/2021 01:29	WG1653793
(S) Toluene-d8	*116*			*80.0-120*		*04/18/2021 01:29*	WG1653793
(S) 4-Bromofluorobenzene	*94.7*			*77.0-126*		*04/18/2021 01:29*	WG1653793
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*04/18/2021 01:29*	WG1653793

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	1.67		0.0247	0.100	1	04/22/2021 17:19	WG1656087
(S) o-Terphenyl	*103*			*31.0-160*		*04/22/2021 17:19*	WG1656087

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4920		20.0	1	04/19/2021 22:36	WG1654733

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	334		37.9	100	100	04/22/2021 10:48	WG1656213
Fluoride	1.20		0.0640	0.150	1	04/22/2021 10:32	WG1656213
Sulfate	2560		59.4	500	100	04/22/2021 10:48	WG1656213

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00414		0.000180	0.00200	1	04/26/2021 10:58	WG1656889
Arsenic,Dissolved	0.00374		0.000180	0.00200	1	04/25/2021 21:27	WG1658404
Barium	0.00871	J	0.000381	0.0200	1	04/26/2021 10:58	WG1656889
Barium,Dissolved	0.00948	J	0.000381	0.0200	1	04/25/2021 21:27	WG1658404
Chromium	U		0.00124	0.00200	1	04/26/2021 10:58	WG1656889
Chromium,Dissolved	U		0.00124	0.00200	1	04/25/2021 21:27	WG1658404
Iron	0.0308	J	0.0281	0.100	1	04/26/2021 10:58	WG1656889
Iron,Dissolved	U		0.0281	0.100	1	04/25/2021 21:27	WG1658404
Lead	U		0.000849	0.00200	1	04/26/2021 10:58	WG1656889
Lead,Dissolved	U		0.000849	0.00200	1	04/25/2021 21:27	WG1658404
Manganese	0.0259		0.000704	0.00500	1	04/26/2021 10:58	WG1656889
Manganese,Dissolved	0.0245		0.000704	0.00500	1	04/25/2021 21:27	WG1658404
Selenium	0.00398		0.000300	0.00200	1	04/26/2021 10:58	WG1656889
Selenium,Dissolved	0.00385		0.000300	0.00200	1	04/25/2021 21:27	WG1658404

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/21/2021 08:18	WG1655180
(S) a,a,a-Trifluorotoluene(FID)	*101*			*78.0-120*		*04/21/2021 08:18*	WG1655180

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/18/2021 01:48	WG1653793
Benzene	U		0.0000941	0.00100	1	04/18/2021 01:48	WG1653793
Bromodichloromethane	U		0.000136	0.00100	1	04/18/2021 01:48	WG1653793
Bromoform	U		0.000129	0.00100	1	04/18/2021 01:48	WG1653793
Bromomethane	U		0.000605	0.00500	1	04/18/2021 01:48	WG1653793
n-Butylbenzene	U		0.000157	0.00100	1	04/18/2021 01:48	WG1653793
sec-Butylbenzene	U		0.000125	0.00100	1	04/18/2021 01:48	WG1653793
Carbon disulfide	U		0.0000962	0.00100	1	04/18/2021 01:48	WG1653793
Carbon tetrachloride	U		0.000128	0.00100	1	04/18/2021 01:48	WG1653793
Chlorobenzene	U		0.000116	0.00100	1	04/18/2021 01:48	WG1653793
Chlorodibromomethane	U		0.000140	0.00100	1	04/18/2021 01:48	WG1653793
Chloroethane	U		0.000192	0.00500	1	04/18/2021 01:48	WG1653793
Chloroform	U		0.000111	0.00500	1	04/18/2021 01:48	WG1653793
Chloromethane	U		0.000960	0.00250	1	04/18/2021 01:48	WG1653793
1,2-Dibromoethane	U		0.000126	0.00100	1	04/18/2021 01:48	WG1653793
1,1-Dichloroethane	U		0.000100	0.00100	1	04/18/2021 01:48	WG1653793
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/18/2021 01:48	WG1653793

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,1-Dichloroethene	U		0.000188	0.00100	1	04/18/2021 01:48	WG1653793
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/18/2021 01:48	WG1653793
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/18/2021 01:48	WG1653793
1,2-Dichloropropane	U		0.000149	0.00100	1	04/18/2021 01:48	WG1653793
cis-1,3-Dichloropropene	U	J4	0.000111	0.00100	1	04/18/2021 01:48	WG1653793
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/18/2021 01:48	WG1653793
Ethylbenzene	U		0.000137	0.00100	1	04/18/2021 01:48	WG1653793
Isopropylbenzene	U		0.000105	0.00100	1	04/18/2021 01:48	WG1653793
p-Isopropyltoluene	U		0.000120	0.00100	1	04/18/2021 01:48	WG1653793
2-Butanone (MEK)	U		0.00119	0.0100	1	04/18/2021 01:48	WG1653793
2-Hexanone	U		0.000787	0.0100	1	04/18/2021 01:48	WG1653793
Methylene Chloride	U		0.000430	0.00500	1	04/18/2021 01:48	WG1653793
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/18/2021 01:48	WG1653793
Methyl tert-butyl ether	0.000546	J	0.000101	0.00100	1	04/18/2021 01:48	WG1653793
Naphthalene	U		0.00100	0.00500	1	04/18/2021 01:48	WG1653793
n-Propylbenzene	U		0.0000993	0.00100	1	04/18/2021 01:48	WG1653793
Styrene	U		0.000118	0.00100	1	04/18/2021 01:48	WG1653793
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/18/2021 01:48	WG1653793
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/18/2021 01:48	WG1653793
Tetrachloroethene	U		0.000300	0.00100	1	04/18/2021 01:48	WG1653793
Toluene	U		0.000278	0.00100	1	04/18/2021 01:48	WG1653793
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/18/2021 01:48	WG1653793
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/18/2021 01:48	WG1653793
Trichloroethene	U		0.000190	0.00100	1	04/18/2021 01:48	WG1653793
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/18/2021 01:48	WG1653793
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/18/2021 01:48	WG1653793
Vinyl chloride	U		0.000234	0.00100	1	04/18/2021 01:48	WG1653793
o-Xylene	U		0.000174	0.00100	1	04/18/2021 01:48	WG1653793
m&p-Xylene	U		0.000430	0.00200	1	04/18/2021 01:48	WG1653793
Xylenes, Total	U		0.000174	0.00300	1	04/18/2021 01:48	WG1653793
(S) Toluene-d8	*119*			*80.0-120*		*04/18/2021 01:48*	WG1653793
(S) 4-Bromofluorobenzene	*95.2*			*77.0-126*		*04/18/2021 01:48*	WG1653793
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*04/18/2021 01:48*	WG1653793

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.288		0.0247	0.100	1	04/22/2021 17:36	WG1656087
(S) o-Terphenyl	*88.9*			*31.0-160*		*04/22/2021 17:36*	WG1656087

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	5130		20.0	1	04/19/2021 22:36	WG1654733

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	294		37.9	100	100	04/22/2021 11:21	WG1656213
Fluoride	1.21		0.0640	0.150	1	04/22/2021 11:05	WG1656213
Sulfate	2840		59.4	500	100	04/22/2021 11:21	WG1656213

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00463		0.000180	0.00200	1	04/26/2021 11:02	WG1656889
Arsenic,Dissolved	0.00442		0.000180	0.00200	1	04/25/2021 21:31	WG1658404
Barium	0.00848	J	0.000381	0.0200	1	04/26/2021 11:02	WG1656889
Barium,Dissolved	0.00946	J	0.000381	0.0200	1	04/25/2021 21:31	WG1658404
Chromium	U		0.00124	0.00200	1	04/26/2021 11:02	WG1656889
Chromium,Dissolved	U		0.00124	0.00200	1	04/25/2021 21:31	WG1658404
Iron	U		0.0281	0.100	1	04/26/2021 11:02	WG1656889
Iron,Dissolved	U		0.0281	0.100	1	04/25/2021 21:31	WG1658404
Lead	U		0.000849	0.00200	1	04/26/2021 11:02	WG1656889
Lead,Dissolved	U		0.000849	0.00200	1	04/25/2021 21:31	WG1658404
Manganese	0.00171	J	0.000704	0.00500	1	04/26/2021 11:02	WG1656889
Manganese,Dissolved	0.00298	J	0.000704	0.00500	1	04/25/2021 21:31	WG1658404
Selenium	0.00815		0.000300	0.00200	1	04/26/2021 11:02	WG1656889
Selenium,Dissolved	0.00878		0.000300	0.00200	1	04/25/2021 21:31	WG1658404

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/21/2021 08:39	WG1655180
(S) a,a,a-Trifluorotoluene(FID)	*101*			*78.0-120*		*04/21/2021 08:39*	WG1655180

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0113	0.0500	1	04/17/2021 20:38	WG1653797
Benzene	U		0.0000941	0.00100	1	04/17/2021 20:38	WG1653797
Bromodichloromethane	U		0.000136	0.00100	1	04/17/2021 20:38	WG1653797
Bromoform	U		0.000129	0.00100	1	04/17/2021 20:38	WG1653797
Bromomethane	U		0.000605	0.00500	1	04/17/2021 20:38	WG1653797
n-Butylbenzene	U		0.000157	0.00100	1	04/17/2021 20:38	WG1653797
sec-Butylbenzene	U		0.000125	0.00100	1	04/17/2021 20:38	WG1653797
Carbon disulfide	U		0.0000962	0.00100	1	04/17/2021 20:38	WG1653797
Carbon tetrachloride	U		0.000128	0.00100	1	04/17/2021 20:38	WG1653797
Chlorobenzene	U		0.000116	0.00100	1	04/17/2021 20:38	WG1653797
Chlorodibromomethane	U		0.000140	0.00100	1	04/17/2021 20:38	WG1653797
Chloroethane	U		0.000192	0.00500	1	04/17/2021 20:38	WG1653797
Chloroform	U		0.000111	0.00500	1	04/17/2021 20:38	WG1653797
Chloromethane	U		0.000960	0.00250	1	04/17/2021 20:38	WG1653797
1,2-Dibromoethane	U		0.000126	0.00100	1	04/17/2021 20:38	WG1653797
1,1-Dichloroethane	U		0.000100	0.00100	1	04/17/2021 20:38	WG1653797
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/17/2021 20:38	WG1653797

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,1-Dichloroethene	U		0.000188	0.00100	1	04/17/2021 20:38	WG1653797
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/17/2021 20:38	WG1653797
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/17/2021 20:38	WG1653797
1,2-Dichloropropane	U		0.000149	0.00100	1	04/17/2021 20:38	WG1653797
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/17/2021 20:38	WG1653797
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/17/2021 20:38	WG1653797
Ethylbenzene	U		0.000137	0.00100	1	04/17/2021 20:38	WG1653797
Isopropylbenzene	U		0.000105	0.00100	1	04/17/2021 20:38	WG1653797
p-Isopropyltoluene	U		0.000120	0.00100	1	04/17/2021 20:38	WG1653797
2-Butanone (MEK)	U		0.00119	0.0100	1	04/17/2021 20:38	WG1653797
2-Hexanone	U		0.000787	0.0100	1	04/17/2021 20:38	WG1653797
Methylene Chloride	U		0.000430	0.00500	1	04/17/2021 20:38	WG1653797
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/17/2021 20:38	WG1653797
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/17/2021 20:38	WG1653797
Naphthalene	U		0.00100	0.00500	1	04/17/2021 20:38	WG1653797
n-Propylbenzene	U		0.0000993	0.00100	1	04/17/2021 20:38	WG1653797
Styrene	U		0.000118	0.00100	1	04/17/2021 20:38	WG1653797
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/17/2021 20:38	WG1653797
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/17/2021 20:38	WG1653797
Tetrachloroethene	U		0.000300	0.00100	1	04/17/2021 20:38	WG1653797
Toluene	U		0.000278	0.00100	1	04/17/2021 20:38	WG1653797
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/17/2021 20:38	WG1653797
1,1,2-Trichloroethane	U	J4	0.000158	0.00100	1	04/17/2021 20:38	WG1653797
Trichloroethene	U		0.000190	0.00100	1	04/17/2021 20:38	WG1653797
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/17/2021 20:38	WG1653797
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/17/2021 20:38	WG1653797
Vinyl chloride	U		0.000234	0.00100	1	04/17/2021 20:38	WG1653797
o-Xylene	U		0.000174	0.00100	1	04/17/2021 20:38	WG1653797
m&p-Xylene	U		0.000430	0.00200	1	04/17/2021 20:38	WG1653797
Xylenes, Total	U		0.000174	0.00300	1	04/17/2021 20:38	WG1653797
(S) Toluene-d8	*101*			*80.0-120*		*04/17/2021 20:38*	WG1653797
(S) 4-Bromofluorobenzene	*102*			*77.0-126*		*04/17/2021 20:38*	WG1653797
(S) 1,2-Dichloroethane-d4	*114*			*70.0-130*		*04/17/2021 20:38*	WG1653797

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0733	J	0.0247	0.100	1	04/27/2021 09:43	WG1656087
(S) o-Terphenyl	*96.3*			*31.0-160*		*04/27/2021 09:43*	WG1656087

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4190		20.0	1	04/19/2021 22:36	WG1654733

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	255		37.9	100	100	04/22/2021 11:54	WG1656213
Fluoride	1.06		0.0640	0.150	1	04/22/2021 11:38	WG1656213
Sulfate	2110		59.4	500	100	04/22/2021 11:54	WG1656213

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00268		0.000180	0.00200	1	04/26/2021 14:45	WG1656892
Arsenic,Dissolved	0.00236		0.000180	0.00200	1	04/25/2021 21:34	WG1658404
Barium	0.0192	J	0.000381	0.0200	1	04/26/2021 14:45	WG1656892
Barium,Dissolved	0.00946	J	0.000381	0.0200	1	04/25/2021 21:34	WG1658404
Chromium	0.00135	J	0.00124	0.00200	1	04/26/2021 14:45	WG1656892
Chromium,Dissolved	U		0.00124	0.00200	1	04/25/2021 21:34	WG1658404
Iron	0.264		0.0281	0.100	1	04/26/2021 14:45	WG1656892
Iron,Dissolved	U		0.0281	0.100	1	04/25/2021 21:34	WG1658404
Lead	0.000893	J	0.000849	0.00200	1	04/26/2021 14:45	WG1656892
Lead,Dissolved	U		0.000849	0.00200	1	04/25/2021 21:34	WG1658404
Manganese	0.0507		0.000704	0.00500	1	04/26/2021 14:45	WG1656892
Manganese,Dissolved	0.00290	J	0.000704	0.00500	1	04/25/2021 21:34	WG1658404
Selenium	0.0114		0.000300	0.00200	1	04/26/2021 14:45	WG1656892
Selenium,Dissolved	0.0104		0.000300	0.00200	1	04/25/2021 21:34	WG1658404

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/23/2021 12:14	WG1657165
(S) a,a,a-Trifluorotoluene(FID)	*98.6*			*78.0-120*		*04/23/2021 12:14*	WG1657165

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/17/2021 20:57	WG1653797
Benzene	U		0.0000941	0.00100	1	04/17/2021 20:57	WG1653797
Bromodichloromethane	U		0.000136	0.00100	1	04/17/2021 20:57	WG1653797
Bromoform	U		0.000129	0.00100	1	04/17/2021 20:57	WG1653797
Bromomethane	U		0.000605	0.00500	1	04/17/2021 20:57	WG1653797
n-Butylbenzene	U		0.000157	0.00100	1	04/17/2021 20:57	WG1653797
sec-Butylbenzene	U		0.000125	0.00100	1	04/17/2021 20:57	WG1653797
Carbon disulfide	U		0.0000962	0.00100	1	04/17/2021 20:57	WG1653797
Carbon tetrachloride	U		0.000128	0.00100	1	04/17/2021 20:57	WG1653797
Chlorobenzene	U		0.000116	0.00100	1	04/17/2021 20:57	WG1653797
Chlorodibromomethane	U		0.000140	0.00100	1	04/17/2021 20:57	WG1653797
Chloroethane	U		0.000192	0.00500	1	04/17/2021 20:57	WG1653797
Chloroform	U		0.000111	0.00500	1	04/17/2021 20:57	WG1653797
Chloromethane	U		0.000960	0.00250	1	04/17/2021 20:57	WG1653797
1,2-Dibromoethane	U		0.000126	0.00100	1	04/17/2021 20:57	WG1653797
1,1-Dichloroethane	U		0.000100	0.00100	1	04/17/2021 20:57	WG1653797
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/17/2021 20:57	WG1653797

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,1-Dichloroethene	U		0.000188	0.00100	1	04/17/2021 20:57	WG1653797
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/17/2021 20:57	WG1653797
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/17/2021 20:57	WG1653797
1,2-Dichloropropane	U		0.000149	0.00100	1	04/17/2021 20:57	WG1653797
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/17/2021 20:57	WG1653797
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/17/2021 20:57	WG1653797
Ethylbenzene	U		0.000137	0.00100	1	04/17/2021 20:57	WG1653797
Isopropylbenzene	U		0.000105	0.00100	1	04/17/2021 20:57	WG1653797
p-Isopropyltoluene	U		0.000120	0.00100	1	04/17/2021 20:57	WG1653797
2-Butanone (MEK)	U		0.00119	0.0100	1	04/17/2021 20:57	WG1653797
2-Hexanone	U		0.000787	0.0100	1	04/17/2021 20:57	WG1653797
Methylene Chloride	U		0.000430	0.00500	1	04/17/2021 20:57	WG1653797
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/17/2021 20:57	WG1653797
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/17/2021 20:57	WG1653797
Naphthalene	U		0.00100	0.00500	1	04/17/2021 20:57	WG1653797
n-Propylbenzene	U		0.0000993	0.00100	1	04/17/2021 20:57	WG1653797
Styrene	U		0.000118	0.00100	1	04/17/2021 20:57	WG1653797
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/17/2021 20:57	WG1653797
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/17/2021 20:57	WG1653797
Tetrachloroethene	U		0.000300	0.00100	1	04/17/2021 20:57	WG1653797
Toluene	U		0.000278	0.00100	1	04/17/2021 20:57	WG1653797
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/17/2021 20:57	WG1653797
1,1,2-Trichloroethane	U	J4	0.000158	0.00100	1	04/17/2021 20:57	WG1653797
Trichloroethene	U		0.000190	0.00100	1	04/17/2021 20:57	WG1653797
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/17/2021 20:57	WG1653797
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/17/2021 20:57	WG1653797
Vinyl chloride	U		0.000234	0.00100	1	04/17/2021 20:57	WG1653797
o-Xylene	U		0.000174	0.00100	1	04/17/2021 20:57	WG1653797
m&p-Xylene	U		0.000430	0.00200	1	04/17/2021 20:57	WG1653797
Xylenes, Total	U		0.000174	0.00300	1	04/17/2021 20:57	WG1653797
(S) Toluene-d8	*102*			*80.0-120*		*04/17/2021 20:57*	WG1653797
(S) 4-Bromofluorobenzene	*101*			*77.0-126*		*04/17/2021 20:57*	WG1653797
(S) 1,2-Dichloroethane-d4	*113*			*70.0-130*		*04/17/2021 20:57*	WG1653797

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.102		0.0247	0.100	1	04/22/2021 17:53	WG1656087
(S) o-Terphenyl	*80.5*			*31.0-160*		*04/22/2021 17:53*	WG1656087

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2810		20.0	1	04/19/2021 22:36	WG1654733

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	2.93		0.0500	0.100	1	04/18/2021 06:27	WG1653896

Wet Chemistry by Method 4500CN E-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Cyanide	U		0.00180	0.00500	1	04/22/2021 23:15	WG1656485

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	313		37.9	100	100	04/22/2021 23:49	WG1656344
Fluoride	0.365		0.0640	0.150	1	04/22/2021 23:36	WG1656344
Sulfate	1360		59.4	500	100	04/22/2021 23:49	WG1656344

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U		0.000100	0.000200	1	04/22/2021 08:23	WG1655704
Mercury,Dissolved	U		0.000100	0.000200	1	04/21/2021 18:36	WG1654200

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	0.102	J	0.0200	0.200	1	04/27/2021 07:56	WG1656876
Boron,Dissolved	0.118	J	0.0200	0.200	1	04/25/2021 10:33	WG1656501

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00147	J	0.000180	0.00200	1	04/26/2021 15:51	WG1656892
Arsenic,Dissolved	0.00196	J	0.000180	0.00200	1	04/26/2021 11:33	WG1655946
Barium	0.0146	J	0.000381	0.0200	1	04/26/2021 15:51	WG1656892
Barium,Dissolved	0.0161	J	0.000381	0.0200	1	04/26/2021 11:33	WG1655946
Cadmium	U		0.000150	0.00100	1	04/26/2021 15:51	WG1656892
Cadmium,Dissolved	0.000276	J	0.000150	0.00100	1	04/26/2021 11:33	WG1655946
Calcium	519		0.0936	1.00	1	04/26/2021 15:51	WG1656892
Chromium	0.00141	J	0.00124	0.00200	1	04/26/2021 15:51	WG1656892
Chromium,Dissolved	U		0.00124	0.00200	1	04/26/2021 11:33	WG1655946
Cobalt	U		0.0000596	0.00200	1	04/26/2021 15:51	WG1656892
Cobalt,Dissolved	U		0.0000596	0.00200	1	04/26/2021 11:33	WG1655946
Iron	0.0796	J	0.0281	0.100	1	04/26/2021 15:51	WG1656892
Iron,Dissolved	U		0.0281	0.100	1	04/26/2021 11:33	WG1655946
Lead	U		0.000849	0.00200	1	04/26/2021 15:51	WG1656892
Lead,Dissolved	U		0.000849	0.00200	1	04/26/2021 11:33	WG1655946
Manganese	0.00333	J	0.000704	0.00500	1	04/26/2021 15:51	WG1656892
Manganese,Dissolved	0.00755	B	0.000704	0.00500	1	04/26/2021 11:33	WG1655946
Nickel	U		0.000816	0.00200	1	04/26/2021 15:51	WG1656892
Nickel,Dissolved	0.000844	J	0.000816	0.00200	1	04/26/2021 11:33	WG1655946

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Potassium	2.24		0.108	2.00	1	04/26/2021 15:51	WG1656892
Selenium	0.00854		0.000300	0.00200	1	04/26/2021 15:51	WG1656892
Selenium,Dissolved	0.00861		0.000300	0.00200	1	04/26/2021 11:33	WG1655946
Sodium	95.6		0.376	2.00	1	04/26/2021 15:51	WG1656892
Uranium	0.0125	J	0.0000700	0.0200	1	04/26/2021 15:51	WG1656892
Uranium,Dissolved	0.0132	J	0.0000700	0.0200	1	04/26/2021 11:33	WG1655946
Vanadium	0.00965		0.000664	0.00500	1	04/26/2021 15:51	WG1656892
Vanadium,Dissolved	0.00866		0.000664	0.00500	1	04/26/2021 11:33	WG1655946

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/22/2021 16:10	WG1655942
(S) a,a,a-Trifluorotoluene(FID)	*100*			*78.0-120*		*04/22/2021 16:10*	WG1655942

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/19/2021 20:43	WG1654282
Benzene	U		0.0000941	0.00100	1	04/19/2021 20:43	WG1654282
Bromodichloromethane	U		0.000136	0.00100	1	04/19/2021 20:43	WG1654282
Bromoform	U		0.000129	0.00100	1	04/19/2021 20:43	WG1654282
Bromomethane	U		0.000605	0.00500	1	04/19/2021 20:43	WG1654282
n-Butylbenzene	U		0.000157	0.00100	1	04/19/2021 20:43	WG1654282
sec-Butylbenzene	U		0.000125	0.00100	1	04/19/2021 20:43	WG1654282
Carbon disulfide	U		0.0000962	0.00100	1	04/19/2021 20:43	WG1654282
Carbon tetrachloride	U		0.000128	0.00100	1	04/19/2021 20:43	WG1654282
Chlorobenzene	U		0.000116	0.00100	1	04/19/2021 20:43	WG1654282
Chlorodibromomethane	U		0.000140	0.00100	1	04/19/2021 20:43	WG1654282
Chloroethane	U		0.000192	0.00500	1	04/19/2021 20:43	WG1654282
Chloroform	U		0.000111	0.00500	1	04/19/2021 20:43	WG1654282
Chloromethane	U		0.000960	0.00250	1	04/19/2021 20:43	WG1654282
1,2-Dibromoethane	U		0.000126	0.00100	1	04/19/2021 20:43	WG1654282
1,1-Dichloroethane	U		0.000100	0.00100	1	04/19/2021 20:43	WG1654282
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/19/2021 20:43	WG1654282
1,1-Dichloroethene	U		0.000188	0.00100	1	04/19/2021 20:43	WG1654282
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/19/2021 20:43	WG1654282
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/19/2021 20:43	WG1654282
1,2-Dichloropropane	U		0.000149	0.00100	1	04/19/2021 20:43	WG1654282
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/19/2021 20:43	WG1654282
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/19/2021 20:43	WG1654282
Ethylbenzene	U		0.000137	0.00100	1	04/19/2021 20:43	WG1654282
Isopropylbenzene	U		0.000105	0.00100	1	04/19/2021 20:43	WG1654282
p-Isopropyltoluene	U		0.000120	0.00100	1	04/19/2021 20:43	WG1654282
2-Butanone (MEK)	U		0.00119	0.0100	1	04/19/2021 20:43	WG1654282
2-Hexanone	U		0.000787	0.0100	1	04/19/2021 20:43	WG1654282
Methylene Chloride	U		0.000430	0.00500	1	04/19/2021 20:43	WG1654282
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/19/2021 20:43	WG1654282
Methyl tert-butyl ether	0.00105		0.000101	0.00100	1	04/19/2021 20:43	WG1654282
Naphthalene	U		0.00100	0.00500	1	04/19/2021 20:43	WG1654282
n-Propylbenzene	U		0.0000993	0.00100	1	04/19/2021 20:43	WG1654282
Styrene	U		0.000118	0.00100	1	04/19/2021 20:43	WG1654282
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/19/2021 20:43	WG1654282
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/19/2021 20:43	WG1654282
Tetrachloroethene	U		0.000300	0.00100	1	04/19/2021 20:43	WG1654282

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Toluene	U		0.000278	0.00100	1	04/19/2021 20:43	WG1654282
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/19/2021 20:43	WG1654282
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/19/2021 20:43	WG1654282
Trichloroethene	U		0.000190	0.00100	1	04/19/2021 20:43	WG1654282
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/19/2021 20:43	WG1654282
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/19/2021 20:43	WG1654282
Vinyl chloride	U		0.000234	0.00100	1	04/19/2021 20:43	WG1654282
o-Xylene	U		0.000174	0.00100	1	04/19/2021 20:43	WG1654282
m&p-Xylene	U		0.000430	0.00200	1	04/19/2021 20:43	WG1654282
Xylenes, Total	U		0.000174	0.00300	1	04/19/2021 20:43	WG1654282
(S) Toluene-d8	*102*			*80.0-120*		*04/19/2021 20:43*	WG1654282
(S) 4-Bromofluorobenzene	*96.9*			*77.0-126*		*04/19/2021 20:43*	WG1654282
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*04/19/2021 20:43*	WG1654282

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0356	J	0.0247	0.100	1	04/24/2021 02:00	WG1657699
(S) o-Terphenyl	*86.3*			*31.0-160*		*04/24/2021 02:00*	WG1657699

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	8460		100	1	04/19/2021 22:36	WG1654733

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.500	1.00	10	04/18/2021 06:28	WG1653896

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	4530		37.9	100	100	04/23/2021 00:16	WG1656344
Fluoride	3.47		0.0640	0.150	1	04/23/2021 00:03	WG1656344
Sulfate	157	J	59.4	500	100	04/23/2021 00:16	WG1656344

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00139	J	0.000180	0.00200	1	04/26/2021 15:54	WG1656892
Arsenic,Dissolved	0.00115	J	0.000180	0.00200	1	04/26/2021 11:37	WG1655946
Barium	1.26		0.000381	0.0200	1	04/26/2021 15:54	WG1656892
Barium,Dissolved	1.32		0.000381	0.0200	1	04/26/2021 11:37	WG1655946
Calcium	186		0.0936	1.00	1	04/26/2021 15:54	WG1656892
Chromium	0.00127	J	0.00124	0.00200	1	04/26/2021 15:54	WG1656892
Chromium,Dissolved	U		0.00124	0.00200	1	04/26/2021 11:37	WG1655946
Iron	0.0716	J	0.0281	0.100	1	04/26/2021 15:54	WG1656892
Iron,Dissolved	0.0758	J	0.0281	0.100	1	04/26/2021 11:37	WG1655946
Lead	0.00123	J	0.000849	0.00200	1	04/26/2021 15:54	WG1656892
Lead,Dissolved	0.00104	J	0.000849	0.00200	1	04/26/2021 11:37	WG1655946
Manganese	0.00923		0.000704	0.00500	1	04/26/2021 15:54	WG1656892
Manganese,Dissolved	0.0273	B	0.00352	0.0250	5	04/26/2021 14:09	WG1655946
Potassium	1.26	J	0.108	2.00	1	04/26/2021 15:54	WG1656892
Selenium	U		0.000300	0.00200	1	04/26/2021 15:54	WG1656892
Selenium,Dissolved	U		0.000300	0.00200	1	04/26/2021 11:37	WG1655946
Sodium	3010		3.76	20.0	10	04/26/2021 16:29	WG1656892

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	4.84		0.314	1.00	10	04/23/2021 04:02	WG1656818
(S) a,a,a-Trifluorotoluene(FID)	*98.3*			*78.0-120*		*04/23/2021 04:02*	WG1656818

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.226	1.00	20	04/20/2021 01:28	WG1654282
Benzene	1.09		0.00188	0.0200	20	04/20/2021 01:28	WG1654282
Bromodichloromethane	U		0.00272	0.0200	20	04/20/2021 01:28	WG1654282
Bromoform	U		0.00258	0.0200	20	04/20/2021 01:28	WG1654282
Bromomethane	U		0.0121	0.100	20	04/20/2021 01:28	WG1654282
n-Butylbenzene	0.00341	J	0.00314	0.0200	20	04/20/2021 01:28	WG1654282
sec-Butylbenzene	0.00417	J	0.00250	0.0200	20	04/20/2021 01:28	WG1654282
Carbon disulfide	U		0.00192	0.0200	20	04/20/2021 01:28	WG1654282
Carbon tetrachloride	U		0.00256	0.0200	20	04/20/2021 01:28	WG1654282

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.00232	0.0200	20	04/20/2021 01:28	WG1654282
Chlorodibromomethane	U		0.00280	0.0200	20	04/20/2021 01:28	WG1654282
Chloroethane	U		0.00384	0.100	20	04/20/2021 01:28	WG1654282
Chloroform	U		0.00222	0.100	20	04/20/2021 01:28	WG1654282
Chloromethane	U		0.0192	0.0500	20	04/20/2021 01:28	WG1654282
1,2-Dibromoethane	U		0.00252	0.0200	20	04/20/2021 01:28	WG1654282
1,1-Dichloroethane	U		0.00200	0.0200	20	04/20/2021 01:28	WG1654282
1,2-Dichloroethane	U		0.00164	0.0200	20	04/20/2021 01:28	WG1654282
1,1-Dichloroethene	U		0.00376	0.0200	20	04/20/2021 01:28	WG1654282
cis-1,2-Dichloroethene	U		0.00252	0.0200	20	04/20/2021 01:28	WG1654282
trans-1,2-Dichloroethene	U		0.00298	0.0200	20	04/20/2021 01:28	WG1654282
1,2-Dichloropropane	U		0.00298	0.0200	20	04/20/2021 01:28	WG1654282
cis-1,3-Dichloropropene	U		0.00222	0.0200	20	04/20/2021 01:28	WG1654282
trans-1,3-Dichloropropene	U		0.00236	0.0200	20	04/20/2021 01:28	WG1654282
Ethylbenzene	0.00314	J	0.00274	0.0200	20	04/20/2021 01:28	WG1654282
Isopropylbenzene	0.0276		0.00210	0.0200	20	04/20/2021 01:28	WG1654282
p-Isopropyltoluene	U		0.00240	0.0200	20	04/20/2021 01:28	WG1654282
2-Butanone (MEK)	U		0.0238	0.200	20	04/20/2021 01:28	WG1654282
2-Hexanone	U		0.0157	0.200	20	04/20/2021 01:28	WG1654282
Methylene Chloride	U		0.00860	0.100	20	04/20/2021 01:28	WG1654282
4-Methyl-2-pentanone (MIBK)	U		0.00956	0.200	20	04/20/2021 01:28	WG1654282
Methyl tert-butyl ether	U		0.00202	0.0200	20	04/20/2021 01:28	WG1654282
Naphthalene	U		0.0200	0.100	20	04/20/2021 01:28	WG1654282
n-Propylbenzene	0.0356		0.00199	0.0200	20	04/20/2021 01:28	WG1654282
Styrene	U		0.00236	0.0200	20	04/20/2021 01:28	WG1654282
1,1,1,2-Tetrachloroethane	U		0.00294	0.0200	20	04/20/2021 01:28	WG1654282
1,1,2,2-Tetrachloroethane	U		0.00266	0.0200	20	04/20/2021 01:28	WG1654282
Tetrachloroethene	U		0.00600	0.0200	20	04/20/2021 01:28	WG1654282
Toluene	0.0113	J	0.00556	0.0200	20	04/20/2021 01:28	WG1654282
1,1,1-Trichloroethane	U		0.00298	0.0200	20	04/20/2021 01:28	WG1654282
1,1,2-Trichloroethane	U		0.00316	0.0200	20	04/20/2021 01:28	WG1654282
Trichloroethene	U		0.00380	0.0200	20	04/22/2021 18:06	WG1656346
1,2,4-Trimethylbenzene	U		0.00644	0.0200	20	04/20/2021 01:28	WG1654282
1,3,5-Trimethylbenzene	U		0.00208	0.0200	20	04/20/2021 01:28	WG1654282
Vinyl chloride	U		0.00468	0.0200	20	04/20/2021 01:28	WG1654282
o-Xylene	0.00571	J	0.00348	0.0200	20	04/20/2021 01:28	WG1654282
m&p-Xylene	U		0.00860	0.0400	20	04/20/2021 01:28	WG1654282
Xylenes, Total	0.00571	J	0.00348	0.0600	20	04/20/2021 01:28	WG1654282
(S) Toluene-d8	*105*			*80.0-120*		*04/20/2021 01:28*	WG1654282
(S) Toluene-d8	*107*			*80.0-120*		*04/22/2021 18:06*	WG1656346
(S) 4-Bromofluorobenzene	*106*			*77.0-126*		*04/20/2021 01:28*	WG1654282
(S) 4-Bromofluorobenzene	*104*			*77.0-126*		*04/22/2021 18:06*	WG1656346
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*04/20/2021 01:28*	WG1654282
(S) 1,2-Dichloroethane-d4	*97.2*			*70.0-130*		*04/22/2021 18:06*	WG1656346

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	6.58		0.0247	0.100	1	04/22/2021 22:57	WG1656969
(S) o-Terphenyl	*108*			*31.0-160*		*04/22/2021 22:57*	WG1656969

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1580		10.0	1	04/19/2021 22:36	WG1654733

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0500	0.100	1	04/28/2021 21:44	WG1660820

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	275		37.9	100	100	04/23/2021 00:42	WG1656344
Fluoride	0.750		0.0640	0.150	1	04/23/2021 00:29	WG1656344
Sulfate	23.4		0.594	5.00	1	04/23/2021 00:29	WG1656344

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0237		0.000180	0.00200	1	04/26/2021 15:58	WG1656892
Arsenic,Dissolved	0.0247		0.000180	0.00200	1	04/26/2021 11:40	WG1655946
Barium	1.91		0.000381	0.0200	1	04/26/2021 15:58	WG1656892
Barium,Dissolved	1.98		0.000381	0.0200	1	04/26/2021 11:40	WG1655946
Calcium	93.9		0.0936	1.00	1	04/26/2021 15:58	WG1656892
Chromium	U		0.00124	0.00200	1	04/26/2021 15:58	WG1656892
Chromium,Dissolved	U		0.00124	0.00200	1	04/26/2021 11:40	WG1655946
Iron	0.0631	J	0.0281	0.100	1	04/26/2021 15:58	WG1656892
Iron,Dissolved	0.0507	J	0.0281	0.100	1	04/26/2021 11:40	WG1655946
Lead	0.00110	J	0.000849	0.00200	1	04/26/2021 15:58	WG1656892
Lead,Dissolved	U		0.000849	0.00200	1	04/26/2021 11:40	WG1655946
Manganese	0.0619		0.000704	0.00500	1	04/26/2021 15:58	WG1656892
Manganese,Dissolved	0.119		0.00352	0.0250	5	04/26/2021 14:12	WG1655946
Potassium	0.581	J	0.108	2.00	1	04/26/2021 15:58	WG1656892
Selenium	0.000381	J	0.000300	0.00200	1	04/26/2021 15:58	WG1656892
Selenium,Dissolved	U		0.000300	0.00200	1	04/26/2021 11:40	WG1655946
Sodium	350		0.376	2.00	1	04/26/2021 15:58	WG1656892

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	100		3.14	10.0	100	04/23/2021 04:23	WG1656818
(S) a,a,a-Trifluorotoluene(FID)	*96.6*			*78.0-120*		*04/23/2021 04:23*	WG1656818

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		5.65	25.0	500	04/20/2021 01:49	WG1654282
Benzene	27.1		0.0471	0.500	500	04/20/2021 01:49	WG1654282
Bromodichloromethane	U		0.0680	0.500	500	04/20/2021 01:49	WG1654282
Bromoform	U		0.0645	0.500	500	04/20/2021 01:49	WG1654282
Bromomethane	U		0.303	2.50	500	04/20/2021 01:49	WG1654282
n-Butylbenzene	U		0.0785	0.500	500	04/20/2021 01:49	WG1654282
sec-Butylbenzene	U		0.0625	0.500	500	04/20/2021 01:49	WG1654282
Carbon disulfide	U		0.0481	0.500	500	04/20/2021 01:49	WG1654282
Carbon tetrachloride	U		0.0640	0.500	500	04/20/2021 01:49	WG1654282

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.0580	0.500	500	04/20/2021 01:49	WG1654282
Chlorodibromomethane	U		0.0700	0.500	500	04/20/2021 01:49	WG1654282
Chloroethane	U		0.0960	2.50	500	04/20/2021 01:49	WG1654282
Chloroform	U		0.0555	2.50	500	04/20/2021 01:49	WG1654282
Chloromethane	U		0.480	1.25	500	04/20/2021 01:49	WG1654282
1,2-Dibromoethane	U		0.0630	0.500	500	04/20/2021 01:49	WG1654282
1,1-Dichloroethane	U		0.0500	0.500	500	04/20/2021 01:49	WG1654282
1,2-Dichloroethane	U		0.0409	0.500	500	04/20/2021 01:49	WG1654282
1,1-Dichloroethene	U		0.0940	0.500	500	04/20/2021 01:49	WG1654282
cis-1,2-Dichloroethene	U		0.0630	0.500	500	04/20/2021 01:49	WG1654282
trans-1,2-Dichloroethene	U		0.0745	0.500	500	04/20/2021 01:49	WG1654282
1,2-Dichloropropane	U		0.0745	0.500	500	04/20/2021 01:49	WG1654282
cis-1,3-Dichloropropene	U		0.0555	0.500	500	04/20/2021 01:49	WG1654282
trans-1,3-Dichloropropene	U		0.0590	0.500	500	04/20/2021 01:49	WG1654282
Ethylbenzene	1.80		0.0685	0.500	500	04/20/2021 01:49	WG1654282
Isopropylbenzene	0.0599	J	0.0525	0.500	500	04/20/2021 01:49	WG1654282
p-Isopropyltoluene	U		0.0600	0.500	500	04/20/2021 01:49	WG1654282
2-Butanone (MEK)	U		0.595	5.00	500	04/20/2021 01:49	WG1654282
2-Hexanone	U		0.394	5.00	500	04/20/2021 01:49	WG1654282
Methylene Chloride	U		0.215	2.50	500	04/20/2021 01:49	WG1654282
4-Methyl-2-pentanone (MIBK)	U		0.239	5.00	500	04/20/2021 01:49	WG1654282
Methyl tert-butyl ether	0.431	J	0.0505	0.500	500	04/20/2021 01:49	WG1654282
Naphthalene	U		0.500	2.50	500	04/20/2021 01:49	WG1654282
n-Propylbenzene	0.0953	J	0.0497	0.500	500	04/20/2021 01:49	WG1654282
Styrene	U		0.0590	0.500	500	04/20/2021 01:49	WG1654282
1,1,1,2-Tetrachloroethane	U		0.0735	0.500	500	04/20/2021 01:49	WG1654282
1,1,2,2-Tetrachloroethane	U		0.0665	0.500	500	04/20/2021 01:49	WG1654282
Tetrachloroethene	U		0.150	0.500	500	04/20/2021 01:49	WG1654282
Toluene	8.88		0.139	0.500	500	04/20/2021 01:49	WG1654282
1,1,1-Trichloroethane	U		0.0745	0.500	500	04/20/2021 01:49	WG1654282
1,1,2-Trichloroethane	U		0.0790	0.500	500	04/20/2021 01:49	WG1654282
Trichloroethene	U		0.0950	0.500	500	04/22/2021 18:27	WG1656346
1,2,4-Trimethylbenzene	0.436	J	0.161	0.500	500	04/20/2021 01:49	WG1654282
1,3,5-Trimethylbenzene	0.0967	J	0.0520	0.500	500	04/20/2021 01:49	WG1654282
Vinyl chloride	U		0.117	0.500	500	04/20/2021 01:49	WG1654282
o-Xylene	0.928		0.0870	0.500	500	04/20/2021 01:49	WG1654282
m&p-Xylene	3.22		0.215	1.00	500	04/20/2021 01:49	WG1654282
Xylenes, Total	4.15		0.0870	1.50	500	04/20/2021 01:49	WG1654282
(S) Toluene-d8	*103*			*80.0-120*		*04/20/2021 01:49*	WG1654282
(S) Toluene-d8	*103*			*80.0-120*		*04/22/2021 18:27*	WG1656346
(S) 4-Bromofluorobenzene	*100*			*77.0-126*		*04/20/2021 01:49*	WG1654282
(S) 4-Bromofluorobenzene	*101*			*77.0-126*		*04/22/2021 18:27*	WG1656346
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*04/20/2021 01:49*	WG1654282
(S) 1,2-Dichloroethane-d4	*97.8*			*70.0-130*		*04/22/2021 18:27*	WG1656346

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	6.54		0.0247	0.100	1	04/22/2021 23:17	WG1656969
(S) o-Terphenyl	*94.2*			*31.0-160*		*04/22/2021 23:17*	WG1656969

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	ND		10.0	1	04/19/2021 22:36	WG1654733

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0500	0.100	1	04/28/2021 21:45	WG1660820

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	U		0.379	1.00	1	04/22/2021 17:31	WG1656344
Fluoride	U		0.0640	0.150	1	04/22/2021 17:31	WG1656344
Sulfate	U		0.594	5.00	1	04/22/2021 17:31	WG1656344

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	U		0.000180	0.00200	1	04/26/2021 16:01	WG1656892
Arsenic,Dissolved	U		0.000180	0.00200	1	04/26/2021 11:43	WG1655946
Barium	0.000731	J	0.000381	0.0200	1	04/26/2021 16:01	WG1656892
Barium,Dissolved	0.00706	J	0.000381	0.0200	1	04/26/2021 11:43	WG1655946
Calcium	U		0.0936	1.00	1	04/26/2021 16:01	WG1656892
Chromium	U		0.00124	0.00200	1	04/26/2021 16:01	WG1656892
Chromium,Dissolved	U		0.00124	0.00200	1	04/26/2021 11:43	WG1655946
Iron	U		0.0281	0.100	1	04/26/2021 16:01	WG1656892
Iron,Dissolved	U		0.0281	0.100	1	04/26/2021 11:43	WG1655946
Lead	U		0.000849	0.00200	1	04/26/2021 16:01	WG1656892
Lead,Dissolved	U		0.000849	0.00200	1	04/26/2021 11:43	WG1655946
Manganese	U		0.000704	0.00500	1	04/26/2021 16:01	WG1656892
Manganese,Dissolved	0.00209	B J	0.000704	0.00500	1	04/26/2021 11:43	WG1655946
Potassium	U		0.108	2.00	1	04/26/2021 16:01	WG1656892
Selenium	U		0.000300	0.00200	1	04/26/2021 16:01	WG1656892
Selenium,Dissolved	U		0.000300	0.00200	1	04/26/2021 11:43	WG1655946
Sodium	0.415	J	0.376	2.00	1	04/26/2021 16:01	WG1656892

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/22/2021 23:15	WG1656818
(S) a,a,a-Trifluorotoluene(FID)	*98.6*			*78.0-120*		*04/22/2021 23:15*	WG1656818

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/19/2021 19:42	WG1654282
Benzene	U		0.0000941	0.00100	1	04/19/2021 19:42	WG1654282
Bromodichloromethane	U		0.000136	0.00100	1	04/19/2021 19:42	WG1654282
Bromoform	U		0.000129	0.00100	1	04/19/2021 19:42	WG1654282
Bromomethane	U		0.000605	0.00500	1	04/19/2021 19:42	WG1654282
n-Butylbenzene	U		0.000157	0.00100	1	04/19/2021 19:42	WG1654282
sec-Butylbenzene	U		0.000125	0.00100	1	04/19/2021 19:42	WG1654282
Carbon disulfide	U		0.0000962	0.00100	1	04/19/2021 19:42	WG1654282
Carbon tetrachloride	U		0.000128	0.00100	1	04/19/2021 19:42	WG1654282

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/19/2021 19:42	WG1654282
Chlorodibromomethane	U		0.000140	0.00100	1	04/19/2021 19:42	WG1654282
Chloroethane	U		0.000192	0.00500	1	04/19/2021 19:42	WG1654282
Chloroform	U		0.000111	0.00500	1	04/19/2021 19:42	WG1654282
Chloromethane	U		0.000960	0.00250	1	04/19/2021 19:42	WG1654282
1,2-Dibromoethane	U		0.000126	0.00100	1	04/19/2021 19:42	WG1654282
1,1-Dichloroethane	U		0.000100	0.00100	1	04/19/2021 19:42	WG1654282
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/19/2021 19:42	WG1654282
1,1-Dichloroethene	U		0.000188	0.00100	1	04/19/2021 19:42	WG1654282
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/19/2021 19:42	WG1654282
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/19/2021 19:42	WG1654282
1,2-Dichloropropane	U		0.000149	0.00100	1	04/19/2021 19:42	WG1654282
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/19/2021 19:42	WG1654282
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/19/2021 19:42	WG1654282
Ethylbenzene	U		0.000137	0.00100	1	04/19/2021 19:42	WG1654282
Isopropylbenzene	U		0.000105	0.00100	1	04/19/2021 19:42	WG1654282
p-Isopropyltoluene	U		0.000120	0.00100	1	04/19/2021 19:42	WG1654282
2-Butanone (MEK)	U		0.00119	0.0100	1	04/19/2021 19:42	WG1654282
2-Hexanone	U		0.000787	0.0100	1	04/19/2021 19:42	WG1654282
Methylene Chloride	U		0.000430	0.00500	1	04/19/2021 19:42	WG1654282
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/19/2021 19:42	WG1654282
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/19/2021 19:42	WG1654282
Naphthalene	U		0.00100	0.00500	1	04/19/2021 19:42	WG1654282
n-Propylbenzene	U		0.0000993	0.00100	1	04/19/2021 19:42	WG1654282
Styrene	U		0.000118	0.00100	1	04/19/2021 19:42	WG1654282
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/19/2021 19:42	WG1654282
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/19/2021 19:42	WG1654282
Tetrachloroethene	U		0.000300	0.00100	1	04/19/2021 19:42	WG1654282
Toluene	U		0.000278	0.00100	1	04/19/2021 19:42	WG1654282
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/19/2021 19:42	WG1654282
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/19/2021 19:42	WG1654282
Trichloroethene	U		0.000190	0.00100	1	04/19/2021 19:42	WG1654282
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/19/2021 19:42	WG1654282
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/19/2021 19:42	WG1654282
Vinyl chloride	U		0.000234	0.00100	1	04/19/2021 19:42	WG1654282
o-Xylene	U		0.000174	0.00100	1	04/19/2021 19:42	WG1654282
m&p-Xylene	U		0.000430	0.00200	1	04/19/2021 19:42	WG1654282
Xylenes, Total	U		0.000174	0.00300	1	04/19/2021 19:42	WG1654282
(S) Toluene-d8	*100*			*80.0-120*		*04/19/2021 19:42*	WG1654282
(S) 4-Bromofluorobenzene	*96.2*			*77.0-126*		*04/19/2021 19:42*	WG1654282
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*04/19/2021 19:42*	WG1654282

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	U		0.0247	0.100	1	04/24/2021 02:20	WG1657699
(S) o-Terphenyl	*92.6*			*31.0-160*		*04/24/2021 02:20*	WG1657699

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	5340		20.0	1	04/19/2021 22:36	WG1654733

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	475		37.9	100	100	04/23/2021 01:08	WG1656344
Fluoride	0.791		0.0640	0.150	1	04/23/2021 00:55	WG1656344
Sulfate	2730		59.4	500	100	04/23/2021 01:08	WG1656344

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00308		0.000180	0.00200	1	04/26/2021 16:12	WG1656892
Arsenic,Dissolved	0.00243		0.000180	0.00200	1	04/26/2021 12:12	WG1655946
Barium	0.0825		0.000381	0.0200	1	04/26/2021 16:12	WG1656892
Barium,Dissolved	0.00895	J	0.000381	0.0200	1	04/26/2021 12:12	WG1655946
Chromium	0.00282		0.00124	0.00200	1	04/26/2021 16:12	WG1656892
Chromium,Dissolved	U		0.00124	0.00200	1	04/26/2021 12:12	WG1655946
Iron	1.40		0.0281	0.100	1	04/26/2021 16:12	WG1656892
Iron,Dissolved	U		0.0281	0.100	1	04/26/2021 12:12	WG1655946
Lead	0.00648		0.000849	0.00200	1	04/26/2021 16:12	WG1656892
Lead,Dissolved	U		0.000849	0.00200	1	04/26/2021 12:12	WG1655946
Manganese	0.0783		0.000704	0.00500	1	04/26/2021 16:12	WG1656892
Manganese,Dissolved	0.00731	B	0.000704	0.00500	1	04/26/2021 12:12	WG1655946
Selenium	0.0193		0.000300	0.00200	1	04/26/2021 16:12	WG1656892
Selenium,Dissolved	0.0187		0.000300	0.00200	1	04/26/2021 12:12	WG1655946

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/22/2021 16:32	WG1655942
(S) a,a,a-Trifluorotoluene(FID)	*104*			*78.0-120*		*04/22/2021 16:32*	WG1655942

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/19/2021 21:04	WG1654282
Benzene	U		0.0000941	0.00100	1	04/19/2021 21:04	WG1654282
Bromodichloromethane	U		0.000136	0.00100	1	04/19/2021 21:04	WG1654282
Bromoform	U		0.000129	0.00100	1	04/19/2021 21:04	WG1654282
Bromomethane	U		0.000605	0.00500	1	04/19/2021 21:04	WG1654282
n-Butylbenzene	U		0.000157	0.00100	1	04/19/2021 21:04	WG1654282
sec-Butylbenzene	U		0.000125	0.00100	1	04/19/2021 21:04	WG1654282
Carbon disulfide	U		0.0000962	0.00100	1	04/19/2021 21:04	WG1654282
Carbon tetrachloride	U		0.000128	0.00100	1	04/19/2021 21:04	WG1654282
Chlorobenzene	U		0.000116	0.00100	1	04/19/2021 21:04	WG1654282
Chlorodibromomethane	U		0.000140	0.00100	1	04/19/2021 21:04	WG1654282
Chloroethane	U		0.000192	0.00500	1	04/19/2021 21:04	WG1654282
Chloroform	U		0.000111	0.00500	1	04/19/2021 21:04	WG1654282
Chloromethane	U		0.000960	0.00250	1	04/19/2021 21:04	WG1654282
1,2-Dibromoethane	U		0.000126	0.00100	1	04/19/2021 21:04	WG1654282
1,1-Dichloroethane	U		0.000100	0.00100	1	04/19/2021 21:04	WG1654282
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/19/2021 21:04	WG1654282

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,1-Dichloroethene	U		0.000188	0.00100	1	04/19/2021 21:04	WG1654282
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/19/2021 21:04	WG1654282
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/19/2021 21:04	WG1654282
1,2-Dichloropropane	U		0.000149	0.00100	1	04/19/2021 21:04	WG1654282
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/19/2021 21:04	WG1654282
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/19/2021 21:04	WG1654282
Ethylbenzene	U		0.000137	0.00100	1	04/19/2021 21:04	WG1654282
Isopropylbenzene	U		0.000105	0.00100	1	04/19/2021 21:04	WG1654282
p-Isopropyltoluene	U		0.000120	0.00100	1	04/19/2021 21:04	WG1654282
2-Butanone (MEK)	U		0.00119	0.0100	1	04/19/2021 21:04	WG1654282
2-Hexanone	U		0.000787	0.0100	1	04/19/2021 21:04	WG1654282
Methylene Chloride	U		0.000430	0.00500	1	04/19/2021 21:04	WG1654282
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/19/2021 21:04	WG1654282
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/19/2021 21:04	WG1654282
Naphthalene	U		0.00100	0.00500	1	04/19/2021 21:04	WG1654282
n-Propylbenzene	U		0.0000993	0.00100	1	04/19/2021 21:04	WG1654282
Styrene	U		0.000118	0.00100	1	04/19/2021 21:04	WG1654282
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/19/2021 21:04	WG1654282
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/19/2021 21:04	WG1654282
Tetrachloroethene	U		0.000300	0.00100	1	04/19/2021 21:04	WG1654282
Toluene	U		0.000278	0.00100	1	04/19/2021 21:04	WG1654282
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/19/2021 21:04	WG1654282
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/19/2021 21:04	WG1654282
Trichloroethene	U		0.000190	0.00100	1	04/19/2021 21:04	WG1654282
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/19/2021 21:04	WG1654282
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/19/2021 21:04	WG1654282
Vinyl chloride	U		0.000234	0.00100	1	04/19/2021 21:04	WG1654282
o-Xylene	U		0.000174	0.00100	1	04/19/2021 21:04	WG1654282
m&p-Xylene	U		0.000430	0.00200	1	04/19/2021 21:04	WG1654282
Xylenes, Total	U		0.000174	0.00300	1	04/19/2021 21:04	WG1654282
(S) Toluene-d8	*103*			*80.0-120*		*04/19/2021 21:04*	WG1654282
(S) 4-Bromofluorobenzene	*92.9*			*77.0-126*		*04/19/2021 21:04*	WG1654282
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*04/19/2021 21:04*	WG1654282

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	U		0.0247	0.100	1	04/24/2021 02:41	WG1657699
(S) o-Terphenyl	*54.2*			*31.0-160*		*04/24/2021 02:41*	WG1657699

Method Blank (MB)

(MB) R3644791-1 04/19/21 20:11

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1339412-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1339412-01 04/19/21 20:11 • (DUP) R3644791-3 04/19/21 20:11

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	3510	3540	1	1.02		5

L1339469-15 Original Sample (OS) • Duplicate (DUP)

(OS) L1339469-15 04/19/21 20:11 • (DUP) R3644791-4 04/19/21 20:11

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	3260	3340	1	2.24		5

Laboratory Control Sample (LCS)

(LCS) R3644791-2 04/19/21 20:11

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8830	100	77.4-123	

Method Blank (MB)

(MB) R3644779-1 04/19/21 22:36

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1339469-16 Original Sample (OS) • Duplicate (DUP)

(OS) L1339469-16 04/19/21 22:36 • (DUP) R3644779-3 04/19/21 22:36

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	3370	3460	1	2.52		5

L1339534-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1339534-01 04/19/21 22:36 • (DUP) R3644779-4 04/19/21 22:36

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	5790	5830	1	0.775		5

Laboratory Control Sample (LCS)

(LCS) R3644779-2 04/19/21 22:36

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8710	99.0	77.4-123	

Method Blank (MB)

(MB) R3643147-1 04/18/21 03:27

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Nitrate-Nitrite	U		0.0500	0.100

L1338951-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1338951-02 04/18/21 04:24 • (DUP) R3643147-3 04/18/21 03:32

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate-Nitrite	2.39	2.38	1	0.419		20

L1339469-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1339469-10 04/18/21 04:07 • (DUP) R3643147-6 04/18/21 04:08

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate-Nitrite	7.85	7.75	5	1.28		20

Laboratory Control Sample (LCS)

(LCS) R3643147-2 04/18/21 03:28

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Nitrate-Nitrite	2.50	2.47	98.8	90.0-110	

L1339375-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339375-02 04/18/21 03:34 • (MS) R3643147-4 04/18/21 03:35 • (MSD) R3643147-5 04/18/21 03:37

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Nitrate-Nitrite	2.50	10.7	14.2	13.5	142	112	5	90.0-110	V	V	5.41	20

L1339469-11 Original Sample (OS) • Matrix Spike (MS)

(OS) L1339469-11 04/18/21 04:10 • (MS) R3643147-7 04/18/21 04:11

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Nitrate-Nitrite	2.50	16.1	18.2	84.0	10	90.0-110	V

Method Blank (MB)

(MB) R3643165-1 04/18/21 06:05

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Nitrate-Nitrite	U		0.0500	0.100

L1339469-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1339469-12 04/18/21 06:08 • (DUP) R3643165-3 04/18/21 06:09

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate-Nitrite	0.109	0.114	1	4.48		20

L1339491-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1339491-04 04/18/21 06:40 • (DUP) R3643165-5 04/18/21 06:41

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate-Nitrite	1.20	1.18	1	1.68		20

Laboratory Control Sample (LCS)

(LCS) R3643165-2 04/18/21 06:06

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Nitrate-Nitrite	2.50	2.49	99.6	90.0-110	

L1339469-13 Original Sample (OS) • Matrix Spike (MS)

(OS) L1339469-13 04/18/21 06:10 • (MS) R3643165-4 04/18/21 06:11

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Nitrate-Nitrite	2500	U	2340	93.6	1000	90.0-110	

L1339491-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339491-05 04/18/21 06:42 • (MS) R3643165-6 04/18/21 06:49 • (MSD) R3643165-7 04/18/21 06:50

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Nitrate-Nitrite	2.50	1.79	4.23	4.20	97.6	96.4	1	90.0-110			0.712	20

Method Blank (MB)

(MB) R3647917-1 04/28/21 21:27

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Nitrate-Nitrite	U		0.0500	0.100

L1342900-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1342900-01 04/28/21 21:48 • (DUP) R3647917-5 04/28/21 21:49

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate-Nitrite	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3647917-2 04/28/21 21:29

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Nitrate-Nitrite	2.50	2.61	104	90.0-110	

L1339469-15 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339469-15 04/28/21 21:30 • (MS) R3647917-3 04/28/21 21:31 • (MSD) R3647917-4 04/28/21 21:32

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Nitrate-Nitrite	2.50	U	2.71	2.57	108	103	1	90.0-110			5.30	20

Method Blank (MB)

(MB) R3645905-1 04/23/21 15:59

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Cyanide	U		0.00180	0.00500

L1339087-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1339087-02 04/23/21 16:43 • (DUP) R3645905-3 04/23/21 16:11

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	U	U	1	0.000		20

L1339112-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1339112-01 04/23/21 16:15 • (DUP) R3645905-6 04/23/21 16:16

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3645905-2 04/23/21 16:00

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Cyanide	0.100	0.0965	96.5	87.1-120	

L1339087-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339087-03 04/23/21 16:12 • (MS) R3645905-4 04/23/21 16:13 • (MSD) R3645905-5 04/23/21 16:14

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Cyanide	0.100	U	0.0858	0.0884	85.8	88.4	1	90.0-110	J6	J6	2.99	20

L1339087-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339087-01 04/23/21 16:41 • (MS) R3645905-7 04/23/21 16:42 • (MSD) R3645905-8 04/23/21 16:44

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Cyanide	0.100	U	0.0983	0.0889	98.3	88.9	1	90.0-110		J6	10.0	20

Method Blank (MB)

(MB) R3645453-1 04/22/21 23:09

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Cyanide	U		0.00180	0.00500

L1339587-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1339587-02 04/22/21 23:23 • (DUP) R3645453-5 04/22/21 23:24

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	U	U	1	0.000		20

L1339704-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1339704-03 04/22/21 23:42 • (DUP) R3645453-8 04/22/21 23:43

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3645453-2 04/22/21 23:10

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Cyanide	0.100	0.0986	98.6	87.1-120	

L1339511-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339511-04 04/22/21 23:16 • (MS) R3645453-3 04/22/21 23:17 • (MSD) R3645453-4 04/22/21 23:18

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Cyanide	0.100	0.00221	0.101	0.102	98.8	99.8	1	90.0-110			0.985	20

L1339587-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339587-05 04/22/21 23:27 • (MS) R3645453-6 04/22/21 23:28 • (MSD) R3645453-7 04/22/21 23:29

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Cyanide	0.100	U	0.0934	0.0942	93.4	94.2	1	90.0-110			0.853	20

Method Blank (MB)

(MB) R3645311-1 04/22/21 01:13

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.379	1.00
Fluoride	U		0.0640	0.150
Sulfate	U		0.594	5.00

L1339378-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1339378-13 04/22/21 02:48 • (DUP) R3645311-3 04/22/21 03:04

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	U	U	1	0.000		15
Fluoride	U	U	1	0.000		15
Sulfate	U	U	1	0.000		15

L1339412-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1339412-03 04/22/21 05:27 • (DUP) R3645311-6 04/22/21 13:56

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	U	U	1	0.000		15
Fluoride	U	U	1	0.000		15
Sulfate	U	U	1	0.000		15

Laboratory Control Sample (LCS)

(LCS) R3645311-2 04/22/21 01:28

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	40.7	102	80.0-120	
Fluoride	8.00	8.12	101	80.0-120	
Sulfate	40.0	41.1	103	80.0-120	

L1339378-13 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339378-13 04/22/21 02:48 • (MS) R3645311-4 04/22/21 03:19 • (MSD) R3645311-5 04/22/21 03:35

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50.0	U	51.7	51.8	103	104	1	80.0-120			0.260	15
Fluoride	5.00	U	5.14	5.18	103	104	1	80.0-120			0.717	15
Sulfate	50.0	U	51.2	51.2	102	102	1	80.0-120			0.0166	15

L1339412-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L1339412-03 04/22/21 05:27 • (MS) R3645311-7 04/22/21 14:12

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	U	50.7	101	1	80.0-120	
Fluoride	5.00	U	5.04	101	1	80.0-120	
Sulfate	50.0	U	50.2	100	1	80.0-120	

Method Blank (MB)

(MB) R3645437-1 04/22/21 02:52

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.379	1.00
Fluoride	U		0.0640	0.150
Sulfate	U		0.594	5.00

L1339469-20 Original Sample (OS) • Duplicate (DUP)

(OS) L1339469-20 04/22/21 08:20 • (DUP) R3645437-3 04/22/21 08:37

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	U	0.379	1	200	J P1	15
Fluoride	0.0702	0.0682	1	2.89	J	15
Sulfate	U	U	1	0.000		15

L1339475-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1339475-05 04/22/21 17:30 • (DUP) R3645437-7 04/22/21 17:50

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Fluoride	0.284	0.283	1	0.353		15
Sulfate	3.60	3.60	1	0.128	J	15

L1339475-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1339475-05 04/22/21 18:23 • (DUP) R3645437-9 04/22/21 19:13

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	318	337	10	5.68		15

Laboratory Control Sample (LCS)

(LCS) R3645437-2 04/22/21 03:08

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	38.8	96.9	80.0-120	
Fluoride	8.00	7.98	99.7	80.0-120	
Sulfate	40.0	38.9	97.2	80.0-120	

L1339469-20 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339469-20 04/22/21 08:20 • (MS) R3645437-4 04/22/21 09:26 • (MSD) R3645437-5 04/22/21 09:42

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50.0	U	49.5	49.8	99.0	99.6	1	80.0-120			0.662	15
Fluoride	5.00	0.0702	4.96	5.02	97.8	99.1	1	80.0-120			1.25	15
Sulfate	50.0	U	50.2	48.4	100	96.8	1	80.0-120			3.64	15

L1339475-05 Original Sample (OS) • Matrix Spike (MS)

(OS) L1339475-05 04/22/21 17:30 • (MS) R3645437-8 04/22/21 18:07

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Fluoride	5.00	0.284	5.52	105	1	80.0-120	
Sulfate	50.0	3.60	55.5	104	1	80.0-120	

Method Blank (MB)

(MB) R3645468-1 04/22/21 15:33

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.379	1.00
Fluoride	U		0.0640	0.150
Sulfate	U		0.594	5.00

L1339469-29 Original Sample (OS) • Duplicate (DUP)

(OS) L1339469-29 04/22/21 17:31 • (DUP) R3645468-3 04/22/21 17:45

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	U	U	1	0.000		15
Fluoride	U	U	1	0.000		15
Sulfate	U	U	1	0.000		15

L1339706-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1339706-01 04/22/21 22:18 • (DUP) R3645468-6 04/22/21 22:31

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	20.5	20.6	1	0.378		15
Fluoride	0.0956	0.104	1	8.13	J	15
Sulfate	24.8	24.8	1	0.220		15

Laboratory Control Sample (LCS)

(LCS) R3645468-2 04/22/21 15:46

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	39.2	97.9	80.0-120	
Fluoride	8.00	8.26	103	80.0-120	
Sulfate	40.0	39.4	98.6	80.0-120	

L1339592-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339592-02 04/22/21 20:47 • (MS) R3645468-4 04/22/21 21:00 • (MSD) R3645468-5 04/22/21 21:13

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50.0	4.83	55.9	56.0	102	102	1	80.0-120			0.173	15
Fluoride	5.00	0.145	5.27	5.28	103	103	1	80.0-120			0.180	15
Sulfate	50.0	6.43	58.2	58.3	103	104	1	80.0-120			0.226	15

L1339706-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1339706-01 04/22/21 22:18 • (MS) R3645468-7 04/22/21 22:44

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	20.5	69.8	98.5	1	80.0-120	
Fluoride	5.00	0.0956	5.17	101	1	80.0-120	
Sulfate	50.0	24.8	74.8	100	1	80.0-120	

Method Blank (MB)

(MB) R3644796-1 04/21/21 17:32

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury,Dissolved	U		0.000100	0.000200

Laboratory Control Sample (LCS)

(LCS) R3644796-2 04/21/21 17:34

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury,Dissolved	0.00300	0.00242	80.8	80.0-120	

L1339409-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339409-07 04/21/21 17:35 • (MS) R3644796-3 04/21/21 17:37 • (MSD) R3644796-4 04/21/21 17:39

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury,Dissolved	0.00300	U	0.00308	0.00302	103	101	1	75.0-125			1.80	20

Method Blank (MB)

(MB) R3643490-1 04/19/21 07:20

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury	U		0.000100	0.000200

Laboratory Control Sample (LCS)

(LCS) R3643490-2 04/19/21 07:22

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.00300	0.00304	101	80.0-120	

L1340347-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1340347-01 04/19/21 07:24 • (MS) R3643490-3 04/19/21 07:26 • (MSD) R3643490-4 04/19/21 07:28

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.00300	U	0.00277	0.00265	92.4	88.3	1	75.0-125			4.56	20

Method Blank (MB)

(MB) R3644902-1 04/21/21 18:26

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury,Dissolved	U		0.000100	0.000200

Laboratory Control Sample (LCS)

(LCS) R3644902-2 04/21/21 18:28

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury,Dissolved	0.00300	0.00294	98.1	80.0-120	

L1339592-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339592-02 04/21/21 18:30 • (MS) R3644902-3 04/21/21 18:32 • (MSD) R3644902-4 04/21/21 18:34

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury,Dissolved	0.00300	U	0.00307	0.00308	102	103	1	75.0-125			0.302	20

Method Blank (MB)

(MB) R3645079-1 04/22/21 08:09

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury	U		0.000100	0.000200

Laboratory Control Sample (LCS)

(LCS) R3645079-2 04/22/21 08:11

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.00300	0.00308	103	80.0-120	

L1339387-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339387-01 04/22/21 08:13 • (MS) R3645079-3 04/22/21 08:15 • (MSD) R3645079-4 04/22/21 08:17

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.00300	U	0.00150	0.00101	50.0	33.7	1	75.0-125	J6	J3 J6	39.1	20

Method Blank (MB)

(MB) R3645443-1 04/22/21 16:48

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Boron,Dissolved	U		0.0200	0.200

Laboratory Control Sample (LCS)

(LCS) R3645443-2 04/22/21 16:51

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron,Dissolved	1.00	0.955	95.5	80.0-120	

L1339260-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339260-12 04/22/21 16:54 • (MS) R3645443-4 04/22/21 16:59 • (MSD) R3645443-5 04/22/21 17:02

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Boron,Dissolved	1.00	1.05	2.04	2.00	98.9	95.2	1	75.0-125			1.81	20

Method Blank (MB)

(MB) R3646283-1 04/25/21 10:16

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Boron,Dissolved	U		0.0200	0.200

Laboratory Control Sample (LCS)

(LCS) R3646283-2 04/25/21 10:18

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron,Dissolved	1.00	1.01	101	80.0-120	

L1339907-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339907-03 04/25/21 10:21 • (MS) R3646283-4 04/25/21 10:27 • (MSD) R3646283-5 04/25/21 10:29

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Boron,Dissolved	1.00	0.161	1.15	1.15	99.1	99.4	1	75.0-125			0.274	20

Method Blank (MB)

(MB) R3646690-1 04/26/21 11:38

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Boron	U		0.0200	0.200

Laboratory Control Sample (LCS)

(LCS) R3646690-2 04/26/21 11:40

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron	1.00	0.927	92.7	80.0-120	

L1339205-27 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339205-27 04/26/21 11:43 • (MS) R3646690-4 04/26/21 11:48 • (MSD) R3646690-5 04/26/21 11:51

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Boron	1.00	U	0.945	0.935	94.5	93.5	1	75.0-125			1.06	20

Method Blank (MB)

(MB) R3647164-1 04/27/21 07:40

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Boron	U		0.0200	0.200

Laboratory Control Sample (LCS)

(LCS) R3647164-2 04/27/21 07:42

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron	1.00	0.922	92.2	80.0-120	

L1339717-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339717-04 04/27/21 07:45 • (MS) R3647164-4 04/27/21 07:50 • (MSD) R3647164-5 04/27/21 07:53

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Boron	1.00	0.166	1.10	1.11	93.4	94.2	1	75.0-125			0.670	20

Method Blank (MB)

(MB) R3646692-1 04/26/21 11:41

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic,Dissolved	U		0.000180	0.00200
Barium,Dissolved	U		0.000381	0.0200
Chromium,Dissolved	U		0.00124	0.00200
Iron,Dissolved	U		0.0281	0.100
Lead,Dissolved	U		0.000849	0.00200
Manganese,Dissolved	U		0.000704	0.00500
Selenium,Dissolved	U		0.000300	0.00200

Laboratory Control Sample (LCS)

(LCS) R3646692-2 04/26/21 11:44

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic,Dissolved	0.0500	0.0484	96.7	80.0-120	
Barium,Dissolved	0.0500	0.0473	94.7	80.0-120	
Chromium,Dissolved	0.0500	0.0521	104	80.0-120	
Iron,Dissolved	5.00	5.05	101	80.0-120	
Lead,Dissolved	0.0500	0.0476	95.2	80.0-120	
Manganese,Dissolved	0.0500	0.0507	101	80.0-120	
Selenium,Dissolved	0.0500	0.0498	99.7	80.0-120	

L1339592-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339592-02 04/26/21 11:48 • (MS) R3646692-4 04/26/21 11:54 • (MSD) R3646692-5 04/26/21 11:57

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic,Dissolved	0.0500	0.00609	0.0539	0.0544	95.7	96.7	1	75.0-125			0.870	20
Barium,Dissolved	0.0500	0.0392	0.0868	0.0866	95.2	94.6	1	75.0-125			0.311	20
Chromium,Dissolved	0.0500	U	0.0505	0.0502	101	100	1	75.0-125			0.687	20
Iron,Dissolved	5.00	1.49	6.39	6.36	98.0	97.3	1	75.0-125			0.540	20
Lead,Dissolved	0.0500	U	0.0496	0.0488	99.3	97.6	1	75.0-125			1.73	20
Manganese,Dissolved	0.0500	0.569	0.604	0.613	70.4	88.5	1	75.0-125	V		1.49	20
Selenium,Dissolved	0.0500	U	0.0504	0.0508	101	102	1	75.0-125			0.743	20

Method Blank (MB)

(MB) R3646670-1 04/26/21 11:14

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic,Dissolved	U		0.000180	0.00200
Barium,Dissolved	U		0.000381	0.0200
Cadmium,Dissolved	U		0.000150	0.00100
Chromium,Dissolved	U		0.00124	0.00200
Cobalt,Dissolved	U		0.0000596	0.00200
Iron,Dissolved	U		0.0281	0.100
Lead,Dissolved	U		0.000849	0.00200
Manganese,Dissolved	0.00177	J	0.000704	0.00500
Nickel,Dissolved	U		0.000816	0.00200
Selenium,Dissolved	U		0.000300	0.00200
Uranium,Dissolved	U		0.0000700	0.0200
Vanadium,Dissolved	U		0.000664	0.00500

Laboratory Control Sample (LCS)

(LCS) R3646670-2 04/26/21 11:17

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic,Dissolved	0.0500	0.0499	99.8	80.0-120	
Barium,Dissolved	0.0500	0.0486	97.2	80.0-120	
Cadmium,Dissolved	0.0500	0.0531	106	80.0-120	
Chromium,Dissolved	0.0500	0.0526	105	80.0-120	
Cobalt,Dissolved	0.0500	0.0531	106	80.0-120	
Iron,Dissolved	5.00	5.26	105	80.0-120	
Lead,Dissolved	0.0500	0.0498	99.5	80.0-120	
Manganese,Dissolved	0.0500	0.0596	119	80.0-120	
Nickel,Dissolved	0.0500	0.0547	109	80.0-120	
Selenium,Dissolved	0.0500	0.0489	97.8	80.0-120	
Uranium,Dissolved	0.0500	0.0508	102	80.0-120	
Vanadium,Dissolved	0.0500	0.0528	106	80.0-120	

L1339810-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339810-07 04/26/21 11:20 • (MS) R3646670-4 04/26/21 11:27 • (MSD) R3646670-5 04/26/21 11:30

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic,Dissolved	0.0500	0.00169	0.0499	0.0511	96.5	98.9	1	75.0-125			2.39	20
Barium,Dissolved	0.0500	1.18	1.19	1.21	23.8	64.9	1	75.0-125	V	V	1.72	20
Cadmium,Dissolved	0.0500	U	0.0529	0.0540	106	108	1	75.0-125			2.05	20

L1339810-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339810-07 04/26/21 11:20 • (MS) R3646670-4 04/26/21 11:27 • (MSD) R3646670-5 04/26/21 11:30

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chromium,Dissolved	0.0500	U	0.0522	0.0524	104	105	1	75.0-125			0.446	20
Cobalt,Dissolved	0.0500	0.00498	0.0569	0.0555	104	101	1	75.0-125			2.48	20
Iron,Dissolved	5.00	48.5	52.7	52.3	83.2	74.9	1	75.0-125		V	0.792	20
Lead,Dissolved	0.0500	U	0.0508	0.0507	102	101	1	75.0-125			0.0609	20
Manganese,Dissolved	0.0500	30.2	28.8	29.1	0.000	0.000	1	75.0-125	E V	E V	1.13	20
Nickel,Dissolved	0.0500	0.00266	0.0543	0.0537	103	102	1	75.0-125			0.979	20
Selenium,Dissolved	0.0500	U	0.0544	0.0525	109	105	1	75.0-125			3.64	20
Uranium,Dissolved	0.0500	U	0.0524	0.0529	105	106	1	75.0-125			0.940	20
Vanadium,Dissolved	0.0500	U	0.0513	0.0506	103	101	1	75.0-125			1.32	20

Method Blank (MB)

(MB) R3646546-1 04/26/21 08:49

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic	U		0.000180	0.00200
Barium	U		0.000381	0.0200
Calcium	U		0.0936	1.00
Chromium	U		0.00124	0.00200
Iron	U		0.0281	0.100
Lead	U		0.000849	0.00200
Manganese	U		0.000704	0.00500
Potassium	U		0.108	2.00
Selenium	U		0.000300	0.00200
Sodium	U		0.376	2.00

Laboratory Control Sample (LCS)

(LCS) R3646546-2 04/26/21 08:52

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	0.0500	0.0490	98.0	80.0-120	
Barium	0.0500	0.0468	93.7	80.0-120	
Calcium	5.00	4.97	99.5	80.0-120	
Chromium	0.0500	0.0515	103	80.0-120	
Iron	5.00	5.21	104	80.0-120	
Lead	0.0500	0.0505	101	80.0-120	
Manganese	0.0500	0.0507	101	80.0-120	
Potassium	5.00	4.76	95.2	80.0-120	
Selenium	0.0500	0.0498	99.5	80.0-120	
Sodium	5.00	5.17	103	80.0-120	

L1339378-13 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339378-13 04/26/21 08:55 • (MS) R3646546-4 04/26/21 09:02 • (MSD) R3646546-5 04/26/21 09:05

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	0.0500	U	0.0484	0.0479	96.7	95.9	1	75.0-125			0.871	20
Barium	0.0500	0.000455	0.0479	0.0482	94.9	95.4	1	75.0-125			0.463	20
Calcium	5.00	U	5.05	5.02	101	100	1	75.0-125			0.565	20
Chromium	0.0500	U	0.0511	0.0505	102	101	1	75.0-125			1.15	20
Potassium	5.00	U	4.83	4.83	96.7	96.5	1	75.0-125			0.155	20
Iron	5.00	U	5.16	4.90	103	97.9	1	75.0-125			5.30	20
Lead	0.0500	U	0.0489	0.0494	97.7	98.8	1	75.0-125			1.07	20

L1339378-13 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339378-13 04/26/21 08:55 • (MS) R3646546-4 04/26/21 09:02 • (MSD) R3646546-5 04/26/21 09:05

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Manganese	0.0500	U	0.0501	0.0497	100	99.4	1	75.0-125			0.870	20
Selenium	0.0500	U	0.0503	0.0506	101	101	1	75.0-125			0.576	20
Sodium	5.00	U	5.55	5.27	111	105	1	75.0-125			5.20	20

Method Blank (MB)

(MB) R3646537-1 04/26/21 08:52

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic	U		0.000180	0.00200
Barium	0.000408	J	0.000381	0.0200
Cadmium	U		0.000150	0.00100
Calcium	U		0.0936	1.00
Chromium	U		0.00124	0.00200
Cobalt	U		0.0000596	0.00200
Iron	U		0.0281	0.100
Lead	U		0.000849	0.00200
Manganese	U		0.000704	0.00500
Nickel	U		0.000816	0.00200
Potassium	U		0.108	2.00
Selenium	U		0.000300	0.00200
Sodium	U		0.376	2.00
Uranium	U		0.0000700	0.0200
Vanadium	U		0.000664	0.00500

Laboratory Control Sample (LCS)

(LCS) R3646537-2 04/26/21 08:55

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	0.0500	0.0504	101	80.0-120	
Barium	0.0500	0.0470	94.1	80.0-120	
Cadmium	0.0500	0.0532	106	80.0-120	
Calcium	5.00	5.11	102	80.0-120	
Chromium	0.0500	0.0540	108	80.0-120	
Cobalt	0.0500	0.0543	109	80.0-120	
Iron	5.00	5.49	110	80.0-120	
Lead	0.0500	0.0484	96.9	80.0-120	
Manganese	0.0500	0.0521	104	80.0-120	
Nickel	0.0500	0.0543	109	80.0-120	
Potassium	5.00	4.86	97.2	80.0-120	
Selenium	0.0500	0.0511	102	80.0-120	
Sodium	5.00	5.16	103	80.0-120	
Uranium	0.0500	0.0471	94.3	80.0-120	
Vanadium	0.0500	0.0521	104	80.0-120	

L1339469-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339469-04 04/26/21 08:59 • (MS) R3646537-4 04/26/21 09:06 • (MSD) R3646537-5 04/26/21 09:09

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	0.0500	0.00449	0.0531	0.0537	97.1	98.4	1	75.0-125			1.23	20
Barium	0.0500	0.0129	0.0624	0.0586	99.0	91.5	1	75.0-125			6.27	20
Cadmium	0.0500	U	0.0531	0.0529	106	106	1	75.0-125			0.376	20
Calcium	5.00	620	622	615	39.3	0.000	1	75.0-125	V	V	1.11	20
Chromium	0.0500	0.00278	0.0534	0.0521	101	98.7	1	75.0-125			2.39	20
Cobalt	0.0500	0.000287	0.0498	0.0503	99.0	100	1	75.0-125			1.02	20
Potassium	5.00	0.690	5.40	5.43	94.1	94.9	1	75.0-125			0.689	20
Iron	5.00	0.276	5.55	5.45	106	103	1	75.0-125			1.91	20
Lead	0.0500	U	0.0490	0.0492	98.0	98.5	1	75.0-125			0.550	20
Manganese	0.0500	0.0119	0.0604	0.0597	97.0	95.7	1	75.0-125			1.05	20
Nickel	0.0500	0.00196	0.0524	0.0501	101	96.3	1	75.0-125			4.55	20
Selenium	0.0500	0.00456	0.0563	0.0544	104	99.8	1	75.0-125			3.44	20
Sodium	5.00	189	189	197	0.000	161	1	75.0-125	V	V	4.26	20
Uranium	0.0500	0.0328	0.0944	0.0980	123	130	1	75.0-125		J5	3.78	20
Vanadium	0.0500	0.0197	0.0700	0.0688	101	98.2	1	75.0-125			1.74	20

Method Blank (MB)

(MB) R3646752-1 04/26/21 14:38

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic	U		0.000180	0.00200
Barium	U		0.000381	0.0200
Cadmium	U		0.000150	0.00100
Calcium	U		0.0936	1.00
Chromium	U		0.00124	0.00200
Cobalt	U		0.0000596	0.00200
Iron	U		0.0281	0.100
Lead	U		0.000849	0.00200
Manganese	U		0.000704	0.00500
Nickel	U		0.000816	0.00200
Potassium	U		0.108	2.00
Selenium	U		0.000300	0.00200
Sodium	U		0.376	2.00
Uranium	U		0.0000700	0.0200
Vanadium	U		0.000664	0.00500

Laboratory Control Sample (LCS)

(LCS) R3646752-2 04/26/21 14:42

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	0.0500	0.0477	95.5	80.0-120	
Barium	0.0500	0.0480	95.9	80.0-120	
Cadmium	0.0500	0.0521	104	80.0-120	
Calcium	5.00	4.96	99.1	80.0-120	
Chromium	0.0500	0.0514	103	80.0-120	
Cobalt	0.0500	0.0520	104	80.0-120	
Iron	5.00	5.05	101	80.0-120	
Lead	0.0500	0.0488	97.6	80.0-120	
Manganese	0.0500	0.0510	102	80.0-120	
Nickel	0.0500	0.0522	104	80.0-120	
Potassium	5.00	4.72	94.4	80.0-120	
Selenium	0.0500	0.0505	101	80.0-120	
Sodium	5.00	5.57	111	80.0-120	
Uranium	0.0500	0.0472	94.4	80.0-120	
Vanadium	0.0500	0.0512	102	80.0-120	

L1339469-25 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339469-25 04/26/21 14:45 • (MS) R3646752-4 04/26/21 14:52 • (MSD) R3646752-5 04/26/21 14:55

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	0.0500	0.00268	0.0516	0.0518	97.9	98.3	1	75.0-125			0.320	20
Barium	0.0500	0.0192	0.0654	0.0698	92.4	101	1	75.0-125			6.53	20
Cadmium	0.0500	U	0.0518	0.0508	104	102	1	75.0-125			2.06	20
Calcium	5.00	585	597	601	243	330	1	75.0-125	V	V	0.727	20
Chromium	0.0500	0.00135	0.0519	0.0523	101	102	1	75.0-125			0.843	20
Cobalt	0.0500	0.000241	0.0503	0.0499	100	99.3	1	75.0-125			0.820	20
Potassium	5.00	3.64	8.37	8.27	94.5	92.7	1	75.0-125			1.11	20
Iron	5.00	0.264	5.33	5.16	101	97.9	1	75.0-125			3.28	20
Lead	0.0500	0.000893	0.0503	0.0491	98.8	96.5	1	75.0-125			2.26	20
Manganese	0.0500	0.0507	0.0998	0.100	98.2	99.2	1	75.0-125			0.464	20
Nickel	0.0500	0.00166	0.0518	0.0516	100	99.9	1	75.0-125			0.408	20
Selenium	0.0500	0.0114	0.0638	0.0640	105	105	1	75.0-125			0.281	20
Sodium	5.00	273	287	281	270	146	1	75.0-125	V	V	2.18	20
Uranium	0.0500	0.0256	0.0770	0.0737	103	96.2	1	75.0-125			4.29	20
Vanadium	0.0500	0.0210	0.0742	0.0735	106	105	1	75.0-125			0.962	20

Method Blank (MB)

(MB) R3646309-1 04/25/21 19:35

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic,Dissolved	U		0.000180	0.00200
Barium,Dissolved	U		0.000381	0.0200
Cadmium,Dissolved	U		0.000150	0.00100
Chromium,Dissolved	U		0.00124	0.00200
Cobalt,Dissolved	U		0.0000596	0.00200
Iron,Dissolved	U		0.0281	0.100
Lead,Dissolved	U		0.000849	0.00200
Manganese,Dissolved	U		0.000704	0.00500
Nickel,Dissolved	U		0.000816	0.00200
Selenium,Dissolved	U		0.000300	0.00200
Uranium,Dissolved	U		0.0000700	0.0200
Vanadium,Dissolved	U		0.000664	0.00500

Laboratory Control Sample (LCS)

(LCS) R3646309-2 04/25/21 19:39

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic,Dissolved	0.0500	0.0480	95.9	80.0-120	
Barium,Dissolved	0.0500	0.0492	98.4	80.0-120	
Cadmium,Dissolved	0.0500	0.0523	105	80.0-120	
Chromium,Dissolved	0.0500	0.0491	98.2	80.0-120	
Cobalt,Dissolved	0.0500	0.0503	101	80.0-120	
Iron,Dissolved	5.00	4.89	97.8	80.0-120	
Lead,Dissolved	0.0500	0.0479	95.8	80.0-120	
Manganese,Dissolved	0.0500	0.0486	97.2	80.0-120	
Nickel,Dissolved	0.0500	0.0506	101	80.0-120	
Selenium,Dissolved	0.0500	0.0525	105	80.0-120	
Uranium,Dissolved	0.0500	0.0471	94.3	80.0-120	
Vanadium,Dissolved	0.0500	0.0484	96.8	80.0-120	

L1339469-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339469-08 04/25/21 19:42 • (MS) R3646309-4 04/25/21 19:49 • (MSD) R3646309-5 04/25/21 19:52

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic,Dissolved	0.0500	0.00315	0.0515	0.0503	96.6	94.4	1	75.0-125			2.19	20
Barium,Dissolved	0.0500	0.0100	0.0578	0.0559	95.6	91.7	1	75.0-125			3.38	20
Cadmium,Dissolved	0.0500	U	0.0501	0.0489	100	97.8	1	75.0-125			2.42	20

L1339469-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339469-08 04/25/21 19:42 • (MS) R3646309-4 04/25/21 19:49 • (MSD) R3646309-5 04/25/21 19:52

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chromium,Dissolved	0.0500	U	0.0474	0.0466	94.8	93.2	1	75.0-125			1.62	20
Cobalt,Dissolved	0.0500	0.00786	0.0559	0.0542	96.0	92.6	1	75.0-125			3.09	20
Iron,Dissolved	5.00	U	4.79	4.61	95.9	92.3	1	75.0-125			3.84	20
Lead,Dissolved	0.0500	U	0.0473	0.0469	94.6	93.8	1	75.0-125			0.804	20
Manganese,Dissolved	0.0500	0.400	0.456	0.440	112	80.1	1	75.0-125			3.57	20
Nickel,Dissolved	0.0500	0.00790	0.0561	0.0527	96.5	89.6	1	75.0-125			6.28	20
Selenium,Dissolved	0.0500	U	0.0511	0.0532	102	106	1	75.0-125			3.89	20
Uranium,Dissolved	0.0500	0.0133	0.0611	0.0606	95.7	94.6	1	75.0-125			0.852	20
Vanadium,Dissolved	0.0500	0.0151	0.0637	0.0613	97.2	92.4	1	75.0-125			3.87	20

Method Blank (MB)

(MB) R3644081-2 04/20/21 09:44

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*101*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R3644081-1 04/20/21 09:01

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.47	99.5	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*113*	*78.0-120*	

Method Blank (MB)

(MB) R3645368-2 04/20/21 21:27

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*102*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R3645368-1 04/20/21 20:43

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.50	100	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*112*	*78.0-120*	

Method Blank (MB)

(MB) R3645351-2 04/22/21 12:22

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*99.4*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R3645351-1 04/22/21 11:29

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.43	98.7	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*111*	*78.0-120*	

Method Blank (MB)

(MB) R3645528-2 04/22/21 22:53

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*98.4*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R3645528-1 04/22/21 21:30

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.64	103	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*105*	*78.0-120*	

Method Blank (MB)

(MB) R3645786-2 04/23/21 09:48

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*99.0*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R3645786-1 04/23/21 08:14

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	4.69	85.3	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*105*	*78.0-120*	

Method Blank (MB)

(MB) R3644215-2 04/17/21 22:55

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0113	0.0500
Benzene	U		0.0000941	0.00100
Bromodichloromethane	U		0.000136	0.00100
Bromoform	U		0.000129	0.00100
Bromomethane	U		0.000605	0.00500
n-Butylbenzene	U		0.000157	0.00100
sec-Butylbenzene	U		0.000125	0.00100
Carbon disulfide	U		0.0000962	0.00100
Carbon tetrachloride	U		0.000128	0.00100
Chlorobenzene	U		0.000116	0.00100
Chlorodibromomethane	U		0.000140	0.00100
Chloroethane	U		0.000192	0.00500
Chloroform	U		0.000111	0.00500
Chloromethane	U		0.000960	0.00250
1,2-Dibromoethane	U		0.000126	0.00100
1,1-Dichloroethane	U		0.000100	0.00100
1,2-Dichloroethane	U		0.0000819	0.00100
1,1-Dichloroethene	U		0.000188	0.00100
cis-1,2-Dichloroethene	U		0.000126	0.00100
trans-1,2-Dichloroethene	U		0.000149	0.00100
1,2-Dichloropropane	U		0.000149	0.00100
cis-1,3-Dichloropropene	U		0.000111	0.00100
trans-1,3-Dichloropropene	U		0.000118	0.00100
Ethylbenzene	U		0.000137	0.00100
2-Hexanone	U		0.000787	0.0100
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
Methylene Chloride	U		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100
Methyl tert-butyl ether	U		0.000101	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.0000993	0.00100
Styrene	U		0.000118	0.00100
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100
Tetrachloroethene	U		0.000300	0.00100
Toluene	U		0.000278	0.00100
1,1,1-Trichloroethane	U		0.000149	0.00100
1,1,2-Trichloroethane	U		0.000158	0.00100

Method Blank (MB)

(MB) R3644215-2 04/17/21 22:55

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Trichloroethene	U		0.000190	0.00100
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
Vinyl chloride	U		0.000234	0.00100
Xylenes, Total	U		0.000174	0.00300
o-Xylene	U		0.000174	0.00100
m&p-Xylenes	U		0.000430	0.00200
(S) Toluene-d8	*112*			*80.0-120*
(S) 4-Bromofluorobenzene	*102*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*96.9*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3644215-1 04/17/21 22:14

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.0250	0.0250	100	19.0-160	
Benzene	0.00500	0.00486	97.2	70.0-123	
Bromodichloromethane	0.00500	0.00450	90.0	75.0-120	
Bromoform	0.00500	0.00504	101	68.0-132	
Bromomethane	0.00500	0.00473	94.6	10.0-160	
n-Butylbenzene	0.00500	0.00402	80.4	73.0-125	
sec-Butylbenzene	0.00500	0.00490	98.0	75.0-125	
Carbon disulfide	0.00500	0.00447	89.4	61.0-128	
Carbon tetrachloride	0.00500	0.00498	99.6	68.0-126	
Chlorobenzene	0.00500	0.00520	104	80.0-121	
Chlorodibromomethane	0.00500	0.00519	104	77.0-125	
Chloroethane	0.00500	0.00478	95.6	47.0-150	
Chloroform	0.00500	0.00503	101	73.0-120	
Chloromethane	0.00500	0.00517	103	41.0-142	
1,2-Dibromoethane	0.00500	0.00558	112	80.0-122	
1,1-Dichloroethane	0.00500	0.00518	104	70.0-126	
1,2-Dichloroethane	0.00500	0.00469	93.8	70.0-128	
1,1-Dichloroethene	0.00500	0.00447	89.4	71.0-124	
cis-1,2-Dichloroethene	0.00500	0.00460	92.0	73.0-120	
trans-1,2-Dichloroethene	0.00500	0.00483	96.6	73.0-120	
1,2-Dichloropropane	0.00500	0.00511	102	77.0-125	
cis-1,3-Dichloropropene	0.00500	0.00497	99.4	80.0-123	
trans-1,3-Dichloropropene	0.00500	0.00471	94.2	78.0-124	

Laboratory Control Sample (LCS)

(LCS) R3644215-1 04/17/21 22:14

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ethylbenzene	0.00500	0.00490	98.0	79.0-123	
2-Hexanone	0.0250	0.0255	102	67.0-149	
Isopropylbenzene	0.00500	0.00470	94.0	76.0-127	
p-Isopropyltoluene	0.00500	0.00478	95.6	76.0-125	
2-Butanone (MEK)	0.0250	0.0257	103	44.0-160	
Methylene Chloride	0.00500	0.00455	91.0	67.0-120	
4-Methyl-2-pentanone (MIBK)	0.0250	0.0261	104	68.0-142	
Methyl tert-butyl ether	0.00500	0.00490	98.0	68.0-125	
Naphthalene	0.00500	0.00598	120	54.0-135	
n-Propylbenzene	0.00500	0.00510	102	77.0-124	
Styrene	0.00500	0.00532	106	73.0-130	
1,1,1,2-Tetrachloroethane	0.00500	0.00483	96.6	75.0-125	
1,1,2,2-Tetrachloroethane	0.00500	0.00530	106	65.0-130	
Tetrachloroethene	0.00500	0.00511	102	72.0-132	
Toluene	0.00500	0.00498	99.6	79.0-120	
1,1,1-Trichloroethane	0.00500	0.00476	95.2	73.0-124	
1,1,2-Trichloroethane	0.00500	0.00516	103	80.0-120	
Trichloroethene	0.00500	0.00539	108	78.0-124	
1,2,4-Trimethylbenzene	0.00500	0.00473	94.6	76.0-121	
1,3,5-Trimethylbenzene	0.00500	0.00477	95.4	76.0-122	
Vinyl chloride	0.00500	0.00542	108	67.0-131	
Xylenes, Total	0.0150	0.0151	101	79.0-123	
o-Xylene	0.00500	0.00496	99.2	80.0-122	
m&p-Xylenes	0.0100	0.0101	101	80.0-122	
(S) Toluene-d8			*109*	*80.0-120*	
(S) 4-Bromofluorobenzene			*96.1*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*95.6*	*70.0-130*	

Method Blank (MB)

(MB) R3644787-2 04/17/21 20:06

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0113	0.0500
Benzene	U		0.0000941	0.00100
Bromodichloromethane	U		0.000136	0.00100
Bromoform	U		0.000129	0.00100
Bromomethane	U		0.000605	0.00500
n-Butylbenzene	U		0.000157	0.00100
sec-Butylbenzene	U		0.000125	0.00100
Carbon disulfide	U		0.0000962	0.00100
Carbon tetrachloride	U		0.000128	0.00100
Chlorobenzene	U		0.000116	0.00100
Chlorodibromomethane	U		0.000140	0.00100
Chloroethane	U		0.000192	0.00500
Chloroform	U		0.000111	0.00500
Chloromethane	U		0.000960	0.00250
1,2-Dibromoethane	U		0.000126	0.00100
1,1-Dichloroethane	U		0.000100	0.00100
1,2-Dichloroethane	U		0.0000819	0.00100
1,1-Dichloroethene	U		0.000188	0.00100
cis-1,2-Dichloroethene	U		0.000126	0.00100
trans-1,2-Dichloroethene	U		0.000149	0.00100
1,2-Dichloropropane	U		0.000149	0.00100
cis-1,3-Dichloropropene	U		0.000111	0.00100
trans-1,3-Dichloropropene	U		0.000118	0.00100
Ethylbenzene	U		0.000137	0.00100
2-Hexanone	U		0.000787	0.0100
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
Methylene Chloride	U		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100
Methyl tert-butyl ether	U		0.000101	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.0000993	0.00100
Styrene	U		0.000118	0.00100
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100
Tetrachloroethene	U		0.000300	0.00100
Toluene	U		0.000278	0.00100
1,1,1-Trichloroethane	U		0.000149	0.00100
1,1,2-Trichloroethane	U		0.000158	0.00100

Method Blank (MB)

(MB) R3644787-2 04/17/21 20:06

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Trichloroethene	U		0.000190	0.00100
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
Vinyl chloride	U		0.000234	0.00100
Xylenes, Total	U		0.000174	0.00300
o-Xylene	U		0.000174	0.00100
m&p-Xylenes	U		0.000430	0.00200
(S) Toluene-d8	*116*			*80.0-120*
(S) 4-Bromofluorobenzene	*93.5*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3644787-1 04/17/21 19:28

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.0250	0.0312	125	19.0-160	
Benzene	0.00500	0.00419	83.8	70.0-123	
Bromodichloromethane	0.00500	0.00396	79.2	75.0-120	
Bromoform	0.00500	0.00414	82.8	68.0-132	
Bromomethane	0.00500	0.00563	113	10.0-160	
n-Butylbenzene	0.00500	0.00504	101	73.0-125	
sec-Butylbenzene	0.00500	0.00504	101	75.0-125	
Carbon disulfide	0.00500	0.00410	82.0	61.0-128	
Carbon tetrachloride	0.00500	0.00503	101	68.0-126	
Chlorobenzene	0.00500	0.00495	99.0	80.0-121	
Chlorodibromomethane	0.00500	0.00455	91.0	77.0-125	
Chloroethane	0.00500	0.00607	121	47.0-150	
Chloroform	0.00500	0.00417	83.4	73.0-120	
Chloromethane	0.00500	0.00536	107	41.0-142	
1,2-Dibromoethane	0.00500	0.00486	97.2	80.0-122	
1,1-Dichloroethane	0.00500	0.00405	81.0	70.0-126	
1,2-Dichloroethane	0.00500	0.00412	82.4	70.0-128	
1,1-Dichloroethene	0.00500	0.00425	85.0	71.0-124	
cis-1,2-Dichloroethene	0.00500	0.00449	89.8	73.0-120	
trans-1,2-Dichloroethene	0.00500	0.00444	88.8	73.0-120	
1,2-Dichloropropane	0.00500	0.00432	86.4	77.0-125	
cis-1,3-Dichloropropene	0.00500	0.00386	77.2	80.0-123	J4
trans-1,3-Dichloropropene	0.00500	0.00407	81.4	78.0-124	

Laboratory Control Sample (LCS)

(LCS) R3644787-1 04/17/21 19:28

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ethylbenzene	0.00500	0.00517	103	79.0-123	
2-Hexanone	0.0250	0.0253	101	67.0-149	
Isopropylbenzene	0.00500	0.00481	96.2	76.0-127	
p-Isopropyltoluene	0.00500	0.00503	101	76.0-125	
2-Butanone (MEK)	0.0250	0.0238	95.2	44.0-160	
Methylene Chloride	0.00500	0.00393	78.6	67.0-120	
4-Methyl-2-pentanone (MIBK)	0.0250	0.0264	106	68.0-142	
Methyl tert-butyl ether	0.00500	0.00488	97.6	68.0-125	
Naphthalene	0.00500	0.00515	103	54.0-135	
n-Propylbenzene	0.00500	0.00512	102	77.0-124	
Styrene	0.00500	0.00467	93.4	73.0-130	
1,1,1,2-Tetrachloroethane	0.00500	0.00510	102	75.0-125	
1,1,2,2-Tetrachloroethane	0.00500	0.00495	99.0	65.0-130	
Tetrachloroethene	0.00500	0.00510	102	72.0-132	
Toluene	0.00500	0.00514	103	79.0-120	
1,1,1-Trichloroethane	0.00500	0.00446	89.2	73.0-124	
1,1,2-Trichloroethane	0.00500	0.00459	91.8	80.0-120	
Trichloroethene	0.00500	0.00446	89.2	78.0-124	
1,2,4-Trimethylbenzene	0.00500	0.00495	99.0	76.0-121	
1,3,5-Trimethylbenzene	0.00500	0.00493	98.6	76.0-122	
Vinyl chloride	0.00500	0.00544	109	67.0-131	
Xylenes, Total	0.0150	0.0150	100	79.0-123	
o-Xylene	0.00500	0.00487	97.4	80.0-122	
m&p-Xylenes	0.0100	0.0101	101	80.0-122	
(S) Toluene-d8			*115*	*80.0-120*	
(S) 4-Bromofluorobenzene			*95.4*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*107*	*70.0-130*	

Method Blank (MB)

(MB) R3645264-2 04/17/21 20:19

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0113	0.0500
Benzene	U		0.0000941	0.00100
Bromodichloromethane	U		0.000136	0.00100
Bromoform	U		0.000129	0.00100
Bromomethane	U		0.000605	0.00500
n-Butylbenzene	U		0.000157	0.00100
sec-Butylbenzene	U		0.000125	0.00100
Carbon disulfide	U		0.0000962	0.00100
Carbon tetrachloride	U		0.000128	0.00100
Chlorobenzene	U		0.000116	0.00100
Chlorodibromomethane	U		0.000140	0.00100
Chloroethane	U		0.000192	0.00500
Chloroform	U		0.000111	0.00500
Chloromethane	U		0.000960	0.00250
1,2-Dibromoethane	U		0.000126	0.00100
1,1-Dichloroethane	U		0.000100	0.00100
1,2-Dichloroethane	U		0.0000819	0.00100
1,1-Dichloroethene	U		0.000188	0.00100
cis-1,2-Dichloroethene	U		0.000126	0.00100
trans-1,2-Dichloroethene	U		0.000149	0.00100
1,2-Dichloropropane	U		0.000149	0.00100
cis-1,3-Dichloropropene	U		0.000111	0.00100
trans-1,3-Dichloropropene	U		0.000118	0.00100
Ethylbenzene	U		0.000137	0.00100
2-Hexanone	U		0.000787	0.0100
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
Methylene Chloride	U		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100
Methyl tert-butyl ether	U		0.000101	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.0000993	0.00100
Styrene	U		0.000118	0.00100
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100
Tetrachloroethene	U		0.000300	0.00100
Toluene	U		0.000278	0.00100
1,1,1-Trichloroethane	U		0.000149	0.00100
1,1,2-Trichloroethane	U		0.000158	0.00100

Method Blank (MB)

(MB) R3645264-2 04/17/21 20:19

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Trichloroethene	U		0.000190	0.00100
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
Vinyl chloride	U		0.000234	0.00100
Xylenes, Total	U		0.000174	0.00300
o-Xylene	U		0.000174	0.00100
m&p-Xylenes	U		0.000430	0.00200
(S) Toluene-d8	*104*			*80.0-120*
(S) 4-Bromofluorobenzene	*105*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*113*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3645264-1 04/17/21 19:41

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.0250	0.0206	82.4	19.0-160	
Benzene	0.00500	0.00424	84.8	70.0-123	
Bromodichloromethane	0.00500	0.00515	103	75.0-120	
Bromoform	0.00500	0.00470	94.0	68.0-132	
Bromomethane	0.00500	0.00553	111	10.0-160	
n-Butylbenzene	0.00500	0.00414	82.8	73.0-125	
sec-Butylbenzene	0.00500	0.00414	82.8	75.0-125	
Carbon disulfide	0.00500	0.00451	90.2	61.0-128	
Carbon tetrachloride	0.00500	0.00546	109	68.0-126	
Chlorobenzene	0.00500	0.00430	86.0	80.0-121	
Chlorodibromomethane	0.00500	0.00455	91.0	77.0-125	
Chloroethane	0.00500	0.00560	112	47.0-150	
Chloroform	0.00500	0.00513	103	73.0-120	
Chloromethane	0.00500	0.00497	99.4	41.0-142	
1,2-Dibromoethane	0.00500	0.00440	88.0	80.0-122	
1,1-Dichloroethane	0.00500	0.00470	94.0	70.0-126	
1,2-Dichloroethane	0.00500	0.00509	102	70.0-128	
1,1-Dichloroethene	0.00500	0.00485	97.0	71.0-124	
cis-1,2-Dichloroethene	0.00500	0.00475	95.0	73.0-120	
trans-1,2-Dichloroethene	0.00500	0.00465	93.0	73.0-120	
1,2-Dichloropropane	0.00500	0.00464	92.8	77.0-125	
cis-1,3-Dichloropropene	0.00500	0.00465	93.0	80.0-123	
trans-1,3-Dichloropropene	0.00500	0.00455	91.0	78.0-124	

Laboratory Control Sample (LCS)

(LCS) R3645264-1 04/17/21 19:41

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ethylbenzene	0.00500	0.00438	87.6	79.0-123	
2-Hexanone	0.0250	0.0214	85.6	67.0-149	
Isopropylbenzene	0.00500	0.00444	88.8	76.0-127	
p-Isopropyltoluene	0.00500	0.00412	82.4	76.0-125	
2-Butanone (MEK)	0.0250	0.0215	86.0	44.0-160	
Methylene Chloride	0.00500	0.00483	96.6	67.0-120	
4-Methyl-2-pentanone (MIBK)	0.0250	0.0216	86.4	68.0-142	
Methyl tert-butyl ether	0.00500	0.00501	100	68.0-125	
Naphthalene	0.00500	0.00385	77.0	54.0-135	
n-Propylbenzene	0.00500	0.00411	82.2	77.0-124	
Styrene	0.00500	0.00438	87.6	73.0-130	
1,1,1,2-Tetrachloroethane	0.00500	0.00468	93.6	75.0-125	
1,1,2,2-Tetrachloroethane	0.00500	0.00401	80.2	65.0-130	
Tetrachloroethene	0.00500	0.00433	86.6	72.0-132	
Toluene	0.00500	0.00425	85.0	79.0-120	
1,1,1-Trichloroethane	0.00500	0.00534	107	73.0-124	
1,1,2-Trichloroethane	0.00500	0.00399	79.8	80.0-120	J4
Trichloroethene	0.00500	0.00485	97.0	78.0-124	
1,2,4-Trimethylbenzene	0.00500	0.00423	84.6	76.0-121	
1,3,5-Trimethylbenzene	0.00500	0.00435	87.0	76.0-122	
Vinyl chloride	0.00500	0.00519	104	67.0-131	
Xylenes, Total	0.0150	0.0126	84.0	79.0-123	
o-Xylene	0.00500	0.00434	86.8	80.0-122	
m&p-Xylenes	0.0100	0.00827	82.7	80.0-122	
(S) Toluene-d8			*100*	*80.0-120*	
(S) 4-Bromofluorobenzene			*104*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*116*	*70.0-130*	

Method Blank (MB)

(MB) R3644761-2 04/19/21 19:22

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0113	0.0500
Benzene	U		0.0000941	0.00100
Bromodichloromethane	U		0.000136	0.00100
Bromoform	U		0.000129	0.00100
Bromomethane	U		0.000605	0.00500
n-Butylbenzene	U		0.000157	0.00100
sec-Butylbenzene	U		0.000125	0.00100
Carbon disulfide	U		0.0000962	0.00100
Carbon tetrachloride	U		0.000128	0.00100
Chlorobenzene	U		0.000116	0.00100
Chlorodibromomethane	U		0.000140	0.00100
Chloroethane	U		0.000192	0.00500
Chloroform	U		0.000111	0.00500
Chloromethane	U		0.000960	0.00250
1,2-Dibromoethane	U		0.000126	0.00100
1,1-Dichloroethane	U		0.000100	0.00100
1,2-Dichloroethane	U		0.0000819	0.00100
1,1-Dichloroethene	U		0.000188	0.00100
cis-1,2-Dichloroethene	U		0.000126	0.00100
trans-1,2-Dichloroethene	U		0.000149	0.00100
1,2-Dichloropropane	U		0.000149	0.00100
cis-1,3-Dichloropropene	U		0.000111	0.00100
trans-1,3-Dichloropropene	U		0.000118	0.00100
Ethylbenzene	U		0.000137	0.00100
2-Hexanone	U		0.000787	0.0100
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
Methylene Chloride	U		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100
Methyl tert-butyl ether	U		0.000101	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.0000993	0.00100
Styrene	U		0.000118	0.00100
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100
Tetrachloroethene	U		0.000300	0.00100
Toluene	U		0.000278	0.00100
1,1,1-Trichloroethane	U		0.000149	0.00100
1,1,2-Trichloroethane	U		0.000158	0.00100

Method Blank (MB)

(MB) R3644761-2 04/19/21 19:22

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Trichloroethene	U		0.000190	0.00100
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
Vinyl chloride	U		0.000234	0.00100
Xylenes, Total	U		0.000174	0.00300
o-Xylene	U		0.000174	0.00100
m&p-Xylenes	U		0.000430	0.00200
(S) Toluene-d8	*103*			*80.0-120*
(S) 4-Bromofluorobenzene	*97.4*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3644761-1 04/19/21 18:21

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.0250	0.0217	86.8	19.0-160	
Benzene	0.00500	0.00515	103	70.0-123	
Bromodichloromethane	0.00500	0.00549	110	75.0-120	
Bromoform	0.00500	0.00483	96.6	68.0-132	
Bromomethane	0.00500	0.00587	117	10.0-160	
n-Butylbenzene	0.00500	0.00524	105	73.0-125	
sec-Butylbenzene	0.00500	0.00511	102	75.0-125	
Carbon disulfide	0.00500	0.00526	105	61.0-128	
Carbon tetrachloride	0.00500	0.00487	97.4	68.0-126	
Chlorobenzene	0.00500	0.00505	101	80.0-121	
Chlorodibromomethane	0.00500	0.00521	104	77.0-125	
Chloroethane	0.00500	0.00630	126	47.0-150	
Chloroform	0.00500	0.00548	110	73.0-120	
Chloromethane	0.00500	0.00569	114	41.0-142	
1,2-Dibromoethane	0.00500	0.00501	100	80.0-122	
1,1-Dichloroethane	0.00500	0.00562	112	70.0-126	
1,2-Dichloroethane	0.00500	0.00524	105	70.0-128	
1,1-Dichloroethene	0.00500	0.00531	106	71.0-124	
cis-1,2-Dichloroethene	0.00500	0.00525	105	73.0-120	
trans-1,2-Dichloroethene	0.00500	0.00565	113	73.0-120	
1,2-Dichloropropane	0.00500	0.00555	111	77.0-125	
cis-1,3-Dichloropropene	0.00500	0.00524	105	80.0-123	
trans-1,3-Dichloropropene	0.00500	0.00492	98.4	78.0-124	

Laboratory Control Sample (LCS)

(LCS) R3644761-1 04/19/21 18:21

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ethylbenzene	0.00500	0.00518	104	79.0-123	
2-Hexanone	0.0250	0.0211	84.4	67.0-149	
Isopropylbenzene	0.00500	0.00551	110	76.0-127	
p-Isopropyltoluene	0.00500	0.00527	105	76.0-125	
2-Butanone (MEK)	0.0250	0.0209	83.6	44.0-160	
Methylene Chloride	0.00500	0.00523	105	67.0-120	
4-Methyl-2-pentanone (MIBK)	0.0250	0.0236	94.4	68.0-142	
Methyl tert-butyl ether	0.00500	0.00534	107	68.0-125	
Naphthalene	0.00500	0.00412	82.4	54.0-135	
n-Propylbenzene	0.00500	0.00488	97.6	77.0-124	
Styrene	0.00500	0.00499	99.8	73.0-130	
1,1,1,2-Tetrachloroethane	0.00500	0.00521	104	75.0-125	
1,1,2,2-Tetrachloroethane	0.00500	0.00434	86.8	65.0-130	
Tetrachloroethene	0.00500	0.00546	109	72.0-132	
Toluene	0.00500	0.00489	97.8	79.0-120	
1,1,1-Trichloroethane	0.00500	0.00558	112	73.0-124	
1,1,2-Trichloroethane	0.00500	0.00503	101	80.0-120	
Trichloroethene	0.00500	0.00573	115	78.0-124	
1,2,4-Trimethylbenzene	0.00500	0.00487	97.4	76.0-121	
1,3,5-Trimethylbenzene	0.00500	0.00506	101	76.0-122	
Vinyl chloride	0.00500	0.00522	104	67.0-131	
Xylenes, Total	0.0150	0.0157	105	79.0-123	
o-Xylene	0.00500	0.00507	101	80.0-122	
m&p-Xylenes	0.0100	0.0106	106	80.0-122	
(S) Toluene-d8			*100*	*80.0-120*	
(S) 4-Bromofluorobenzene			*103*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*108*	*70.0-130*	

Method Blank (MB)

(MB) R3645433-4 04/22/21 10:35

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Trichloroethene	U		0.000190	0.00100
(S) Toluene-d8	*103*			*80.0-120*
(S) 4-Bromofluorobenzene	*98.4*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*99.6*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3645433-1 04/22/21 09:15

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Trichloroethene	0.00500	0.00476	95.2	78.0-124	
(S) Toluene-d8			*103*	*80.0-120*	
(S) 4-Bromofluorobenzene			*102*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*98.7*	*70.0-130*	

Method Blank (MB)

(MB) R3645400-1 04/22/21 10:58

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) High Fraction	U		0.0247	0.100
(S) o-Terphenyl	*104*			*31.0-160*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3645400-2 04/22/21 11:24 • (LCSD) R3645400-3 04/22/21 11:50

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) High Fraction	1.50	1.68	1.72	112	115	50.0-150			2.35	20
(S) o-Terphenyl				*123*	*120*	*31.0-160*				

Method Blank (MB)

(MB) R3645285-1 04/22/21 15:37

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) High Fraction	U		0.0247	0.100
(S) o-Terphenyl	*103*			*31.0-160*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3645285-2 04/22/21 15:54 • (LCSD) R3645285-3 04/22/21 16:11

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) High Fraction	1.50	1.36	1.34	90.7	89.3	50.0-150			1.48	20
(S) o-Terphenyl				*100*	*100*	*31.0-160*				

Method Blank (MB)

(MB) R3645950-1 04/22/21 21:33

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) High Fraction	0.188		0.0247	0.100
(S) o-Terphenyl	*86.0*			*31.0-160*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3645950-2 04/22/21 21:53 • (LCSD) R3645950-3 04/22/21 22:13

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) High Fraction	1.50	1.65	1.72	110	115	50.0-150			4.15	20
(S) o-Terphenyl				*123*	*115*	*31.0-160*				

Method Blank (MB)

(MB) R3646261-1 04/24/21 01:00

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) High Fraction	U		0.0247	0.100
(S) o-Terphenyl	*77.0*			*31.0-160*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3646261-2 04/24/21 01:20 • (LCSD) R3646261-3 04/24/21 01:40

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) High Fraction	1.50	1.48	1.45	98.7	96.7	50.0-150			2.05	20
(S) o-Terphenyl				*107*	*110*	*31.0-160*				

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
V	The sample concentration is too high to evaluate accurate spike recoveries.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

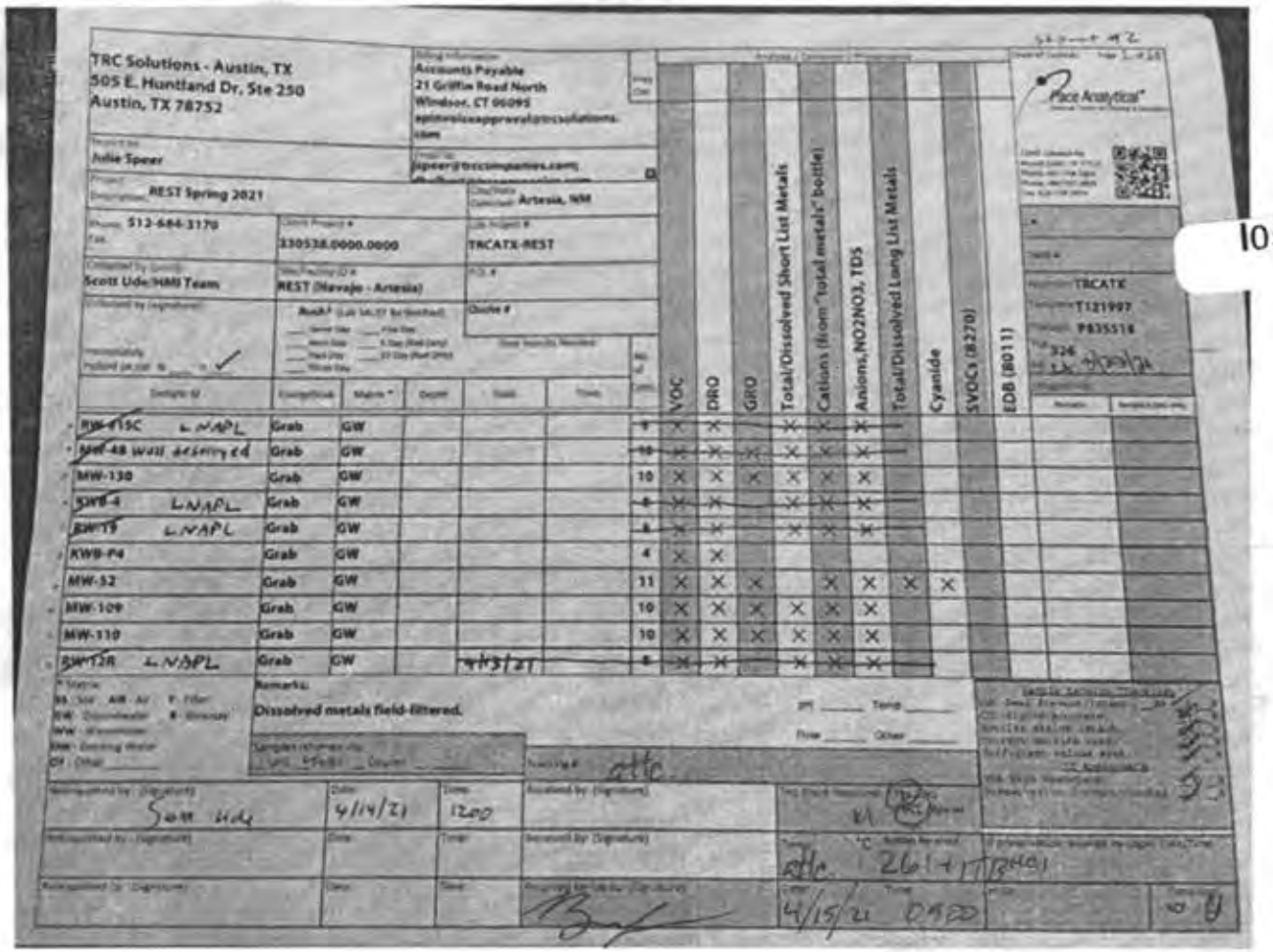
[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

L1339469

1059



TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Accounts Payable
21 Griffin Road North
Windsor, CT 06095

Julie Speer

REST Spring 2021

Artesia, NM

512-684-3170

330538.0000.0000

TRCATX-REST

Scott Ude/HMS Team

REST (Navajo - Artesia)

Quote #

Pace Analytical

TRCATX
T121997
P835518

						VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions,NO2/NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)
RW-01SC LNAPL	Grab	GW			4	X	X		X	X	X				
MW-48 Well destroyed	Grab	GW			10	X	X	X	X	X	X				
MW-130	Grab	GW			10	X	X	X	X	X	X				
SW8-4 LNAPL	Grab	GW			8	X	X		X	X	X				
SW19 LNAPL	Grab	GW			8	X	X		X	X	X				
KWB-P4	Grab	GW			4	X	X								
MW-32	Grab	GW			11	X	X	X		X	X	X	X		
MW-109	Grab	GW			10	X	X	X	X	X	X				
MW-110	Grab	GW			10	X	X	X	X	X	X				
SW12R LNAPL	Grab	GW		4/13/21	8	X	X		X	X	X				

Remarks:
Dissolved metals field-filtered.

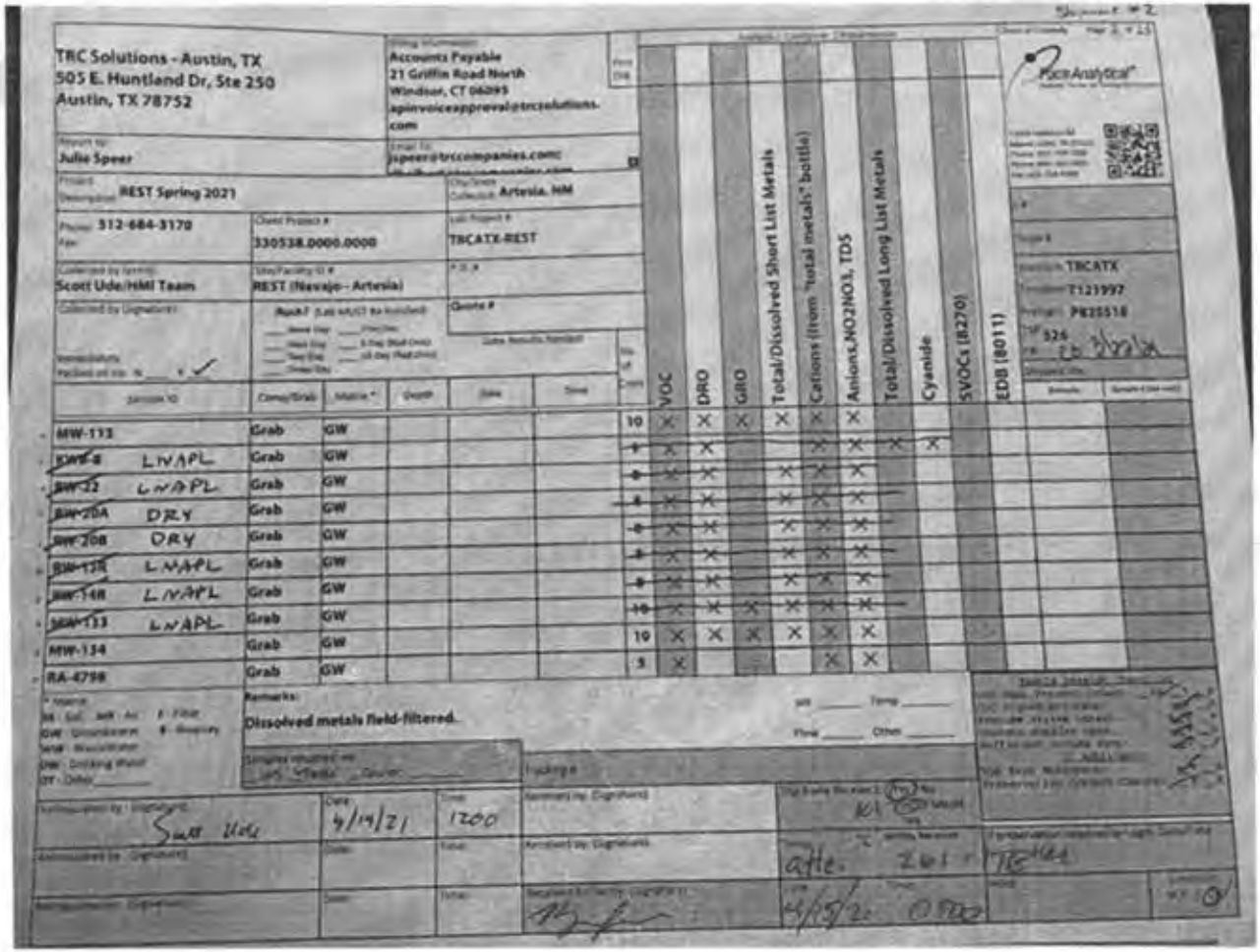
pH _____ Temp _____
Flow _____ Other _____

Sent Hdy
4/14/21 1200

4/15/21 0900

Pages 1-10

L1339469



TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Accounts Payable
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Report to: Julie Spear
Email To: jspeer@trcconsultants.com

Project Description: REST Spring 2021
City/State Collected: Artesia, NM

Phone: 512-684-3170
Client Project #: 330538.0000.0000
Lab Project #: TRCATX-REST

Collected by (print): Scott Ude/HMI Team
Site/Facility ID #: REST (Navajo - Artesia)
P.O. #:

Collected by (signature):
Rush? (Lab MUST Be Notified)
Quote #:

Immediately Packed on Ice: N ✓
Sales Rep/Info Number:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	# of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions,NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)
MW-113	Grab	GW				10	X	X	X	X	X	X				
~~RA-8~~ LNAPL	Grab	GW				4	X	X			X	X	X	X		
~~RA-22~~ LNAPL	Grab	GW				4	X	X		X	X	X				
~~RA-20A~~ DRY	Grab	GW				4	X	X		X	X	X				
~~RA-20B~~ DRY	Grab	GW				4	X	X		X	X	X				
~~RA-13R~~ LNAPL	Grab	GW				4	X	X		X	X	X				
~~RA-14R~~ LNAPL	Grab	GW				4	X	X		X	X	X				
~~RA-13~~ LNAPL	Grab	GW				10	X	X	X	X	X	X				
MW-134	Grab	GW				10	X	X	X	X	X	X				
RA-4798	Grab	GW				3	X					X	X			

* Matrix: SS - Soil, GW - Groundwater, WW - Wastewater, DW - Drinking Water, OT - Other

Remarks: Dissolved metals field-filtered.

pH _____ Temp _____
Flow _____ Other _____

Shipped Via: _____ Sample # of Coolers: _____

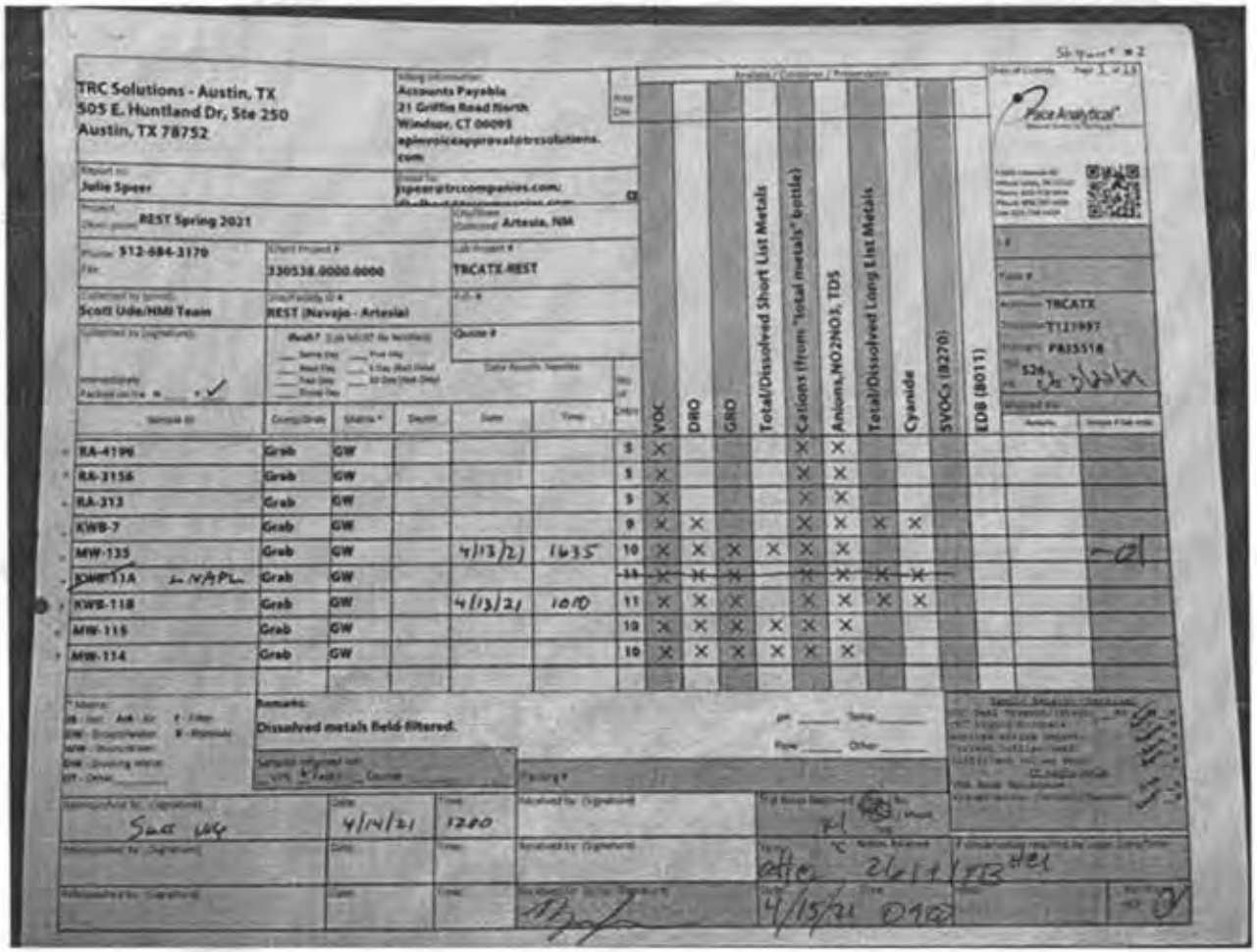
Relinquished by: (Signature) Scott Ude — Date: 4/19/21 — Time: 1200
Received by: (Signature) — Date: — Time:
Relinquished by: (Signature) — Date: — Time:
Received by: (Signature) — Date: — Time:

Custody Seals Intact? No
Temp: 2.6 °C
Bottles Received: 26
Date: 4/19/21 Time: 0900

Pace Analytical
TRCATX
T121997
PM: 326
PB: 4/20/21

Released to Imaging: 2/7/2025 11:08:22 AM

L1339469



TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Accounts Payable
21 Griffin Road North
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apinvoiceapproval@trcsolutions.com

Report to: Julie Speer

Project: REST Spring 2021

Phone: 512-684-3170

Project #: 330538.0000.0000

Collected by: Scott Ude/HMI Team

Site/Facility ID #: REST (Navajo - Artesia)

Quote #:

Purchase Order #:

Pace Analytical

Sample ID	Comp/Grab	Matrix	Depth	Date	Time	# of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions, NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)
RA-4196	Grab	GW				5	X				X	X				
RA-2156	Grab	GW				5	X				X	X				
RA-313	Grab	GW				5	X				X	X				
KWB-7	Grab	GW				9	X	X			X	X	X	X		
MW-135	Grab	GW		4/13/21	1635	10	X	X	X	X	X	X				
~~KWB-11A~~ LNAPL	Grab	GW				~~11~~	~~X~~	~~X~~	~~X~~		~~X~~	~~X~~	~~X~~	~~X~~		
KWB-118	Grab	GW		4/13/21	1010	11	X	X	X		X	X	X	X		
MW-115	Grab	GW				10	X	X	X	X	X	X				
MW-114	Grab	GW				10	X	X	X	X	X	X				

Remarks: Dissolved metals field-filtered.

pH _____ Temp _____
Flow _____ Other _____

Relinquished by: (Signature) Scott Ude — Date: 4/14/21 — Time: 1200

Received by: (Signature)

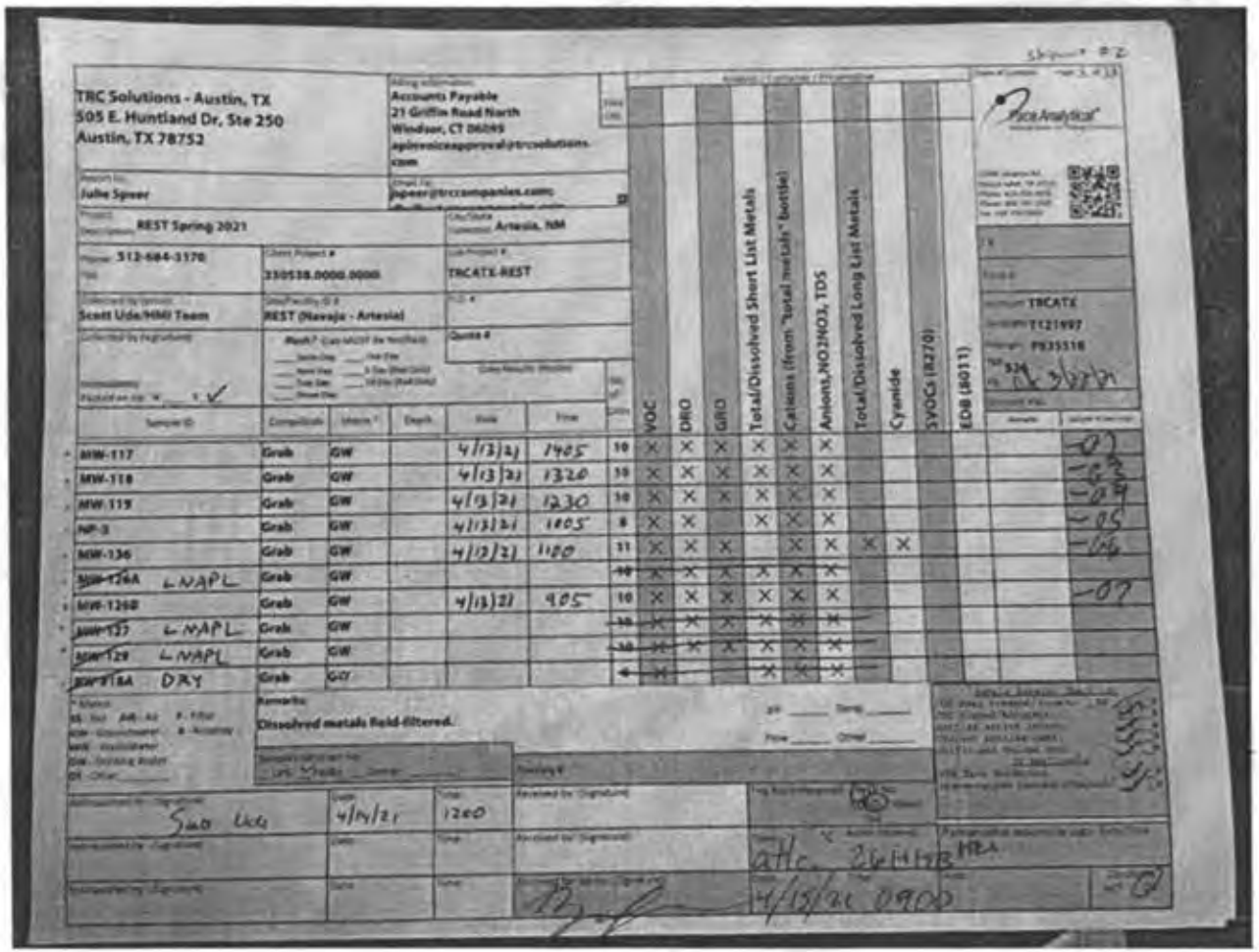
Relinquished by: (Signature)

Received by: (Signature)

Relinquished by: (Signature)

Received by: (Signature) — Date: 4/15/21 — Time: 0900

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Julie Speer

jspeer@trccompanies.com

REST Spring 2021

Artesia, NM

512-684-3170

230538.0000.0000

TRCATX-REST

Scott Ude/HMI Team

REST (Navajo - Artesia)

Quote #

TRCATX
T121997
PW35516

Sample ID	Comp/Grab	Matrix	Depth	Date	Time		VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions,NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	
MW-117	Grab	GW		4/13/21	1405	10	X	X	X	X	X	X					-02
MW-118	Grab	GW		4/13/21	1320	10	X	X	X	X	X	X					-03
MW-119	Grab	GW		4/13/21	1230	10	X	X	X	X	X	X					-04
NP-3	Grab	GW		4/13/21	1005	8	X	X		X	X	X					-05
MW-136	Grab	GW		4/13/21	1100	11	X	X	X		X	X	X	X			-06
~~MW-126A~~ LNAPL	Grab	GW				~~10~~	X	X	X	X	X	X					
MW-126B	Grab	GW		4/13/21	905	10	X	X	X	X	X	X					-07
~~MW-127~~ LNAPL	Grab	GW				~~10~~	X	X	X	X	X	X					
~~MW-129~~ LNAPL	Grab	GW				~~10~~	X	X	X	X	X	X					
~~MW-18A~~ DRY	Grab	GW				~~4~~	X			X	X	X					

Remarks:
Dissolved metals field-filtered.

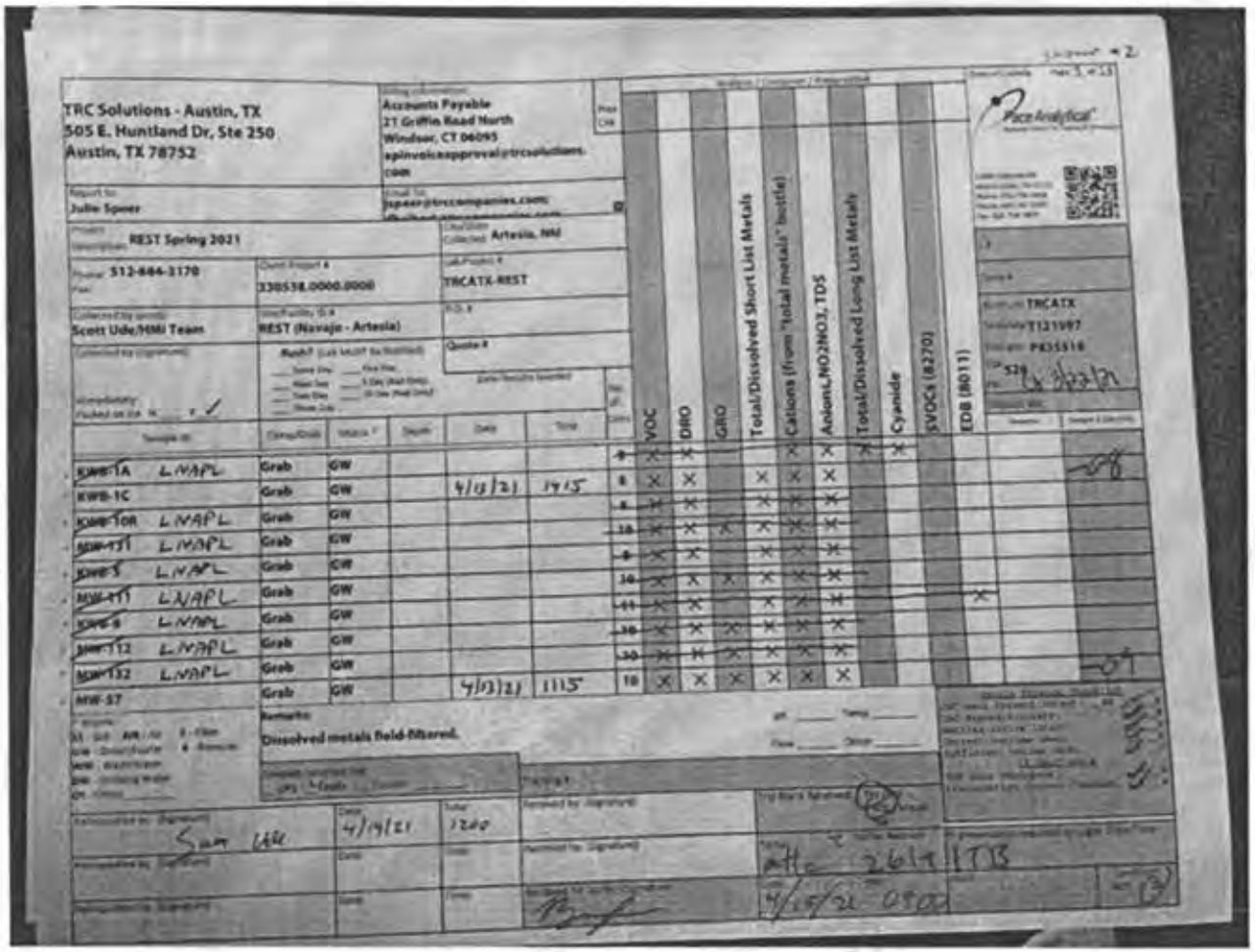
pH _____ Temp _____
Flow _____ Other _____

Sam Ude 4/14/21 1200

atle 2614478 MRA

4/13/21 0900

L1339469



TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Accounts Payable
21 Griffin Road North
Windsor, CT 06095
epinvoiceapproval@trcsolutions.com

Report to: Julie Speer

Project Description: REST Spring 2021

Location Collected: Artesia, NM

Phone: 512-884-3170

Client Project #: 330538.0000.0000

Job Project #: TRCATX-REST

Collected by (print): Scott Ude/NMI Team

Site/Facility ID #: REST (Navajo - Artesia)

P.O. #

Quote #

Rush? (Lab MUST be Notified)

Date Results Needed

No. of Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions, NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	
KWB-1A LNAPL	Grab	GW				8	X	X								
KWB-1C	Grab	GW		4/13/21	1415	8	X	X	X	X	X					
KWB-10R LNAPL	Grab	GW				8	X	X	X	X	X					
MW-131 LNAPL	Grab	GW				18	X	X	X	X	X					
KWB-5 LNAPL	Grab	GW				8	X	X		X	X					
MW-111 LNAPL	Grab	GW				10	X	X	X	X	X					
KWB-8 LNAPL	Grab	GW				11	X	X		X	X				X	
MW-112 LNAPL	Grab	GW				18	X	X	X	X	X	X				
MW-132 LNAPL	Grab	GW				10	X	X	X	X	X	X				
MW-37	Grab	GW		4/13/21	1115	10	X	X	X	X	X	X				

Remarks: Dissolved metals field-filtered.

pH _____ Temp _____

Flow _____ Other _____

Lab Use Only: TRCATX, T121597, PM35510, 529, 4/23/21

Sample Receipt Checklist

Relinquished by (Signature): Sam Ude — Date: 4/19/21 — Time: 1200

Received by (Signature)

Relinquished by (Signature)

Received by (Signature)

Relinquished by (Signature)

Received by (Signature)

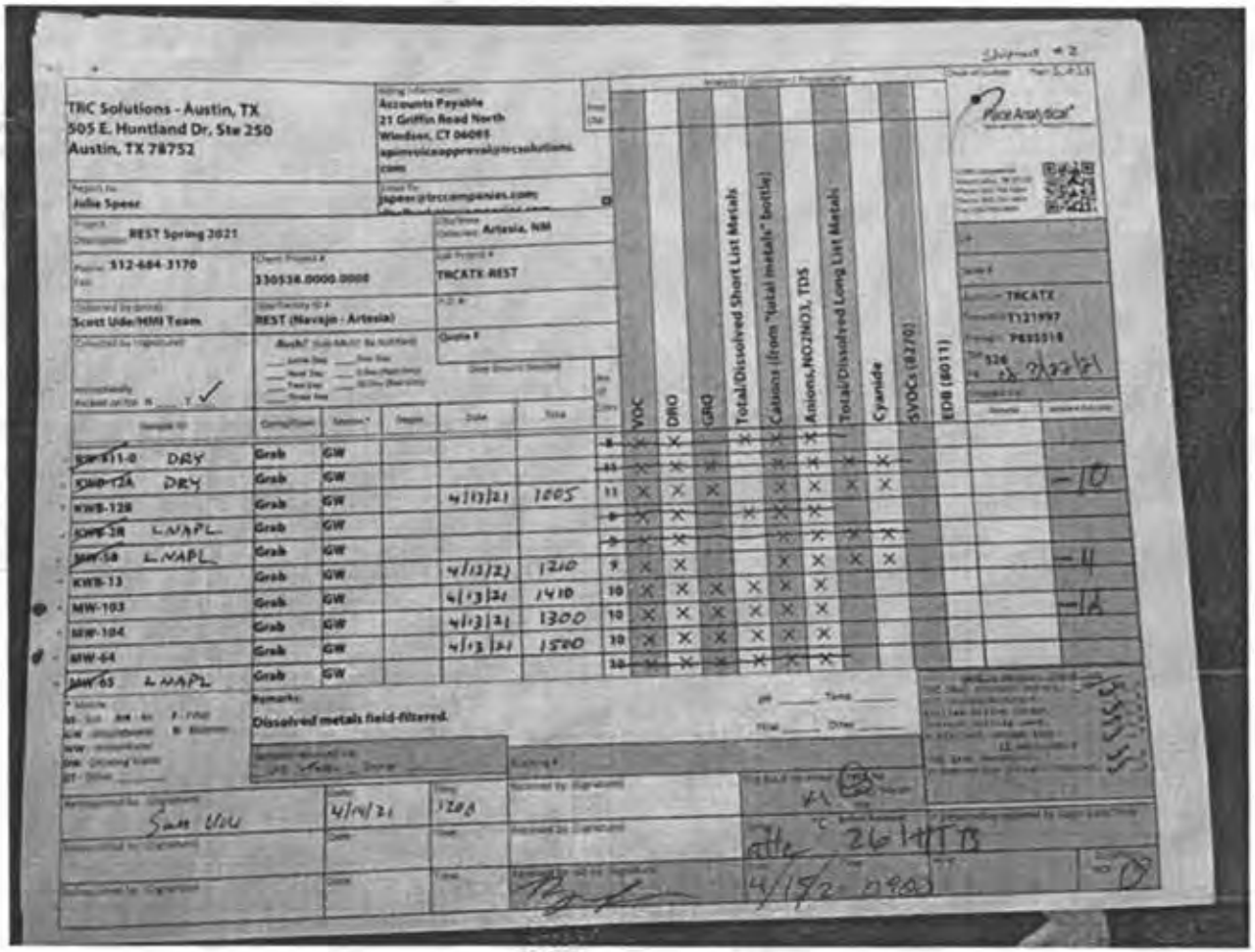
Lab Use Only: Received by (Signature) — Date: 4/19/21 — Time: 0900

Sample Receipt Checklist

Page 1 of 2

Pace Analytical

L1339469



TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Project No: Julie Speer
jspeer@trccompanies.com

Project Description: REST Spring 2021
Collected By (print): Scott Udo/HMI Team
Collected By (signature):
Immediately Packed on Ice: N ___ Y ✓

Phone: 512-684-3170
Client Project #: 330538.0000.0000
Site/Facility ID #: REST (Navajo - Artesia)
Quote #:
Site Collection Info/State: Artesia, NM
Turn Around Time: Rush? (Lab MUST Be Notified) ___ Same Day ___ Five Day ___ Next Day ___ 5 Day (Rad Only) ___ Two Day ___ 10 Day (Rad Only) ___ Three Day
Date Results Needed:
No. of Cntrs:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions, NO2/NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	
~~KWB-11-0~~ DRY	Grab	GW				-8	X	X		X	X	X	X	X		
~~KWB-12A~~ DRY	Grab	GW				-45	X	X	X		X	X	X	X		-10
KWB-12B	Grab	GW		4/13/21	1005	11	X	X	X		X	X	X	X		
~~KWB-2R~~ LNAPL	Grab	GW				-6	X	X		X	X	X				
~~MW-58~~ LNAPL	Grab	GW				-5	X	X		X	X	X				
KWB-13	Grab	GW		4/13/21	1210	9	X	X			X	X	X	X		-4
MW-103	Grab	GW		4/13/21	1410	10	X	X	X	X	X	X				-16
MW-104	Grab	GW		4/13/21	1300	10	X	X	X	X	X	X				
MW-64	Grab	GW		4/13/21	1580	10	X	X	X	X	X	X				
~~MW-65~~ LNAPL	Grab	GW				10	X	X	X	X	X	X				

* Matrix: SS - Soil, AW - Air, WW - Wastewater, DW - Drinking Water, OT - Other, P - Pilot, B - Biowaste

Remarks: Dissolved metals field-filtered.

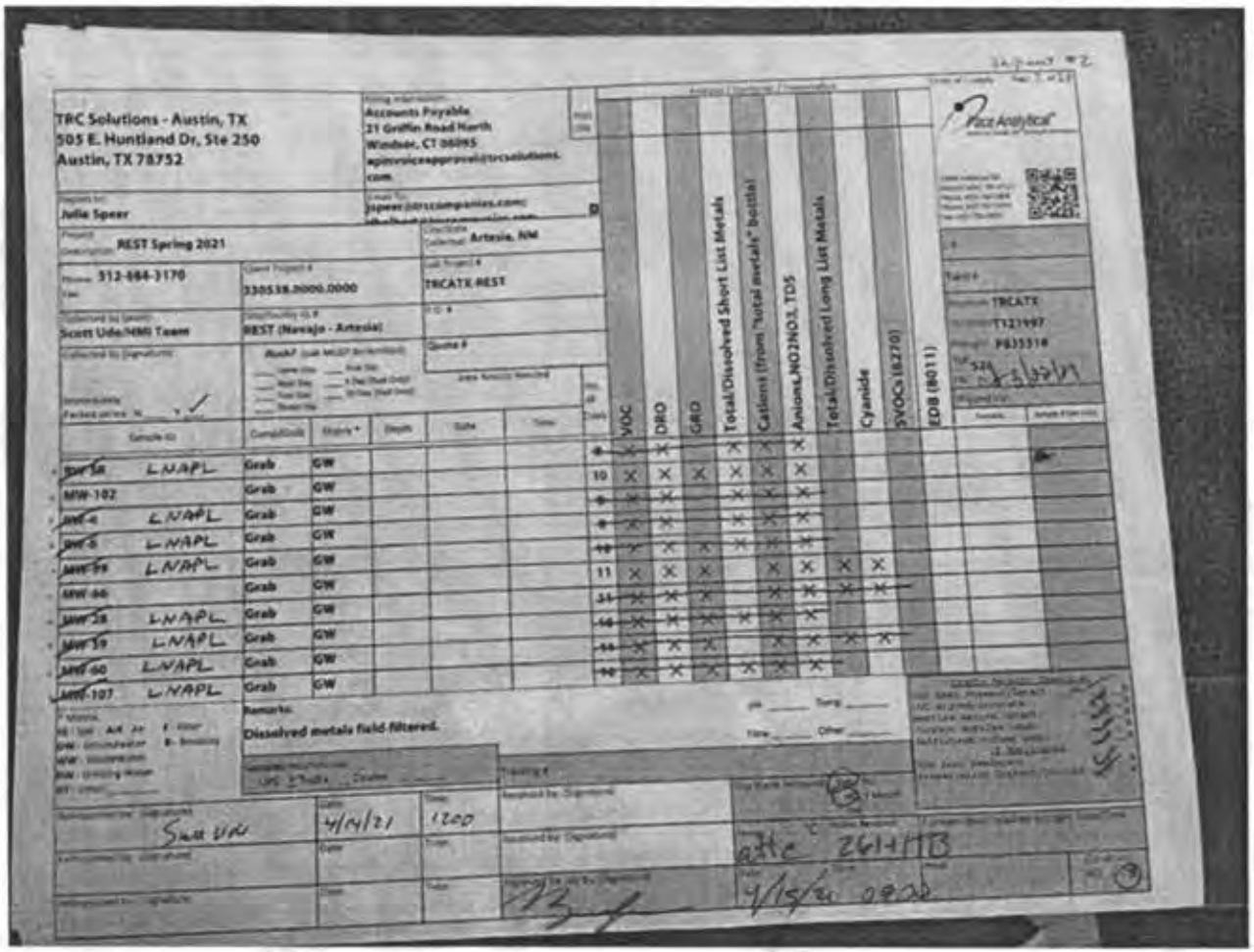
pH ___ Temp ___
Flow ___ Other ___

Sample Receipt Checklist: COC Seal Present/Intact: NP Y N; COC Signed/Accurate: Y N; Bottles Arrive Intact: Y N; Correct Bottles Used: Y N; Sufficient Volume Sent: In Media Bottles: Y N; Field Data Required: Y N; Lab Sample Temperature Info: Thermometer ID: IR-4; Temp Blank Received: Y N; Cooler Temperature: 2.6 1.4 TB; Received on Ice: Y N; Custody Seals Intact on Cooler/Bottles: Y N NP; pH Strips: Y N; Trip Blank Received: Y N NA; Headspace in VOA: Y N NA; Preservation Correct/Checked: Y N NA

Relinquished by (signature): Sam Udo — Date: 4/14/21 — Time: 1208
Received by (signature): — Date: 4/15/21 — Time: 0900

Place Analytical
TRCATX
T121997
P855518
PO#: 326
Due Date: 5/22/21

L1339469



TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

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Julie Speer

REST Spring 2021

Artesia, NM

512-684-3170

330538.0000.0000

TRCATX-REST

Scott Ude/HMI Team

REST (Navajo - Artesia)

Pace Analytical

TRCATX

T121997

PO 33518

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	# of Cont.	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions,NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)
SW-5R LNAPL	Grab	GW					X	X		X	X	X				
MW-102	Grab	GW				10	X	X	X	X	X	X				
MW-4 LNAPL	Grab	GW					X	X		X	X	X				
MW-5 LNAPL	Grab	GW					X	X		X	X	X				
MW-59 LNAPL	Grab	GW				10	X	X	X	X	X	X				
MW-66	Grab	GW				11	X	X	X		X	X	X	X		
MW-28 LNAPL	Grab	GW					X	X	X		X	X				
MW-59 LNAPL	Grab	GW				10	X	X	X	X	X	X	X	X		
MW-60 LNAPL	Grab	GW					X	X	X		X	X				
MW-107 LNAPL	Grab	GW				10	X	X	X	X	X	X				

Remarks:
Dissolved metals field filtered.

pH _____ Temp _____
Flow _____ Other _____

Relinquished by: (Signature) — Date: 4/4/21 — Time: 1200

Received by: (Signature)

Relinquished by: (Signature) — Date: 4/5/21 — Time: 0930

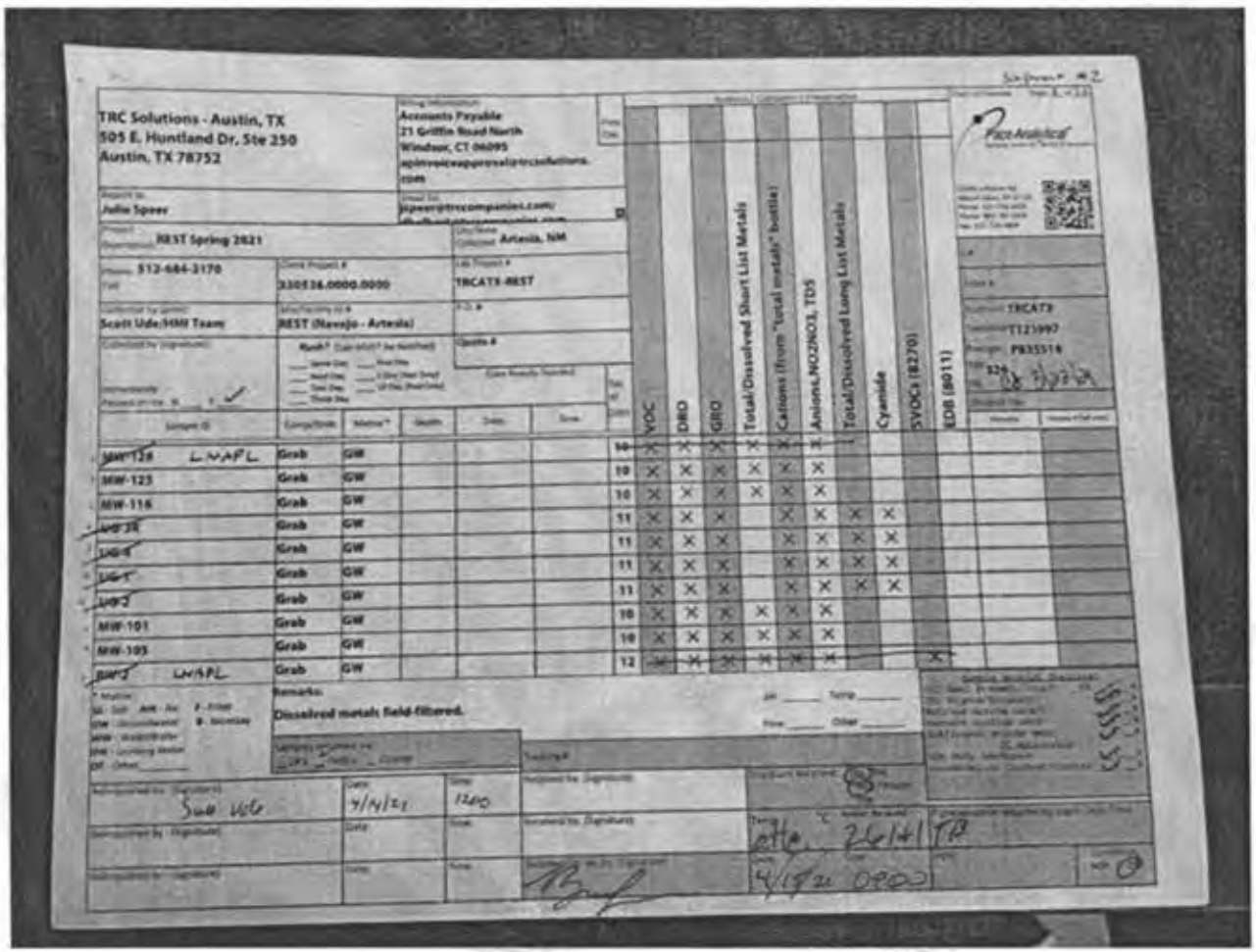
Received by: (Signature)

Relinquished by: (Signature) — Date: — Time:

Received by: (Signature) — Date: 4/5/21 — Time: 0930

attc 2614HB

L1339469



TRC Solutions - Austin, TX
505 E. Huntland Dr. Ste 250
Austin, TX 78752

Accounts Payable
21 Griffin Road North
Windsor, CT 06095

Julie Speer

REST Spring 2021

512-684-3170

330536.0000.0000

Artesia, NM

TRCATX-REST

Scott Ude/HMI Team

REST (Navajo - Artesia)

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	# of Cont.	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions, NO2/NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)
MW-126 LNAPL	Grab	GW				10	X	X	X	X	X	X				
MW-123	Grab	GW				10	X	X	X	X	X	X				
MW-116	Grab	GW				10	X	X	X	X	X	X				
MW-38	Grab	GW				11	X	X	X		X	X	X	X		
MW-4	Grab	GW				11	X	X	X		X	X	X	X		
MW-1	Grab	GW				11	X	X	X		X	X	X	X		
MW-2	Grab	GW				11	X	X	X		X	X	X	X		
MW-101	Grab	GW				10	X	X	X	X	X	X				
MW-105	Grab	GW				10	X	X	X	X	X	X				
MW-3 LNAPL	Grab	GW				12	X	X	X	X	X	X			X	

Remarks:
Dissolved metals field-filtered.

pH _____ Temp _____
Flow _____ Other _____

Sub UG

4/1/21 1200

Relinquished by: (Signature) Date: 4/1/21 Time: 1600

Received by: (Signature)

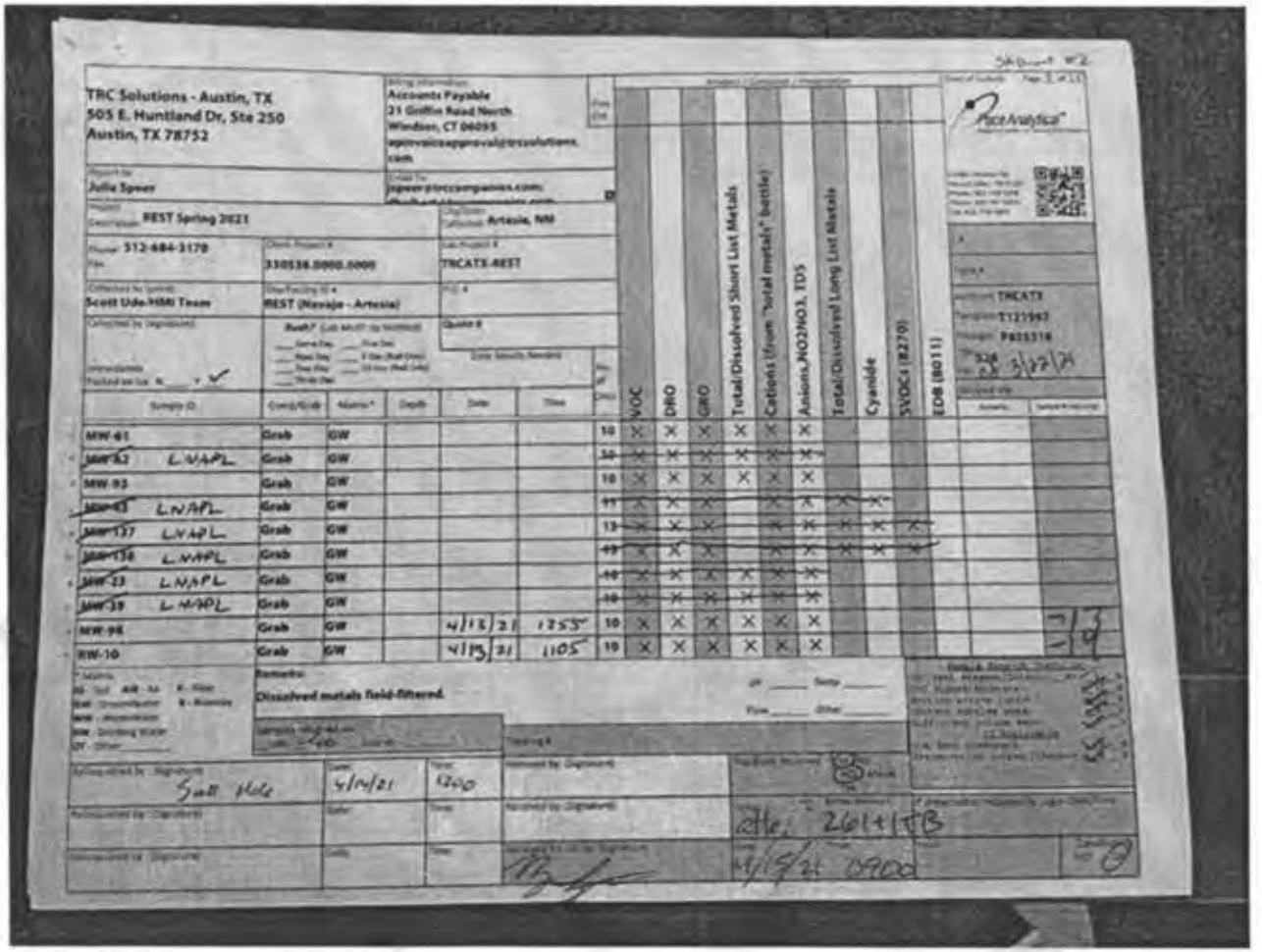
Relinquished by: (Signature) Date: 4/1/21 Time: 0900

Pace Analytical

TRCATX
T123997
PW35514

Released to Imaging: 2/7/2025 11:08:22 AM

L1339469



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505 E. Huntland Dr, Ste 250
Austin, TX 78752

Accounts Payable
21 Griffin Road North
Windsor, CT 06095

Julie Spoor

REST Spring 2021

Artesia, NM

512-684-3170

330536.0000.0000

TRCATX-REST

Scott Udo-HSR Team

REST (Navajo - Artesia)

Quote #

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	# of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions,NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)
MW-61	Grab	GW				10	X	X	X	X	X	X				
MW-62 LNAPL	Grab	GW				10	X	X	X	X	X	X				
MW-93	Grab	GW				10	X	X	X	X	X	X				
MW-63 LNAPL	Grab	GW				11	X	X	X		X	X	X	X	X	
MW-137 LNAPL	Grab	GW				13	X	X	X		X	X	X	X	X	
MW-136 LNAPL	Grab	GW				13	X	X	X		X	X	X	X	X	
MW-23 LNAPL	Grab	GW				10	X	X	X	X	X	X				
MW-39 LNAPL	Grab	GW				10	X	X	X	X	X	X				
MW-98	Grab	GW		4/13/21	1355	10	X	X	X	X	X	X				
RW-10	Grab	GW		4/13/21	1105	10	X	X	X	X	X	X				

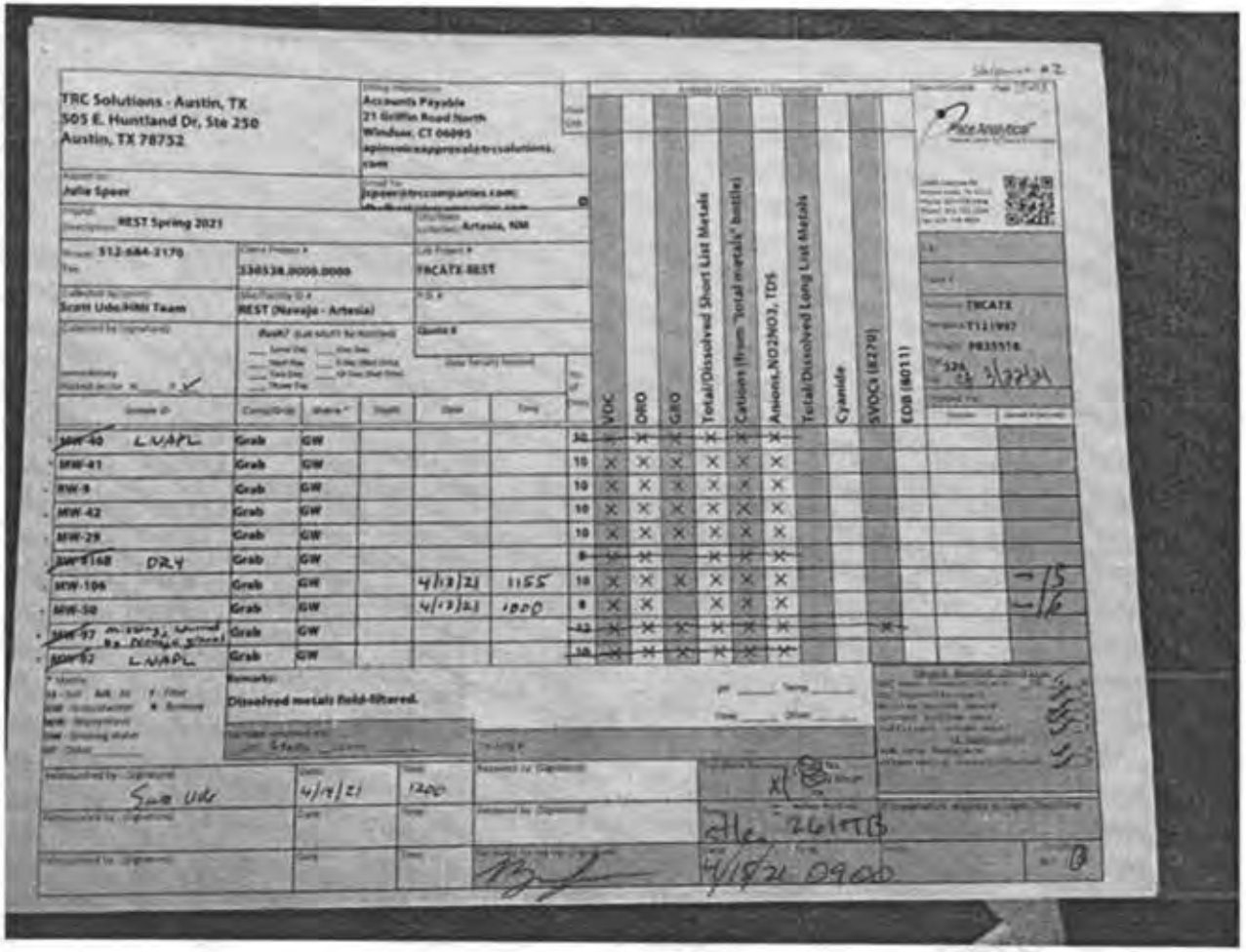
Remarks:
Dissolved metals field-filtered.

PO#: 261+TB

4/14/21 1200

4/14/21 0900

L1339469



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Austin, TX 78752

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Julie Speer
jspeer@trccompanies.com;

REST Spring 2021
Artesia, NM

512.684.2170

330538.0000.0000
TRCATX-REST

Scott Ude/HMI Team
REST (Navajo - Artesia)

Quote #

Sample ID	Comp/Grab	Matrix	Depth	Date	Time	# of Bottles	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions: NO2/NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)
MW-40 LNAPL	Grab	GW				30	-	X	X	X	X	X				
MW-41	Grab	GW				10	X	X	X	X	X	X				
RW-9	Grab	GW				10	X	X	X	X	X	X				
MW-42	Grab	GW				10	X	X	X	X	X	X				
MW-29	Grab	GW				10	X	X	X	X	X	X				
MW-168 DRY	Grab	GW				8	X	X		X	X	X				
MW-106	Grab	GW		4/3/21	1155	10	X	X	X	X	X	X				
MW-30	Grab	GW		4/3/21	1000	8	X	X		X	X	X				
MW-97 no sample, blocked by pump & hose	Grab	GW				42	X	X	X	X	X	X			X	
MW-62 LNAPL	Grab	GW				10	X	X	X	X	X	X				

Remarks:
Dissolved metals field-filtered.

pH ____ Temp ____
Cond. ____ DO ____

Relinquished by: Sam Ude — Date: 4/4/21 — Time: 1200
Received by: 261TB — Date: 4/8/21 — Time: 0900

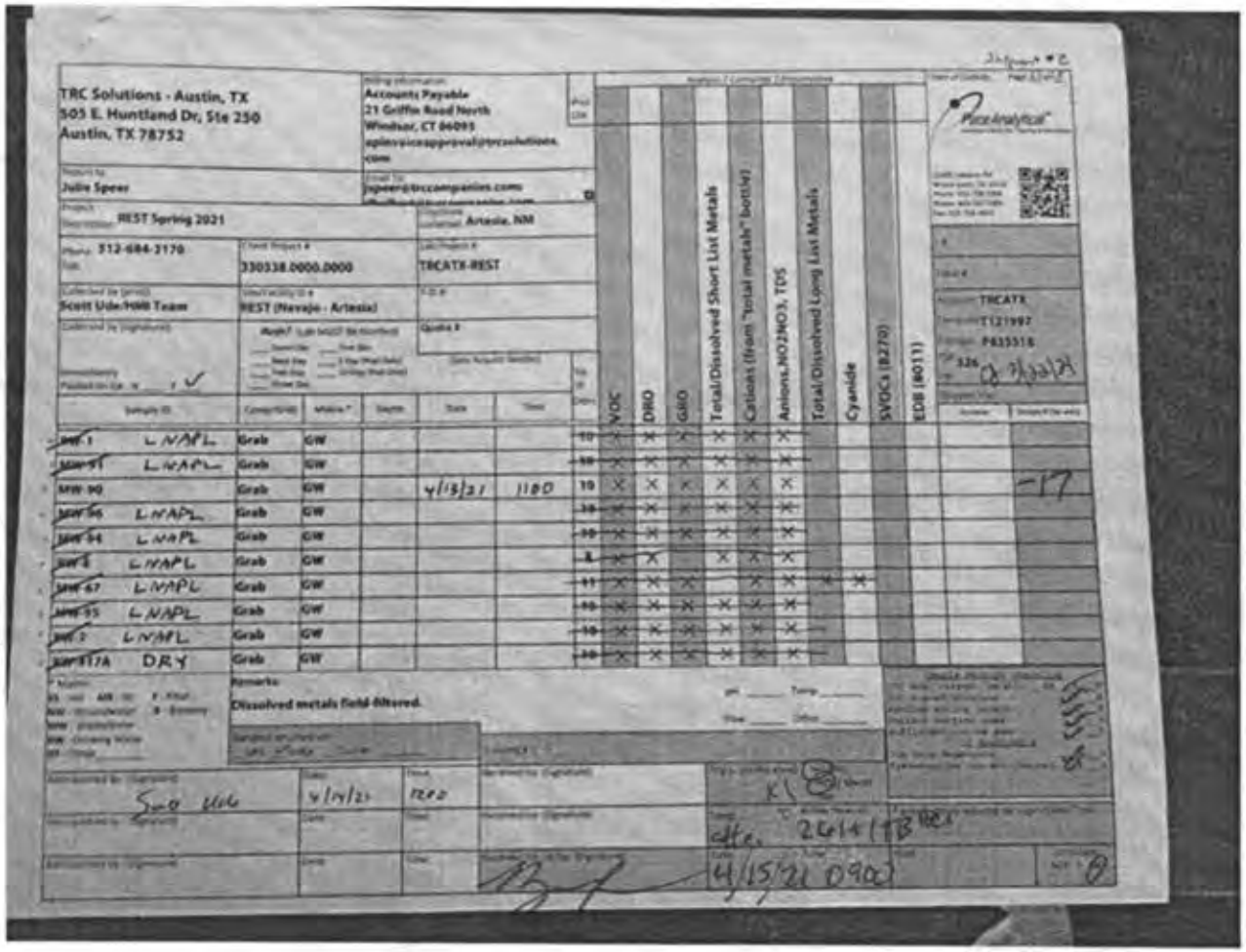
PACE ANALYTICAL
TRCATX
T121997
P035516
326 3/22/21

Thanks,

Scott C. Ude, P.G.
Hydrologic Monitoring
1654 W. Sam Houston Pkwy N.
Houston, TX 77043

Direct 713.714.1624
Cell 832.347.4521
Email ude@HMIgroundwater.com

L1339469



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Julie Speer

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REST Spring 2021

Artesia, NM

512-684-2170

330338.0000.0000

TRCATX-REST

Scott Ude/HMB Team

REST (Navajo - Artesia)

Quote #

Pace Analytical

TRCATX
T121997
P835516
326

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	# of Cont.	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions, NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)
~~MW-1~~ LNAPL	Grab	GW				10	X	X	X	X	X	X				
~~MW-91~~ LNAPL	Grab	GW				10	X	X	X	X	X	X				
MW-90	Grab	GW		4/13/21	1180	10	X	X	X	X	X	X				
~~MW-96~~ LNAPL	Grab	GW				10	X	X	X	X	X	X				
~~MW-94~~ LNAPL	Grab	GW				10	X	X	X	X	X	X				
~~MW-6~~ LNAPL	Grab	GW				8	X	X		X	X	X				
~~MW-97~~ LNAPL	Grab	GW				11	X	X	X		X	X	X	X		
~~MW-95~~ LNAPL	Grab	GW				10	X	X	X	X	X	X				
~~MW-3~~ LNAPL	Grab	GW				10	X	X	X	X	X	X				
~~MW-117A~~ DRY	Grab	GW				10	X	X	X	X	X	X				

Remarks:
Dissolved metals field filtered.

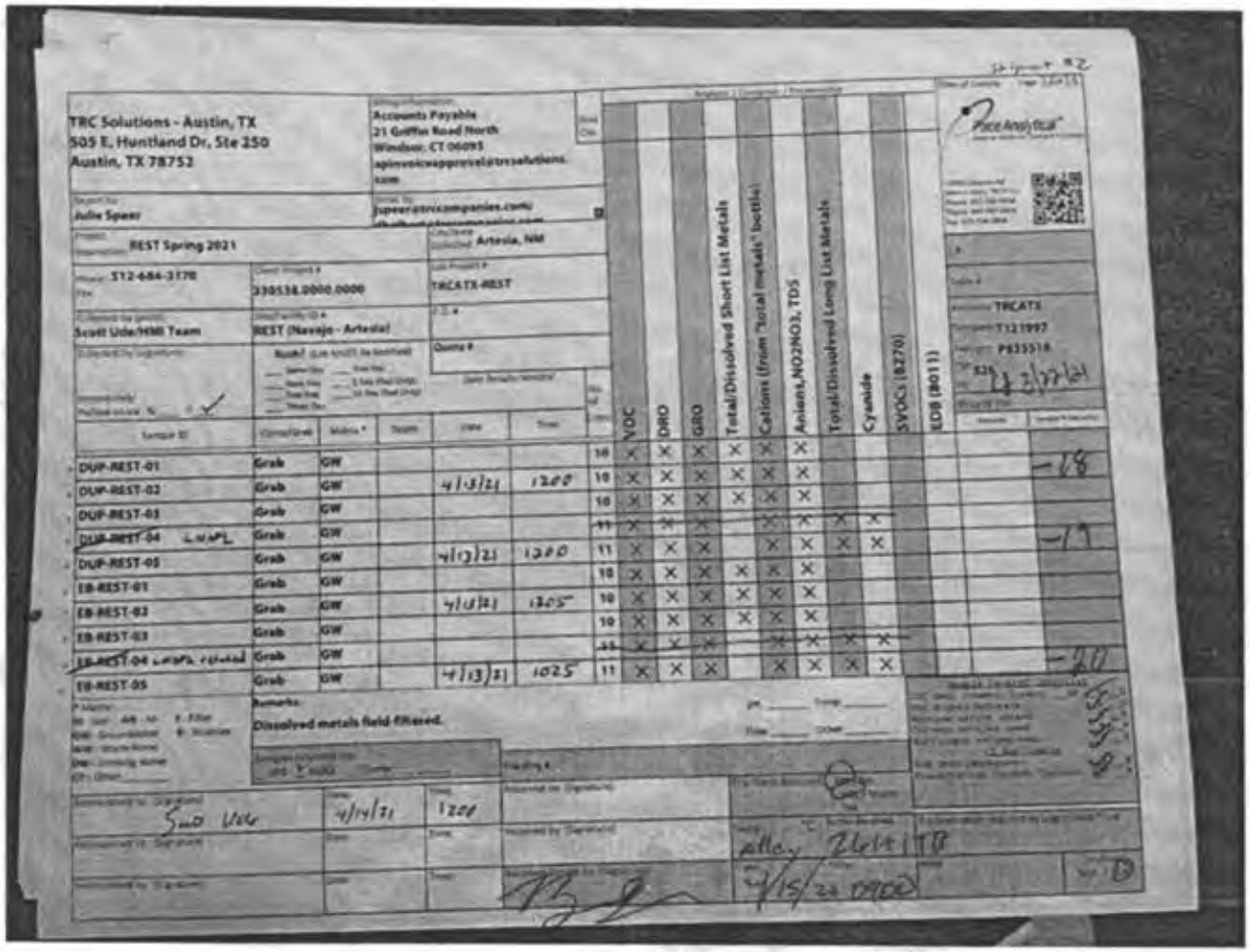
pH _____ Temp _____
Flow _____ Other _____

Sco Ude 4/14/21 1100

4/15/21 0900

Pages 11-20

L1339469



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Julie Speer

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REST Spring 2021

Artesia, NM

512-684-3178

330538.0000.0000

TRCATX-REST

Scott Ude/HMI Team

REST (Navajo - Artesia)

Rush? (Lab MUST be notified)

Quote #

Sample ID	Container	Matrix *	Depth	Date	Time		VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions, NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	
DUP-REST-01	Grab	GW				10	X	X	X	X	X	X					
DUP-REST-02	Grab	GW		4/13/21	1200	10	X	X	X	X	X	X					-18
DUP-REST-03	Grab	GW				10	X	X	X	X	X	X					
~~DUP-REST-04~~ LNAPL	Grab	GW				11	X	X	X		X	X	X	X			
DUP-REST-05	Grab	GW		4/13/21	1200	11	X	X	X		X	X	X	X			-19
EB-REST-01	Grab	GW				10	X	X	X	X	X	X					
EB-REST-02	Grab	GW		4/13/21	1205	10	X	X	X	X	X	X					
EB-REST-03	Grab	GW				10	X	X	X	X	X	X					
~~EB-REST-04~~ LNAPL removed	Grab	GW				11	X	X	X		X	X	X	X			
EB-REST-05	Grab	GW		4/13/21	1025	11	X	X	X		X	X	X	X			-20

Remarks:
Dissolved metals field filtered.

pH _____ Temp _____
Flow _____ Other _____

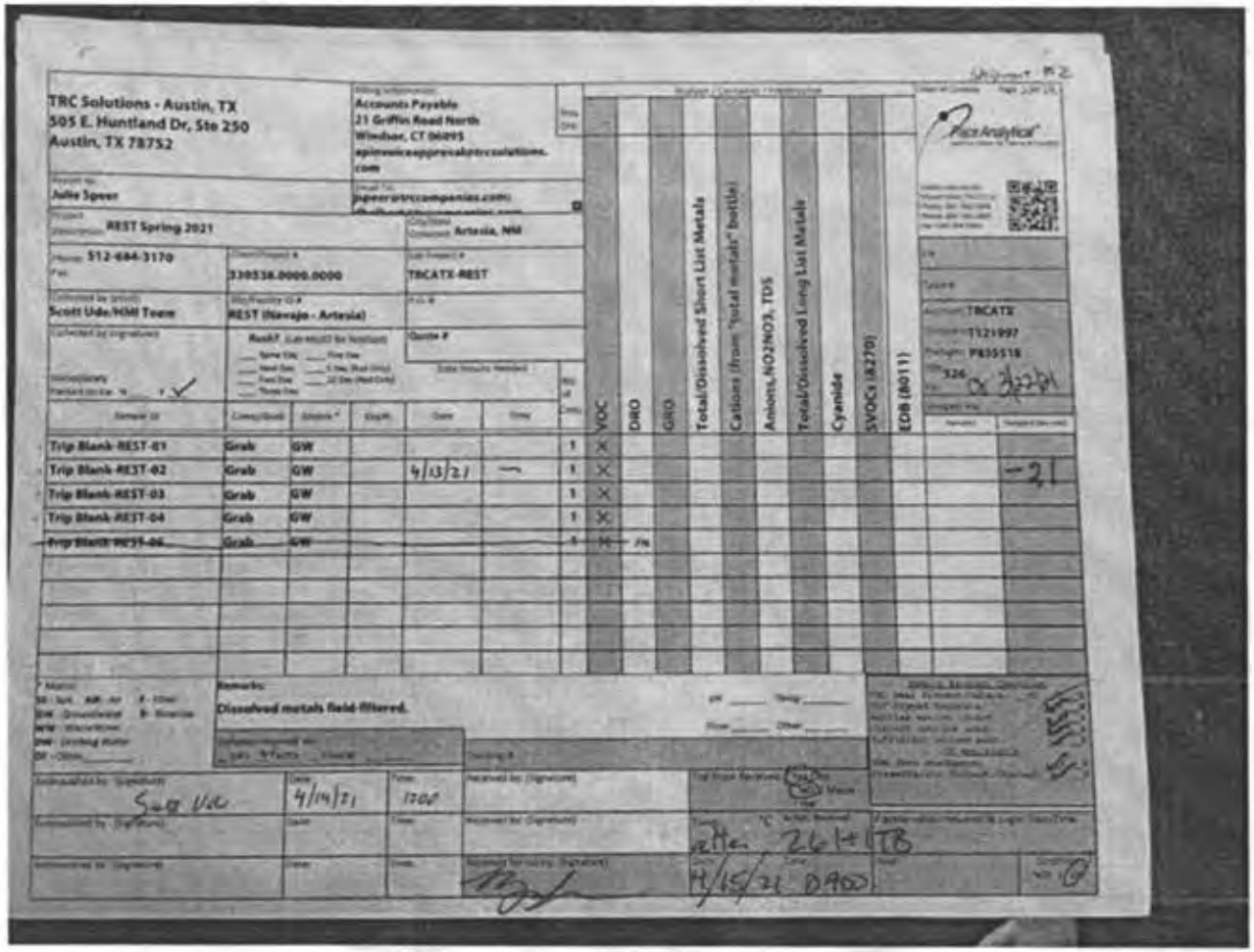
Sub VOC | 4/14/21 | 1200

Pace Analytical

TRCATX
T121997
P835518

4/15/21 0900

L1339469



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Austin, TX 78752

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Julie Speer

jspeer@trccompanies.com

REST Spring 2021

Artesia, NM

512-684-3170

339538.0000.0000

TRCATX-REST

Scott Ude/HMI Team

REST (Navajo - Artesia)

Quote #

Sample ID	Comp/Grab	Matrix	Depth	Date	Time	# of Cont.	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions, NO2/NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)
Trip Blank-REST-01	Grab	GW				1	X									
Trip Blank-REST-02	Grab	GW		4/13/21	—	1	X									
Trip Blank-REST-03	Grab	GW				1	X									
Trip Blank-REST-04	Grab	GW				1	X									
~~Trip Blank-REST-05~~	Grab	GW				~~1~~	~~X~~	~~Pb~~								

Pace Analytical

TRCATX
T121997
PB55518
326

-21

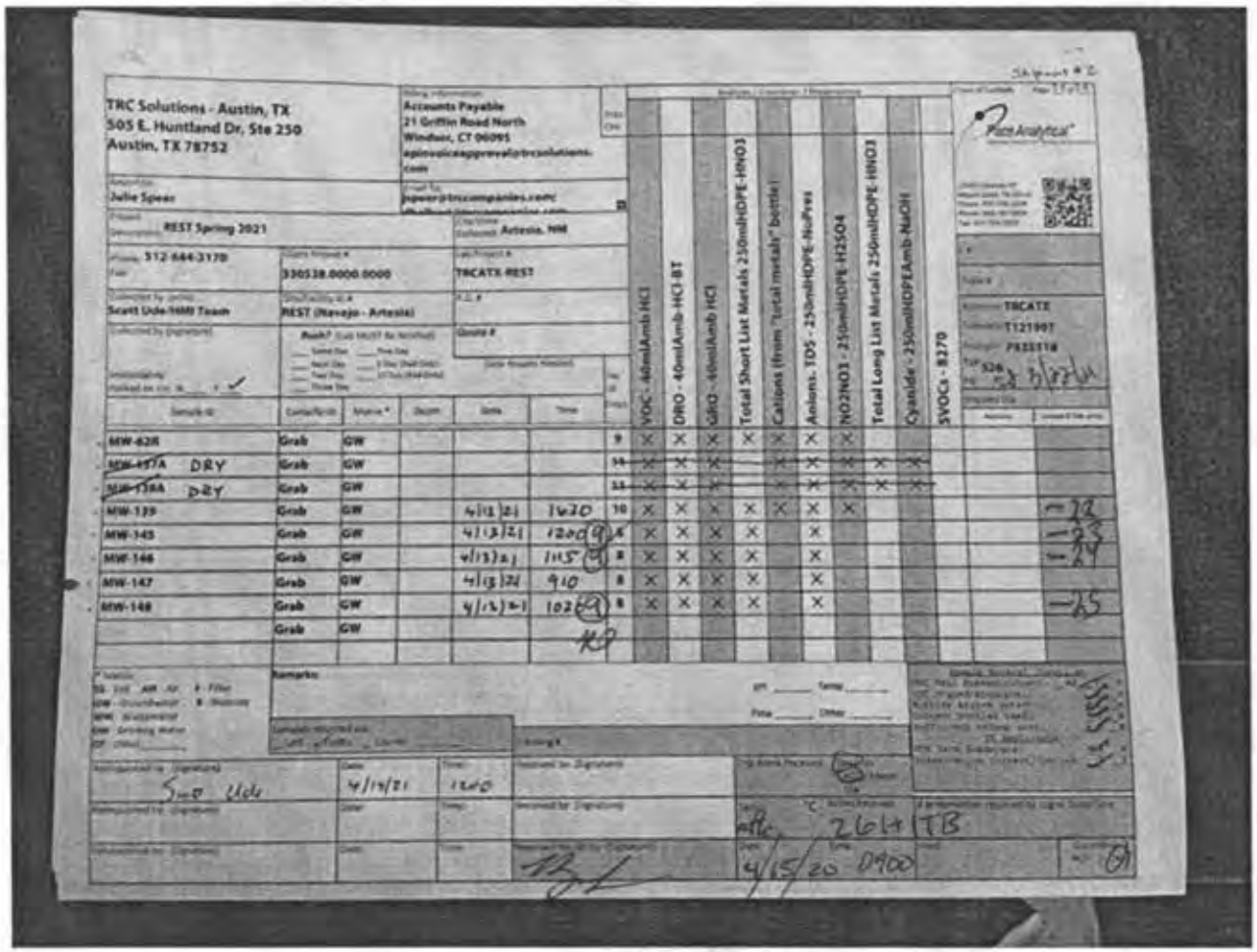
Remarks:
Dissolved metals field-filtered.

pH _____ Temp _____
Flow _____ Other _____

Relinquished by: (Signature) — Date: 4/14/21 — Time: 1700
Received by: (Signature)

Temp °C: 2.6 +1 TB
Received by: (Signature) — Date: 4/15/21 — Time: 0900

L1339469



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Julie Speer

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REST Spring 2021

Artesia, NM

512-644-3170

330538.0000.0000

TRCATX-REST

Scott Ude-1680 Team

REST (Navajo - Artesia)

Rush? (Lab MUST Be Notified)

Sample ID	Container(s)	Matrix*	Depth	Date	Time	# of Cont.	VOC's - 40mlAmb HCl	DRO - 40mlAmb-HCl-BT	GRO - 40mlAmb HCl	Total Short List Metals 250mlHDPE-HNO3	Cations (from "total metals" bottle)	Anions, TDS - 250mlHDPE-NoPres	NO2NO3 - 250mlHDPE-H2SO4	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	SVOCs - 8270		
MW-62R	Grab	GW				9	X	X	X	X	X	X	X					
~~MW-97A~~ DRY	Grab	GW				~~9~~	X	X	X		X	X	X	X	X			
~~MW-138A~~ DRY	Grab	GW				~~9~~	X	X	X		X	X	X	X	X			
MW-139	Grab	GW		4/13/21	1620	10	X	X	X	X	X	X	X					-23
MW-145	Grab	GW		4/13/21	1200	8	X	X	X	X		X						-24
MW-146	Grab	GW		4/13/21	1115	8	X	X	X	X		X						-25
MW-147	Grab	GW		4/13/21	910	8	X	X	X	X		X						
MW-148	Grab	GW		4/12/21	1026	8	X	X	X	X		X						
	Grab	GW																

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Relinquished by (Signature): Scott Ude | Date: 4/14/21 | Time: 1240 | Received by (Signature):

Relinquished by (Signature): | Date: | Time: | Received by (Signature):

Relinquished by (Signature): | Date: | Time: | Received by (Signature):

Pace Analytical

TRCATX
T121907
PB25518

pH 2 6+ TB

4/15/20 0900

01

5

Page 539 of 1716

L1339469

FedEx Tracking #:	Corresponding Temp:
9517 5771 3003	1.8 + .3 = 2.1 A2 OT
5770 9283	2.5 + .3 = 2.1 A2 OT
5771 3172	2.6 ± 0 = 2.6 A7 KH
2990	1.9 ± 0 = 1.9
5016 1220 5832	2.1 ± 0 = 2.1
9517 5771 3183	1.8 + .3 = 2.1 A2 OT
5770 9261	2.1 ± 0 = 2.1 A7 KH
5016 1217 2080	1.1 + .3 = 1.4 A2 OT
1220 5843	1.8 + .3 = 2.1
9517 5770 9309	2.1 ± 0 = 2.1 A7 KH
5016 1220 5854	1.1 + .3 = 1.4 A2 OT
9517 5770 9272	0.5 ± 0 = 0.5 A7 KH
5771 3117	1.8 ± 0 = 1.8
016 1217 2090	0.3 + .3 = 0.6 A2 OT
159 8784 8000	1.5 ± 0 = 1.5 A7 KH

Received by OCD: 1/9/2025 2:41:44 PM

Released to Imaging: 2/7/2025 11:08:22 AM

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Austin, TX 78752

Billing information:
Accounts Payable
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apinvoiceapproval@trcsolutions.com

Pres Chk

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com; dholbert@trccompanies.com**

Project Description: **REST Spring 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **330538.0000.0000**

Lab Project # **TRCATX-REST**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **REST (Navajo - Artesia)**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page 1 of 14

Pace Analytical® National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L1339469

J074

Acctnum: **TRCATX**
Template: **T121997**
Prelogin: **P835518**
TSR: **526**
PB: **UB 3/23/21**

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions,NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Remarks	Sample # (lab only)
~~RW-15C~~ LNAPL	Grab	GW				~~8~~	X	X		X	X	X						
~~MW-48~~ Well destroyed	Grab	GW				~~10~~	X	X	X	X	X	X						
MW-130	Grab	GW				10	X	X	X	X	X	X						
~~KWB-4~~ LNAPL	Grab	GW				~~8~~	X	X		X	X	X						
~~RW-19~~ LNAPL	Grab	GW				~~8~~	X	X		X	X	X						
KWB-P4	Grab	GW				4	X	X										
MW-52	Grab	GW				11	X	X	X		X	X	X	X				
MW-109	Grab	GW				10	X	X	X	X	X	X						
MW-110	Grab	GW				10	X	X	X	X	X	X						
~~RW-12R~~ LNAPL	Grab	GW		~~4/13/21~~		~~8~~	X	X		X	X	X						

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:
Dissolved metals field-filtered.

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier

Tracking # 9517 5771 0508 / 2989

* temps for coolers received 4/16: 0.5 / 0.5

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y N
COC Signed/Accurate:		Y N
Bottles arrive intact:		Y N
Correct bottles used:		Y N
Sufficient volume sent:		Y N
If Applicable		
VOA Zero Headspace:		Y N
Preservation Correct/Checked:		Y N

	Date:	Time:		
Relinquished by: (Signature) Scott Ude	4/14/21	1200	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 1.3 °C Bottles Received: 8+3=0.5
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4/15/21 Time: 0930

If preservation required by Login: Date/Time

Hold: Condition: NCF / OK

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Austin, TX 78752

Billing Information:
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apinvoiceapproval@trcsolutions.com

Pres Chk

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com; dhelbert@trccompanies.com**

Project Description: **REST Spring 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **330538.0000.0000**

Lab Project # **TRCATX-REST**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **REST (Navajo - Artesia)**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page 2 of 14

Pace Analytical*
National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L1339469

Table #

Acctnum: TRCATX
Template: T121997
Prelogin: P835518
TSR: 526
PB: CB 3/22/21

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions,NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Remarks	Sample # (lab only)
MW-113	Grab	GW				10	X	X	X	X	X	X						
~~KWB-8~~ LNAPL	Grab	GW				~~9~~	X	X			X	X	X	X				
~~RW-22~~ LNAPL	Grab	GW				~~8~~	X	X		X	X	X						
~~RW-20A~~ DRY	Grab	GW				~~8~~	X	X		X	X	X						
~~RW-20B~~ DRY	Grab	GW				~~8~~	X	X		X	X	X						
~~RW-13R~~ LNAPL	Grab	GW				~~8~~	X	X		X	X	X						
~~RW-14R~~ LNAPL	Grab	GW				~~8~~	X	X		X	X	X						
~~MW-133~~ LNAPL	Grab	GW				~~10~~	X	X	X	X	X	X						
MW-134	Grab	GW				10	X	X	X	X	X	X						
RA-4798	Grab	GW				5	X				X	X						

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:
Dissolved metals field-filtered.

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP ✓ N
COC Signed/Accurate: ✓ N
Bottles Arrive Intact: ✓ N
Correct bottles used: ✓ N
Sufficient volume sent: ✓ N
If Applicable
VOA Zero Headspace: ✓ N
Preservation Correct/Checked: ✓ N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Scott Ude	4/14/21	1200		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4.3 °C Bottles Received: 0273=0.5
				If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4/15/21 Time: 0900 Hold: Condition: NCF / OK

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
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apinvoiceapproval@trcsolutions.com

Pres Chk

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com; dhelbert@trccompanies.com**

Project Description: **REST Spring 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **330538.0000.0000**

Lab Project # **TRCATX-REST**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **REST (Navajo - Artesia)**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Chain of Custody Page 3 of 14

Pace Analytical*
National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L1339469

Table #

Acctnum: TRCATX

Template: T121997

Prelogin: P835518

TSR: 526

PB: 3/22/21

Shipped Via:

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions,NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Remarks	Sample # (lab only)
RA-4196	Grab	GW				5	X				X	X						
RA-3156	Grab	GW				5	X				X	X						
RA-313	Grab	GW				5	X				X	X						
KWB-7	Grab	GW				9	X	X			X	X	X	X				
MW-135	Grab	GW		4/13/21	1635	10	X	X	X	X	X	X						-01
~~KWB-11A~~ LNAPL	Grab	GW				~~11~~	~~X~~	~~X~~	~~X~~		~~X~~	~~X~~	~~X~~	~~X~~				
KWB-11B	Grab	GW		4/13/21	1010	11	X	X	X		X	X	X	X				-26
MW-115	Grab	GW				10	X	X	X	X	X	X						
MW-114	Grab	GW				10	X	X	X	X	X	X						

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:
Dissolved metals field-filtered.

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: ___NP ✓ ___N
COC Signed/Accurate: ✓ ___N
Bottles arrive intact: ✓ ___N
Correct bottles used: ✓ ___N
Sufficient Volume sent: ✓ ___N
If Applicable
VOA Zero Headspace: ✓ ___N
Preservation Correct/Checked: ✓ ___N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Scott Ude	4/14/21	1200		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4.2+3=7.2 °C Bottles Received: 0
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4/15/21 Time: 0930

If preservation required by Login: Date/Time

Hold: Condition: NCF / OK

Ship

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Pres Chk

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com; dhelbert@trccompanies.com**

Project Description: **REST Spring 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **330538.0000.0000**

Lab Project # **TRCATX-REST**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **REST (Navajo - Artesia)**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Chain of Custody Page 4 of 14

Pace Analytical® National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L1339469

Table #

Acctnum: **TRCATX**
Template: **T121997**
Prelogin: **P835518**
TSR: **526**
PB: DK 3/22/21

Shipped Via:

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions,NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Remarks	Sample # (lab only)
MW-117	Grab	GW		4/13/21	1405	10	X	X	X	X	X	X						-02
MW-118	Grab	GW		4/13/21	1320	10	X	X	X	X	X	X						-03
MW-119	Grab	GW		4/13/21	1230	10	X	X	X	X	X	X						-04
NP-5	Grab	GW		4/13/21	1005	8	X	X		X	X	X						-05
MW-136	Grab	GW		4/13/21	1100	11	X	X	X		X	X	X	X				-06
~~MW-126A~~ LNAPL	Grab	GW				~~10~~	X	X	X	X	X	X						
MW-126B	Grab	GW		4/13/21	905	10	X	X	X	X	X	X						-07
~~MW-127~~ LNAPL	Grab	GW				~~10~~	X	X	X	X	X	X						
~~MW-129~~ LNAPL	Grab	GW				~~10~~	X	X	X	X	X	X						
~~RW-#18A~~ DRY	Grab	GW				~~6~~	X			X	X	X						

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:
Dissolved metals field-filtered.

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP ✓Y __N
COC Signed/Accurate: ✓Y __N
Bottles Arrive Intact: ✓Y __N
Correct Bottles Used: ✓Y __N
Sufficient Volume Sent: ✓Y __N
If Applicable
VOA Zero Headspace: ✓Y __N
Preservation Correct/Checked: ✓Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TSR
Scott Ude	4/14/21	1200		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 18.2°C Bottles Received: 9243=0.5
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4/15/21 Time: 0930

If preservation required by Login: Date/Time

Hold: Condition: NCF / OK

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Pres Chk

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com; dbalbert@trccompanies.com**

Project Description: **REST Spring 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **330538.0000.0000**

Lab Project # **TRCATX-REST**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **REST (Navajo - Artesia)**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page 5 of 14

Pace Analytical®
National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# LI339465

Table #

Acctnum: TRCATX
Template: T121997
Prelogin: P835518
TSR: 526
PB: CK 3/22/21

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions,NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Remarks	Sample # (lab only)
~~KWB-1A~~ LNAPL	Grab	GW				~~9~~	X	X			X	X	X	X				
KWB-1C	Grab	GW		4/13/21	1415	8	X	X		X	X	X						-08
~~KWB-10R~~ LNAPL	Grab	GW				~~8~~	X	X		X	X	X						
~~MW-131~~ LNAPL	Grab	GW				~~10~~	X	X	X	X	X	X						
~~KWB-5~~ LNAPL	Grab	GW				~~8~~	X	X		X	X	X						
~~MW-111~~ LNAPL	Grab	GW				~~10~~	X	X	X	X	X	X						
~~KWB-6~~ LNAPL	Grab	GW				~~11~~	X	X		X	X	X				X		
~~MW-112~~ LNAPL	Grab	GW				~~10~~	X	X	X	X	X	X						
~~MW-132~~ LNAPL	Grab	GW				~~10~~	X	X	X	X	X	X						
MW-57	Grab	GW		4/13/21	1115	10	X	X	X	X	X	X						-09

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:
Dissolved metals field-filtered.

pH _____ Temp _____
Flow _____ Other _____

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/14/21	1200	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: Yes / No
HCL / MeoH
TBR

Temp 13 °C Bottles Received:
0213°05

Date: 4/15/21 Time: 0900

If preservation required by Login: Date/Time

Hold: 4/14

Condition: NCF / OK

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Pres Chk

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com; dbelbert@trccompanies.com**

Project Description: **REST Spring 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **330538.0000.0000**

Lab Project # **TRCATX-REST**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **REST (Navajo - Artesia)**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page 6 of 14

Pace Analytical*
National Center for Testing & Innovation

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Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

LH L1339465

Table #

Acctnum: TRCATX
Template: T121997
Prelogin: P835518
TSR: 526
PB: cs 3/22/21

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions,NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Remarks	Sample # (lab only)
~~RW-#11-0~~ DRY	Grab	GW				~~8~~	X	X		X	X	X						
~~KWB-12A~~ DRY	Grab	GW				~~11~~	X	X	X		X	X	X	X				
KWB-12B	Grab	GW		4/13/21	1005	11	X	X	X		X	X	X	X				-10
~~KWB-2R~~ LNAPL	Grab	GW				~~8~~	X	X		X	X	X						
~~MW-58~~ LNAPL	Grab	GW				~~9~~	X	X			X	X	X	X				
KWB-13	Grab	GW		4/13/21	1210	9	X	X			X	X	X	X				-11
MW-103	Grab	GW		4/13/21	1410	10	X	X	X	X	X	X						-22
MW-104	Grab	GW		4/13/21	1300	10	X	X	X	X	X	X						-13
MW-64	Grab	GW		4/13/21	1500	10	X	X	X	X	X	X						-28
~~MW-65~~ LNAPL	Grab	GW				~~10~~	X	X	X	X	X	X						

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:
Dissolved metals field-filtered.

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP ✓Y __N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: ✓Y __N
Correct bottles used: ✓Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: ✓Y __N
Preservation Correct/Checked: ✓Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Scott Ude	4/14/21	1200		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 1.3 °C Bottles Received: 0,2,1,3,2,0,9,5
				If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4/15/21 Time: 0930 Hold: 4/16
				Condition: NCF / OK

Shipment 2

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com; dhelbert@trccompanies.com**

Project Description: **REST Spring 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **330538.0000.0000**

Lab Project # **TRCATX-REST**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **REST (Navajo - Artesia)**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page 7 of 14

Pace Analytical® National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

Lab # L1339469

Table #

Acctnum: TRCATX

Template: T121997

Prelogin: P835518

TSR: 526

PB: cb 3/22/21

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions,NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Remarks	Sample # (lab only)
~~RW-5R~~ LNAPL	Grab	GW				~~8~~	X	X		X	X	X						
MW-102	Grab	GW				10	X	X	X	X	X	X						
~~RW-4~~ LNAPL	Grab	GW				~~8~~	X	X		X	X	X						
~~RW-6~~ LNAPL	Grab	GW				~~8~~	X	X		X	X	X						
~~MW-99~~ LNAPL	Grab	GW				~~10~~	X	X	X	X	X	X						
MW-66	Grab	GW				11	X	X	X		X	X	X	X				
~~MW-28~~ LNAPL	Grab	GW				~~11~~	X	X	X		X	X	X	X				
~~MW-59~~ LNAPL	Grab	GW				~~10~~	X	X	X	X	X	X						
~~MW-60~~ LNAPL	Grab	GW				~~11~~	X	X	X		X	X	X	X				
~~MW-107~~ LNAPL	Grab	GW				~~10~~	X	X	X	X	X	X						

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:
Dissolved metals field-filtered.

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP ✓Y __N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: ✓Y __N
Correct bottles used: ✓Y __N
Sufficient volume sent: ✓Y __N
If Applicable
VOA Zero Headspace: ✓Y __N
Preservation Correct/Checked: ✓Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/14/21	1200	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: Yes / No
HCL / MeoH
TBR

Temp 1.5 °C Bottles Received:
0.2+.3=1.5

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Date: 4/15/21 Time: 0900

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Pres Chk

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com; dholbert@trccompanies.com**

Project Description: **REST Spring 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **330538.0000.0000**

Lab Project # **TRCATX-REST**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **REST (Navajo - Artesia)**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page 8 of 14

Pace Analytical® National Center for Testing & Innovation

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Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L1339469

Table #

Acctnum: **TRCATX**

Template: **T121997**

Prelogin: **P835518**

TSR: **526**

PB: CB 3/22/21

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions,NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Remarks	Sample # (lab only)
~~MW-128~~ LNAPL	Grab	GW				~~10~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~						
MW-125	Grab	GW				10	X	X	X	X	X	X						
MW-116	Grab	GW				10	X	X	X	X	X	X						
~~UG-3R~~	Grab	GW				11	X	X	X		X	X	X	X				
~~UG-4~~	Grab	GW				11	X	X	X		X	X	X	X				
~~UG-1~~	Grab	GW				11	X	X	X		X	X	X	X				
~~UG-2~~	Grab	GW				11	X	X	X		X	X	X	X				
MW-101	Grab	GW				10	X	X	X	X	X	X						
MW-105	Grab	GW				10	X	X	X	X	X	X						
~~BW-2~~ LNAPL	Grab	GW				12	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~			X			

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:
Dissolved metals field-filtered.

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP ✓ __N
COC Signed/Accurate: ✓ __N
Bottles Arrive Intact: ✓ __N
Correct bottles used: ✓ __N
Sufficient volume sent: ✓ __N
If Applicable
VOA Zero Headspace: ✓ __N
Preservation Correct/Checked: ✓ __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
Scott Ude	4/14/21	1200			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4.2°C Bottles Received: 2+3=5	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4/15/21 Time: 0930	Hold: Condition: NCF / OK

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Pres Chk.

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com; dholbert@trccompanies.com**

Project Description: **REST Spring 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **330538.0000.0000**

Lab Project # **TRCATX-REST**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **REST (Navajo - Artesia)**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ____ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page 9 of 14

Pace Analytical®
National Center for Testing & Innovation

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Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L1339469

Table #

Acctnum: TRCATX
Template: T121997
Prelogin: P835518
TSR: 526
PB: CS 3/22/21

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions,NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Remarks	Sample # (lab only)
MW-61	Grab	GW				10	X	X	X	X	X	X						
~~MW-62~~ LNAPL	Grab	GW				~~10~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~						
MW-93	Grab	GW				10	X	X	X	X	X	X						
~~MW-43~~ LNAPL	Grab	GW				~~11~~	~~X~~	~~X~~	~~X~~		~~X~~	~~X~~	~~X~~	~~X~~				
~~MW-137~~ LNAPL	Grab	GW				~~13~~	~~X~~	~~X~~	~~X~~		~~X~~	~~X~~	~~X~~	~~X~~	~~X~~			
~~MW-138~~ LNAPL	Grab	GW				~~13~~	~~X~~	~~X~~	~~X~~		~~X~~	~~X~~	~~X~~	~~X~~	~~X~~			
~~MW-23~~ LNAPL	Grab	GW				~~10~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~						
~~MW-39~~ LNAPL	Grab	GW				~~10~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~						
MW-98	Grab	GW		4/13/21	1255	10	X	X	X	X	X	X						-13
RW-10	Grab	GW		4/13/21	1105	10	X	X	X	X	X	X						-14

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:
Dissolved metals field-filtered.

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
___ UPS ✓ FedEx ___ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: ___NP ✓ Y ___N
COC Signed/Accurate: ✓ Y ___N
Bottles arrive intact: ✓ Y ___N
Correct bottles used: ✓ Y ___N
Sufficient volume sent: ✓ Y ___N
If Applicable
VOA Zero Headspace: ___ Y ___N
Preservation Correct/Checked: ✓ Y ___N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
Scott Ude	4/14/21	1200			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4.3 °C Bottles Received: 0x24326S	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4/16/21 Time: 0900	Hold: Condition: NCF 10

TRC Solutions - Austin, TX **505 E. Huntland Dr, Ste 250** **Austin, TX 78752**	Billing Information: **Accounts Payable** **21 Griffin Road North** **Windsor, CT 06095** **apinvoiceapproval@trcsolutions.com**
Report to: **Julie Speer**	Email To: **jspeer@trccompanies.com; dholbert@trccompanies.com**
Project Description: **REST Spring 2021**	City/State Collected: **Artesia, NM**
Phone: **512-684-3170** Fax:	Client Project # **330538.0000.0000**
Lab Project # **TRCATX-REST**	
Collected by (print): **Scott Ude/HMI Team**	Site/Facility ID # **REST (Navajo - Artesia)**
P.O. #	
Collected by (signature): Immediately Packed on Ice N ___ Y ✓	*Rush?* (Lab MUST Be Notified) ___ Same Day ___ Five Day ___ Next Day ___ 5 Day (Rad Only) ___ Two Day ___ 10 Day (Rad Only) ___ Three Day
Quote #	Date Results Needed

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page 10 of 14

Pace Analytical® National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L1339469

Table #

Acctnum: TRCATX

Template: T121997

Prelogin: P835518

TSR: 526

PB: CB 3/22/21

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions,NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Remarks	Sample # (lab only)
~~MW-40~~ LNAPL	Grab	GW				~~10~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~						
MW-41	Grab	GW				10	X	X	X	X	X	X						
RW-9	Grab	GW				10	X	X	X	X	X	X						
MW-42	Grab	GW				10	X	X	X	X	X	X						
MW-29	Grab	GW				10	X	X	X	X	X	X						
~~BW-#16B~~ DRY	Grab	GW				~~8~~	~~X~~	~~X~~		~~X~~	~~X~~	~~X~~						
MW-106	Grab	GW		4/13/21	1155	10	X	X	X	X	X	X						15
MW-50	Grab	GW		4/13/21	1000	8	X	X		X	X	X						16
~~MW-97~~ missing; covered by Navajo gravel	Grab	GW				~~12~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~			~~X~~			
~~MW-92~~ LNAPL	Grab	GW				~~10~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~						

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:
Dissolved metals field-filtered.

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
___ UPS ✓ FedEx ___ Courier _____

Tracking #

Sample Receipt Checklist

COC Seal Present/Intact:	NP	✓ N
COC Signed/Accurate:		✓ N
Bottles arrive intact:		✓ N
Correct bottles used:		✓ N
Sufficient volume sent:		✓ N
If Applicable		
VOA Zero Headspace:		✓ N
Preservation Correct/Checked:		✓ N

Relinquished by: (Signature) Scott Ude	Date: 4/14/21	Time: 1200	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 0.2+3=2.5 °C Bottles Received:
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4/15/21 Time: 0900

If preservation required by Login: Date/Time

Hold: 4116

Condition: NCF / OK

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Pres Chk

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com; dhelbert@trccompanies.com**

Project Description: **REST Spring 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **330538.0000.0000**

Lab Project # **TRCATX-REST**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **REST (Navajo - Artesia)**

P.O. #

Collected by (signature):

Immediately Packed on Ice: N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

Quote #

Analysis / Container / Preservative

Chain of Custody Page 11 of 14

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National Center for Testing & Innovation

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Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L1339469

Table #

Acctnum: TRCATX
Template: T121997
Prelogin: P835518
TSR: 526
PB: 03/22/21

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions,NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Remarks	Sample # (lab only)
~~RW-1~~ LNAPL	Grab	GW				~~10~~	X	X	X	X	X	X						
~~MW-91~~ LNAPL	Grab	GW				~~10~~	X	X	X	X	X	X						
MW-90	Grab	GW		4/13/21	1100	10	X	X	X	X	X	X						-17
~~MW-96~~ LNAPL	Grab	GW				~~10~~	X	X	X	X	X	X						
~~MW-94~~ LNAPL	Grab	GW				~~10~~	X	X	X	X	X	X						
~~BW-8~~ LNAPL	Grab	GW				~~8~~	X	X		X	X	X						
~~MW-67~~ LNAPL	Grab	GW				~~11~~	X	X	X		X	X	X	X				
~~MW-95~~ LNAPL	Grab	GW				~~10~~	X	X	X	X	X	X						
~~BW-7~~ LNAPL	Grab	GW				~~10~~	X	X	X	X	X	X						
~~BW-#17A~~ DRY	Grab	GW				~~10~~	X	X	X	X	X	X						

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:
Dissolved metals field-filtered.

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP __Y __N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: ✓Y __N
Correct bottles used: ✓Y __N
Sufficient volume sent: ✓Y __N
If Applicable
VOA Zero Headspace: ✓Y __N
Preservation Correct/Checked: ✓Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Scott Ude	4/14/21	1200		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 1.3 °C Bottles Received: 3,2,1,3,3,3,5
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4/15/21 Time: 0930

If preservation required by Login: Date/Time

Hold: 4/16

Condition: NCF / OK

TRC Solutions - Austin, TX **505 E. Huntland Dr, Ste 250** **Austin, TX 78752**	Billing Information: **Accounts Payable** **21 Griffin Road North** **Windsor, CT 06095** **apinvoiceapproval@trcsolutions.com**
Report to: **Julie Speer**	Email To: **jspeer@trccompanies.com;**
Project Description: **REST Spring 2021**	City/State Collected: **Artesia, NM**
Phone: **512-684-3170** Fax:	Client Project # **330538.0000.0000**
Collected by (print): **Scott Ude/HMI Team**	Site/Facility ID # **REST (Navajo - Artesia)**
Collected by (signature): Immediately Packed on Ice N ___ Y ✓	*Rush?* (Lab MUST Be Notified) ___ Same Day ___ Five Day ___ Next Day ___ 5 Day (Rad Only) ___ Two Day ___ 10 Day (Rad Only) ___ Three Day Date Results Needed

Pres Chk

Lab Project #: **TRCATX-REST**

P.O. #

Quote #

Analysis / Container / Preservative

Chain of Custody Page 12 of 14

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Phone: 800-767-5859
Fax: 615-758-5859

L# L1339469

Table #

Acctnum: **TRCATX**

Template: **T121997**

Prelogin: **P835518**

TSR: **526**

PB: CS 3/22/21

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions,NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Remarks	Sample # (lab only)
DUP-REST-01	Grab	GW				10	X	X	X	X	X	X						
DUP-REST-02	Grab	GW		4/13/21	1200	10	X	X	X	X	X	X						-18
DUP-REST-03	Grab	GW				10	X	X	X	X	X	X						
~~DUP-REST-04~~ LNAPL	Grab	GW				~~11~~	X	X	X		X	X	X	X				
DUP-REST-05	Grab	GW		4/13/21	1200	11	X	X	X		X	X	X	X				-19
EB-REST-01	Grab	GW				10	X	X	X	X	X	X						
EB-REST-02	Grab	GW		4/13/21	1305	10	X	X	X	X	X	X						-29
EB-REST-03	Grab	GW				10	X	X	X	X	X	X						
~~EB-REST-04~~ LNAPL related	Grab	GW				~~11~~	X	X	X		X	X	X	X				
EB-REST-05	Grab	GW		4/13/21	1025	11	X	X	X		X	X	X	X				-20

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:
Dissolved metals field-filtered.

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP ✓ N
COC Signed/Accurate: ✓ N
Bottles arrive intact: ✓ N
Correct bottles used: ✓ N
Sufficient volume sent: ✓ N
If Applicable
VOA Zero Headspace: ✓ N
Preservation Correct/Checked: ✓ N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Scott Ude	4/14/21	1200		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4.3 °C Bottles Received: 0343745
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4/15/21 Time: 0930

If preservation required by Login: Date/Time

Hold: 4/16

Condition: NCF / OK

Shipped

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Pres Chk

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com; dhelbert@trccompanies.com**

Project Description: **REST Spring 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **330538.0000.0000**

Lab Project # **TRCATX-REST**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **REST (Navajo - Artesia)**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions,NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Remarks	Sample # (lab only)
Trip Blank-REST-01	Grab	GW				1	X											
Trip Blank-REST-02	Grab	GW		4/13/21	—	1	X											-21
Trip Blank-REST-03	Grab	GW				1	X											
Trip Blank-REST-04	Grab	GW				1	X											
~~Trip Blank-REST-05~~	Grab	GW				1	X	5H										

Analysis / Container / Preservative

Chain of Custody Page 13 of 14

Pace Analytical*
National Center for Testing & Innovation

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Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L1339469

Table #

Acctnum: TRCATX
Template: T121997
Prelogin: P835518
TSR: 526
PB: OK 3/22/21

Shipped Via:

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:
Dissolved metals field-filtered.

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP ✓Y N
COC Signed/Accurate: ✓Y N
Bottles arrive intact: ✓Y N
Correct bottles used: ✓Y N
Sufficient volume sent: ✓Y N
If Applicable
VOA Zero Headspace: ✓Y N
Preservation Correct/Checked: ✓Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Scott Ude	4/14/21	1200		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 1.3 +0.2 Bottles Received: 3705
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4/15/21 Time: 0930

If preservation required by Login: Date/Time

Hold: Condition: NCF / OK

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Pres Chk

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com; dbelbert@trccompanies.com**

Project Description: **REST Spring 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **330538.0000.0000**

Lab Project # **TRCATX-REST**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **REST (Navajo - Artesia)**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Chain of Custody Page 14 of 14

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National Center for Testing & Innovation

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Phone: 800-767-5859
Fax: 615-758-5859

L# L1394469

Table #

Acctnum: **TRCATX**
Template: **T121997**
Prelogin: **P835518**
TSR: **526**
PB: **3/22/21**

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC - 40mlAmb HCl	DRO - 40mlAmb-HCl-BT	GRO - 40mlAmb HCl	Total Short List Metals 250mlHDPE-HNO3	Cations (from "total metals" bottle)	Anions. TDS - 250mlHDPE-NoPres	NO2NO3 - 250mlHDPE-H2SO4	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	SVOCs - 8270	Remarks	Sample # (lab only)
MW-62R	Grab	GW				9	X	X	X	X	X	X	X					
~~MW-137A~~ DRY	Grab	GW				~~11~~	~~X~~	~~X~~	~~X~~		~~X~~	~~X~~	~~X~~	~~X~~	~~X~~			
~~MW-138A~~ DRY	Grab	GW				~~11~~	~~X~~	~~X~~	~~X~~		~~X~~	~~X~~	~~X~~	~~X~~	~~X~~			
MW-139	Grab	GW		4/13/21	1630	10	X	X	X	X	X	X	X					-22
MW-145	Grab	GW		4/13/21	1200	8	X	X	X	X		X						-23
MW-146	Grab	GW		4/13/21	1115	8	X	X	X	X		X						-24
MW-147	Grab	GW		4/13/21	910	8	X	X	X	X		X						-30
MW-148	Grab	GW		4/13/21	1020	8	X	X	X	X		X						-25
	Grab	GW																

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Scott Ude	4/14/21	1200		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3°C Bottles Received: 32+3=35
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4/15/21 Time: 0930

If preservation required by Login: Date/Time

Hold: 04/16

Condition: NCF / OK

ANALYTICAL REPORT

April 28, 2021

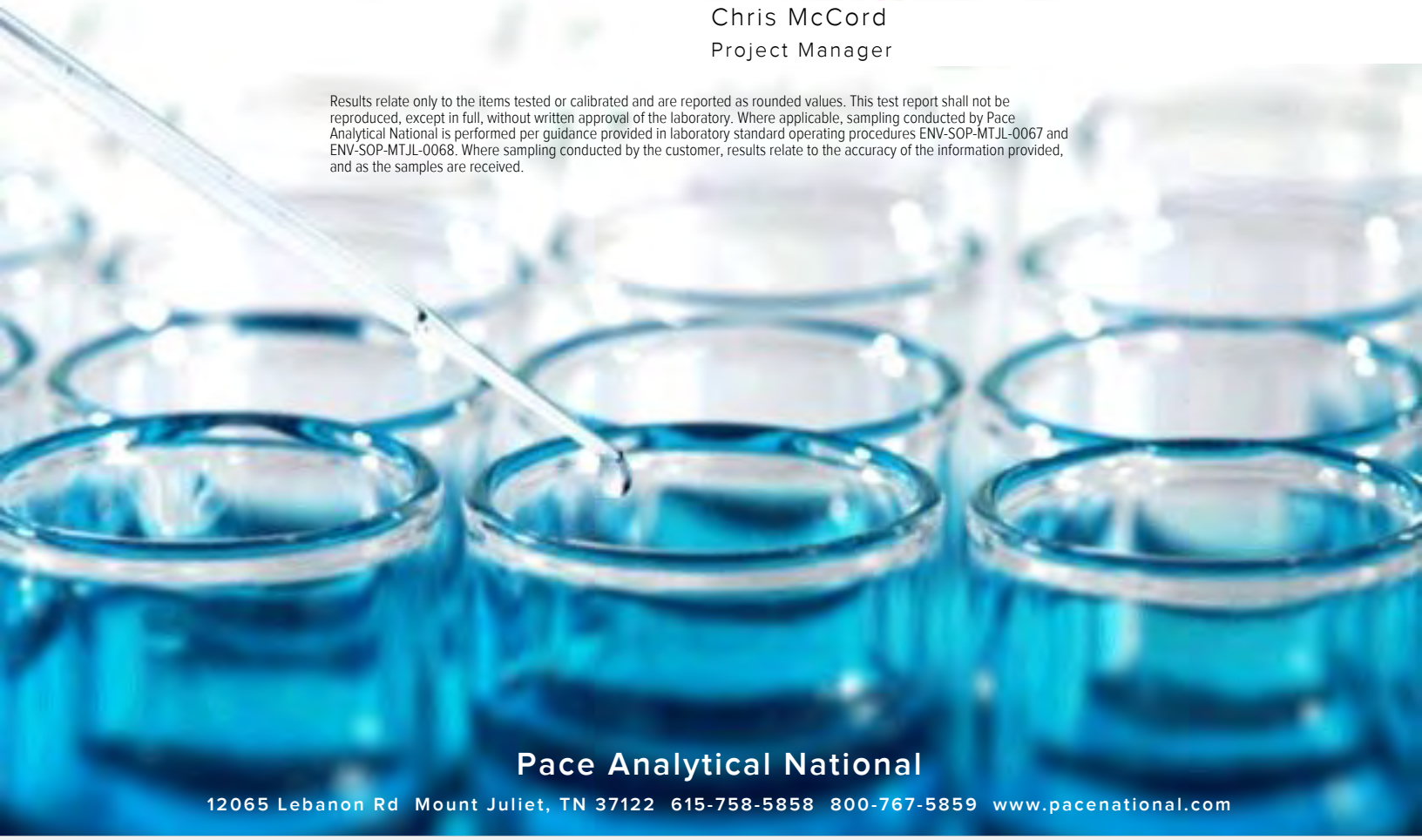
TRC Solutions - Austin, TX

Sample Delivery Group:	L1339491
Samples Received:	04/15/2021
Project Number:	425135.0000.0000
Description:	TMD Spring 2021
Site:	TMD - NAVAJO-ARTESIA
Report To:	Julie Speer
	505 E. Huntland Dr, Ste 250
	Austin, TX 78752

Entire Report Reviewed By:

Chris McCord
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



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SAMPLE SUMMARY

MW-25 L1339491-01 GW

Collected by: SU / HMI Team
Collected date/time: 04/13/21 15:30
Received date/time: 04/15/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1654733	1	04/19/21 17:40	04/19/21 22:36	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1653896	1	04/18/21 06:32	04/18/21 06:32	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656214	1	04/22/21 05:54	04/22/21 05:54	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1656214	20	04/22/21 06:07	04/22/21 06:07	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656892	1	04/26/21 04:02	04/26/21 16:16	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1658404	1	04/24/21 22:26	04/25/21 21:37	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654282	1	04/19/21 21:24	04/19/21 21:24	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1657699	1	04/23/21 14:27	04/24/21 03:41	JN	Mt. Juliet, TN

MW-27 L1339491-02 GW

Collected by: SU / HMI Team
Collected date/time: 04/13/21 14:30
Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1654733	1	04/19/21 17:40	04/19/21 22:36	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1653896	1	04/18/21 06:33	04/18/21 06:33	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657191	1	04/23/21 02:13	04/23/21 02:13	MSP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657191	20	04/23/21 02:29	04/23/21 02:29	MSP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1655946	1	04/26/21 06:54	04/26/21 12:15	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656892	1	04/26/21 04:02	04/26/21 16:19	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654282	1	04/19/21 21:44	04/19/21 21:44	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1657699	1	04/23/21 14:27	04/24/21 04:01	JN	Mt. Juliet, TN

MW-89 L1339491-03 GW

Collected by: SU / HMI Team
Collected date/time: 04/13/21 16:10
Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1654733	1	04/19/21 17:40	04/19/21 22:36	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1653896	1	04/18/21 06:38	04/18/21 06:38	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657191	1	04/23/21 02:45	04/23/21 02:45	MSP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657191	100	04/23/21 03:02	04/23/21 03:02	MSP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1655946	1	04/26/21 06:54	04/26/21 12:18	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656898	1	04/27/21 11:02	04/27/21 15:58	RDS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654282	1	04/19/21 22:05	04/19/21 22:05	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1657699	1	04/23/21 14:27	04/24/21 04:21	JN	Mt. Juliet, TN

MW-16 L1339491-04 GW

Collected by: SU / HMI Team
Collected date/time: 04/13/21 15:25
Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1654733	1	04/19/21 17:40	04/19/21 22:36	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1653896	1	04/18/21 06:40	04/18/21 06:40	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657191	1	04/23/21 03:18	04/23/21 03:18	MSP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657191	100	04/23/21 03:38	04/23/21 03:38	MSP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1655946	1	04/26/21 06:54	04/26/21 12:22	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656898	1	04/27/21 11:02	04/27/21 16:11	RDS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654282	1	04/19/21 22:25	04/19/21 22:25	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1657699	1	04/23/21 14:27	04/24/21 04:41	JN	Mt. Juliet, TN

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

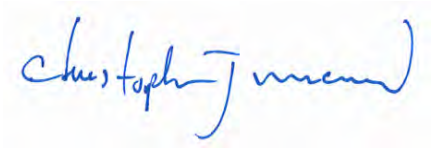
SAMPLE SUMMARY

MW-26 L1339491-05 GW

Collected by	Collected date/time	Received date/time
SU / HMI Team	04/13/21 16:55	04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1654733	1	04/19/21 17:40	04/19/21 22:36	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1653896	1	04/18/21 06:42	04/18/21 06:42	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657191	1	04/23/21 03:54	04/23/21 03:54	MSP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657191	100	04/23/21 04:10	04/23/21 04:10	MSP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1655946	1	04/26/21 06:54	04/26/21 12:25	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656898	1	04/27/21 11:02	04/27/21 16:15	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654282	1	04/19/21 22:46	04/19/21 22:46	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1657699	1	04/23/21 14:27	04/24/21 05:01	JN	Mt. Juliet, TN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Chris McCord
Project Manager

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	3660		20.0	1	04/19/2021 22:36	WG1654733

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.466		0.0500	0.100	1	04/18/2021 06:32	WG1653896

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	940		7.58	20.0	20	04/22/2021 06:07	WG1656214
Fluoride	1.01		0.0640	0.150	1	04/22/2021 05:54	WG1656214
Sulfate	1350		11.9	100	20	04/22/2021 06:07	WG1656214

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00178	J	0.000180	0.00200	1	04/26/2021 16:16	WG1656892
Arsenic,Dissolved	0.00178	J	0.000180	0.00200	1	04/25/2021 21:37	WG1658404
Barium	0.0189	J	0.000381	0.0200	1	04/26/2021 16:16	WG1656892
Barium,Dissolved	0.0127	J	0.000381	0.0200	1	04/25/2021 21:37	WG1658404
Calcium	358		0.0936	1.00	1	04/26/2021 16:16	WG1656892
Chromium	U		0.00124	0.00200	1	04/26/2021 16:16	WG1656892
Chromium,Dissolved	U		0.00124	0.00200	1	04/25/2021 21:37	WG1658404
Iron	U		0.0281	0.100	1	04/26/2021 16:16	WG1656892
Iron,Dissolved	U		0.0281	0.100	1	04/25/2021 21:37	WG1658404
Lead	U		0.000849	0.00200	1	04/26/2021 16:16	WG1656892
Lead,Dissolved	U		0.000849	0.00200	1	04/25/2021 21:37	WG1658404
Manganese	2.16		0.000704	0.00500	1	04/26/2021 16:16	WG1656892
Manganese,Dissolved	0.167		0.000704	0.00500	1	04/25/2021 21:37	WG1658404
Potassium	3.54		0.108	2.00	1	04/26/2021 16:16	WG1656892
Selenium	0.00249		0.000300	0.00200	1	04/26/2021 16:16	WG1656892
Selenium,Dissolved	0.00213		0.000300	0.00200	1	04/25/2021 21:37	WG1658404
Sodium	472		0.376	2.00	1	04/26/2021 16:16	WG1656892

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0113	0.0500	1	04/19/2021 21:24	WG1654282
Benzene	U		0.0000941	0.00100	1	04/19/2021 21:24	WG1654282
Bromodichloromethane	U		0.000136	0.00100	1	04/19/2021 21:24	WG1654282
Bromoform	U		0.000129	0.00100	1	04/19/2021 21:24	WG1654282
Bromomethane	U		0.000605	0.00500	1	04/19/2021 21:24	WG1654282
n-Butylbenzene	U		0.000157	0.00100	1	04/19/2021 21:24	WG1654282
sec-Butylbenzene	U		0.000125	0.00100	1	04/19/2021 21:24	WG1654282
Carbon disulfide	U		0.0000962	0.00100	1	04/19/2021 21:24	WG1654282
Carbon tetrachloride	U		0.000128	0.00100	1	04/19/2021 21:24	WG1654282
Chlorobenzene	U		0.000116	0.00100	1	04/19/2021 21:24	WG1654282
Chlorodibromomethane	U		0.000140	0.00100	1	04/19/2021 21:24	WG1654282
Chloroethane	U		0.000192	0.00500	1	04/19/2021 21:24	WG1654282
Chloroform	U		0.000111	0.00500	1	04/19/2021 21:24	WG1654282
Chloromethane	U		0.000960	0.00250	1	04/19/2021 21:24	WG1654282
1,2-Dibromoethane	U		0.000126	0.00100	1	04/19/2021 21:24	WG1654282
1,1-Dichloroethane	U		0.000100	0.00100	1	04/19/2021 21:24	WG1654282

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/19/2021 21:24	WG1654282
1,1-Dichloroethene	U		0.000188	0.00100	1	04/19/2021 21:24	WG1654282
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/19/2021 21:24	WG1654282
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/19/2021 21:24	WG1654282
1,2-Dichloropropane	U		0.000149	0.00100	1	04/19/2021 21:24	WG1654282
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/19/2021 21:24	WG1654282
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/19/2021 21:24	WG1654282
Ethylbenzene	U		0.000137	0.00100	1	04/19/2021 21:24	WG1654282
Isopropylbenzene	U		0.000105	0.00100	1	04/19/2021 21:24	WG1654282
p-Isopropyltoluene	U		0.000120	0.00100	1	04/19/2021 21:24	WG1654282
2-Butanone (MEK)	U		0.00119	0.0100	1	04/19/2021 21:24	WG1654282
2-Hexanone	U		0.000787	0.0100	1	04/19/2021 21:24	WG1654282
Methylene Chloride	U		0.000430	0.00500	1	04/19/2021 21:24	WG1654282
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/19/2021 21:24	WG1654282
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/19/2021 21:24	WG1654282
Naphthalene	U		0.00100	0.00500	1	04/19/2021 21:24	WG1654282
n-Propylbenzene	U		0.0000993	0.00100	1	04/19/2021 21:24	WG1654282
Styrene	U		0.000118	0.00100	1	04/19/2021 21:24	WG1654282
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/19/2021 21:24	WG1654282
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/19/2021 21:24	WG1654282
Tetrachloroethene	U		0.000300	0.00100	1	04/19/2021 21:24	WG1654282
Toluene	U		0.000278	0.00100	1	04/19/2021 21:24	WG1654282
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/19/2021 21:24	WG1654282
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/19/2021 21:24	WG1654282
Trichloroethene	U		0.000190	0.00100	1	04/19/2021 21:24	WG1654282
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/19/2021 21:24	WG1654282
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/19/2021 21:24	WG1654282
Vinyl chloride	U		0.000234	0.00100	1	04/19/2021 21:24	WG1654282
o-Xylene	U		0.000174	0.00100	1	04/19/2021 21:24	WG1654282
m&p-Xylene	U		0.000430	0.00200	1	04/19/2021 21:24	WG1654282
Xylenes, Total	U		0.000174	0.00300	1	04/19/2021 21:24	WG1654282
(S) Toluene-d8	*104*			*80.0-120*		*04/19/2021 21:24*	WG1654282
(S) 4-Bromofluorobenzene	*93.6*			*77.0-126*		*04/19/2021 21:24*	WG1654282
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*04/19/2021 21:24*	WG1654282

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0537	J	0.0247	0.100	1	04/24/2021 03:41	WG1657699
(S) o-Terphenyl	*85.8*			*31.0-160*		*04/24/2021 03:41*	WG1657699

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	1990		10.0	1	04/19/2021 22:36	WG1654733

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.418		0.0500	0.100	1	04/18/2021 06:33	WG1653896

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	60.0		0.379	1.00	1	04/23/2021 02:13	WG1657191
Fluoride	1.18		0.0640	0.150	1	04/23/2021 02:13	WG1657191
Sulfate	1110		11.9	100	20	04/23/2021 02:29	WG1657191

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00223		0.000180	0.00200	1	04/26/2021 16:19	WG1656892
Arsenic,Dissolved	0.00215		0.000180	0.00200	1	04/26/2021 12:15	WG1655946
Barium	0.0179	J	0.000381	0.0200	1	04/26/2021 16:19	WG1656892
Barium,Dissolved	0.0170	J	0.000381	0.0200	1	04/26/2021 12:15	WG1655946
Calcium	335		0.0936	1.00	1	04/26/2021 16:19	WG1656892
Chromium	U		0.00124	0.00200	1	04/26/2021 16:19	WG1656892
Chromium,Dissolved	U		0.00124	0.00200	1	04/26/2021 12:15	WG1655946
Iron	U		0.0281	0.100	1	04/26/2021 16:19	WG1656892
Iron,Dissolved	U		0.0281	0.100	1	04/26/2021 12:15	WG1655946
Lead	U		0.000849	0.00200	1	04/26/2021 16:19	WG1656892
Lead,Dissolved	U		0.000849	0.00200	1	04/26/2021 12:15	WG1655946
Manganese	0.0143		0.000704	0.00500	1	04/26/2021 16:19	WG1656892
Manganese,Dissolved	U		0.000704	0.00500	1	04/26/2021 12:15	WG1655946
Potassium	7.70		0.108	2.00	1	04/26/2021 16:19	WG1656892
Selenium	0.0173		0.000300	0.00200	1	04/26/2021 16:19	WG1656892
Selenium,Dissolved	0.0167		0.000300	0.00200	1	04/26/2021 12:15	WG1655946
Sodium	94.6		0.376	2.00	1	04/26/2021 16:19	WG1656892

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0113	0.0500	1	04/19/2021 21:44	WG1654282
Benzene	U		0.0000941	0.00100	1	04/19/2021 21:44	WG1654282
Bromodichloromethane	U		0.000136	0.00100	1	04/19/2021 21:44	WG1654282
Bromoform	U		0.000129	0.00100	1	04/19/2021 21:44	WG1654282
Bromomethane	U		0.000605	0.00500	1	04/19/2021 21:44	WG1654282
n-Butylbenzene	U		0.000157	0.00100	1	04/19/2021 21:44	WG1654282
sec-Butylbenzene	U		0.000125	0.00100	1	04/19/2021 21:44	WG1654282
Carbon disulfide	U		0.0000962	0.00100	1	04/19/2021 21:44	WG1654282
Carbon tetrachloride	U		0.000128	0.00100	1	04/19/2021 21:44	WG1654282
Chlorobenzene	U		0.000116	0.00100	1	04/19/2021 21:44	WG1654282
Chlorodibromomethane	U		0.000140	0.00100	1	04/19/2021 21:44	WG1654282
Chloroethane	U		0.000192	0.00500	1	04/19/2021 21:44	WG1654282
Chloroform	U		0.000111	0.00500	1	04/19/2021 21:44	WG1654282
Chloromethane	U		0.000960	0.00250	1	04/19/2021 21:44	WG1654282
1,2-Dibromoethane	U		0.000126	0.00100	1	04/19/2021 21:44	WG1654282
1,1-Dichloroethane	U		0.000100	0.00100	1	04/19/2021 21:44	WG1654282

MW-27
Collected date/time: 04/13/21 14:30
L1339491

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/19/2021 21:44	WG1654282
1,1-Dichloroethene	U		0.000188	0.00100	1	04/19/2021 21:44	WG1654282
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/19/2021 21:44	WG1654282
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/19/2021 21:44	WG1654282
1,2-Dichloropropane	U		0.000149	0.00100	1	04/19/2021 21:44	WG1654282
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/19/2021 21:44	WG1654282
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/19/2021 21:44	WG1654282
Ethylbenzene	U		0.000137	0.00100	1	04/19/2021 21:44	WG1654282
Isopropylbenzene	U		0.000105	0.00100	1	04/19/2021 21:44	WG1654282
p-Isopropyltoluene	U		0.000120	0.00100	1	04/19/2021 21:44	WG1654282
2-Butanone (MEK)	U		0.00119	0.0100	1	04/19/2021 21:44	WG1654282
2-Hexanone	U		0.000787	0.0100	1	04/19/2021 21:44	WG1654282
Methylene Chloride	U		0.000430	0.00500	1	04/19/2021 21:44	WG1654282
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/19/2021 21:44	WG1654282
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/19/2021 21:44	WG1654282
Naphthalene	U		0.00100	0.00500	1	04/19/2021 21:44	WG1654282
n-Propylbenzene	U		0.0000993	0.00100	1	04/19/2021 21:44	WG1654282
Styrene	U		0.000118	0.00100	1	04/19/2021 21:44	WG1654282
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/19/2021 21:44	WG1654282
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/19/2021 21:44	WG1654282
Tetrachloroethene	U		0.000300	0.00100	1	04/19/2021 21:44	WG1654282
Toluene	U		0.000278	0.00100	1	04/19/2021 21:44	WG1654282
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/19/2021 21:44	WG1654282
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/19/2021 21:44	WG1654282
Trichloroethene	U		0.000190	0.00100	1	04/19/2021 21:44	WG1654282
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/19/2021 21:44	WG1654282
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/19/2021 21:44	WG1654282
Vinyl chloride	U		0.000234	0.00100	1	04/19/2021 21:44	WG1654282
o-Xylene	U		0.000174	0.00100	1	04/19/2021 21:44	WG1654282
m&p-Xylene	U		0.000430	0.00200	1	04/19/2021 21:44	WG1654282
Xylenes, Total	U		0.000174	0.00300	1	04/19/2021 21:44	WG1654282
(S) Toluene-d8	*101*			*80.0-120*		*04/19/2021 21:44*	WG1654282
(S) 4-Bromofluorobenzene	*97.4*			*77.0-126*		*04/19/2021 21:44*	WG1654282
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*04/19/2021 21:44*	WG1654282

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0659	J	0.0247	0.100	1	04/24/2021 04:01	WG1657699
(S) o-Terphenyl	*85.3*			*31.0-160*		*04/24/2021 04:01*	WG1657699

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	2650		20.0	1	04/19/2021 22:36	WG1654733

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	1.05		0.0500	0.100	1	04/18/2021 06:38	WG1653896

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	196		37.9	100	100	04/23/2021 03:02	WG1657191
Fluoride	2.35		0.0640	0.150	1	04/23/2021 02:45	WG1657191
Sulfate	1370		59.4	500	100	04/23/2021 03:02	WG1657191

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0132		0.000180	0.00200	1	04/27/2021 15:58	WG1656898
Arsenic,Dissolved	0.00997		0.000180	0.00200	1	04/26/2021 12:18	WG1655946
Barium	0.0139	J	0.000381	0.0200	1	04/27/2021 15:58	WG1656898
Barium,Dissolved	0.0127	J	0.000381	0.0200	1	04/26/2021 12:18	WG1655946
Calcium	451		0.0936	1.00	1	04/27/2021 15:58	WG1656898
Chromium	0.00131	J	0.00124	0.00200	1	04/27/2021 15:58	WG1656898
Chromium,Dissolved	U		0.00124	0.00200	1	04/26/2021 12:18	WG1655946
Iron	0.305		0.0281	0.100	1	04/27/2021 15:58	WG1656898
Iron,Dissolved	U		0.0281	0.100	1	04/26/2021 12:18	WG1655946
Lead	U		0.000849	0.00200	1	04/27/2021 15:58	WG1656898
Lead,Dissolved	U		0.000849	0.00200	1	04/26/2021 12:18	WG1655946
Manganese	0.663	V	0.000704	0.00500	1	04/27/2021 15:58	WG1656898
Manganese,Dissolved	0.678		0.000704	0.00500	1	04/26/2021 12:18	WG1655946
Potassium	7.06		0.108	2.00	1	04/27/2021 15:58	WG1656898
Selenium	0.00303		0.000300	0.00200	1	04/27/2021 15:58	WG1656898
Selenium,Dissolved	0.00176	J	0.000300	0.00200	1	04/26/2021 12:18	WG1655946
Sodium	139	V	0.376	2.00	1	04/27/2021 15:58	WG1656898

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0113	0.0500	1	04/19/2021 22:05	WG1654282
Benzene	U		0.0000941	0.00100	1	04/19/2021 22:05	WG1654282
Bromodichloromethane	U		0.000136	0.00100	1	04/19/2021 22:05	WG1654282
Bromoform	U		0.000129	0.00100	1	04/19/2021 22:05	WG1654282
Bromomethane	U		0.000605	0.00500	1	04/19/2021 22:05	WG1654282
n-Butylbenzene	U		0.000157	0.00100	1	04/19/2021 22:05	WG1654282
sec-Butylbenzene	U		0.000125	0.00100	1	04/19/2021 22:05	WG1654282
Carbon disulfide	U		0.0000962	0.00100	1	04/19/2021 22:05	WG1654282
Carbon tetrachloride	U		0.000128	0.00100	1	04/19/2021 22:05	WG1654282
Chlorobenzene	U		0.000116	0.00100	1	04/19/2021 22:05	WG1654282
Chlorodibromomethane	U		0.000140	0.00100	1	04/19/2021 22:05	WG1654282
Chloroethane	U		0.000192	0.00500	1	04/19/2021 22:05	WG1654282
Chloroform	U		0.000111	0.00500	1	04/19/2021 22:05	WG1654282
Chloromethane	U		0.000960	0.00250	1	04/19/2021 22:05	WG1654282
1,2-Dibromoethane	U		0.000126	0.00100	1	04/19/2021 22:05	WG1654282
1,1-Dichloroethane	U		0.000100	0.00100	1	04/19/2021 22:05	WG1654282

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/19/2021 22:05	WG1654282
1,1-Dichloroethene	U		0.000188	0.00100	1	04/19/2021 22:05	WG1654282
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/19/2021 22:05	WG1654282
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/19/2021 22:05	WG1654282
1,2-Dichloropropane	U		0.000149	0.00100	1	04/19/2021 22:05	WG1654282
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/19/2021 22:05	WG1654282
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/19/2021 22:05	WG1654282
Ethylbenzene	U		0.000137	0.00100	1	04/19/2021 22:05	WG1654282
Isopropylbenzene	U		0.000105	0.00100	1	04/19/2021 22:05	WG1654282
p-Isopropyltoluene	U		0.000120	0.00100	1	04/19/2021 22:05	WG1654282
2-Butanone (MEK)	U		0.00119	0.0100	1	04/19/2021 22:05	WG1654282
2-Hexanone	U		0.000787	0.0100	1	04/19/2021 22:05	WG1654282
Methylene Chloride	U		0.000430	0.00500	1	04/19/2021 22:05	WG1654282
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/19/2021 22:05	WG1654282
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/19/2021 22:05	WG1654282
Naphthalene	U		0.00100	0.00500	1	04/19/2021 22:05	WG1654282
n-Propylbenzene	U		0.0000993	0.00100	1	04/19/2021 22:05	WG1654282
Styrene	U		0.000118	0.00100	1	04/19/2021 22:05	WG1654282
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/19/2021 22:05	WG1654282
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/19/2021 22:05	WG1654282
Tetrachloroethene	U		0.000300	0.00100	1	04/19/2021 22:05	WG1654282
Toluene	U		0.000278	0.00100	1	04/19/2021 22:05	WG1654282
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/19/2021 22:05	WG1654282
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/19/2021 22:05	WG1654282
Trichloroethene	U		0.000190	0.00100	1	04/19/2021 22:05	WG1654282
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/19/2021 22:05	WG1654282
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/19/2021 22:05	WG1654282
Vinyl chloride	U		0.000234	0.00100	1	04/19/2021 22:05	WG1654282
o-Xylene	0.000241	J	0.000174	0.00100	1	04/19/2021 22:05	WG1654282
m&p-Xylene	U		0.000430	0.00200	1	04/19/2021 22:05	WG1654282
Xylenes, Total	0.000241	J	0.000174	0.00300	1	04/19/2021 22:05	WG1654282
(S) Toluene-d8	*100*			*80.0-120*		*04/19/2021 22:05*	WG1654282
(S) 4-Bromofluorobenzene	*99.1*			*77.0-126*		*04/19/2021 22:05*	WG1654282
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*04/19/2021 22:05*	WG1654282

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.175		0.0247	0.100	1	04/24/2021 04:21	WG1657699
(S) o-Terphenyl	*84.7*			*31.0-160*		*04/24/2021 04:21*	WG1657699

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	4000		20.0	1	04/19/2021 22:36	WG1654733

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	1.20		0.0500	0.100	1	04/18/2021 06:40	WG1653896

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	339		37.9	100	100	04/23/2021 03:38	WG1657191
Fluoride	2.34		0.0640	0.150	1	04/23/2021 03:18	WG1657191
Sulfate	2040		59.4	500	100	04/23/2021 03:38	WG1657191

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00528		0.000180	0.00200	1	04/27/2021 16:11	WG1656898
Arsenic,Dissolved	0.00499		0.000180	0.00200	1	04/26/2021 12:22	WG1655946
Barium	0.0186	J	0.000381	0.0200	1	04/27/2021 16:11	WG1656898
Barium,Dissolved	0.0138	J	0.000381	0.0200	1	04/26/2021 12:22	WG1655946
Calcium	487		0.0936	1.00	1	04/27/2021 16:11	WG1656898
Chromium	U		0.00124	0.00200	1	04/27/2021 16:11	WG1656898
Chromium,Dissolved	U		0.00124	0.00200	1	04/26/2021 12:22	WG1655946
Iron	0.0632	J	0.0281	0.100	1	04/27/2021 16:11	WG1656898
Iron,Dissolved	U		0.0281	0.100	1	04/26/2021 12:22	WG1655946
Lead	U		0.000849	0.00200	1	04/27/2021 16:11	WG1656898
Lead,Dissolved	U		0.000849	0.00200	1	04/26/2021 12:22	WG1655946
Manganese	0.215		0.000704	0.00500	1	04/27/2021 16:11	WG1656898
Manganese,Dissolved	0.00771	B	0.000704	0.00500	1	04/26/2021 12:22	WG1655946
Potassium	8.73		0.108	2.00	1	04/27/2021 16:11	WG1656898
Selenium	0.00859		0.000300	0.00200	1	04/27/2021 16:11	WG1656898
Selenium,Dissolved	0.00741		0.000300	0.00200	1	04/26/2021 12:22	WG1655946
Sodium	371		0.376	2.00	1	04/27/2021 16:11	WG1656898

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0113	0.0500	1	04/19/2021 22:25	WG1654282
Benzene	U		0.0000941	0.00100	1	04/19/2021 22:25	WG1654282
Bromodichloromethane	U		0.000136	0.00100	1	04/19/2021 22:25	WG1654282
Bromoform	U		0.000129	0.00100	1	04/19/2021 22:25	WG1654282
Bromomethane	U		0.000605	0.00500	1	04/19/2021 22:25	WG1654282
n-Butylbenzene	U		0.000157	0.00100	1	04/19/2021 22:25	WG1654282
sec-Butylbenzene	U		0.000125	0.00100	1	04/19/2021 22:25	WG1654282
Carbon disulfide	U		0.0000962	0.00100	1	04/19/2021 22:25	WG1654282
Carbon tetrachloride	U		0.000128	0.00100	1	04/19/2021 22:25	WG1654282
Chlorobenzene	U		0.000116	0.00100	1	04/19/2021 22:25	WG1654282
Chlorodibromomethane	U		0.000140	0.00100	1	04/19/2021 22:25	WG1654282
Chloroethane	U		0.000192	0.00500	1	04/19/2021 22:25	WG1654282
Chloroform	U		0.000111	0.00500	1	04/19/2021 22:25	WG1654282
Chloromethane	U		0.000960	0.00250	1	04/19/2021 22:25	WG1654282
1,2-Dibromoethane	U		0.000126	0.00100	1	04/19/2021 22:25	WG1654282
1,1-Dichloroethane	U		0.000100	0.00100	1	04/19/2021 22:25	WG1654282

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/19/2021 22:25	WG1654282
1,1-Dichloroethene	U		0.000188	0.00100	1	04/19/2021 22:25	WG1654282
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/19/2021 22:25	WG1654282
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/19/2021 22:25	WG1654282
1,2-Dichloropropane	U		0.000149	0.00100	1	04/19/2021 22:25	WG1654282
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/19/2021 22:25	WG1654282
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/19/2021 22:25	WG1654282
Ethylbenzene	U		0.000137	0.00100	1	04/19/2021 22:25	WG1654282
Isopropylbenzene	U		0.000105	0.00100	1	04/19/2021 22:25	WG1654282
p-Isopropyltoluene	U		0.000120	0.00100	1	04/19/2021 22:25	WG1654282
2-Butanone (MEK)	U		0.00119	0.0100	1	04/19/2021 22:25	WG1654282
2-Hexanone	U		0.000787	0.0100	1	04/19/2021 22:25	WG1654282
Methylene Chloride	U		0.000430	0.00500	1	04/19/2021 22:25	WG1654282
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/19/2021 22:25	WG1654282
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/19/2021 22:25	WG1654282
Naphthalene	U		0.00100	0.00500	1	04/19/2021 22:25	WG1654282
n-Propylbenzene	U		0.0000993	0.00100	1	04/19/2021 22:25	WG1654282
Styrene	U		0.000118	0.00100	1	04/19/2021 22:25	WG1654282
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/19/2021 22:25	WG1654282
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/19/2021 22:25	WG1654282
Tetrachloroethene	U		0.000300	0.00100	1	04/19/2021 22:25	WG1654282
Toluene	U		0.000278	0.00100	1	04/19/2021 22:25	WG1654282
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/19/2021 22:25	WG1654282
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/19/2021 22:25	WG1654282
Trichloroethene	U		0.000190	0.00100	1	04/19/2021 22:25	WG1654282
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/19/2021 22:25	WG1654282
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/19/2021 22:25	WG1654282
Vinyl chloride	U		0.000234	0.00100	1	04/19/2021 22:25	WG1654282
o-Xylene	U		0.000174	0.00100	1	04/19/2021 22:25	WG1654282
m&p-Xylene	U		0.000430	0.00200	1	04/19/2021 22:25	WG1654282
Xylenes, Total	U		0.000174	0.00300	1	04/19/2021 22:25	WG1654282
(S) Toluene-d8	*100*			*80.0-120*		*04/19/2021 22:25*	WG1654282
(S) 4-Bromofluorobenzene	*93.9*			*77.0-126*		*04/19/2021 22:25*	WG1654282
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*04/19/2021 22:25*	WG1654282

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.138		0.0247	0.100	1	04/24/2021 04:41	WG1657699
(S) o-Terphenyl	*84.2*			*31.0-160*		*04/24/2021 04:41*	WG1657699

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	5690		50.0	1	04/19/2021 22:36	WG1654733

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	1.79		0.0500	0.100	1	04/18/2021 06:42	WG1653896

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	527		37.9	100	100	04/23/2021 04:10	WG1657191
Fluoride	1.82		0.0640	0.150	1	04/23/2021 03:54	WG1657191
Sulfate	3130		59.4	500	100	04/23/2021 04:10	WG1657191

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00310		0.000180	0.00200	1	04/27/2021 16:15	WG1656898
Arsenic,Dissolved	0.00271		0.000180	0.00200	1	04/26/2021 12:25	WG1655946
Barium	0.0101	J	0.000381	0.0200	1	04/27/2021 16:15	WG1656898
Barium,Dissolved	0.0101	J	0.000381	0.0200	1	04/26/2021 12:25	WG1655946
Calcium	517		0.0936	1.00	1	04/27/2021 16:15	WG1656898
Chromium	U		0.00124	0.00200	1	04/27/2021 16:15	WG1656898
Chromium,Dissolved	U		0.00124	0.00200	1	04/26/2021 12:25	WG1655946
Iron	U		0.0281	0.100	1	04/27/2021 16:15	WG1656898
Iron,Dissolved	U		0.0281	0.100	1	04/26/2021 12:25	WG1655946
Lead	U		0.000849	0.00200	1	04/27/2021 16:15	WG1656898
Lead,Dissolved	U		0.000849	0.00200	1	04/26/2021 12:25	WG1655946
Manganese	0.0517		0.000704	0.00500	1	04/27/2021 16:15	WG1656898
Manganese,Dissolved	0.0340		0.000704	0.00500	1	04/26/2021 12:25	WG1655946
Potassium	4.86		0.108	2.00	1	04/27/2021 16:15	WG1656898
Selenium	0.0201		0.000300	0.00200	1	04/27/2021 16:15	WG1656898
Selenium,Dissolved	0.0187		0.000300	0.00200	1	04/26/2021 12:25	WG1655946
Sodium	530		0.376	2.00	1	04/27/2021 16:15	WG1656898

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/19/2021 22:46	WG1654282
Benzene	U		0.0000941	0.00100	1	04/19/2021 22:46	WG1654282
Bromodichloromethane	U		0.000136	0.00100	1	04/19/2021 22:46	WG1654282
Bromoform	U		0.000129	0.00100	1	04/19/2021 22:46	WG1654282
Bromomethane	U		0.000605	0.00500	1	04/19/2021 22:46	WG1654282
n-Butylbenzene	U		0.000157	0.00100	1	04/19/2021 22:46	WG1654282
sec-Butylbenzene	U		0.000125	0.00100	1	04/19/2021 22:46	WG1654282
Carbon disulfide	U		0.0000962	0.00100	1	04/19/2021 22:46	WG1654282
Carbon tetrachloride	U		0.000128	0.00100	1	04/19/2021 22:46	WG1654282
Chlorobenzene	U		0.000116	0.00100	1	04/19/2021 22:46	WG1654282
Chlorodibromomethane	U		0.000140	0.00100	1	04/19/2021 22:46	WG1654282
Chloroethane	U		0.000192	0.00500	1	04/19/2021 22:46	WG1654282
Chloroform	U		0.000111	0.00500	1	04/19/2021 22:46	WG1654282
Chloromethane	U		0.000960	0.00250	1	04/19/2021 22:46	WG1654282
1,2-Dibromoethane	U		0.000126	0.00100	1	04/19/2021 22:46	WG1654282
1,1-Dichloroethane	U		0.000100	0.00100	1	04/19/2021 22:46	WG1654282

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/19/2021 22:46	WG1654282
1,1-Dichloroethene	U		0.000188	0.00100	1	04/19/2021 22:46	WG1654282
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/19/2021 22:46	WG1654282
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/19/2021 22:46	WG1654282
1,2-Dichloropropane	U		0.000149	0.00100	1	04/19/2021 22:46	WG1654282
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/19/2021 22:46	WG1654282
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/19/2021 22:46	WG1654282
Ethylbenzene	U		0.000137	0.00100	1	04/19/2021 22:46	WG1654282
Isopropylbenzene	U		0.000105	0.00100	1	04/19/2021 22:46	WG1654282
p-Isopropyltoluene	U		0.000120	0.00100	1	04/19/2021 22:46	WG1654282
2-Butanone (MEK)	U		0.00119	0.0100	1	04/19/2021 22:46	WG1654282
2-Hexanone	U		0.000787	0.0100	1	04/19/2021 22:46	WG1654282
Methylene Chloride	U		0.000430	0.00500	1	04/19/2021 22:46	WG1654282
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/19/2021 22:46	WG1654282
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/19/2021 22:46	WG1654282
Naphthalene	U		0.00100	0.00500	1	04/19/2021 22:46	WG1654282
n-Propylbenzene	U		0.0000993	0.00100	1	04/19/2021 22:46	WG1654282
Styrene	U		0.000118	0.00100	1	04/19/2021 22:46	WG1654282
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/19/2021 22:46	WG1654282
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/19/2021 22:46	WG1654282
Tetrachloroethene	U		0.000300	0.00100	1	04/19/2021 22:46	WG1654282
Toluene	U		0.000278	0.00100	1	04/19/2021 22:46	WG1654282
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/19/2021 22:46	WG1654282
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/19/2021 22:46	WG1654282
Trichloroethene	U		0.000190	0.00100	1	04/19/2021 22:46	WG1654282
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/19/2021 22:46	WG1654282
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/19/2021 22:46	WG1654282
Vinyl chloride	U		0.000234	0.00100	1	04/19/2021 22:46	WG1654282
o-Xylene	U		0.000174	0.00100	1	04/19/2021 22:46	WG1654282
m&p-Xylene	U		0.000430	0.00200	1	04/19/2021 22:46	WG1654282
Xylenes, Total	U		0.000174	0.00300	1	04/19/2021 22:46	WG1654282
(S) Toluene-d8	*102*			*80.0-120*		*04/19/2021 22:46*	WG1654282
(S) 4-Bromofluorobenzene	*97.1*			*77.0-126*		*04/19/2021 22:46*	WG1654282
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*04/19/2021 22:46*	WG1654282

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0537	J	0.0247	0.100	1	04/24/2021 05:01	WG1657699
(S) o-Terphenyl	*76.8*			*31.0-160*		*04/24/2021 05:01*	WG1657699

Method Blank (MB)

(MB) R3644779-1 04/19/21 22:36

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1339469-16 Original Sample (OS) • Duplicate (DUP)

(OS) L1339469-16 04/19/21 22:36 • (DUP) R3644779-3 04/19/21 22:36

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	3370	3460	1	2.52		5

L1339534-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1339534-01 04/19/21 22:36 • (DUP) R3644779-4 04/19/21 22:36

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	5790	5830	1	0.775		5

Laboratory Control Sample (LCS)

(LCS) R3644779-2 04/19/21 22:36

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8710	99.0	77.4-123	

Method Blank (MB)

(MB) R3643165-1 04/18/21 06:05

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Nitrate-Nitrite	U		0.0500	0.100

L1339469-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1339469-12 04/18/21 06:08 • (DUP) R3643165-3 04/18/21 06:09

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate-Nitrite	0.109	0.114	1	4.48		20

L1339491-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1339491-04 04/18/21 06:40 • (DUP) R3643165-5 04/18/21 06:41

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate-Nitrite	1.20	1.18	1	1.68		20

Laboratory Control Sample (LCS)

(LCS) R3643165-2 04/18/21 06:06

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Nitrate-Nitrite	2.50	2.49	99.6	90.0-110	

L1339469-13 Original Sample (OS) • Matrix Spike (MS)

(OS) L1339469-13 04/18/21 06:10 • (MS) R3643165-4 04/18/21 06:11

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Nitrate-Nitrite	2500	U	2340	93.6	1000	90.0-110	

L1339491-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339491-05 04/18/21 06:42 • (MS) R3643165-6 04/18/21 06:49 • (MSD) R3643165-7 04/18/21 06:50

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Nitrate-Nitrite	2.50	1.79	4.23	4.20	97.6	96.4	1	90.0-110			0.712	20

Method Blank (MB)

(MB) R3645251-1 04/21/21 11:16

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.379	1.00
Fluoride	U		0.0640	0.150
Sulfate	U		0.594	5.00

L1339493-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1339493-03 04/22/21 01:33 • (DUP) R3645251-3 04/22/21 01:46

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	3.18	3.21	1	0.908		15
Fluoride	0.0885	0.0971	1	9.27	J	15
Sulfate	U	U	1	0.000		15

L1339693-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1339693-01 04/22/21 04:49 • (DUP) R3645251-6 04/22/21 05:02

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	10.4	10.4	1	0.131		15
Fluoride	0.0980	0.0973	1	0.717	J	15
Sulfate	128	128	1	0.152	E	15

Laboratory Control Sample (LCS)

(LCS) R3645251-2 04/21/21 11:29

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	39.4	98.5	80.0-120	
Fluoride	8.00	8.29	104	80.0-120	
Sulfate	40.0	39.7	99.1	80.0-120	

L1339493-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339493-03 04/22/21 01:33 • (MS) R3645251-4 04/22/21 01:59 • (MSD) R3645251-5 04/22/21 02:12

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50.0	3.18	54.0	54.3	102	102	1	80.0-120			0.559	15
Fluoride	5.00	0.0885	5.17	5.21	102	102	1	80.0-120			0.777	15
Sulfate	50.0	U	51.4	51.8	103	104	1	80.0-120			0.702	15

L1339693-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1339693-01 04/22/21 04:49 • (MS) R3645251-7 04/22/21 05:15

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	10.4	60.7	101	1	80.0-120	
Fluoride	5.00	0.0980	5.01	98.2	1	80.0-120	
Sulfate	50.0	128	173	90.3	1	80.0-120	E

Method Blank (MB)

(MB) R3646146-1 04/23/21 00:32

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.379	1.00
Fluoride	U		0.0640	0.150
Sulfate	U		0.594	5.00

L1340036-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1340036-01 04/23/21 04:59 • (DUP) R3646146-3 04/23/21 05:16

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Fluoride	1.24	1.25	1	1.29		15

L1340036-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1340036-01 04/23/21 05:49 • (DUP) R3646146-5 04/23/21 06:05

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	395	398	10	0.711		15
Sulfate	383	383	10	0.126		15

L1340049-28 Original Sample (OS) • Duplicate (DUP)

(OS) L1340049-28 04/23/21 10:44 • (DUP) R3646146-6 04/23/21 11:33

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	0.456	0.454	1	0.439	J	15
Fluoride	U	U	1	0.000		15
Sulfate	U	U	1	0.000		15

Laboratory Control Sample (LCS)

(LCS) R3646146-2 04/23/21 00:48

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	38.4	96.1	80.0-120	
Fluoride	8.00	7.91	98.9	80.0-120	
Sulfate	40.0	38.6	96.6	80.0-120	

L1340036-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1340036-01 04/23/21 04:59 • (MS) R3646146-4 04/23/21 05:32

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	404	432	56.9	1	80.0-120	E V
Fluoride	5.00	1.24	5.92	93.6	1	80.0-120	
Sulfate	50.0	392	422	60.2	1	80.0-120	E V

L1340049-28 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1340049-28 04/23/21 10:44 • (MS) R3646146-7 04/23/21 11:50 • (MSD) R3646146-8 04/23/21 12:06

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50.0	0.456	49.4	49.4	97.8	97.9	1	80.0-120			0.131	15
Fluoride	5.00	U	4.97	4.98	99.4	99.5	1	80.0-120			0.109	15
Sulfate	50.0	U	49.0	49.1	98.0	98.1	1	80.0-120			0.0779	15

Method Blank (MB)

(MB) R3646670-1 04/26/21 11:14

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic,Dissolved	U		0.000180	0.00200
Barium,Dissolved	U		0.000381	0.0200
Chromium,Dissolved	U		0.00124	0.00200
Iron,Dissolved	U		0.0281	0.100
Lead,Dissolved	U		0.000849	0.00200
Manganese,Dissolved	0.00177	J	0.000704	0.00500
Selenium,Dissolved	U		0.000300	0.00200

Laboratory Control Sample (LCS)

(LCS) R3646670-2 04/26/21 11:17

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic,Dissolved	0.0500	0.0499	99.8	80.0-120	
Barium,Dissolved	0.0500	0.0486	97.2	80.0-120	
Chromium,Dissolved	0.0500	0.0526	105	80.0-120	
Iron,Dissolved	5.00	5.26	105	80.0-120	
Lead,Dissolved	0.0500	0.0498	99.5	80.0-120	
Manganese,Dissolved	0.0500	0.0596	119	80.0-120	
Selenium,Dissolved	0.0500	0.0489	97.8	80.0-120	

L1339810-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339810-07 04/26/21 11:20 • (MS) R3646670-4 04/26/21 11:27 • (MSD) R3646670-5 04/26/21 11:30

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic,Dissolved	0.0500	0.00169	0.0499	0.0511	96.5	98.9	1	75.0-125			2.39	20
Barium,Dissolved	0.0500	1.18	1.19	1.21	23.8	64.9	1	75.0-125	V	V	1.72	20
Chromium,Dissolved	0.0500	U	0.0522	0.0524	104	105	1	75.0-125			0.446	20
Iron,Dissolved	5.00	48.5	52.7	52.3	83.2	74.9	1	75.0-125		V	0.792	20
Lead,Dissolved	0.0500	U	0.0508	0.0507	102	101	1	75.0-125			0.0609	20
Manganese,Dissolved	0.0500	30.2	28.8	29.1	0.000	0.000	1	75.0-125	E V	E V	1.13	20
Selenium,Dissolved	0.0500	U	0.0544	0.0525	109	105	1	75.0-125			3.64	20

Method Blank (MB)

(MB) R3646752-1 04/26/21 14:38

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic	U		0.000180	0.00200
Barium	U		0.000381	0.0200
Calcium	U		0.0936	1.00
Chromium	U		0.00124	0.00200
Iron	U		0.0281	0.100
Lead	U		0.000849	0.00200
Manganese	U		0.000704	0.00500
Potassium	U		0.108	2.00
Selenium	U		0.000300	0.00200
Sodium	U		0.376	2.00

Laboratory Control Sample (LCS)

(LCS) R3646752-2 04/26/21 14:42

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	0.0500	0.0477	95.5	80.0-120	
Barium	0.0500	0.0480	95.9	80.0-120	
Calcium	5.00	4.96	99.1	80.0-120	
Chromium	0.0500	0.0514	103	80.0-120	
Iron	5.00	5.05	101	80.0-120	
Lead	0.0500	0.0488	97.6	80.0-120	
Manganese	0.0500	0.0510	102	80.0-120	
Potassium	5.00	4.72	94.4	80.0-120	
Selenium	0.0500	0.0505	101	80.0-120	
Sodium	5.00	5.57	111	80.0-120	

L1339469-25 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339469-25 04/26/21 14:45 • (MS) R3646752-4 04/26/21 14:52 • (MSD) R3646752-5 04/26/21 14:55

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	0.0500	0.00268	0.0516	0.0518	97.9	98.3	1	75.0-125			0.320	20
Barium	0.0500	0.0192	0.0654	0.0698	92.4	101	1	75.0-125			6.53	20
Calcium	5.00	585	597	601	243	330	1	75.0-125	V	V	0.727	20
Chromium	0.0500	0.00135	0.0519	0.0523	101	102	1	75.0-125			0.843	20
Potassium	5.00	3.64	8.37	8.27	94.5	92.7	1	75.0-125			1.11	20
Iron	5.00	0.264	5.33	5.16	101	97.9	1	75.0-125			3.28	20
Lead	0.0500	0.000893	0.0503	0.0491	98.8	96.5	1	75.0-125			2.26	20

L1339469-25 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339469-25 04/26/21 14:45 • (MS) R3646752-4 04/26/21 14:52 • (MSD) R3646752-5 04/26/21 14:55

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Manganese	0.0500	0.0507	0.0998	0.100	98.2	99.2	1	75.0-125			0.464	20
Selenium	0.0500	0.0114	0.0638	0.0640	105	105	1	75.0-125			0.281	20
Sodium	5.00	273	287	281	270	146	1	75.0-125	V	V	2.18	20

Method Blank (MB)

(MB) R3647290-1 04/27/21 15:51

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic	U		0.000180	0.00200
Barium	U		0.000381	0.0200
Calcium	U		0.0936	1.00
Chromium	U		0.00124	0.00200
Iron	U		0.0281	0.100
Lead	U		0.000849	0.00200
Manganese	U		0.000704	0.00500
Potassium	U		0.108	2.00
Selenium	U		0.000300	0.00200
Sodium	U		0.376	2.00

Laboratory Control Sample (LCS)

(LCS) R3647290-2 04/27/21 15:55

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	0.0500	0.0519	104	80.0-120	
Barium	0.0500	0.0504	101	80.0-120	
Calcium	5.00	5.03	101	80.0-120	
Chromium	0.0500	0.0536	107	80.0-120	
Iron	5.00	5.29	106	80.0-120	
Lead	0.0500	0.0526	105	80.0-120	
Manganese	0.0500	0.0531	106	80.0-120	
Potassium	5.00	5.16	103	80.0-120	
Selenium	0.0500	0.0528	106	80.0-120	
Sodium	5.00	5.39	108	80.0-120	

L1339491-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339491-03 04/27/21 15:58 • (MS) R3647290-4 04/27/21 16:05 • (MSD) R3647290-5 04/27/21 16:08

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	0.0500	0.0132	0.0596	0.0655	92.8	105	1	75.0-125			9.52	20
Barium	0.0500	0.0139	0.0644	0.0642	101	100	1	75.0-125			0.271	20
Calcium	5.00	451	447	458	0.000	142	1	75.0-125	V	V	2.48	20
Chromium	0.0500	0.00131	0.0500	0.0561	97.5	110	1	75.0-125			11.4	20
Potassium	5.00	7.06	11.9	12.0	97.3	99.5	1	75.0-125			0.898	20
Iron	5.00	0.305	5.19	5.71	97.6	108	1	75.0-125			9.56	20
Lead	0.0500	U	0.0516	0.0531	103	106	1	75.0-125			2.90	20

L1339491-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339491-03 04/27/21 15:58 • (MS) R3647290-4 04/27/21 16:05 • (MSD) R3647290-5 04/27/21 16:08

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Manganese	0.0500	0.663	0.674	0.711	22.1	96.7	1	75.0-125	V		5.39	20
Selenium	0.0500	0.00303	0.0578	0.0583	109	110	1	75.0-125			0.844	20
Sodium	5.00	139	146	149	147	212	1	75.0-125	V	V	2.21	20

Method Blank (MB)

(MB) R3646309-1 04/25/21 19:35

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic,Dissolved	U		0.000180	0.00200
Barium,Dissolved	U		0.000381	0.0200
Chromium,Dissolved	U		0.00124	0.00200
Iron,Dissolved	U		0.0281	0.100
Lead,Dissolved	U		0.000849	0.00200
Manganese,Dissolved	U		0.000704	0.00500
Selenium,Dissolved	U		0.000300	0.00200

Laboratory Control Sample (LCS)

(LCS) R3646309-2 04/25/21 19:39

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic,Dissolved	0.0500	0.0480	95.9	80.0-120	
Barium,Dissolved	0.0500	0.0492	98.4	80.0-120	
Chromium,Dissolved	0.0500	0.0491	98.2	80.0-120	
Iron,Dissolved	5.00	4.89	97.8	80.0-120	
Lead,Dissolved	0.0500	0.0479	95.8	80.0-120	
Manganese,Dissolved	0.0500	0.0486	97.2	80.0-120	
Selenium,Dissolved	0.0500	0.0525	105	80.0-120	

L1339469-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339469-08 04/25/21 19:42 • (MS) R3646309-4 04/25/21 19:49 • (MSD) R3646309-5 04/25/21 19:52

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic,Dissolved	0.0500	0.00315	0.0515	0.0503	96.6	94.4	1	75.0-125			2.19	20
Barium,Dissolved	0.0500	0.0100	0.0578	0.0559	95.6	91.7	1	75.0-125			3.38	20
Chromium,Dissolved	0.0500	U	0.0474	0.0466	94.8	93.2	1	75.0-125			1.62	20
Iron,Dissolved	5.00	U	4.79	4.61	95.9	92.3	1	75.0-125			3.84	20
Lead,Dissolved	0.0500	U	0.0473	0.0469	94.6	93.8	1	75.0-125			0.804	20
Manganese,Dissolved	0.0500	0.400	0.456	0.440	112	80.1	1	75.0-125			3.57	20
Selenium,Dissolved	0.0500	U	0.0511	0.0532	102	106	1	75.0-125			3.89	20

Method Blank (MB)

(MB) R3644761-2 04/19/21 19:22

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0113	0.0500
Benzene	U		0.0000941	0.00100
Bromodichloromethane	U		0.000136	0.00100
Bromoform	U		0.000129	0.00100
Bromomethane	U		0.000605	0.00500
n-Butylbenzene	U		0.000157	0.00100
sec-Butylbenzene	U		0.000125	0.00100
Carbon disulfide	U		0.0000962	0.00100
Carbon tetrachloride	U		0.000128	0.00100
Chlorobenzene	U		0.000116	0.00100
Chlorodibromomethane	U		0.000140	0.00100
Chloroethane	U		0.000192	0.00500
Chloroform	U		0.000111	0.00500
Chloromethane	U		0.000960	0.00250
1,2-Dibromoethane	U		0.000126	0.00100
1,1-Dichloroethane	U		0.000100	0.00100
1,2-Dichloroethane	U		0.0000819	0.00100
1,1-Dichloroethene	U		0.000188	0.00100
cis-1,2-Dichloroethene	U		0.000126	0.00100
trans-1,2-Dichloroethene	U		0.000149	0.00100
1,2-Dichloropropane	U		0.000149	0.00100
cis-1,3-Dichloropropene	U		0.000111	0.00100
trans-1,3-Dichloropropene	U		0.000118	0.00100
Ethylbenzene	U		0.000137	0.00100
2-Hexanone	U		0.000787	0.0100
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
Methylene Chloride	U		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100
Methyl tert-butyl ether	U		0.000101	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.0000993	0.00100
Styrene	U		0.000118	0.00100
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100
Tetrachloroethene	U		0.000300	0.00100
Toluene	U		0.000278	0.00100
1,1,1-Trichloroethane	U		0.000149	0.00100
1,1,2-Trichloroethane	U		0.000158	0.00100

Method Blank (MB)

(MB) R3644761-2 04/19/21 19:22

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Trichloroethene	U		0.000190	0.00100
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
Vinyl chloride	U		0.000234	0.00100
Xylenes, Total	U		0.000174	0.00300
o-Xylene	U		0.000174	0.00100
m&p-Xylenes	U		0.000430	0.00200
(S) Toluene-d8	*103*			*80.0-120*
(S) 4-Bromofluorobenzene	*97.4*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3644761-1 04/19/21 18:21

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.0250	0.0217	86.8	19.0-160	
Benzene	0.00500	0.00515	103	70.0-123	
Bromodichloromethane	0.00500	0.00549	110	75.0-120	
Bromoform	0.00500	0.00483	96.6	68.0-132	
Bromomethane	0.00500	0.00587	117	10.0-160	
n-Butylbenzene	0.00500	0.00524	105	73.0-125	
sec-Butylbenzene	0.00500	0.00511	102	75.0-125	
Carbon disulfide	0.00500	0.00526	105	61.0-128	
Carbon tetrachloride	0.00500	0.00487	97.4	68.0-126	
Chlorobenzene	0.00500	0.00505	101	80.0-121	
Chlorodibromomethane	0.00500	0.00521	104	77.0-125	
Chloroethane	0.00500	0.00630	126	47.0-150	
Chloroform	0.00500	0.00548	110	73.0-120	
Chloromethane	0.00500	0.00569	114	41.0-142	
1,2-Dibromoethane	0.00500	0.00501	100	80.0-122	
1,1-Dichloroethane	0.00500	0.00562	112	70.0-126	
1,2-Dichloroethane	0.00500	0.00524	105	70.0-128	
1,1-Dichloroethene	0.00500	0.00531	106	71.0-124	
cis-1,2-Dichloroethene	0.00500	0.00525	105	73.0-120	
trans-1,2-Dichloroethene	0.00500	0.00565	113	73.0-120	
1,2-Dichloropropane	0.00500	0.00555	111	77.0-125	
cis-1,3-Dichloropropene	0.00500	0.00524	105	80.0-123	
trans-1,3-Dichloropropene	0.00500	0.00492	98.4	78.0-124	

Laboratory Control Sample (LCS)

(LCS) R3644761-1 04/19/21 18:21

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ethylbenzene	0.00500	0.00518	104	79.0-123	
2-Hexanone	0.0250	0.0211	84.4	67.0-149	
Isopropylbenzene	0.00500	0.00551	110	76.0-127	
p-Isopropyltoluene	0.00500	0.00527	105	76.0-125	
2-Butanone (MEK)	0.0250	0.0209	83.6	44.0-160	
Methylene Chloride	0.00500	0.00523	105	67.0-120	
4-Methyl-2-pentanone (MIBK)	0.0250	0.0236	94.4	68.0-142	
Methyl tert-butyl ether	0.00500	0.00534	107	68.0-125	
Naphthalene	0.00500	0.00412	82.4	54.0-135	
n-Propylbenzene	0.00500	0.00488	97.6	77.0-124	
Styrene	0.00500	0.00499	99.8	73.0-130	
1,1,1,2-Tetrachloroethane	0.00500	0.00521	104	75.0-125	
1,1,2,2-Tetrachloroethane	0.00500	0.00434	86.8	65.0-130	
Tetrachloroethene	0.00500	0.00546	109	72.0-132	
Toluene	0.00500	0.00489	97.8	79.0-120	
1,1,1-Trichloroethane	0.00500	0.00558	112	73.0-124	
1,1,2-Trichloroethane	0.00500	0.00503	101	80.0-120	
Trichloroethene	0.00500	0.00573	115	78.0-124	
1,2,4-Trimethylbenzene	0.00500	0.00487	97.4	76.0-121	
1,3,5-Trimethylbenzene	0.00500	0.00506	101	76.0-122	
Vinyl chloride	0.00500	0.00522	104	67.0-131	
Xylenes, Total	0.0150	0.0157	105	79.0-123	
o-Xylene	0.00500	0.00507	101	80.0-122	
m&p-Xylenes	0.0100	0.0106	106	80.0-122	
(S) Toluene-d8			*100*	*80.0-120*	
(S) 4-Bromofluorobenzene			*103*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*108*	*70.0-130*	

Method Blank (MB)

(MB) R3646261-1 04/24/21 01:00

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) High Fraction	U		0.0247	0.100
(S) o-Terphenyl	*77.0*			*31.0-160*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3646261-2 04/24/21 01:20 • (LCSD) R3646261-3 04/24/21 01:40

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) High Fraction	1.50	1.48	1.45	98.7	96.7	50.0-150			2.05	20
(S) o-Terphenyl				*107*	*110*	*31.0-160*				

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
V	The sample concentration is too high to evaluate accurate spike recoveries.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

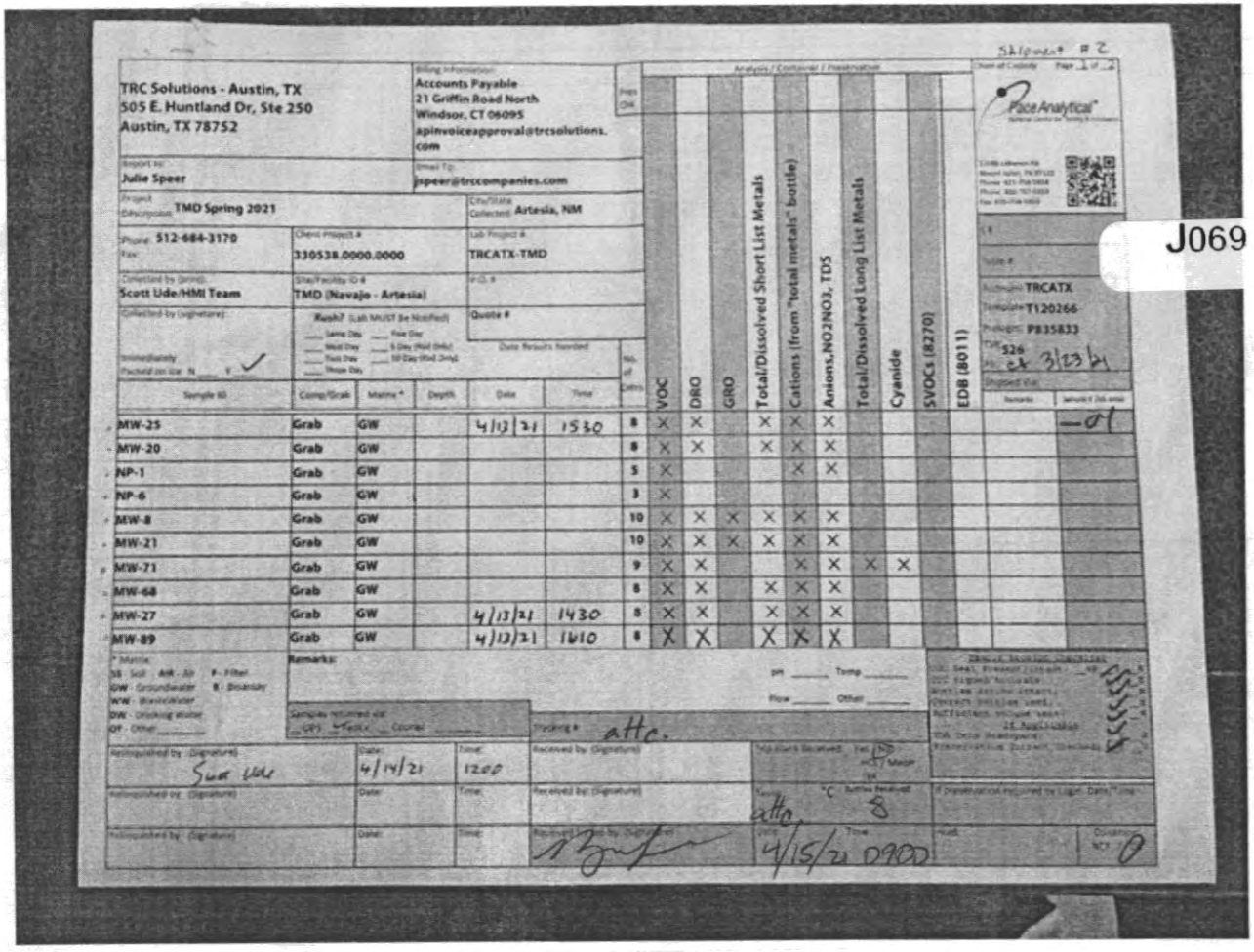
[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

U133946891

J069



TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Julie Speer
jspeer@trccompanies.com

Project Description: TMD Spring 2021
City/State Collected: Artesia, NM

Phone: 512-684-3170
Client Project #: 330538.0000.0000
Lab Project #: TRCATX-TMD

Collected by (print): Scott Ude/HMI Team
Site/Facility ID #: TMD (Navajo - Artesia)

Collected by (signature):
Rush? (Lab MUST Be Notified) Same Day, Next Day, Two Day, Three Day, Four Day, Five Day, Six Day, Ten Day
Quote #
Date Results Needed
Immediately Packed on Ice: N ___ Y ✓

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions,NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Remarks	Sample # (lab only)
MW-25	Grab	GW		4/13/21	1530	8	X	X		X	X	X						-01
MW-20	Grab	GW				8	X	X		X	X	X						
NP-1	Grab	GW				5	X				X	X						
NP-6	Grab	GW				3	X											
MW-8	Grab	GW				10	X	X	X	X	X	X						
MW-21	Grab	GW				10	X	X	X	X	X	X						
MW-71	Grab	GW				9	X	X			X	X	X	X				
MW-68	Grab	GW				8	X	X		X	X	X						
MW-27	Grab	GW		4/13/21	1430	8	X	X		X	X	X						
MW-89	Grab	GW		4/13/21	1610	8	X	X		X	X	X						

* Matrix: SS - Soil, AIR - Air, F - Filter, GW - Groundwater, B - Bioassay, WW - Wastewater, DW - Drinking Water, OT - Other

Remarks:
pH ___ Temp ___
Flow ___ Other ___
Samples returned via: UPS FedEx Courier ___
Tracking # attc.

Relinquished by (Signature)	Date:	Time:	Received by (Signature)	Samples received at:	°C	Bottles Received
Scott Ude	4/14/21	1200			attc.	8
Relinquished by (Signature)	Date:	Time:	Received by (Signature)			If preservation required by Login: Date/Time
Relinquished by (Signature)	Date:	Time:	Received by (Signature)	Date: 4/15/21	Time: 0900	Hold:	Condition (lab use): 0

Analysis / Container / Preservative

Chain of Custody Page 1 of 2

Pace Analytical

Lab #
Table #
Acctnum: TRCATX
Template: T120266
Prelogin: P835833
TSR: 526
PB: ck 3/23/21
Shipped Via:

Shipment # 2

3

L133949

Shipment #2

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Report to: Julie Speer
Email To: jspeer@trccompanies.com

Project Description: TMD Spring 2021
City/State Collected: Artesia, NM

Phone: 512-684-3170
Client Project #: 330538.0000.0000
Lab Project #: TRCATX-TMD

Collected by (print): Scott Ude/HMI Team
Site/Facility ID #: TMD (Navajo - Artesia)
P.O. #:

Collected by (signature):
Immediately Packed on Ice: N ___ Y ✓
Rush? (Lab MUST Be Notified): ___ Same Day ___ Next Day ___ Next Day ___ 5 Day (Rad Only) ___ Two Day ___ 10 Day (Rad Only) ___ Three Day
Quote #:
Date Results Needed:

Analysis / Container / Preservative

Chain of Custody Page 2 of 2

Pace Analytical

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions,NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)
MW-16	Grab	GW		4/13/21	1525	8	X	X		X	X	X				
MW-26	Grab	GW		4/13/21	1655	8	X	X		X	X	X				
MW-46R	Grab	GW				8	X	X		X	X	X				
Trip Blank-TMD-01	Grab	GW				1	X									

Lab #:
Table #:
Acctnum: TRCATX
Template: T120266
Prelogin: P835833
TSR: 526
PB: 4/23/21
Shipped Via:
Remarks | Sample # (lab only)

* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - Wastewater DW - Drinking Water OT - Other

Remarks:
pH ___ Temp ___
Flow ___ Other ___

Samples returned via: ___ UPS ___ FedEx ___ Courier ___
Tracking # atlc.

Relinquished by: (Signature) Scott Ude | Date: 4/14/21 | Time: 1200 | Received by: (Signature)
Relinquished by: (Signature) | Date: | Time: | Received by: (Signature)
Relinquished by: (Signature) | Date: | Time: | Received for lab by: (Signature)

Trip Blank Received: Yes / No HCL / Meoh TBR
Temp: atlc. °C | Bottles Received: 8
Date: 4/15/21 | Time: 0900

Sample Receipt Checklist
COC Seals Present/Intact: ___ Y ___ N
COC Signed/Accurate: ___ Y ___ N
Bottles arrive intact: ___ Y ___ N
Correct bottles used: ___ Y ___ N
Sufficient volume sent: ___ Y ___ N
If Applicable
VOA Zero Headspace: ___ Y ___ N
Preservation Correct/Checked: ✓ Y ___ N

If preservation required by Login: Date/Time
Hold: Condition: NCF / OK

4

Page 589 of 1716

21339491

FedEx Tracking #:	Corresponding Temp:
9517 5771 3003	1.8 + .3 = 2.1 A2 OT
5770 9283	2.5 + .3 = 2.1 A2 OT
5771 3172	2.6 ± 0 = 2.6 A7 KH
2990	1.9 ± 0 = 1.9
5016 1220 5832	2.1 ± 0 = 2.1
9517 5771 3183	1.8 + .3 = 2.1 A2 OT
5770 9261	2.1 ± 0 = 2.1 A7 KH
5016 1217 2080	1.1 + .3 = 1.4 A2 OT
1220 5843	1.8 + .3 = 2.1
9517 5770 9309	2.1 ± 0 = 2.1 A7 KH
5016 1220 5854	1.1 + .3 = 1.4 A2 OT
9517 5770 9272	0.5 ± 0 = 0.5 A7 KH
5771 3117	1.8 ± 0 = 1.8
5016 1217 2090	0.3 + .3 = 0.6 A2 OT
9159 8784 8000	1.5 ± 0 = 1.5 A7 KH

Received by OCD: 1/9/2025 2:41:44 PM

Released to Imaging: 2/7/2025 11:08:22 AM

Shipment # 2

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com**

Project Description: **TMD Spring 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **330538.0000.0000**

Lab Project # **TRCATX-TMD**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **TMD (Navajo - Artesia)**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Chain of Custody Page 1 of 2

Pace Analytical® National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# ~~L1339415~~ J073 L1339491 KO

Acctnum: TRCATX

Template: T120266

Prelogin: P835833

TSR: 526

PB: cs 3/23/21

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions,NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Remarks	Sample # (lab only)
MW-25	Grab	GW		4/13/21	1530	8	X	X		X	X	X						-01
MW-20	Grab	GW				8	X	X		X	X	X						
NP-1	Grab	GW				5	X				X	X						
NP-6	Grab	GW				3	X											
MW-8	Grab	GW				10	X	X	X	X	X	X						
MW-21	Grab	GW				10	X	X	X	X	X	X						
MW-71	Grab	GW				9	X	X			X	X	X	X				
MW-68	Grab	GW				8	X	X		X	X	X						
MW-27	Grab	GW		4/13/21	1430	8	X	X		X	X	X						-02
MW-89	Grab	GW		4/13/21	1610	8	X	X		X	X	X						-03

Immediately Packed on Ice N ___ Y ✓

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

4 temps for coolers received HW 16. KO Other _____

Samples returned via: __ UPS ✓FedEx __ Courier __ _____

Tracking # 9517 5771 0508 0.5 2989 0.5

Sample Receipt Checklist
COC Seal Present/Intact: NP ✓Y __N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: ✓Y __N
Correct bottles used: ✓Y __N
Sufficient volume sent: ✓Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/14/21	1200	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: Yes / ~~No~~ HCL / MeoH TBR

Temp: 1.3 °C Bottles Received: 24

0.2+1.3=0.5

Date: 4/15/21 Time: 0900

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com**

Project Description: **TMD Spring 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **330538.0000.0000**

Lab Project # **TRCATX-TMD**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **TMD (Navajo - Artesia)**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page 2 of 2

Pace Analytical® National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L1339491

Table #

Acctnum: TRCATX
Template: T120266
Prelogin: P835833
TSR: 526
PB: 4/23/21

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions,NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Remarks	Sample # (lab only)
MW-16	Grab	GW		4/13/21	1525	8	X	X		X	X	X						-04
MW-26	Grab	GW		4/13/21	1655	8	X	X		X	X	X						-05
MW-46R	Grab	GW				8	X	X		X	X	X						
Trip Blank-TMD-01	Grab	GW				1	X											

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP ✓Y __N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: ✓Y __N
Correct bottles used: ✓Y __N
Sufficient volume sent: ✓Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Scott Ude	4/14/21	1200		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4.2 °C Bottles Received: 14
				0.2+3.0=5
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4/15/21 Time: 0900

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

ANALYTICAL REPORT

April 29, 2021

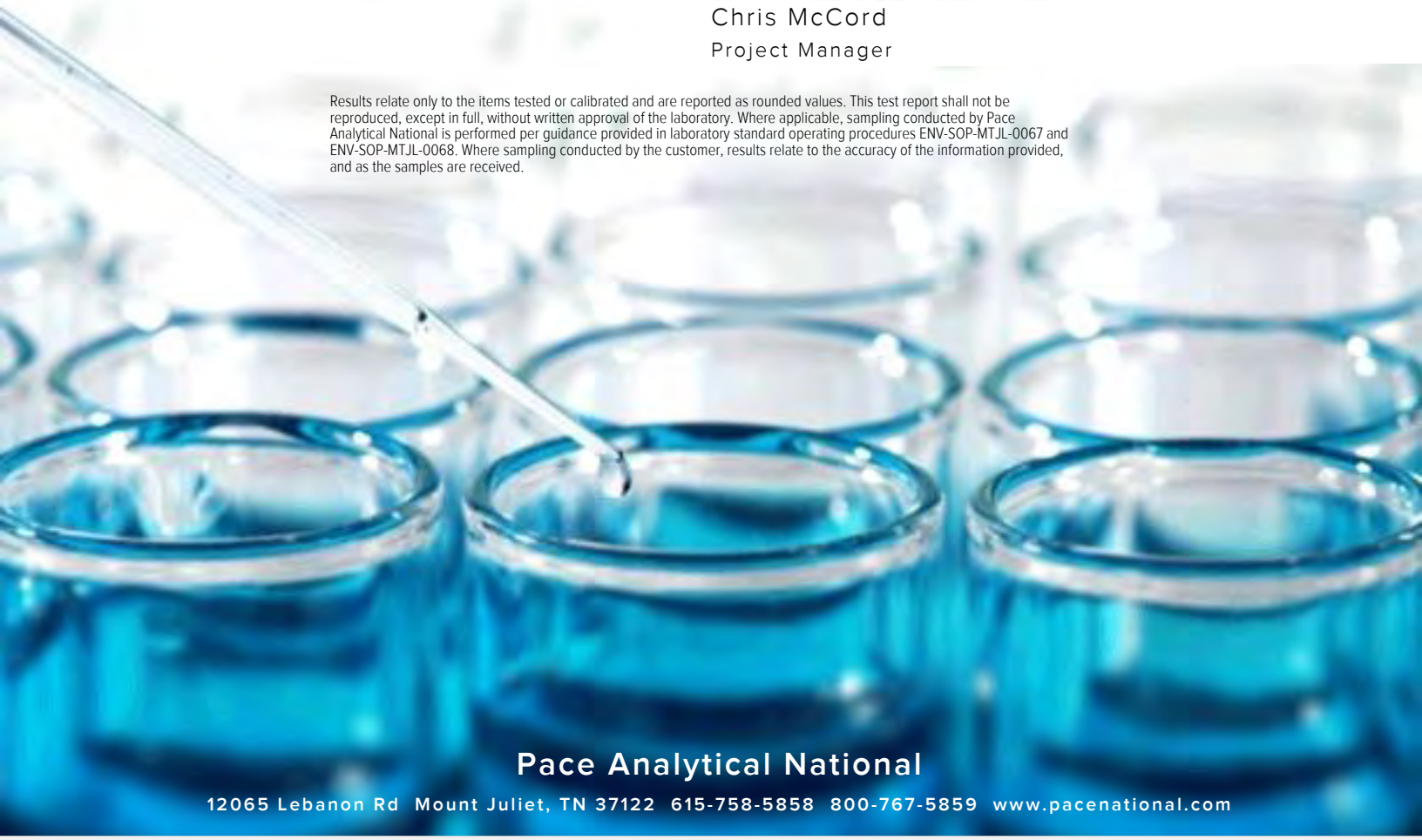
TRC Solutions - Austin, TX

Sample Delivery Group:	L1340036
Samples Received:	04/16/2021
Project Number:	425135.0000.0000
Description:	TEL Spring 2021
Site:	TEL - NAVAJO-ARTESIA
Report To:	Julie Speer
	505 E. Huntland Dr, Ste 250
	Austin, TX 78752

Entire Report Reviewed By:

Chris McCord
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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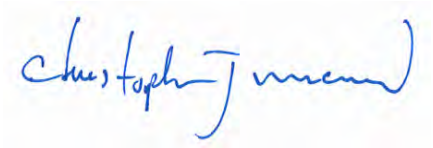
SAMPLE SUMMARY

MW-49 L1340036-01 GW

	Collected by	Collected date/time	Received date/time
	SU / HMI Team	04/14/21 09:00	04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1655174	1	04/20/21 12:01	04/20/21 17:58	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1655668	100	04/22/21 03:55	04/22/21 03:55	SDL	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG1657212	25	04/22/21 19:18	04/26/21 14:16	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657191	1	04/23/21 04:59	04/23/21 04:59	MSP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657191	10	04/23/21 05:49	04/23/21 05:49	MSP	Mt. Juliet, TN
Mercury by Method 7470A	WG1654191	1	04/21/21 17:44	04/22/21 09:14	SD	Mt. Juliet, TN
Mercury by Method 7470A	WG1654201	1	04/22/21 10:38	04/22/21 14:09	SD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1656881	1	04/27/21 10:03	04/27/21 14:14	EL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1657951	1	04/23/21 19:43	04/24/21 03:41	KMG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656505	1	04/27/21 03:08	04/27/21 11:11	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656898	1	04/27/21 11:02	04/27/21 17:18	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1658422	1	04/26/21 01:41	04/26/21 01:41	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654383	25	04/20/21 01:46	04/20/21 01:46	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656969	1	04/22/21 17:13	04/23/21 04:19	TJD	Mt. Juliet, TN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Chris McCord
Project Manager

Sample Delivery Group (SDG) Narrative

pH outside of method requirement.

Lab Sample ID	Project Sample ID	Method
L1340036-01	MW-49	3511/8015

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	1900		50.0	1	04/20/2021 17:58	WG1655174

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		5.00	10.0	100	04/22/2021 03:55	WG1655668

Wet Chemistry by Method 4500CN E-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Cyanide	0.0990	J	0.0450	0.125	25	04/26/2021 14:16	WG1657212

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	395		3.79	10.0	10	04/23/2021 05:49	WG1657191
Fluoride	1.24		0.0640	0.150	1	04/23/2021 04:59	WG1657191
Sulfate	383		5.94	50.0	10	04/23/2021 05:49	WG1657191

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.000100	0.000200	1	04/22/2021 09:14	WG1654191
Mercury,Dissolved	U		0.000100	0.000200	1	04/22/2021 14:09	WG1654201

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Boron	0.691		0.0200	0.200	1	04/27/2021 14:14	WG1656881
Boron,Dissolved	0.695		0.0200	0.200	1	04/24/2021 03:41	WG1657951

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00564		0.000180	0.00200	1	04/27/2021 17:18	WG1656898
Arsenic,Dissolved	0.00551		0.000180	0.00200	1	04/27/2021 11:11	WG1656505
Barium	0.0467		0.000381	0.0200	1	04/27/2021 17:18	WG1656898
Barium,Dissolved	0.0465		0.000381	0.0200	1	04/27/2021 11:11	WG1656505
Cadmium	U		0.000150	0.00100	1	04/27/2021 17:18	WG1656898
Cadmium,Dissolved	U		0.000150	0.00100	1	04/27/2021 11:11	WG1656505
Calcium	184		0.0936	1.00	1	04/27/2021 17:18	WG1656898
Chromium	U		0.00124	0.00200	1	04/27/2021 17:18	WG1656898
Chromium,Dissolved	U		0.00124	0.00200	1	04/27/2021 11:11	WG1656505
Cobalt	U		0.0000596	0.00200	1	04/27/2021 17:18	WG1656898
Cobalt,Dissolved	0.000177	J	0.0000596	0.00200	1	04/27/2021 11:11	WG1656505
Iron	0.113		0.0281	0.100	1	04/27/2021 17:18	WG1656898
Iron,Dissolved	0.0660	J	0.0281	0.100	1	04/27/2021 11:11	WG1656505
Lead	U		0.000849	0.00200	1	04/27/2021 17:18	WG1656898
Lead,Dissolved	0.000955	J	0.000849	0.00200	1	04/27/2021 11:11	WG1656505
Manganese	0.295		0.000704	0.00500	1	04/27/2021 17:18	WG1656898
Manganese,Dissolved	0.279		0.000704	0.00500	1	04/27/2021 11:11	WG1656505
Nickel	0.00991		0.000816	0.00200	1	04/27/2021 17:18	WG1656898
Nickel,Dissolved	0.0104		0.000816	0.00200	1	04/27/2021 11:11	WG1656505

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Potassium	1.81	J	0.108	2.00	1	04/27/2021 17:18	WG1656898
Selenium	U		0.000300	0.00200	1	04/27/2021 17:18	WG1656898
Selenium,Dissolved	U		0.000300	0.00200	1	04/27/2021 11:11	WG1656505
Sodium	333		0.376	2.00	1	04/27/2021 17:18	WG1656898
Uranium	U		0.0000700	0.0200	1	04/27/2021 17:18	WG1656898
Uranium,Dissolved	U		0.0000700	0.0200	1	04/27/2021 11:11	WG1656505
Vanadium	U		0.000664	0.00500	1	04/27/2021 17:18	WG1656898
Vanadium,Dissolved	U		0.000664	0.00500	1	04/27/2021 11:11	WG1656505

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	2.56		0.0314	0.100	1	04/26/2021 01:41	WG1658422
(S) a,a,a-Trifluorotoluene(FID)	*105*			*78.0-120*		*04/26/2021 01:41*	WG1658422

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.282	1.25	25	04/20/2021 01:46	WG1654383
Benzene	0.280		0.00235	0.0250	25	04/20/2021 01:46	WG1654383
Bromodichloromethane	U		0.00340	0.0250	25	04/20/2021 01:46	WG1654383
Bromoform	U		0.00322	0.0250	25	04/20/2021 01:46	WG1654383
Bromomethane	U		0.0151	0.125	25	04/20/2021 01:46	WG1654383
n-Butylbenzene	U		0.00393	0.0250	25	04/20/2021 01:46	WG1654383
sec-Butylbenzene	0.00546	J	0.00313	0.0250	25	04/20/2021 01:46	WG1654383
Carbon disulfide	U		0.00241	0.0250	25	04/20/2021 01:46	WG1654383
Carbon tetrachloride	U		0.00320	0.0250	25	04/20/2021 01:46	WG1654383
Chlorobenzene	U		0.00290	0.0250	25	04/20/2021 01:46	WG1654383
Chlorodibromomethane	U		0.00350	0.0250	25	04/20/2021 01:46	WG1654383
Chloroethane	U		0.00480	0.125	25	04/20/2021 01:46	WG1654383
Chloroform	U		0.00278	0.125	25	04/20/2021 01:46	WG1654383
Chloromethane	U		0.0240	0.0625	25	04/20/2021 01:46	WG1654383
1,2-Dibromoethane	U		0.00315	0.0250	25	04/20/2021 01:46	WG1654383
1,1-Dichloroethane	U		0.00250	0.0250	25	04/20/2021 01:46	WG1654383
1,2-Dichloroethane	U		0.00205	0.0250	25	04/20/2021 01:46	WG1654383
1,1-Dichloroethene	U		0.00470	0.0250	25	04/20/2021 01:46	WG1654383
cis-1,2-Dichloroethene	U		0.00315	0.0250	25	04/20/2021 01:46	WG1654383
trans-1,2-Dichloroethene	U		0.00373	0.0250	25	04/20/2021 01:46	WG1654383
1,2-Dichloropropane	U		0.00373	0.0250	25	04/20/2021 01:46	WG1654383
cis-1,3-Dichloropropene	U		0.00278	0.0250	25	04/20/2021 01:46	WG1654383
trans-1,3-Dichloropropene	U		0.00295	0.0250	25	04/20/2021 01:46	WG1654383
Ethylbenzene	0.00827	J	0.00343	0.0250	25	04/20/2021 01:46	WG1654383
Isopropylbenzene	0.0291		0.00263	0.0250	25	04/20/2021 01:46	WG1654383
p-Isopropyltoluene	U		0.00300	0.0250	25	04/20/2021 01:46	WG1654383
2-Butanone (MEK)	U		0.0298	0.250	25	04/20/2021 01:46	WG1654383
2-Hexanone	U		0.0197	0.250	25	04/20/2021 01:46	WG1654383
Methylene Chloride	U		0.0107	0.125	25	04/20/2021 01:46	WG1654383
4-Methyl-2-pentanone (MIBK)	U		0.0120	0.250	25	04/20/2021 01:46	WG1654383
Methyl tert-butyl ether	0.257		0.00253	0.0250	25	04/20/2021 01:46	WG1654383
Naphthalene	U		0.0250	0.125	25	04/20/2021 01:46	WG1654383
n-Propylbenzene	0.0268		0.00248	0.0250	25	04/20/2021 01:46	WG1654383
Styrene	U		0.00295	0.0250	25	04/20/2021 01:46	WG1654383
1,1,1,2-Tetrachloroethane	U		0.00368	0.0250	25	04/20/2021 01:46	WG1654383
1,1,2,2-Tetrachloroethane	U		0.00333	0.0250	25	04/20/2021 01:46	WG1654383
Tetrachloroethene	U		0.00750	0.0250	25	04/20/2021 01:46	WG1654383

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Toluene	U		0.00695	0.0250	25	04/20/2021 01:46	WG1654383
1,1,1-Trichloroethane	U		0.00373	0.0250	25	04/20/2021 01:46	WG1654383
1,1,2-Trichloroethane	U		0.00395	0.0250	25	04/20/2021 01:46	WG1654383
Trichloroethene	U		0.00475	0.0250	25	04/20/2021 01:46	WG1654383
1,2,4-Trimethylbenzene	0.0527		0.00805	0.0250	25	04/20/2021 01:46	WG1654383
1,3,5-Trimethylbenzene	0.0105	J	0.00260	0.0250	25	04/20/2021 01:46	WG1654383
Vinyl chloride	U		0.00585	0.0250	25	04/20/2021 01:46	WG1654383
o-Xylene	U		0.00435	0.0250	25	04/20/2021 01:46	WG1654383
m&p-Xylene	0.0793		0.0107	0.0500	25	04/20/2021 01:46	WG1654383
Xylenes, Total	0.0793		0.00435	0.0750	25	04/20/2021 01:46	WG1654383
(S) Toluene-d8	*114*			*80.0-120*		*04/20/2021 01:46*	WG1654383
(S) 4-Bromofluorobenzene	*104*			*77.0-126*		*04/20/2021 01:46*	WG1654383
(S) 1,2-Dichloroethane-d4	*93.1*			*70.0-130*		*04/20/2021 01:46*	WG1654383

Sample Narrative:

L1340036-01 WG1654383: Non-target and target compounds too high to run at a lower dilution.

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	6.65		0.0247	0.100	1	04/23/2021 04:19	WG1656969
(S) o-Terphenyl	*111*			*31.0-160*		*04/23/2021 04:19*	WG1656969

Method Blank (MB)

(MB) R3644711-1 04/20/21 17:58

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1340036-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1340036-01 04/20/21 17:58 • (DUP) R3644711-3 04/20/21 17:58

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	1900	1970	1	3.88		5

L1340040-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1340040-02 04/20/21 17:58 • (DUP) R3644711-4 04/20/21 17:58

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	2860	2900	1	1.56		5

Laboratory Control Sample (LCS)

(LCS) R3644711-2 04/20/21 17:58

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8720	99.1	77.4-123	

Method Blank (MB)

(MB) R3644891-1 04/22/21 03:32

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Nitrate-Nitrite	U		0.0500	0.100

L1339903-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1339903-01 04/22/21 03:48 • (DUP) R3644891-3 04/22/21 03:50

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate-Nitrite	0.996	0.997	1	0.100		20

L1340040-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1340040-01 04/22/21 03:56 • (DUP) R3644891-5 04/22/21 03:57

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate-Nitrite	0.0756	0.0714	1	5.71	J	20

Laboratory Control Sample (LCS)

(LCS) R3644891-2 04/22/21 03:33

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Nitrate-Nitrite	2.50	2.54	102	90.0-110	

L1339903-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1339903-02 04/22/21 03:51 • (MS) R3644891-4 04/22/21 03:52

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Nitrate-Nitrite	2.50	0.0661	2.39	93.0	1	90.0-110	

L1340040-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1340040-02 04/22/21 04:02 • (MS) R3644891-6 04/22/21 04:04 • (MSD) R3644891-7 04/22/21 04:05

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Nitrate-Nitrite	2.50	0.252	2.73	2.76	99.1	100	1	90.0-110			1.09	20

Method Blank (MB)

(MB) R3646710-1 04/26/21 14:04

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Cyanide	U		0.00180	0.00500

L1338910-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1338910-04 04/26/21 14:11 • (DUP) R3646710-5 04/26/21 14:12

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	U	U	1	0.000		20

L1340140-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1340140-01 04/26/21 14:32 • (DUP) R3646710-8 04/26/21 14:33

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	0.00326	0.00321	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3646710-2 04/26/21 14:05

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Cyanide	0.100	0.102	102	87.1-120	

L1338910-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1338910-02 04/26/21 14:08 • (MS) R3646710-3 04/26/21 14:09 • (MSD) R3646710-4 04/26/21 14:10

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Cyanide	0.100	U	0.0947	0.0905	94.7	90.5	1	90.0-110			4.54	20

L1340127-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1340127-03 04/26/21 14:25 • (MS) R3646710-6 04/26/21 14:26 • (MSD) R3646710-7 04/26/21 14:29

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Cyanide	0.100	U	0.0982	0.0975	98.2	97.5	1	90.0-110			0.715	20

Method Blank (MB)

(MB) R3646146-1 04/23/21 00:32

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.379	1.00
Fluoride	U		0.0640	0.150
Sulfate	U		0.594	5.00

L1340036-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1340036-01 04/23/21 04:59 • (DUP) R3646146-3 04/23/21 05:16

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Fluoride	1.24	1.25	1	1.29		15

L1340036-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1340036-01 04/23/21 05:49 • (DUP) R3646146-5 04/23/21 06:05

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	395	398	10	0.711		15
Sulfate	383	383	10	0.126		15

L1340049-28 Original Sample (OS) • Duplicate (DUP)

(OS) L1340049-28 04/23/21 10:44 • (DUP) R3646146-6 04/23/21 11:33

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	0.456	0.454	1	0.439	J	15
Fluoride	U	U	1	0.000		15
Sulfate	U	U	1	0.000		15

Laboratory Control Sample (LCS)

(LCS) R3646146-2 04/23/21 00:48

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	38.4	96.1	80.0-120	
Fluoride	8.00	7.91	98.9	80.0-120	
Sulfate	40.0	38.6	96.6	80.0-120	

L1340036-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1340036-01 04/23/21 04:59 • (MS) R3646146-4 04/23/21 05:32

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	404	432	56.9	1	80.0-120	E V
Fluoride	5.00	1.24	5.92	93.6	1	80.0-120	
Sulfate	50.0	392	422	60.2	1	80.0-120	E V

L1340049-28 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1340049-28 04/23/21 10:44 • (MS) R3646146-7 04/23/21 11:50 • (MSD) R3646146-8 04/23/21 12:06

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50.0	0.456	49.4	49.4	97.8	97.9	1	80.0-120			0.131	15
Fluoride	5.00	U	4.97	4.98	99.4	99.5	1	80.0-120			0.109	15
Sulfate	50.0	U	49.0	49.1	98.0	98.1	1	80.0-120			0.0779	15

Method Blank (MB)

(MB) R3645080-1 04/22/21 08:37

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury	U		0.000100	0.000200

Laboratory Control Sample (LCS)

(LCS) R3645080-2 04/22/21 08:39

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.00300	0.00308	103	80.0-120	

L1340083-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1340083-04 04/22/21 08:41 • (MS) R3645080-3 04/22/21 08:43 • (MSD) R3645080-4 04/22/21 08:45

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.00300	U	0.00313	0.00309	104	103	1	75.0-125			1.36	20

Method Blank (MB)

(MB) R3645286-1 04/22/21 13:51

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury,Dissolved	U		0.000100	0.000200

Laboratory Control Sample (LCS)

(LCS) R3645286-2 04/22/21 13:53

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury,Dissolved	0.00300	0.00320	107	80.0-120	

L1340241-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1340241-03 04/22/21 13:55 • (MS) R3645286-3 04/22/21 13:57 • (MSD) R3645286-4 04/22/21 13:59

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury,Dissolved	0.00300	U	0.00315	0.00315	105	105	1	75.0-125			0.0349	20

Method Blank (MB)

(MB) R3647380-1 04/27/21 14:08

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Boron	U		0.0200	0.200

Laboratory Control Sample (LCS)

(LCS) R3647380-2 04/27/21 14:11

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron	1.00	0.985	98.5	80.0-120	

L1340036-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1340036-01 04/27/21 14:14 • (MS) R3647380-4 04/27/21 14:19 • (MSD) R3647380-5 04/27/21 14:22

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Boron	1.00	0.691	1.67	1.67	97.5	98.1	1	75.0-125			0.367	20

Method Blank (MB)

(MB) R3646079-1 04/24/21 03:15

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Boron,Dissolved	U		0.0200	0.200

Laboratory Control Sample (LCS)

(LCS) R3646079-2 04/24/21 03:18

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron,Dissolved	1.00	0.961	96.1	80.0-120	

L1340719-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1340719-01 04/24/21 03:21 • (MS) R3646079-4 04/24/21 03:26 • (MSD) R3646079-5 04/24/21 03:29

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Boron,Dissolved	1.00	0.0452	1.02	1.02	97.0	97.5	1	75.0-125			0.492	20

Method Blank (MB)

(MB) R3647042-1 04/27/21 10:16

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic,Dissolved	U		0.000180	0.00200
Barium,Dissolved	U		0.000381	0.0200
Cadmium,Dissolved	U		0.000150	0.00100
Chromium,Dissolved	U		0.00124	0.00200
Cobalt,Dissolved	U		0.0000596	0.00200
Iron,Dissolved	U		0.0281	0.100
Lead,Dissolved	U		0.000849	0.00200
Manganese,Dissolved	U		0.000704	0.00500
Nickel,Dissolved	U		0.000816	0.00200
Selenium,Dissolved	U		0.000300	0.00200
Uranium,Dissolved	U		0.0000700	0.0200
Vanadium,Dissolved	U		0.000664	0.00500

Laboratory Control Sample (LCS)

(LCS) R3647042-2 04/27/21 10:19

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic,Dissolved	0.0500	0.0481	96.2	80.0-120	
Barium,Dissolved	0.0500	0.0493	98.7	80.0-120	
Cadmium,Dissolved	0.0500	0.0510	102	80.0-120	
Chromium,Dissolved	0.0500	0.0498	99.7	80.0-120	
Cobalt,Dissolved	0.0500	0.0503	101	80.0-120	
Iron,Dissolved	5.00	5.01	100	80.0-120	
Lead,Dissolved	0.0500	0.0497	99.4	80.0-120	
Manganese,Dissolved	0.0500	0.0498	99.7	80.0-120	
Nickel,Dissolved	0.0500	0.0508	102	80.0-120	
Selenium,Dissolved	0.0500	0.0492	98.4	80.0-120	
Uranium,Dissolved	0.0500	0.0495	99.0	80.0-120	
Vanadium,Dissolved	0.0500	0.0488	97.6	80.0-120	

L1339810-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339810-09 04/27/21 10:23 • (MS) R3647042-4 04/27/21 10:29 • (MSD) R3647042-5 04/27/21 10:32

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic,Dissolved	0.0500	0.000291	0.0472	0.0483	93.8	96.0	1	75.0-125			2.28	20
Barium,Dissolved	0.0500	0.0552	0.103	0.105	96.4	98.9	1	75.0-125			1.24	20
Cadmium,Dissolved	0.0500	U	0.0497	0.0510	99.4	102	1	75.0-125			2.63	20

L1339810-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339810-09 04/27/21 10:23 • (MS) R3647042-4 04/27/21 10:29 • (MSD) R3647042-5 04/27/21 10:32

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chromium,Dissolved	0.0500	0.00128	0.0489	0.0489	95.2	95.3	1	75.0-125			0.132	20
Cobalt,Dissolved	0.0500	0.0000603	0.0478	0.0488	95.5	97.5	1	75.0-125			2.13	20
Iron,Dissolved	5.00	U	4.76	4.89	95.3	97.8	1	75.0-125			2.67	20
Lead,Dissolved	0.0500	U	0.0487	0.0506	97.4	101	1	75.0-125			3.86	20
Nickel,Dissolved	0.0500	0.00108	0.0493	0.0496	96.5	97.0	1	75.0-125			0.454	20
Selenium,Dissolved	0.0500	0.000943	0.0499	0.0521	97.9	102	1	75.0-125			4.32	20
Uranium,Dissolved	0.0500	0.000636	0.0505	0.0529	99.8	105	1	75.0-125			4.61	20
Vanadium,Dissolved	0.0500	U	0.0477	0.0481	95.5	96.2	1	75.0-125			0.784	20

Method Blank (MB)

(MB) R3647290-1 04/27/21 15:51

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic	U		0.000180	0.00200
Barium	U		0.000381	0.0200
Cadmium	U		0.000150	0.00100
Calcium	U		0.0936	1.00
Chromium	U		0.00124	0.00200
Cobalt	U		0.0000596	0.00200
Iron	U		0.0281	0.100
Lead	U		0.000849	0.00200
Manganese	U		0.000704	0.00500
Nickel	U		0.000816	0.00200
Potassium	U		0.108	2.00
Selenium	U		0.000300	0.00200
Sodium	U		0.376	2.00
Uranium	U		0.0000700	0.0200
Vanadium	U		0.000664	0.00500

Laboratory Control Sample (LCS)

(LCS) R3647290-2 04/27/21 15:55

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	0.0500	0.0519	104	80.0-120	
Barium	0.0500	0.0504	101	80.0-120	
Cadmium	0.0500	0.0542	108	80.0-120	
Calcium	5.00	5.03	101	80.0-120	
Chromium	0.0500	0.0536	107	80.0-120	
Cobalt	0.0500	0.0538	108	80.0-120	
Iron	5.00	5.29	106	80.0-120	
Lead	0.0500	0.0526	105	80.0-120	
Manganese	0.0500	0.0531	106	80.0-120	
Nickel	0.0500	0.0537	107	80.0-120	
Potassium	5.00	5.16	103	80.0-120	
Selenium	0.0500	0.0528	106	80.0-120	
Sodium	5.00	5.39	108	80.0-120	
Uranium	0.0500	0.0521	104	80.0-120	
Vanadium	0.0500	0.0522	104	80.0-120	

L1339491-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339491-03 04/27/21 15:58 • (MS) R3647290-4 04/27/21 16:05 • (MSD) R3647290-5 04/27/21 16:08

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	0.0500	0.0132	0.0596	0.0655	92.8	105	1	75.0-125			9.52	20
Barium	0.0500	0.0139	0.0644	0.0642	101	100	1	75.0-125			0.271	20
Cadmium	0.0500	U	0.0549	0.0568	110	114	1	75.0-125			3.40	20
Calcium	5.00	451	447	458	0.000	142	1	75.0-125	V	V	2.48	20
Chromium	0.0500	0.00131	0.0500	0.0561	97.5	110	1	75.0-125			11.4	20
Cobalt	0.0500	0.000809	0.0495	0.0546	97.3	108	1	75.0-125			9.86	20
Potassium	5.00	7.06	11.9	12.0	97.3	99.5	1	75.0-125			0.898	20
Iron	5.00	0.305	5.19	5.71	97.6	108	1	75.0-125			9.56	20
Lead	0.0500	U	0.0516	0.0531	103	106	1	75.0-125			2.90	20
Manganese	0.0500	0.663	0.674	0.711	22.1	96.7	1	75.0-125	V		5.39	20
Nickel	0.0500	0.00966	0.0575	0.0640	95.7	109	1	75.0-125			10.7	20
Selenium	0.0500	0.00303	0.0578	0.0583	109	110	1	75.0-125			0.844	20
Sodium	5.00	139	146	149	147	212	1	75.0-125	V	V	2.21	20
Uranium	0.0500	0.00220	0.0545	0.0556	105	107	1	75.0-125			2.00	20
Vanadium	0.0500	0.00725	0.0547	0.0600	95.0	105	1	75.0-125			9.11	20

Method Blank (MB)

(MB) R3646736-2 04/26/21 00:14

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*101*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R3646736-1 04/25/21 23:07

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.61	102	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*107*	*78.0-120*	

Method Blank (MB)

(MB) R3644834-2 04/19/21 19:14

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0113	0.0500
Benzene	U		0.0000941	0.00100
Bromodichloromethane	U		0.000136	0.00100
Bromoform	U		0.000129	0.00100
Bromomethane	U		0.000605	0.00500
n-Butylbenzene	U		0.000157	0.00100
sec-Butylbenzene	U		0.000125	0.00100
Carbon disulfide	U		0.0000962	0.00100
Carbon tetrachloride	U		0.000128	0.00100
Chlorobenzene	U		0.000116	0.00100
Chlorodibromomethane	U		0.000140	0.00100
Chloroethane	U		0.000192	0.00500
Chloroform	U		0.000111	0.00500
Chloromethane	U		0.000960	0.00250
1,2-Dibromoethane	U		0.000126	0.00100
1,1-Dichloroethane	U		0.000100	0.00100
1,2-Dichloroethane	U		0.0000819	0.00100
1,1-Dichloroethene	U		0.000188	0.00100
cis-1,2-Dichloroethene	U		0.000126	0.00100
trans-1,2-Dichloroethene	U		0.000149	0.00100
1,2-Dichloropropane	U		0.000149	0.00100
cis-1,3-Dichloropropene	U		0.000111	0.00100
trans-1,3-Dichloropropene	U		0.000118	0.00100
Ethylbenzene	U		0.000137	0.00100
2-Hexanone	U		0.000787	0.0100
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
Methylene Chloride	U		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100
Methyl tert-butyl ether	U		0.000101	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.0000993	0.00100
Styrene	U		0.000118	0.00100
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100
Tetrachloroethene	U		0.000300	0.00100
Toluene	U		0.000278	0.00100
1,1,1-Trichloroethane	U		0.000149	0.00100
1,1,2-Trichloroethane	U		0.000158	0.00100

Method Blank (MB)

(MB) R3644834-2 04/19/21 19:14

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Trichloroethene	U		0.000190	0.00100
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
Vinyl chloride	U		0.000234	0.00100
Xylenes, Total	U		0.000174	0.00300
o-Xylene	U		0.000174	0.00100
m&p-Xylenes	U		0.000430	0.00200
(S) Toluene-d8	*116*			*80.0-120*
(S) 4-Bromofluorobenzene	*93.1*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*93.0*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3644834-1 04/19/21 18:32

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.0250	0.0218	87.2	19.0-160	
Benzene	0.00500	0.00513	103	70.0-123	
Bromodichloromethane	0.00500	0.00483	96.6	75.0-120	
Bromoform	0.00500	0.00499	99.8	68.0-132	
Bromomethane	0.00500	0.00555	111	10.0-160	
n-Butylbenzene	0.00500	0.00471	94.2	73.0-125	
sec-Butylbenzene	0.00500	0.00522	104	75.0-125	
Carbon disulfide	0.00500	0.00537	107	61.0-128	
Carbon tetrachloride	0.00500	0.00546	109	68.0-126	
Chlorobenzene	0.00500	0.00547	109	80.0-121	
Chlorodibromomethane	0.00500	0.00482	96.4	77.0-125	
Chloroethane	0.00500	0.00522	104	47.0-150	
Chloroform	0.00500	0.00540	108	73.0-120	
Chloromethane	0.00500	0.00521	104	41.0-142	
1,2-Dibromoethane	0.00500	0.00519	104	80.0-122	
1,1-Dichloroethane	0.00500	0.00533	107	70.0-126	
1,2-Dichloroethane	0.00500	0.00499	99.8	70.0-128	
1,1-Dichloroethene	0.00500	0.00489	97.8	71.0-124	
cis-1,2-Dichloroethene	0.00500	0.00481	96.2	73.0-120	
trans-1,2-Dichloroethene	0.00500	0.00511	102	73.0-120	
1,2-Dichloropropane	0.00500	0.00516	103	77.0-125	
cis-1,3-Dichloropropene	0.00500	0.00484	96.8	80.0-123	
trans-1,3-Dichloropropene	0.00500	0.00474	94.8	78.0-124	

Laboratory Control Sample (LCS)

(LCS) R3644834-1 04/19/21 18:32

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ethylbenzene	0.00500	0.00541	108	79.0-123	
2-Hexanone	0.0250	0.0249	99.6	67.0-149	
Isopropylbenzene	0.00500	0.00518	104	76.0-127	
p-Isopropyltoluene	0.00500	0.00533	107	76.0-125	
2-Butanone (MEK)	0.0250	0.0238	95.2	44.0-160	
Methylene Chloride	0.00500	0.00454	90.8	67.0-120	
4-Methyl-2-pentanone (MIBK)	0.0250	0.0254	102	68.0-142	
Methyl tert-butyl ether	0.00500	0.00488	97.6	68.0-125	
Naphthalene	0.00500	0.00612	122	54.0-135	
n-Propylbenzene	0.00500	0.00538	108	77.0-124	
Styrene	0.00500	0.00535	107	73.0-130	
1,1,1,2-Tetrachloroethane	0.00500	0.00492	98.4	75.0-125	
1,1,2,2-Tetrachloroethane	0.00500	0.00547	109	65.0-130	
Tetrachloroethene	0.00500	0.00609	122	72.0-132	
Toluene	0.00500	0.00542	108	79.0-120	
1,1,1-Trichloroethane	0.00500	0.00501	100	73.0-124	
1,1,2-Trichloroethane	0.00500	0.00518	104	80.0-120	
Trichloroethene	0.00500	0.00570	114	78.0-124	
1,2,4-Trimethylbenzene	0.00500	0.00525	105	76.0-121	
1,3,5-Trimethylbenzene	0.00500	0.00531	106	76.0-122	
Vinyl chloride	0.00500	0.00571	114	67.0-131	
Xylenes, Total	0.0150	0.0163	109	79.0-123	
o-Xylene	0.00500	0.00519	104	80.0-122	
m&p-Xylenes	0.0100	0.0111	111	80.0-122	
(S) Toluene-d8			*108*	*80.0-120*	
(S) 4-Bromofluorobenzene			*98.1*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*97.6*	*70.0-130*	

Method Blank (MB)

(MB) R3645950-1 04/22/21 21:33

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) High Fraction	0.188		0.0247	0.100
(S) o-Terphenyl	*86.0*			*31.0-160*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3645950-2 04/22/21 21:53 • (LCSD) R3645950-3 04/22/21 22:13

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) High Fraction	1.50	1.65	1.72	110	115	50.0-150			4.15	20
(S) o-Terphenyl				*123*	*115*	*31.0-160*				

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
V	The sample concentration is too high to evaluate accurate spike recoveries.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Pres Chk

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com; dholbert@trccompanies.com**

Project Description: **TEL Spring 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **330538.0000.0000**

Lab Project # **TRCATX-TEL**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **TEL (Navajo - Artesia)**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

Pace Analytical® National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 1340036
1109

Acctnum: TRCATX
Template: T118731
Prelogin: P835834
TSR: 526
PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions,NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Remarks	Sample # (lab only)
~~TEL-4~~	Grab	GW		~~4/12/21~~	~~840~~	10	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~						
~~TEL-3~~ LNAPL	Grab	GW				10	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~						
~~TEL-2~~ LNAPL	Grab	GW				10	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~						
~~TEL-1~~ LNAPL	Grab	GW				10	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~						
MW-49	Grab	GW		4/14/21	900	11	X	X	X		X	X	X	X				-01
~~DUP-TEL-01~~	Grab	GW		~~4/13/21~~	~~900~~	10	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~						
~~EB-TEL-01~~	Grab	GW		~~4/13/21~~	~~1000~~	~~10~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~						
~~Trip Blank-TEL-01~~	Grab	GW		~~4/13/21~~	—	~~1~~	~~X~~											

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:
Dissolved metals field-filtered.

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP ✓Y __N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: ✓Y __N
Correct bottles used: ✓Y __N
Sufficient volume sent: ✓Y __N
If Applicable
VOA Zero Headspace: ✓Y __N
Preservation Correct/Checked: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / NO HCL / MeoH TBR
Scott Ude	4/15/21	1200		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: ~~4.3~~ °C Bottles Received: 0.1+3=0.4 11
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4/16/21 Time: 0930

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

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L1340036

dEx Tracking #:			Corresponding Temp:		
5016	1217	2116	0.1+.3=0.4	A3	PM
9517	5769	8834	0.3+.3=0.6		
	5771	3106	0.1+.3=0.4		
		3047	0.2+.3=0.5		
	5769	8878	0.1+.3=0.4		
	5771	0493	0.4+.3=0.7		
	5769	8845	0.1+.3=0.4		
	5771	3014	3.8+.1=3.9	A6	OT
		0450	3.6+.1=3.7	A2	BB
5016	1220	5876	3.4+.1=3.5	A6	OT
9517	5769	8856	0.4+.1=0.5	A2	BB
	5771	0482	2.6+.1=2.7	A2	BB
		0460	0.3+.1=0.4	A6	OT
		3025	0.1+.3=0.4	A3	PM
		0471	0.2+.3=0.5		
		0449	2.6+.1=2.7	A6	OT
5016	1220	5865	3.5+.1=3.6	A2	BB
9517	5769	8867	2.7-.3=2.4	A7	KI

Received by OCD: 1/9/2025 2:41:44 PM

Released to Imaging: 2/7/2025 11:08:22 AM

ANALYTICAL REPORT

December 28, 2021

Revised Report

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

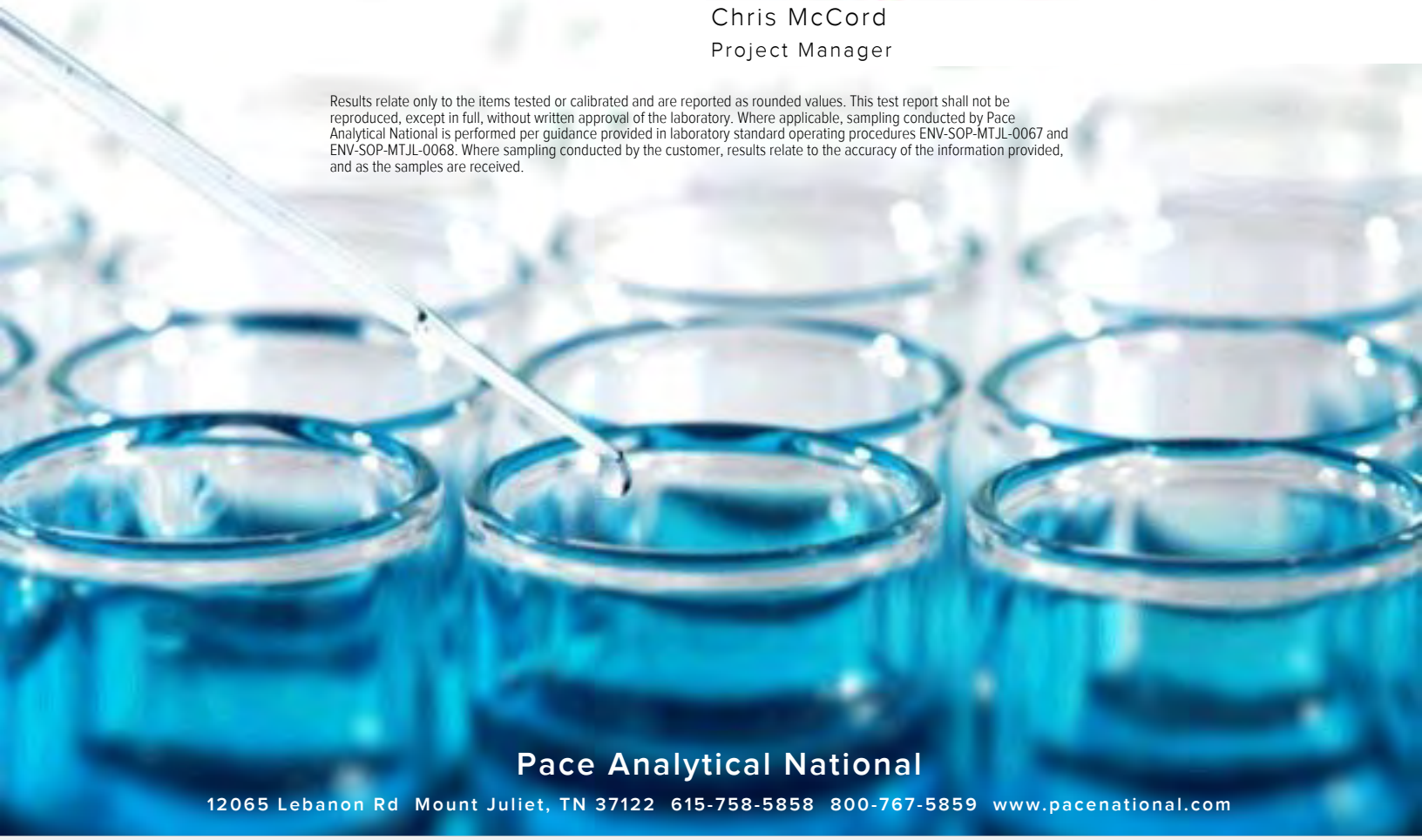
TRC Solutions - Austin, TX

Sample Delivery Group:	L1340040
Samples Received:	04/16/2021
Project Number:	425135.0000.0000
Description:	NCL Spring 2021
Site:	NCL (NAVAJO-ARTESIA)
Report To:	Julie Speer
	505 E. Huntland Dr, Ste 250
	Austin, TX 78752

Entire Report Reviewed By:

Chris McCord
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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MW-45 L1340040-01 GW

Collected by: SU / HMI Team
Collected date/time: 04/14/21 14:20
Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1655174	1	04/20/21 12:01	04/20/21 17:58	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1655668	1	04/22/21 03:56	04/22/21 03:56	SDL	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG1657212	10	04/22/21 19:18	04/26/21 14:17	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657221	10	04/23/21 13:39	04/23/21 13:39	MSP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657221	100	04/23/21 13:50	04/23/21 13:50	MSP	Mt. Juliet, TN
Mercury by Method 7470A	WG1654191	1	04/21/21 17:44	04/22/21 09:22	SD	Mt. Juliet, TN
Mercury by Method 7470A	WG1654201	1	04/22/21 10:38	04/22/21 14:15	SD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1656881	1	04/27/21 10:03	04/27/21 14:25	EL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1657951	1	04/23/21 19:43	04/24/21 03:50	KMG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656505	1	04/27/21 03:08	04/27/21 11:14	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656898	1	04/27/21 11:02	04/27/21 17:21	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654383	1	04/19/21 21:17	04/19/21 21:17	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1657699	1	04/23/21 14:27	04/27/21 23:41	AEG	Mt. Juliet, TN

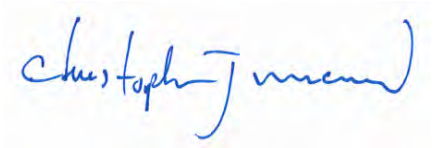
MW-56 L1340040-02 GW

Collected by: SU / HMI Team
Collected date/time: 04/14/21 09:15
Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1655174	1	04/20/21 12:01	04/20/21 17:58	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1655668	1	04/22/21 04:02	04/22/21 04:02	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657221	1	04/23/21 14:02	04/23/21 14:02	MSP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657221	50	04/23/21 14:13	04/23/21 14:13	MSP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656505	1	04/27/21 03:08	04/27/21 11:17	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656898	1	04/27/21 11:02	04/27/21 17:24	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654383	1	04/19/21 21:38	04/19/21 21:38	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1657699	1	04/23/21 14:27	04/24/21 06:22	JN	Mt. Juliet, TN

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Chris McCord
Project Manager

Report Revision History

Level II Report - Version 1: 04/28/21 15:42

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	3680		100	1	04/20/2021 17:58	WG1655174

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.0756	J	0.0500	0.100	1	04/22/2021 03:56	WG1655668

Wet Chemistry by Method 4500CN E-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Cyanide	U		0.0180	0.0500	10	04/26/2021 14:17	WG1657212

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	372		3.79	10.0	10	04/23/2021 13:39	WG1657221
Fluoride	1.97		0.640	1.50	10	04/23/2021 13:39	WG1657221
Sulfate	2450		59.4	500	100	04/23/2021 13:50	WG1657221

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.000100	0.000200	1	04/22/2021 09:22	WG1654191
Mercury,Dissolved	U		0.000100	0.000200	1	04/22/2021 14:15	WG1654201

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Boron	0.578		0.0200	0.200	1	04/27/2021 14:25	WG1656881
Boron,Dissolved	0.574		0.0200	0.200	1	04/24/2021 03:50	WG1657951

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00782		0.000180	0.00200	1	04/27/2021 17:21	WG1656898
Arsenic,Dissolved	0.00421		0.000180	0.00200	1	04/27/2021 11:14	WG1656505
Barium	0.0160	J	0.000381	0.0200	1	04/27/2021 17:21	WG1656898
Barium,Dissolved	0.0168	J	0.000381	0.0200	1	04/27/2021 11:14	WG1656505
Cadmium	U		0.000150	0.00100	1	04/27/2021 17:21	WG1656898
Cadmium,Dissolved	U		0.000150	0.00100	1	04/27/2021 11:14	WG1656505
Calcium	603		0.0936	1.00	1	04/27/2021 17:21	WG1656898
Chromium	U		0.00124	0.00200	1	04/27/2021 17:21	WG1656898
Chromium,Dissolved	0.00216		0.00124	0.00200	1	04/27/2021 11:14	WG1656505
Cobalt	0.00122	J	0.0000596	0.00200	1	04/27/2021 17:21	WG1656898
Cobalt,Dissolved	0.00112	J	0.0000596	0.00200	1	04/27/2021 11:14	WG1656505
Iron	1.68		0.0281	0.100	1	04/27/2021 17:21	WG1656898
Iron,Dissolved	0.0468	J	0.0281	0.100	1	04/27/2021 11:14	WG1656505
Lead	0.0155		0.000849	0.00200	1	04/27/2021 17:21	WG1656898
Lead,Dissolved	0.00156	J	0.000849	0.00200	1	04/27/2021 11:14	WG1656505
Manganese	0.692		0.000704	0.00500	1	04/27/2021 17:21	WG1656898
Manganese,Dissolved	0.695		0.000704	0.00500	1	04/27/2021 11:14	WG1656505
Nickel	0.00859		0.000816	0.00200	1	04/27/2021 17:21	WG1656898
Nickel,Dissolved	0.00963		0.000816	0.00200	1	04/27/2021 11:14	WG1656505

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Potassium	4.42		0.108	2.00	1	04/27/2021 17:21	WG1656898
Selenium	U		0.000300	0.00200	1	04/27/2021 17:21	WG1656898
Selenium,Dissolved	0.000476	J	0.000300	0.00200	1	04/27/2021 11:14	WG1656505
Sodium	375		0.376	2.00	1	04/27/2021 17:21	WG1656898
Uranium	0.00166	J	0.0000700	0.0200	1	04/27/2021 17:21	WG1656898
Uranium,Dissolved	0.00184	J	0.0000700	0.0200	1	04/27/2021 11:14	WG1656505
Vanadium	0.00226	J	0.000664	0.00500	1	04/27/2021 17:21	WG1656898
Vanadium,Dissolved	0.000803	J	0.000664	0.00500	1	04/27/2021 11:14	WG1656505

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/19/2021 21:17	WG1654383
Benzene	U		0.0000941	0.00100	1	04/19/2021 21:17	WG1654383
Bromodichloromethane	U		0.000136	0.00100	1	04/19/2021 21:17	WG1654383
Bromoform	U		0.000129	0.00100	1	04/19/2021 21:17	WG1654383
Bromomethane	U		0.000605	0.00500	1	04/19/2021 21:17	WG1654383
n-Butylbenzene	U		0.000157	0.00100	1	04/19/2021 21:17	WG1654383
sec-Butylbenzene	U		0.000125	0.00100	1	04/19/2021 21:17	WG1654383
Carbon disulfide	U		0.0000962	0.00100	1	04/19/2021 21:17	WG1654383
Carbon tetrachloride	U		0.000128	0.00100	1	04/19/2021 21:17	WG1654383
Chlorobenzene	U		0.000116	0.00100	1	04/19/2021 21:17	WG1654383
Chlorodibromomethane	U		0.000140	0.00100	1	04/19/2021 21:17	WG1654383
Chloroethane	U		0.000192	0.00500	1	04/19/2021 21:17	WG1654383
Chloroform	U		0.000111	0.00500	1	04/19/2021 21:17	WG1654383
Chloromethane	U		0.000960	0.00250	1	04/19/2021 21:17	WG1654383
1,2-Dibromoethane	U		0.000126	0.00100	1	04/19/2021 21:17	WG1654383
1,1-Dichloroethane	U		0.000100	0.00100	1	04/19/2021 21:17	WG1654383
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/19/2021 21:17	WG1654383
1,1-Dichloroethene	U		0.000188	0.00100	1	04/19/2021 21:17	WG1654383
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/19/2021 21:17	WG1654383
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/19/2021 21:17	WG1654383
1,2-Dichloropropane	U		0.000149	0.00100	1	04/19/2021 21:17	WG1654383
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/19/2021 21:17	WG1654383
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/19/2021 21:17	WG1654383
Ethylbenzene	U		0.000137	0.00100	1	04/19/2021 21:17	WG1654383
Isopropylbenzene	U		0.000105	0.00100	1	04/19/2021 21:17	WG1654383
p-Isopropyltoluene	U		0.000120	0.00100	1	04/19/2021 21:17	WG1654383
2-Butanone (MEK)	U		0.00119	0.0100	1	04/19/2021 21:17	WG1654383
2-Hexanone	U		0.000787	0.0100	1	04/19/2021 21:17	WG1654383
Methylene Chloride	U		0.000430	0.00500	1	04/19/2021 21:17	WG1654383
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/19/2021 21:17	WG1654383
Methyl tert-butyl ether	0.00926		0.000101	0.00100	1	04/19/2021 21:17	WG1654383
Naphthalene	U		0.00100	0.00500	1	04/19/2021 21:17	WG1654383
n-Propylbenzene	U		0.0000993	0.00100	1	04/19/2021 21:17	WG1654383
Styrene	U		0.000118	0.00100	1	04/19/2021 21:17	WG1654383
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/19/2021 21:17	WG1654383
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/19/2021 21:17	WG1654383
Tetrachloroethene	U		0.000300	0.00100	1	04/19/2021 21:17	WG1654383
Toluene	U		0.000278	0.00100	1	04/19/2021 21:17	WG1654383
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/19/2021 21:17	WG1654383
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/19/2021 21:17	WG1654383
Trichloroethene	U		0.000190	0.00100	1	04/19/2021 21:17	WG1654383
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/19/2021 21:17	WG1654383
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/19/2021 21:17	WG1654383
Vinyl chloride	U		0.000234	0.00100	1	04/19/2021 21:17	WG1654383

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
o-Xylene	U		0.000174	0.00100	1	04/19/2021 21:17	WG1654383
m&p-Xylene	U		0.000430	0.00200	1	04/19/2021 21:17	WG1654383
Xylenes, Total	U		0.000174	0.00300	1	04/19/2021 21:17	WG1654383
(S) Toluene-d8	*116*			*80.0-120*		*04/19/2021 21:17*	WG1654383
(S) 4-Bromofluorobenzene	*100*			*77.0-126*		*04/19/2021 21:17*	WG1654383
(S) 1,2-Dichloroethane-d4	*90.5*			*70.0-130*		*04/19/2021 21:17*	WG1654383

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.967		0.0247	0.100	1	04/27/2021 23:41	WG1657699
(S) o-Terphenyl	*112*			*31.0-160*		*04/27/2021 23:41*	WG1657699

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2860		50.0	1	04/20/2021 17:58	WG1655174

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.252		0.0500	0.100	1	04/22/2021 04:02	WG1655668

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	211		19.0	50.0	50	04/23/2021 14:13	WG1657221
Fluoride	1.19		0.0640	0.150	1	04/23/2021 14:02	WG1657221
Sulfate	1740		29.7	250	50	04/23/2021 14:13	WG1657221

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00529		0.000180	0.00200	1	04/27/2021 17:24	WG1656898
Arsenic,Dissolved	0.00538		0.000180	0.00200	1	04/27/2021 11:17	WG1656505
Barium	0.0113	J	0.000381	0.0200	1	04/27/2021 17:24	WG1656898
Barium,Dissolved	0.0117	J	0.000381	0.0200	1	04/27/2021 11:17	WG1656505
Calcium	484		0.0936	1.00	1	04/27/2021 17:24	WG1656898
Chromium	U		0.00124	0.00200	1	04/27/2021 17:24	WG1656898
Chromium,Dissolved	U		0.00124	0.00200	1	04/27/2021 11:17	WG1656505
Iron	U		0.0281	0.100	1	04/27/2021 17:24	WG1656898
Iron,Dissolved	U		0.0281	0.100	1	04/27/2021 11:17	WG1656505
Lead	0.00105	J	0.000849	0.00200	1	04/27/2021 17:24	WG1656898
Lead,Dissolved	0.00128	J	0.000849	0.00200	1	04/27/2021 11:17	WG1656505
Manganese	0.287		0.000704	0.00500	1	04/27/2021 17:24	WG1656898
Manganese,Dissolved	0.274		0.000704	0.00500	1	04/27/2021 11:17	WG1656505
Potassium	1.80	J	0.108	2.00	1	04/27/2021 17:24	WG1656898
Selenium	0.00177	J	0.000300	0.00200	1	04/27/2021 17:24	WG1656898
Selenium,Dissolved	0.00185	J	0.000300	0.00200	1	04/27/2021 11:17	WG1656505
Sodium	140		0.376	2.00	1	04/27/2021 17:24	WG1656898

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/19/2021 21:38	WG1654383
Benzene	U		0.0000941	0.00100	1	04/19/2021 21:38	WG1654383
Bromodichloromethane	U		0.000136	0.00100	1	04/19/2021 21:38	WG1654383
Bromoform	U		0.000129	0.00100	1	04/19/2021 21:38	WG1654383
Bromomethane	U		0.000605	0.00500	1	04/19/2021 21:38	WG1654383
n-Butylbenzene	U		0.000157	0.00100	1	04/19/2021 21:38	WG1654383
sec-Butylbenzene	U		0.000125	0.00100	1	04/19/2021 21:38	WG1654383
Carbon disulfide	U		0.0000962	0.00100	1	04/19/2021 21:38	WG1654383
Carbon tetrachloride	U		0.000128	0.00100	1	04/19/2021 21:38	WG1654383
Chlorobenzene	U		0.000116	0.00100	1	04/19/2021 21:38	WG1654383
Chlorodibromomethane	U		0.000140	0.00100	1	04/19/2021 21:38	WG1654383
Chloroethane	U		0.000192	0.00500	1	04/19/2021 21:38	WG1654383
Chloroform	U		0.000111	0.00500	1	04/19/2021 21:38	WG1654383
Chloromethane	U		0.000960	0.00250	1	04/19/2021 21:38	WG1654383
1,2-Dibromoethane	U		0.000126	0.00100	1	04/19/2021 21:38	WG1654383
1,1-Dichloroethane	U		0.000100	0.00100	1	04/19/2021 21:38	WG1654383

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/19/2021 21:38	WG1654383
1,1-Dichloroethene	U		0.000188	0.00100	1	04/19/2021 21:38	WG1654383
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/19/2021 21:38	WG1654383
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/19/2021 21:38	WG1654383
1,2-Dichloropropane	U		0.000149	0.00100	1	04/19/2021 21:38	WG1654383
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/19/2021 21:38	WG1654383
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/19/2021 21:38	WG1654383
Ethylbenzene	U		0.000137	0.00100	1	04/19/2021 21:38	WG1654383
Isopropylbenzene	U		0.000105	0.00100	1	04/19/2021 21:38	WG1654383
p-Isopropyltoluene	U		0.000120	0.00100	1	04/19/2021 21:38	WG1654383
2-Butanone (MEK)	U		0.00119	0.0100	1	04/19/2021 21:38	WG1654383
2-Hexanone	U		0.000787	0.0100	1	04/19/2021 21:38	WG1654383
Methylene Chloride	U		0.000430	0.00500	1	04/19/2021 21:38	WG1654383
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/19/2021 21:38	WG1654383
Methyl tert-butyl ether	0.000138	J	0.000101	0.00100	1	04/19/2021 21:38	WG1654383
Naphthalene	U		0.00100	0.00500	1	04/19/2021 21:38	WG1654383
n-Propylbenzene	U		0.0000993	0.00100	1	04/19/2021 21:38	WG1654383
Styrene	U		0.000118	0.00100	1	04/19/2021 21:38	WG1654383
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/19/2021 21:38	WG1654383
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/19/2021 21:38	WG1654383
Tetrachloroethene	U		0.000300	0.00100	1	04/19/2021 21:38	WG1654383
Toluene	U		0.000278	0.00100	1	04/19/2021 21:38	WG1654383
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/19/2021 21:38	WG1654383
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/19/2021 21:38	WG1654383
Trichloroethene	U		0.000190	0.00100	1	04/19/2021 21:38	WG1654383
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/19/2021 21:38	WG1654383
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/19/2021 21:38	WG1654383
Vinyl chloride	U		0.000234	0.00100	1	04/19/2021 21:38	WG1654383
o-Xylene	U		0.000174	0.00100	1	04/19/2021 21:38	WG1654383
m&p-Xylene	U		0.000430	0.00200	1	04/19/2021 21:38	WG1654383
Xylenes, Total	U		0.000174	0.00300	1	04/19/2021 21:38	WG1654383
(S) Toluene-d8	*108*			*80.0-120*		*04/19/2021 21:38*	WG1654383
(S) 4-Bromofluorobenzene	*99.2*			*77.0-126*		*04/19/2021 21:38*	WG1654383
(S) 1,2-Dichloroethane-d4	*91.6*			*70.0-130*		*04/19/2021 21:38*	WG1654383

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.175		0.0247	0.100	1	04/24/2021 06:22	WG1657699
(S) o-Terphenyl	*82.6*			*31.0-160*		*04/24/2021 06:22*	WG1657699

Method Blank (MB)

(MB) R3644711-1 04/20/21 17:58

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1340036-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1340036-01 04/20/21 17:58 • (DUP) R3644711-3 04/20/21 17:58

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	1900	1970	1	3.88		5

L1340040-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1340040-02 04/20/21 17:58 • (DUP) R3644711-4 04/20/21 17:58

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	2860	2900	1	1.56		5

Laboratory Control Sample (LCS)

(LCS) R3644711-2 04/20/21 17:58

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8720	99.1	77.4-123	

Method Blank (MB)

(MB) R3644891-1 04/22/21 03:32

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Nitrate-Nitrite	U		0.0500	0.100

L1339903-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1339903-01 04/22/21 03:48 • (DUP) R3644891-3 04/22/21 03:50

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate-Nitrite	0.996	0.997	1	0.100		20

L1340040-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1340040-01 04/22/21 03:56 • (DUP) R3644891-5 04/22/21 03:57

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate-Nitrite	0.0756	0.0714	1	5.71	J	20

Laboratory Control Sample (LCS)

(LCS) R3644891-2 04/22/21 03:33

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Nitrate-Nitrite	2.50	2.54	102	90.0-110	

L1339903-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1339903-02 04/22/21 03:51 • (MS) R3644891-4 04/22/21 03:52

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Nitrate-Nitrite	2.50	0.0661	2.39	93.0	1	90.0-110	

L1340040-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1340040-02 04/22/21 04:02 • (MS) R3644891-6 04/22/21 04:04 • (MSD) R3644891-7 04/22/21 04:05

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Nitrate-Nitrite	2.50	0.252	2.73	2.76	99.1	100	1	90.0-110			1.09	20

Method Blank (MB)

(MB) R3646710-1 04/26/21 14:04

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Cyanide	U		0.00180	0.00500

L1338910-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1338910-04 04/26/21 14:11 • (DUP) R3646710-5 04/26/21 14:12

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	U	U	1	0.000		20

L1340140-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1340140-01 04/26/21 14:32 • (DUP) R3646710-8 04/26/21 14:33

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	0.00326	0.00321	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3646710-2 04/26/21 14:05

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Cyanide	0.100	0.102	102	87.1-120	

L1338910-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1338910-02 04/26/21 14:08 • (MS) R3646710-3 04/26/21 14:09 • (MSD) R3646710-4 04/26/21 14:10

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Cyanide	0.100	U	0.0947	0.0905	94.7	90.5	1	90.0-110			4.54	20

L1340127-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1340127-03 04/26/21 14:25 • (MS) R3646710-6 04/26/21 14:26 • (MSD) R3646710-7 04/26/21 14:29

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Cyanide	0.100	U	0.0982	0.0975	98.2	97.5	1	90.0-110			0.715	20

Method Blank (MB)

(MB) R3645556-1 04/23/21 03:51

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.379	1.00
Fluoride	U		0.0640	0.150
Sulfate	U		0.594	5.00

L1339964-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1339964-01 04/23/21 11:21 • (DUP) R3645556-3 04/23/21 11:33

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	0.520	0.487	1	0.000		15
Fluoride	U	U	1	0.000		15
Sulfate	11.0	11.0	1	0.0818		15

L1340294-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1340294-01 04/23/21 14:48 • (DUP) R3645556-6 04/23/21 14:59

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	14.6	14.6	1	0.325		15
Fluoride	0.156	0.152	1	2.72		15
Sulfate	U	U	1	0.000		15

Laboratory Control Sample (LCS)

(LCS) R3645556-2 04/23/21 04:03

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	39.0	97.5	80.0-120	
Fluoride	8.00	7.92	99.0	80.0-120	
Sulfate	40.0	39.8	99.4	80.0-120	

L1339964-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339964-01 04/23/21 11:21 • (MS) R3645556-4 04/23/21 11:44 • (MSD) R3645556-5 04/23/21 11:56

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50.0	0.520	49.7	49.9	98.5	98.8	1	80.0-120			0.339	15
Fluoride	5.00	U	5.13	5.15	103	103	1	80.0-120			0.402	15
Sulfate	50.0	11.0	60.2	60.4	98.4	98.8	1	80.0-120			0.341	15

L1340294-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1340294-01 04/23/21 14:48 • (MS) R3645556-7 04/23/21 15:11

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	14.6	63.1	97.1	1	80.0-120	
Fluoride	5.00	0.156	5.25	102	1	80.0-120	
Sulfate	50.0	U	49.3	98.6	1	80.0-120	

Method Blank (MB)

(MB) R3645080-1 04/22/21 08:37

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury	U		0.000100	0.000200

Laboratory Control Sample (LCS)

(LCS) R3645080-2 04/22/21 08:39

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.00300	0.00308	103	80.0-120	

Method Blank (MB)

(MB) R3645286-1 04/22/21 13:51

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury,Dissolved	U		0.000100	0.000200

Laboratory Control Sample (LCS)

(LCS) R3645286-2 04/22/21 13:53

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury,Dissolved	0.00300	0.00320	107	80.0-120	

L1340241-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1340241-03 04/22/21 13:55 • (MS) R3645286-3 04/22/21 13:57 • (MSD) R3645286-4 04/22/21 13:59

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury,Dissolved	0.00300	U	0.00315	0.00315	105	105	1	75.0-125			0.0349	20

Method Blank (MB)

(MB) R3647380-1 04/27/21 14:08

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Boron	U		0.0200	0.200

Laboratory Control Sample (LCS)

(LCS) R3647380-2 04/27/21 14:11

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron	1.00	0.985	98.5	80.0-120	

L1340036-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1340036-01 04/27/21 14:14 • (MS) R3647380-4 04/27/21 14:19 • (MSD) R3647380-5 04/27/21 14:22

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Boron	1.00	0.691	1.67	1.67	97.5	98.1	1	75.0-125			0.367	20

Method Blank (MB)

(MB) R3646079-1 04/24/21 03:15

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Boron,Dissolved	U		0.0200	0.200

Laboratory Control Sample (LCS)

(LCS) R3646079-2 04/24/21 03:18

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron,Dissolved	1.00	0.961	96.1	80.0-120	

L1340719-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1340719-01 04/24/21 03:21 • (MS) R3646079-4 04/24/21 03:26 • (MSD) R3646079-5 04/24/21 03:29

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Boron,Dissolved	1.00	0.0452	1.02	1.02	97.0	97.5	1	75.0-125			0.492	20

Method Blank (MB)

(MB) R3647042-1 04/27/21 10:16

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic,Dissolved	U		0.000180	0.00200
Barium,Dissolved	U		0.000381	0.0200
Cadmium,Dissolved	U		0.000150	0.00100
Chromium,Dissolved	U		0.00124	0.00200
Cobalt,Dissolved	U		0.0000596	0.00200
Iron,Dissolved	U		0.0281	0.100
Lead,Dissolved	U		0.000849	0.00200
Manganese,Dissolved	U		0.000704	0.00500
Nickel,Dissolved	U		0.000816	0.00200
Selenium,Dissolved	U		0.000300	0.00200
Uranium,Dissolved	U		0.0000700	0.0200
Vanadium,Dissolved	U		0.000664	0.00500

Laboratory Control Sample (LCS)

(LCS) R3647042-2 04/27/21 10:19

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic,Dissolved	0.0500	0.0481	96.2	80.0-120	
Barium,Dissolved	0.0500	0.0493	98.7	80.0-120	
Cadmium,Dissolved	0.0500	0.0510	102	80.0-120	
Chromium,Dissolved	0.0500	0.0498	99.7	80.0-120	
Cobalt,Dissolved	0.0500	0.0503	101	80.0-120	
Iron,Dissolved	5.00	5.01	100	80.0-120	
Lead,Dissolved	0.0500	0.0497	99.4	80.0-120	
Manganese,Dissolved	0.0500	0.0498	99.7	80.0-120	
Nickel,Dissolved	0.0500	0.0508	102	80.0-120	
Selenium,Dissolved	0.0500	0.0492	98.4	80.0-120	
Uranium,Dissolved	0.0500	0.0495	99.0	80.0-120	
Vanadium,Dissolved	0.0500	0.0488	97.6	80.0-120	

L1339810-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339810-09 04/27/21 10:23 • (MS) R3647042-4 04/27/21 10:29 • (MSD) R3647042-5 04/27/21 10:32

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic,Dissolved	0.0500	0.000291	0.0472	0.0483	93.8	96.0	1	75.0-125			2.28	20
Barium,Dissolved	0.0500	0.0552	0.103	0.105	96.4	98.9	1	75.0-125			1.24	20
Cadmium,Dissolved	0.0500	U	0.0497	0.0510	99.4	102	1	75.0-125			2.63	20

L1339810-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339810-09 04/27/21 10:23 • (MS) R3647042-4 04/27/21 10:29 • (MSD) R3647042-5 04/27/21 10:32

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chromium,Dissolved	0.0500	0.00128	0.0489	0.0489	95.2	95.3	1	75.0-125			0.132	20
Cobalt,Dissolved	0.0500	0.0000603	0.0478	0.0488	95.5	97.5	1	75.0-125			2.13	20
Iron,Dissolved	5.00	U	4.76	4.89	95.3	97.8	1	75.0-125			2.67	20
Lead,Dissolved	0.0500	U	0.0487	0.0506	97.4	101	1	75.0-125			3.86	20
Nickel,Dissolved	0.0500	0.00108	0.0493	0.0496	96.5	97.0	1	75.0-125			0.454	20
Selenium,Dissolved	0.0500	0.000943	0.0499	0.0521	97.9	102	1	75.0-125			4.32	20
Uranium,Dissolved	0.0500	0.000636	0.0505	0.0529	99.8	105	1	75.0-125			4.61	20
Vanadium,Dissolved	0.0500	U	0.0477	0.0481	95.5	96.2	1	75.0-125			0.784	20

Method Blank (MB)

(MB) R3647290-1 04/27/21 15:51

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic	U		0.000180	0.00200
Barium	U		0.000381	0.0200
Cadmium	U		0.000150	0.00100
Calcium	U		0.0936	1.00
Chromium	U		0.00124	0.00200
Cobalt	U		0.0000596	0.00200
Iron	U		0.0281	0.100
Lead	U		0.000849	0.00200
Manganese	U		0.000704	0.00500
Nickel	U		0.000816	0.00200
Potassium	U		0.108	2.00
Selenium	U		0.000300	0.00200
Sodium	U		0.376	2.00
Uranium	U		0.0000700	0.0200
Vanadium	U		0.000664	0.00500

Laboratory Control Sample (LCS)

(LCS) R3647290-2 04/27/21 15:55

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	0.0500	0.0519	104	80.0-120	
Barium	0.0500	0.0504	101	80.0-120	
Cadmium	0.0500	0.0542	108	80.0-120	
Calcium	5.00	5.03	101	80.0-120	
Chromium	0.0500	0.0536	107	80.0-120	
Cobalt	0.0500	0.0538	108	80.0-120	
Iron	5.00	5.29	106	80.0-120	
Lead	0.0500	0.0526	105	80.0-120	
Manganese	0.0500	0.0531	106	80.0-120	
Nickel	0.0500	0.0537	107	80.0-120	
Potassium	5.00	5.16	103	80.0-120	
Selenium	0.0500	0.0528	106	80.0-120	
Sodium	5.00	5.39	108	80.0-120	
Uranium	0.0500	0.0521	104	80.0-120	
Vanadium	0.0500	0.0522	104	80.0-120	

L1339491-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339491-03 04/27/21 15:58 • (MS) R3647290-4 04/27/21 16:05 • (MSD) R3647290-5 04/27/21 16:08

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	0.0500	0.0132	0.0596	0.0655	92.8	105	1	75.0-125			9.52	20
Barium	0.0500	0.0139	0.0644	0.0642	101	100	1	75.0-125			0.271	20
Cadmium	0.0500	U	0.0549	0.0568	110	114	1	75.0-125			3.40	20
Calcium	5.00	451	447	458	0.000	142	1	75.0-125	V	V	2.48	20
Chromium	0.0500	0.00131	0.0500	0.0561	97.5	110	1	75.0-125			11.4	20
Cobalt	0.0500	0.000809	0.0495	0.0546	97.3	108	1	75.0-125			9.86	20
Potassium	5.00	7.06	11.9	12.0	97.3	99.5	1	75.0-125			0.898	20
Iron	5.00	0.305	5.19	5.71	97.6	108	1	75.0-125			9.56	20
Lead	0.0500	U	0.0516	0.0531	103	106	1	75.0-125			2.90	20
Manganese	0.0500	0.663	0.674	0.711	22.1	96.7	1	75.0-125	V		5.39	20
Nickel	0.0500	0.00966	0.0575	0.0640	95.7	109	1	75.0-125			10.7	20
Selenium	0.0500	0.00303	0.0578	0.0583	109	110	1	75.0-125			0.844	20
Sodium	5.00	139	146	149	147	212	1	75.0-125	V	V	2.21	20
Uranium	0.0500	0.00220	0.0545	0.0556	105	107	1	75.0-125			2.00	20
Vanadium	0.0500	0.00725	0.0547	0.0600	95.0	105	1	75.0-125			9.11	20

Method Blank (MB)

(MB) R3644834-2 04/19/21 19:14

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0113	0.0500
Benzene	U		0.0000941	0.00100
Bromodichloromethane	U		0.000136	0.00100
Bromoform	U		0.000129	0.00100
Bromomethane	U		0.000605	0.00500
n-Butylbenzene	U		0.000157	0.00100
sec-Butylbenzene	U		0.000125	0.00100
Carbon disulfide	U		0.0000962	0.00100
Carbon tetrachloride	U		0.000128	0.00100
Chlorobenzene	U		0.000116	0.00100
Chlorodibromomethane	U		0.000140	0.00100
Chloroethane	U		0.000192	0.00500
Chloroform	U		0.000111	0.00500
Chloromethane	U		0.000960	0.00250
1,2-Dibromoethane	U		0.000126	0.00100
1,1-Dichloroethane	U		0.000100	0.00100
1,2-Dichloroethane	U		0.0000819	0.00100
1,1-Dichloroethene	U		0.000188	0.00100
cis-1,2-Dichloroethene	U		0.000126	0.00100
trans-1,2-Dichloroethene	U		0.000149	0.00100
1,2-Dichloropropane	U		0.000149	0.00100
cis-1,3-Dichloropropene	U		0.000111	0.00100
trans-1,3-Dichloropropene	U		0.000118	0.00100
Ethylbenzene	U		0.000137	0.00100
2-Hexanone	U		0.000787	0.0100
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
Methylene Chloride	U		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100
Methyl tert-butyl ether	U		0.000101	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.0000993	0.00100
Styrene	U		0.000118	0.00100
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100
Tetrachloroethene	U		0.000300	0.00100
Toluene	U		0.000278	0.00100
1,1,1-Trichloroethane	U		0.000149	0.00100
1,1,2-Trichloroethane	U		0.000158	0.00100

Method Blank (MB)

(MB) R3644834-2 04/19/21 19:14

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Trichloroethene	U		0.000190	0.00100
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
Vinyl chloride	U		0.000234	0.00100
Xylenes, Total	U		0.000174	0.00300
o-Xylene	U		0.000174	0.00100
m&p-Xylenes	U		0.000430	0.00200
(S) Toluene-d8	*116*			*80.0-120*
(S) 4-Bromofluorobenzene	*93.1*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*93.0*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3644834-1 04/19/21 18:32

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.0250	0.0218	87.2	19.0-160	
Benzene	0.00500	0.00513	103	70.0-123	
Bromodichloromethane	0.00500	0.00483	96.6	75.0-120	
Bromoform	0.00500	0.00499	99.8	68.0-132	
Bromomethane	0.00500	0.00555	111	10.0-160	
n-Butylbenzene	0.00500	0.00471	94.2	73.0-125	
sec-Butylbenzene	0.00500	0.00522	104	75.0-125	
Carbon disulfide	0.00500	0.00537	107	61.0-128	
Carbon tetrachloride	0.00500	0.00546	109	68.0-126	
Chlorobenzene	0.00500	0.00547	109	80.0-121	
Chlorodibromomethane	0.00500	0.00482	96.4	77.0-125	
Chloroethane	0.00500	0.00522	104	47.0-150	
Chloroform	0.00500	0.00540	108	73.0-120	
Chloromethane	0.00500	0.00521	104	41.0-142	
1,2-Dibromoethane	0.00500	0.00519	104	80.0-122	
1,1-Dichloroethane	0.00500	0.00533	107	70.0-126	
1,2-Dichloroethane	0.00500	0.00499	99.8	70.0-128	
1,1-Dichloroethene	0.00500	0.00489	97.8	71.0-124	
cis-1,2-Dichloroethene	0.00500	0.00481	96.2	73.0-120	
trans-1,2-Dichloroethene	0.00500	0.00511	102	73.0-120	
1,2-Dichloropropane	0.00500	0.00516	103	77.0-125	
cis-1,3-Dichloropropene	0.00500	0.00484	96.8	80.0-123	
trans-1,3-Dichloropropene	0.00500	0.00474	94.8	78.0-124	

Laboratory Control Sample (LCS)

(LCS) R3644834-1 04/19/21 18:32

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ethylbenzene	0.00500	0.00541	108	79.0-123	
2-Hexanone	0.0250	0.0249	99.6	67.0-149	
Isopropylbenzene	0.00500	0.00518	104	76.0-127	
p-Isopropyltoluene	0.00500	0.00533	107	76.0-125	
2-Butanone (MEK)	0.0250	0.0238	95.2	44.0-160	
Methylene Chloride	0.00500	0.00454	90.8	67.0-120	
4-Methyl-2-pentanone (MIBK)	0.0250	0.0254	102	68.0-142	
Methyl tert-butyl ether	0.00500	0.00488	97.6	68.0-125	
Naphthalene	0.00500	0.00612	122	54.0-135	
n-Propylbenzene	0.00500	0.00538	108	77.0-124	
Styrene	0.00500	0.00535	107	73.0-130	
1,1,1,2-Tetrachloroethane	0.00500	0.00492	98.4	75.0-125	
1,1,2,2-Tetrachloroethane	0.00500	0.00547	109	65.0-130	
Tetrachloroethene	0.00500	0.00609	122	72.0-132	
Toluene	0.00500	0.00542	108	79.0-120	
1,1,1-Trichloroethane	0.00500	0.00501	100	73.0-124	
1,1,2-Trichloroethane	0.00500	0.00518	104	80.0-120	
Trichloroethene	0.00500	0.00570	114	78.0-124	
1,2,4-Trimethylbenzene	0.00500	0.00525	105	76.0-121	
1,3,5-Trimethylbenzene	0.00500	0.00531	106	76.0-122	
Vinyl chloride	0.00500	0.00571	114	67.0-131	
Xylenes, Total	0.0150	0.0163	109	79.0-123	
o-Xylene	0.00500	0.00519	104	80.0-122	
m&p-Xylenes	0.0100	0.0111	111	80.0-122	
(S) Toluene-d8			*108*	*80.0-120*	
(S) 4-Bromofluorobenzene			*98.1*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*97.6*	*70.0-130*	

Method Blank (MB)

(MB) R3646261-1 04/24/21 01:00

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) High Fraction	U		0.0247	0.100
(S) o-Terphenyl	*77.0*			*31.0-160*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3646261-2 04/24/21 01:20 • (LCSD) R3646261-3 04/24/21 01:40

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) High Fraction	1.50	1.48	1.45	98.7	96.7	50.0-150			2.05	20
(S) o-Terphenyl				*107*	*110*	*31.0-160*				

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
V	The sample concentration is too high to evaluate accurate spike recoveries.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Pres Chk

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com; dholbert@trccompanies.com**

Project Description: **NCL Spring 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **330538.0000.0000**

Lab Project # **TRCATX-NCL**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **NCL (Navajo - Artesia)**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page 1 of 2

Pace Analytical® National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L # 1370040

1110

Acctnum: TRCATX
Template: T118751
Prelogin: P835832
TSR: 526
PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions,NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Remarks	Sample # (lab only)
MW-45	Grab	GW		4/14/21	1420	9	X	X			X	X	X	X				-01
MW-56	Grab	GW		4/14/21	915	8	X	X		X	X	X						-02
~~MW-55~~	Grab	GW		~~4/13/21~~	~~1300~~	11	X	X	X		X	X	X	X				
NCL-34A LNAPL	Grab	GW				8	X	X		X	X	X						
~~NCL-33~~	Grab	GW		~~4/13/21~~	~~1130~~	8	X	X		X	X	X						
~~NCL-44~~	Grab	GW		~~4/13/21~~	~~1050~~	8	X	X		X	X	X						
~~NCL-32~~	Grab	GW		~~4/13/21~~	~~955~~	8	X	X		X	X	X						
~~MW-108~~	Grab	GW		~~4/13/21~~	~~1500~~	8	X	X		X	X	X						
~~NCL-31~~	Grab	GW		~~4/13/21~~	~~1225~~	8	X	X		X	X	X						
~~MW-18~~	Grab	GW		~~4/12/21~~	~~1305~~	9	X	X			X	X	X	X				

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP ✓Y __N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: ✓Y __N
Correct bottles used: ✓Y __N
Sufficient volume sent: ✓Y __N
If Applicable
VOA Zero Headspace: ✓Y __N
Preservation Correct/Checked: ✓Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / NO HCL / MeoH TBR
Scott Ude	4/15/21	1200		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 0.3 °C Bottles Received: 17
				0.1+3.2=4
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4/16/21 Time: 0930

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com; dholbert@trccompanies.com**

Project Description: **NCL Spring 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **330538.0000.0000**

Lab Project # **TRCATX-NCL**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **NCL (Navajo - Artesia)**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page 2 of 2

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Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L # 1389004O 4/16

Table #

Acctnum: **TRCATX**
Template: **T118751**
Prelogin: **P835832**
TSR: **526**
PB: 4/13/21

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions,NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Remarks	Sample # (lab only)
MW-54A	Grab	GW		4/13/21	1525	8	X	X		X	X	X						
MW-54B	Grab	GW		4/13/21	1615	10	X	X	X	X	X	X						
NCL-49	Grab	GW		4/13/21	1400	8	X	X		X	X	X						
MW-53R	Grab	GW		4/13/21	1450	8	X	X		X	X	X						
DUP-NCL-01	Grab	GW		4/13/21	1100	8	X	X		X	X	X						
EB-NCL-01	Grab	GW		4/13/21	1010	8	X	X		X	X	X						
Trip Blank-NCL-01	Grab	GW		4/13/21		1	X											

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP ✓Y __N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: ✓Y __N
Correct bottles used: ✓Y __N
Sufficient volume sent: ✓Y __N
If Applicable
VOA Zero Headspace: ✓Y __N
Preservation Correct/Checked: ✓Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / (No) HCL / MeoH TBR
Scott Ude	4/15/21	1200		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 2.3 °C Bottles Received: 17
				0162394
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4/16/21 Time: 0930

If preservation required by Login: Date/Time

Hold: Condition: NCF / OK

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L1340040

FedEx Tracking #:			Corresponding Temp:		
5016	1217	2116	0.1+.3=0.4	A3	PM
9517	5769	8834	0.3+.3=0.6		
	5771	3106	0.1+.3=0.4		
		3047	0.2+.3=0.5		
	5769	8878	0.1+.3=0.4		
	5771	0493	0.4+.3=0.7		
	5769	8845	0.1+.3=0.4		
	5771	3014	3.8+.1=3.9	A6	OT
		0450	3.6+.1=3.7	A2	BB
5016	1220	5876	3.4+.1=3.5	A6	OT
9517	5769	8856	0.4+.1=0.5	A2	BB
	5771	0482	2.6+.1=2.7	A2	BB
		0460	0.3+.1=0.4	A6	OT
		3025	0.1+.3=0.4	A3	PM
		0471	0.2+.3=0.5		
		0449	2.6+.1=2.7	A6	OT
5016	1220	5865	3.5+.1=3.6	A2	BB
9517	5769	8867	2.7-.3=2.4	A7	KI

Received by OCD: 1/9/2025 2:41:44 PM

Released to Imaging: 2/7/2025 11:08:22 AM

ANALYTICAL REPORT

May 04, 2021

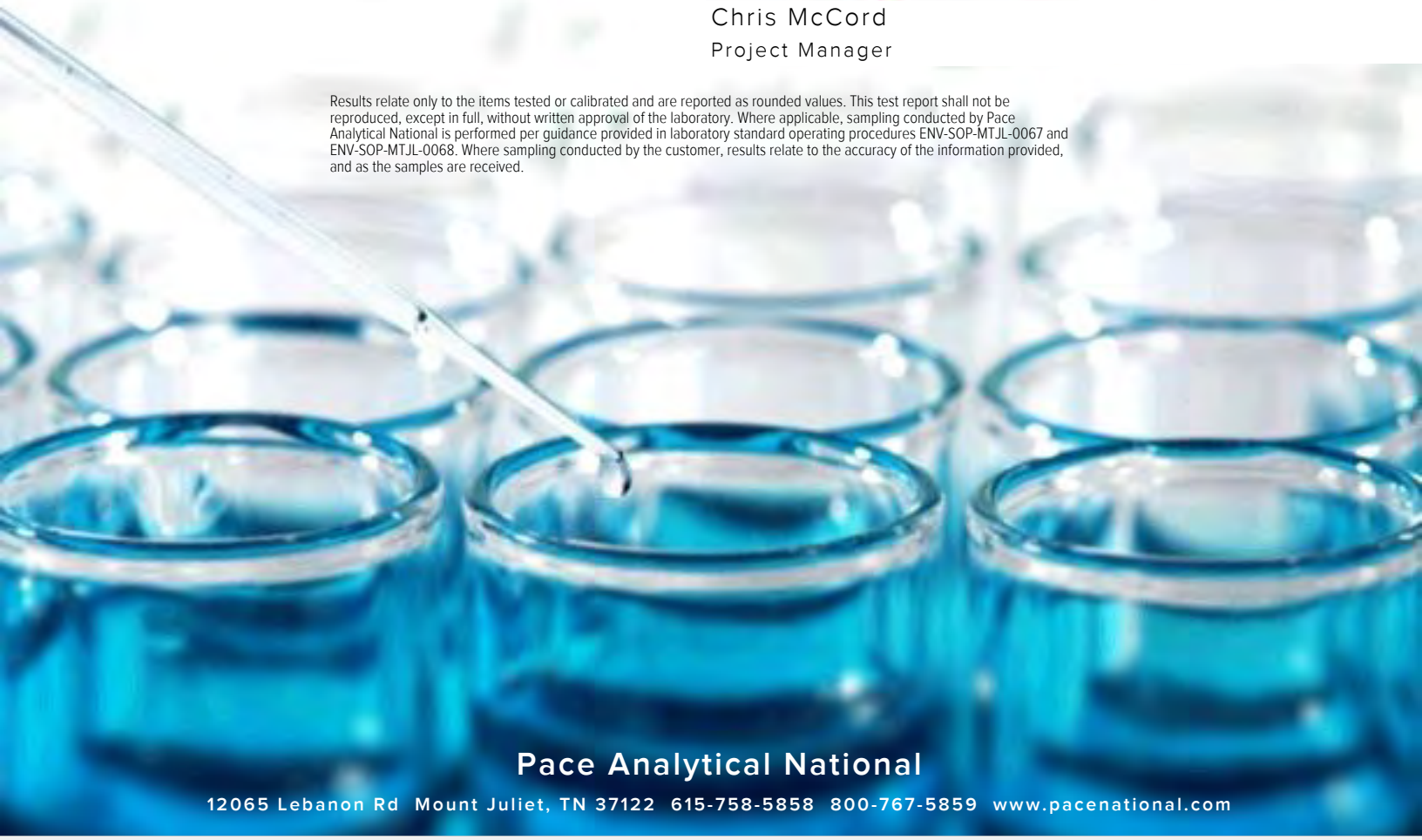
TRC Solutions - Austin, TX

Sample Delivery Group:	L1340049
Samples Received:	04/16/2021
Project Number:	425135.0000.0000
Description:	EP Spring 2021
Site:	EP NAVAJO-ARTESIA
Report To:	Julie Speer
	505 E. Huntland Dr, Ste 250
	Austin, TX 78752

Entire Report Reviewed By:

Chris McCord
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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Sc: Sample Chain of Custody 102

MW-120 L1340049-01 GW

Collected by: SU / HMI Team
Collected date/time: 04/14/21 12:15
Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1655174	1	04/20/21 12:01	04/20/21 17:58	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1661753	1	05/03/21 21:51	05/03/21 21:51	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657189	1	04/22/21 23:20	04/22/21 23:20	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657189	100	04/23/21 00:25	04/23/21 00:25	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656505	1	04/27/21 03:08	04/27/21 11:20	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656901	1	04/26/21 21:51	04/27/21 01:57	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656901	5	04/26/21 21:51	04/27/21 11:21	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1657423	1	04/23/21 11:25	04/23/21 11:25	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654139	5	04/19/21 04:45	04/19/21 04:45	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656974	1	04/22/21 17:15	04/28/21 12:40	WCR	Mt. Juliet, TN

MW-121 L1340049-02 GW

Collected by: SU / HMI Team
Collected date/time: 04/14/21 12:50
Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1655172	1	04/20/21 11:57	04/20/21 17:09	VRP	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1661753	1	05/03/21 21:53	05/03/21 21:53	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657189	1	04/23/21 00:58	04/23/21 00:58	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657189	100	04/23/21 01:15	04/23/21 01:15	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656505	1	04/27/21 03:08	04/27/21 11:24	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656901	1	04/26/21 21:51	04/27/21 02:00	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1657423	1	04/23/21 11:46	04/23/21 11:46	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654139	1	04/18/21 23:40	04/18/21 23:40	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656974	1	04/22/21 17:15	04/27/21 23:00	DMG	Mt. Juliet, TN

MW-84 L1340049-03 GW

Collected by: SU / HMI Team
Collected date/time: 04/14/21 11:30
Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1655033	1	04/20/21 09:40	04/20/21 14:56	CAT	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1661753	1	05/03/21 21:57	05/03/21 21:57	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657189	10	04/23/21 02:04	04/23/21 02:04	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657189	100	04/23/21 02:20	04/23/21 02:20	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656505	1	04/27/21 03:08	04/27/21 11:27	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656505	5	04/27/21 03:08	04/27/21 12:01	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656907	1	04/26/21 22:47	04/27/21 11:48	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656907	5	04/26/21 22:47	04/27/21 13:19	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1658422	5	04/26/21 02:25	04/26/21 02:25	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654139	10	04/19/21 05:46	04/19/21 05:46	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656974	20	04/22/21 17:15	04/23/21 16:55	CLG	Mt. Juliet, TN

MW-81 L1340049-04 GW

Collected by: SU / HMI Team
Collected date/time: 04/14/21 10:00
Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1655033	1	04/20/21 09:40	04/20/21 14:56	CAT	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1661753	1	05/03/21 21:58	05/03/21 21:58	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657189	1	04/23/21 02:37	04/23/21 02:37	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657189	100	04/23/21 02:53	04/23/21 02:53	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656505	1	04/27/21 03:08	04/27/21 11:45	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656907	1	04/26/21 22:47	04/27/21 11:35	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1657423	1	04/23/21 12:08	04/23/21 12:08	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654139	1	04/19/21 00:00	04/19/21 00:00	JCP	Mt. Juliet, TN

MW-81 L1340049-04 GW

Collected by: SU / HMI Team
Collected date/time: 04/14/21 10:00
Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656974	1	04/22/21 17:15	04/23/21 14:13	TJD	Mt. Juliet, TN

MW-80 L1340049-05 GW

Collected by: SU / HMI Team
Collected date/time: 04/14/21 09:15
Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1655174	1	04/20/21 12:01	04/20/21 17:58	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1661753	5	05/03/21 22:44	05/03/21 22:44	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657189	1	04/23/21 03:10	04/23/21 03:10	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657189	100	04/23/21 03:26	04/23/21 03:26	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656505	1	04/27/21 03:08	04/27/21 11:48	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656907	1	04/26/21 22:47	04/27/21 11:52	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1657423	1	04/23/21 12:30	04/23/21 12:30	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654139	1	04/19/21 00:20	04/19/21 00:20	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656974	1	04/22/21 17:15	04/27/21 23:21	DMG	Mt. Juliet, TN

MW-79 L1340049-06 GW

Collected by: SU / HMI Team
Collected date/time: 04/14/21 08:25
Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1655172	1	04/20/21 11:57	04/20/21 17:09	VRP	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1661753	1	05/03/21 22:05	05/03/21 22:05	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657189	10	04/23/21 03:43	04/23/21 03:43	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657189	100	04/23/21 03:59	04/23/21 03:59	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656505	1	04/27/21 03:08	04/27/21 11:52	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656907	1	04/26/21 22:47	04/27/21 11:55	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656907	5	04/26/21 22:47	04/27/21 13:22	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1657423	1	04/23/21 12:52	04/23/21 12:52	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654139	1	04/19/21 00:41	04/19/21 00:41	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656974	1	04/22/21 17:15	04/23/21 14:54	TJD	Mt. Juliet, TN

MW-82 L1340049-07 GW

Collected by: SU / HMI Team
Collected date/time: 04/14/21 10:45
Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1655622	1	04/21/21 02:20	04/21/21 04:12	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1661753	1	05/03/21 22:06	05/03/21 22:06	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657189	10	04/23/21 04:15	04/23/21 04:15	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657189	100	04/23/21 04:32	04/23/21 04:32	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656505	1	04/27/21 03:08	04/27/21 11:55	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656505	5	04/27/21 03:08	04/27/21 12:06	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656907	1	04/26/21 22:47	04/27/21 12:09	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656907	5	04/26/21 22:47	04/27/21 13:26	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1657423	1	04/23/21 13:14	04/23/21 13:14	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654139	1	04/19/21 01:01	04/19/21 01:01	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656974	1	04/22/21 17:15	04/23/21 15:14	TJD	Mt. Juliet, TN

MW-76 L1340049-08 GW

Collected by: SU / HMI Team | Collected date/time: 04/14/21 13:15 | Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1655174	1	04/20/21 12:01	04/20/21 17:58	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1661753	1	05/03/21 22:07	05/03/21 22:07	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657189	10	04/23/21 05:21	04/23/21 05:21	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657189	100	04/23/21 05:38	04/23/21 05:38	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656505	1	04/27/21 03:08	04/27/21 11:58	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656505	5	04/27/21 03:08	04/27/21 12:10	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656907	1	04/26/21 22:47	04/27/21 12:12	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1657423	1	04/23/21 13:36	04/23/21 13:36	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654139	1	04/19/21 01:22	04/19/21 01:22	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656974	2	04/22/21 17:15	04/27/21 16:57	WCR	Mt. Juliet, TN

MW-77 L1340049-09 GW

Collected by: SU / HMI Team | Collected date/time: 04/14/21 14:05 | Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1655172	1	04/20/21 11:57	04/20/21 17:09	VRP	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1661753	1	05/03/21 22:08	05/03/21 22:08	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657189	10	04/23/21 05:54	04/23/21 05:54	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657189	100	04/23/21 08:09	04/23/21 08:09	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656508	1	04/27/21 06:23	04/27/21 21:02	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656907	1	04/26/21 22:47	04/27/21 12:16	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656907	5	04/26/21 22:47	04/27/21 13:29	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1658422	5	04/26/21 02:47	04/26/21 02:47	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654139	25	04/19/21 06:06	04/19/21 06:06	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656974	20	04/22/21 17:15	04/23/21 17:15	TJD	Mt. Juliet, TN

MW-78 L1340049-10 GW

Collected by: SU / HMI Team | Collected date/time: 04/14/21 14:50 | Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1655172	1	04/20/21 11:57	04/20/21 17:09	VRP	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1661753	10	05/03/21 22:45	05/03/21 22:45	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657189	50	04/23/21 08:42	04/23/21 08:42	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656508	1	04/27/21 06:23	04/27/21 21:05	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656907	1	04/26/21 22:47	04/27/21 12:19	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1658422	1	04/26/21 02:03	04/26/21 02:03	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654139	1	04/19/21 01:42	04/19/21 01:42	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656974	200	04/22/21 17:15	04/27/21 19:30	WCR	Mt. Juliet, TN

MW-75 L1340049-11 GW

Collected by: SU / HMI Team | Collected date/time: 04/14/21 15:40 | Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1655174	1	04/20/21 12:01	04/20/21 17:58	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1661753	1	05/03/21 22:11	05/03/21 22:11	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657189	10	04/23/21 08:58	04/23/21 08:58	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657189	100	04/23/21 09:15	04/23/21 09:15	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656508	1	04/27/21 06:23	04/27/21 18:58	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656907	1	04/26/21 22:47	04/27/21 12:22	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656907	5	04/26/21 22:47	04/27/21 13:40	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1658422	5	04/26/21 03:09	04/26/21 03:09	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654139	25	04/19/21 05:06	04/19/21 05:06	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656974	10	04/22/21 17:15	04/28/21 01:36	DMG	Mt. Juliet, TN

MW-83 L1340049-12 GW

Collected by: SU / HMI Team
Collected date/time: 04/14/21 12:30
Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1655174	1	04/20/21 12:01	04/20/21 17:58	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1661753	10	05/03/21 22:46	05/03/21 22:46	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657189	10	04/23/21 09:31	04/23/21 09:31	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657189	100	04/23/21 09:48	04/23/21 09:48	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656508	1	04/27/21 06:23	04/27/21 19:01	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656907	1	04/26/21 22:47	04/27/21 12:26	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1657423	5	04/23/21 17:57	04/23/21 17:57	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654139	1	04/19/21 02:03	04/19/21 02:03	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656974	1	04/22/21 17:15	04/23/21 15:34	TJD	Mt. Juliet, TN

MW-3 L1340049-13 GW

Collected by: SU / HMI Team
Collected date/time: 04/14/21 11:20
Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1655172	1	04/20/21 11:57	04/20/21 17:09	VRP	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1661753	1	05/03/21 22:14	05/03/21 22:14	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657189	10	04/23/21 10:37	04/23/21 10:37	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657189	100	04/23/21 10:53	04/23/21 10:53	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656508	1	04/27/21 06:23	04/27/21 19:29	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656907	1	04/26/21 22:47	04/27/21 12:29	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1658422	5	04/26/21 03:31	04/26/21 03:31	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654139	25	04/19/21 05:26	04/19/21 05:26	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656978	1	04/23/21 09:18	04/24/21 11:24	JN	Mt. Juliet, TN

MW-22A L1340049-14 GW

Collected by: SU / HMI Team
Collected date/time: 04/14/21 08:25
Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1655174	1	04/20/21 12:01	04/20/21 17:58	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1661753	1	05/03/21 22:20	05/03/21 22:20	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657189	1	04/23/21 11:10	04/23/21 11:10	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657189	100	04/23/21 11:26	04/23/21 11:26	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656508	1	04/27/21 06:23	04/27/21 18:45	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656907	1	04/26/21 22:47	04/27/21 12:33	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656907	5	04/26/21 22:47	04/27/21 13:44	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1657423	1	04/23/21 13:58	04/23/21 13:58	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654139	1	04/19/21 02:23	04/19/21 02:23	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656978	1	04/23/21 09:18	04/24/21 11:44	JN	Mt. Juliet, TN

MW-22B L1340049-15 GW

Collected by: SU / HMI Team
Collected date/time: 04/14/21 09:35
Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1655172	1	04/20/21 11:57	04/20/21 17:09	VRP	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1661753	1	05/03/21 22:22	05/03/21 22:22	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657189	1	04/23/21 11:43	04/23/21 11:43	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657189	100	04/23/21 11:59	04/23/21 11:59	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656508	1	04/27/21 06:23	04/27/21 19:32	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656907	1	04/26/21 22:47	04/27/21 12:36	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656907	5	04/26/21 22:47	04/27/21 13:48	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1657423	1	04/23/21 14:19	04/23/21 14:19	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654139	1	04/19/21 02:43	04/19/21 02:43	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656978	1	04/23/21 09:18	04/24/21 12:04	JN	Mt. Juliet, TN

MW-123 L1340049-16 GW

Collected by: SU / HMI Team
Collected date/time: 04/14/21 10:25
Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1655174	1	04/20/21 12:01	04/20/21 17:58	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1661753	1	05/03/21 22:24	05/03/21 22:24	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657189	1	04/23/21 12:16	04/23/21 12:16	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657189	100	04/23/21 12:32	04/23/21 12:32	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656508	1	04/27/21 06:23	04/27/21 19:35	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656907	1	04/26/21 22:47	04/27/21 12:39	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1657423	1	04/23/21 14:41	04/23/21 14:41	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654139	1	04/19/21 03:04	04/19/21 03:04	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656978	1	04/23/21 09:18	04/24/21 12:24	JN	Mt. Juliet, TN

MW-1R L1340049-17 GW

Collected by: SU / HMI Team
Collected date/time: 04/14/21 13:40
Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1655174	1	04/20/21 12:01	04/20/21 17:58	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1661753	5	05/03/21 22:47	05/03/21 22:47	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657189	1	04/23/21 12:49	04/23/21 12:49	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657189	100	04/23/21 13:05	04/23/21 13:05	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656508	1	04/27/21 06:23	04/27/21 19:39	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656907	1	04/26/21 22:47	04/27/21 12:57	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654139	1	04/19/21 03:24	04/19/21 03:24	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656978	1	04/23/21 09:18	04/24/21 12:44	JN	Mt. Juliet, TN

MW-15 L1340049-18 GW

Collected by: SU / HMI Team
Collected date/time: 04/14/21 13:45
Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1655172	1	04/20/21 11:57	04/20/21 17:09	VRP	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1661753	2	05/03/21 22:49	05/03/21 22:49	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657189	1	04/23/21 13:54	04/23/21 13:54	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657189	100	04/23/21 14:11	04/23/21 14:11	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656508	1	04/27/21 06:23	04/27/21 19:42	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656907	1	04/26/21 22:47	04/27/21 13:01	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1657423	1	04/23/21 15:03	04/23/21 15:03	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654139	1	04/19/21 03:44	04/19/21 03:44	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656978	1	04/23/21 09:18	04/24/21 13:04	JN	Mt. Juliet, TN

OCD-1R L1340049-19 GW

Collected by: SU / HMI Team
Collected date/time: 04/14/21 12:50
Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1655172	1	04/20/21 11:57	04/20/21 17:09	VRP	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1661753	1	05/03/21 22:28	05/03/21 22:28	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657189	10	04/23/21 14:27	04/23/21 14:27	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657189	100	04/23/21 14:44	04/23/21 14:44	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656508	1	04/27/21 06:23	04/27/21 19:45	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656907	1	04/26/21 22:47	04/27/21 13:04	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1657423	1	04/23/21 15:25	04/23/21 15:25	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654139	1	04/19/21 04:04	04/19/21 04:04	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656978	1	04/23/21 09:18	04/24/21 13:25	JN	Mt. Juliet, TN

OCD-2A L1340049-20 GW

Collected by: SU / HMI Team
Collected date/time: 04/14/21 10:40
Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1655172	1	04/20/21 11:57	04/20/21 17:09	VRP	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1661753	2	05/03/21 22:50	05/03/21 22:50	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657189	1	04/23/21 15:00	04/23/21 15:00	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657189	100	04/23/21 15:50	04/23/21 15:50	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656508	1	04/27/21 06:23	04/27/21 19:48	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656907	1	04/26/21 22:47	04/27/21 13:08	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1657423	1	04/23/21 15:47	04/23/21 15:47	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654139	1	04/19/21 04:25	04/19/21 04:25	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656978	1	04/23/21 09:18	04/24/21 13:45	JN	Mt. Juliet, TN

OCD-3 L1340049-21 GW

Collected by: SU / HMI Team
Collected date/time: 04/14/21 09:55
Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1655174	1	04/20/21 12:01	04/20/21 17:58	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1661755	1	05/03/21 19:28	05/03/21 19:28	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657191	1	04/23/21 06:21	04/23/21 06:21	MSP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657191	50	04/23/21 06:38	04/23/21 06:38	MSP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656508	1	04/27/21 06:23	04/27/21 19:51	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656907	1	04/26/21 22:47	04/27/21 13:11	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1657430	1	04/23/21 20:08	04/23/21 20:08	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654383	1	04/19/21 21:59	04/19/21 21:59	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656978	1	04/23/21 09:18	04/24/21 14:05	JN	Mt. Juliet, TN

OCD-4 L1340049-22 GW

Collected by: SU / HMI Team
Collected date/time: 04/14/21 09:10
Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1655174	1	04/20/21 12:01	04/20/21 17:58	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1661755	1	05/03/21 19:30	05/03/21 19:30	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657191	1	04/23/21 06:54	04/23/21 06:54	MSP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657191	100	04/23/21 07:11	04/23/21 07:11	MSP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656508	1	04/27/21 06:23	04/27/21 19:55	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656912	5	04/27/21 14:05	04/28/21 21:05	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1657430	1	04/23/21 20:30	04/23/21 20:30	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654383	1	04/19/21 22:20	04/19/21 22:20	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656978	1	04/23/21 09:18	04/24/21 14:25	JN	Mt. Juliet, TN

MW-11A L1340049-23 GW

Collected by: SU / HMI Team
Collected date/time: 04/14/21 12:05
Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1655172	1	04/20/21 11:57	04/20/21 17:09	VRP	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1661755	1	05/03/21 19:34	05/03/21 19:34	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657191	1	04/23/21 08:16	04/23/21 08:16	MSP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657191	100	04/23/21 07:27	04/23/21 07:27	MSP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656508	1	04/27/21 06:23	04/27/21 19:58	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656508	10	04/27/21 06:23	04/27/21 20:24	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656912	10	04/27/21 14:05	04/28/21 21:08	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1657430	1	04/23/21 20:52	04/23/21 20:52	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654383	1	04/19/21 22:41	04/19/21 22:41	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656978	1	04/23/21 09:18	04/24/21 14:45	JN	Mt. Juliet, TN

MW-11B L1340049-24 GW

Collected by: SU / HMI Team
Collected date/time: 04/14/21 11:25
Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1655172	1	04/20/21 11:57	04/20/21 17:09	VRP	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1661755	1	05/03/21 19:36	05/03/21 19:36	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657191	1	04/23/21 08:33	04/23/21 08:33	MSP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657191	100	04/23/21 08:49	04/23/21 08:49	MSP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656508	1	04/27/21 06:23	04/27/21 20:08	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656508	5	04/27/21 06:23	04/27/21 20:27	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656912	5	04/27/21 14:05	04/28/21 21:11	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1657430	1	04/23/21 21:13	04/23/21 21:13	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654383	1	04/19/21 23:01	04/19/21 23:01	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656978	1	04/23/21 09:18	04/24/21 15:05	JN	Mt. Juliet, TN

OCD-5 L1340049-25 GW

Collected by: SU / HMI Team
Collected date/time: 04/14/21 08:25
Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1655172	1	04/20/21 11:57	04/20/21 17:09	VRP	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1661755	1	05/03/21 19:41	05/03/21 19:41	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657191	1	04/23/21 09:06	04/23/21 09:06	MSP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657191	100	04/23/21 09:22	04/23/21 09:22	MSP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656508	1	04/27/21 06:23	04/27/21 20:11	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656508	5	04/27/21 06:23	04/27/21 20:31	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656912	5	04/27/21 14:05	04/28/21 21:15	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1657430	1	04/23/21 21:35	04/23/21 21:35	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654383	1	04/19/21 23:22	04/19/21 23:22	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656978	1	04/23/21 09:18	04/24/21 15:26	JN	Mt. Juliet, TN

DUP-EP-02 L1340049-26 GW

Collected by: SU / HMI Team
Collected date/time: 04/14/21 08:00
Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1655174	1	04/20/21 12:01	04/20/21 17:58	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1661755	1	05/03/21 19:42	05/03/21 19:42	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657191	1	04/23/21 09:38	04/23/21 09:38	MSP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657191	100	04/23/21 09:55	04/23/21 09:55	MSP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656508	1	04/27/21 06:23	04/27/21 20:52	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656912	5	04/27/21 14:05	04/28/21 21:19	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1657430	1	04/23/21 21:57	04/23/21 21:57	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654383	1	04/19/21 23:42	04/19/21 23:42	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656978	1	04/23/21 09:18	04/24/21 15:46	JN	Mt. Juliet, TN

DUP-EP-03 L1340049-27 GW

Collected by: SU / HMI Team
Collected date/time: 04/14/21 10:00
Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1655172	1	04/20/21 11:57	04/20/21 17:09	VRP	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1661755	1	05/03/21 19:43	05/03/21 19:43	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657191	1	04/23/21 10:11	04/23/21 10:11	MSP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657191	100	04/23/21 10:28	04/23/21 10:28	MSP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656508	1	04/27/21 06:23	04/27/21 20:34	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656912	5	04/27/21 14:05	04/28/21 21:23	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1657430	1	04/23/21 22:19	04/23/21 22:19	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654383	1	04/20/21 00:03	04/20/21 00:03	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656978	1	04/23/21 09:18	04/24/21 16:06	JN	Mt. Juliet, TN

EB-EP-04 L1340049-28 GW

Collected by: SU / HMI Team
Collected date/time: 04/14/21 08:40
Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1655172	1	04/20/21 11:57	04/20/21 17:09	VRP	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1661755	1	05/03/21 19:44	05/03/21 19:44	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657191	1	04/23/21 10:44	04/23/21 10:44	MSP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656508	1	04/27/21 06:23	04/27/21 20:37	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656912	5	04/27/21 14:05	04/28/21 21:26	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1657430	1	04/23/21 22:40	04/23/21 22:40	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654383	1	04/20/21 00:24	04/20/21 00:24	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656978	1	04/23/21 09:18	04/26/21 01:18	JN	Mt. Juliet, TN

TRIP BLANK-EP-03 L1340049-29 GW

Collected by: SU / HMI Team
Collected date/time: 04/14/21 00:00
Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654383	1	04/19/21 19:55	04/19/21 19:55	JHH	Mt. Juliet, TN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Chris McCord
Project Manager

Sample Delivery Group (SDG) Narrative

The following analysis were performed from an unpreserved, insufficiently or inadequately preserved sample.

Lab Sample ID	Project Sample ID	Method
L1340049-01	MW-120	353.2
L1340049-02	MW-121	353.2
L1340049-03	MW-84	353.2
L1340049-04	MW-81	353.2
L1340049-05	MW-80	353.2
L1340049-06	MW-79	353.2
L1340049-07	MW-82	353.2
L1340049-08	MW-76	353.2
L1340049-09	MW-77	353.2
L1340049-10	MW-78	353.2
L1340049-11	MW-75	353.2
L1340049-12	MW-83	353.2
L1340049-13	MW-3	353.2
L1340049-14	MW-22A	353.2
L1340049-15	MW-22B	353.2
L1340049-16	MW-123	353.2
L1340049-17	MW-1R	353.2
L1340049-18	MW-15	353.2
L1340049-19	OCD-1R	353.2
L1340049-20	OCD-2A	353.2
L1340049-21	OCD-3	353.2
L1340049-22	OCD-4	353.2
L1340049-23	MW-11A	353.2
L1340049-24	MW-11B	353.2
L1340049-25	OCD-5	353.2
L1340049-26	DUP-EP-02	353.2
L1340049-27	DUP-EP-03	353.2
L1340049-28	EB-EP-04	353.2

pH outside of method requirement.

Lab Sample ID	Project Sample ID	Method
L1340049-09	MW-77	3511/8015

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	5450		100	1	04/20/2021 17:58	WG1655174

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.0500	0.100	1	05/03/2021 21:51	WG1661753

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	1410		37.9	100	100	04/23/2021 00:25	WG1657189
Fluoride	3.64		0.0640	0.150	1	04/22/2021 23:20	WG1657189
Sulfate	2850		59.4	500	100	04/23/2021 00:25	WG1657189

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00624		0.000180	0.00200	1	04/27/2021 01:57	WG1656901
Arsenic,Dissolved	0.00250		0.000180	0.00200	1	04/27/2021 11:20	WG1656505
Barium	0.0107	J	0.000381	0.0200	1	04/27/2021 01:57	WG1656901
Barium,Dissolved	0.0112	J	0.000381	0.0200	1	04/27/2021 11:20	WG1656505
Calcium	592		0.0936	1.00	1	04/27/2021 01:57	WG1656901
Chromium	U		0.00124	0.00200	1	04/27/2021 01:57	WG1656901
Chromium,Dissolved	U		0.00124	0.00200	1	04/27/2021 11:20	WG1656505
Iron	4.59		0.0281	0.100	1	04/27/2021 01:57	WG1656901
Iron,Dissolved	U		0.0281	0.100	1	04/27/2021 11:20	WG1656505
Lead	U		0.000849	0.00200	1	04/27/2021 01:57	WG1656901
Lead,Dissolved	U		0.000849	0.00200	1	04/27/2021 11:20	WG1656505
Manganese	1.32		0.000704	0.00500	1	04/27/2021 01:57	WG1656901
Manganese,Dissolved	1.32		0.000704	0.00500	1	04/27/2021 11:20	WG1656505
Potassium	2.28		0.108	2.00	1	04/27/2021 01:57	WG1656901
Selenium	U		0.000300	0.00200	1	04/27/2021 01:57	WG1656901
Selenium,Dissolved	U		0.000300	0.00200	1	04/27/2021 11:20	WG1656505
Sodium	1080		1.88	10.0	5	04/27/2021 11:21	WG1656901

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	0.0797	J	0.0314	0.100	1	04/23/2021 11:25	WG1657423
(S) a,a,a-Trifluorotoluene(FID)	*99.3*			*78.0-120*		*04/23/2021 11:25*	WG1657423

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0565	0.250	5	04/19/2021 04:45	WG1654139
Benzene	U		0.000471	0.00500	5	04/19/2021 04:45	WG1654139
Bromodichloromethane	U		0.000680	0.00500	5	04/19/2021 04:45	WG1654139
Bromoform	U		0.000645	0.00500	5	04/19/2021 04:45	WG1654139
Bromomethane	U		0.00303	0.0250	5	04/19/2021 04:45	WG1654139
n-Butylbenzene	U		0.000785	0.00500	5	04/19/2021 04:45	WG1654139
sec-Butylbenzene	U		0.000625	0.00500	5	04/19/2021 04:45	WG1654139
Carbon disulfide	U		0.000481	0.00500	5	04/19/2021 04:45	WG1654139
Carbon tetrachloride	U		0.000640	0.00500	5	04/19/2021 04:45	WG1654139

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000580	0.00500	5	04/19/2021 04:45	WG1654139
Chlorodibromomethane	U		0.000700	0.00500	5	04/19/2021 04:45	WG1654139
Chloroethane	U		0.000960	0.0250	5	04/19/2021 04:45	WG1654139
Chloroform	U		0.000555	0.0250	5	04/19/2021 04:45	WG1654139
Chloromethane	U		0.00480	0.0125	5	04/19/2021 04:45	WG1654139
1,2-Dibromoethane	U		0.000630	0.00500	5	04/19/2021 04:45	WG1654139
1,1-Dichloroethane	U		0.000500	0.00500	5	04/19/2021 04:45	WG1654139
1,2-Dichloroethane	U		0.000409	0.00500	5	04/19/2021 04:45	WG1654139
1,1-Dichloroethene	U		0.000940	0.00500	5	04/19/2021 04:45	WG1654139
cis-1,2-Dichloroethene	U		0.000630	0.00500	5	04/19/2021 04:45	WG1654139
trans-1,2-Dichloroethene	U		0.000745	0.00500	5	04/19/2021 04:45	WG1654139
1,2-Dichloropropane	U		0.000745	0.00500	5	04/19/2021 04:45	WG1654139
cis-1,3-Dichloropropene	U		0.000555	0.00500	5	04/19/2021 04:45	WG1654139
trans-1,3-Dichloropropene	U		0.000590	0.00500	5	04/19/2021 04:45	WG1654139
Ethylbenzene	U		0.000685	0.00500	5	04/19/2021 04:45	WG1654139
Isopropylbenzene	U		0.000525	0.00500	5	04/19/2021 04:45	WG1654139
p-Isopropyltoluene	U		0.000600	0.00500	5	04/19/2021 04:45	WG1654139
2-Butanone (MEK)	U		0.00595	0.0500	5	04/19/2021 04:45	WG1654139
2-Hexanone	U		0.00394	0.0500	5	04/19/2021 04:45	WG1654139
Methylene Chloride	U		0.00215	0.0250	5	04/19/2021 04:45	WG1654139
4-Methyl-2-pentanone (MIBK)	U		0.00239	0.0500	5	04/19/2021 04:45	WG1654139
Methyl tert-butyl ether	U		0.000505	0.00500	5	04/19/2021 04:45	WG1654139
Naphthalene	U		0.00500	0.0250	5	04/19/2021 04:45	WG1654139
n-Propylbenzene	U		0.000497	0.00500	5	04/19/2021 04:45	WG1654139
Styrene	U		0.000590	0.00500	5	04/19/2021 04:45	WG1654139
1,1,1,2-Tetrachloroethane	U		0.000735	0.00500	5	04/19/2021 04:45	WG1654139
1,1,2,2-Tetrachloroethane	U		0.000665	0.00500	5	04/19/2021 04:45	WG1654139
Tetrachloroethene	U		0.00150	0.00500	5	04/19/2021 04:45	WG1654139
Toluene	U		0.00139	0.00500	5	04/19/2021 04:45	WG1654139
1,1,1-Trichloroethane	U		0.000745	0.00500	5	04/19/2021 04:45	WG1654139
1,1,2-Trichloroethane	U		0.000790	0.00500	5	04/19/2021 04:45	WG1654139
Trichloroethene	U		0.000950	0.00500	5	04/19/2021 04:45	WG1654139
1,2,4-Trimethylbenzene	U		0.00161	0.00500	5	04/19/2021 04:45	WG1654139
1,3,5-Trimethylbenzene	U		0.000520	0.00500	5	04/19/2021 04:45	WG1654139
Vinyl chloride	U		0.00117	0.00500	5	04/19/2021 04:45	WG1654139
o-Xylene	U		0.000870	0.00500	5	04/19/2021 04:45	WG1654139
m&p-Xylene	U		0.00215	0.0100	5	04/19/2021 04:45	WG1654139
Xylenes, Total	U		0.000870	0.0150	5	04/19/2021 04:45	WG1654139
(S) Toluene-d8	*108*			*80.0-120*		*04/19/2021 04:45*	WG1654139
(S) 4-Bromofluorobenzene	*111*			*77.0-126*		*04/19/2021 04:45*	WG1654139
(S) 1,2-Dichloroethane-d4	*98.4*			*70.0-130*		*04/19/2021 04:45*	WG1654139

Sample Narrative:

L1340049-01 WG1654139: Dilution due to foam.

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.614	B	0.0247	0.100	1	04/28/2021 12:40	WG1656974
(S) o-Terphenyl	*125*			*31.0-160*		*04/28/2021 12:40*	WG1656974

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4360	J3	100	1	04/20/2021 17:09	WG1655172

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.0576	J	0.0500	0.100	1	05/03/2021 21:53	WG1661753

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1070		37.9	100	100	04/23/2021 01:15	WG1657189
Fluoride	4.52		0.0640	0.150	1	04/23/2021 00:58	WG1657189
Sulfate	2300		59.4	500	100	04/23/2021 01:15	WG1657189

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0252		0.000180	0.00200	1	04/27/2021 02:00	WG1656901
Arsenic,Dissolved	0.0231		0.000180	0.00200	1	04/27/2021 11:24	WG1656505
Barium	0.0120	J	0.000381	0.0200	1	04/27/2021 02:00	WG1656901
Barium,Dissolved	0.0131	J	0.000381	0.0200	1	04/27/2021 11:24	WG1656505
Calcium	657		0.0936	1.00	1	04/27/2021 02:00	WG1656901
Chromium	U		0.00124	0.00200	1	04/27/2021 02:00	WG1656901
Chromium,Dissolved	U		0.00124	0.00200	1	04/27/2021 11:24	WG1656505
Iron	0.0709	J	0.0281	0.100	1	04/27/2021 02:00	WG1656901
Iron,Dissolved	U		0.0281	0.100	1	04/27/2021 11:24	WG1656505
Lead	U		0.000849	0.00200	1	04/27/2021 02:00	WG1656901
Lead,Dissolved	U		0.000849	0.00200	1	04/27/2021 11:24	WG1656505
Manganese	1.83		0.000704	0.00500	1	04/27/2021 02:00	WG1656901
Manganese,Dissolved	1.80		0.000704	0.00500	1	04/27/2021 11:24	WG1656505
Potassium	3.31		0.108	2.00	1	04/27/2021 02:00	WG1656901
Selenium	0.00686		0.000300	0.00200	1	04/27/2021 02:00	WG1656901
Selenium,Dissolved	0.00648		0.000300	0.00200	1	04/27/2021 11:24	WG1656505
Sodium	636		0.376	2.00	1	04/27/2021 02:00	WG1656901

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/23/2021 11:46	WG1657423
(S) a,a,a-Trifluorotoluene(FID)	*99.8*			*78.0-120*		*04/23/2021 11:46*	WG1657423

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/18/2021 23:40	WG1654139
Benzene	U		0.0000941	0.00100	1	04/18/2021 23:40	WG1654139
Bromodichloromethane	U		0.000136	0.00100	1	04/18/2021 23:40	WG1654139
Bromoform	U		0.000129	0.00100	1	04/18/2021 23:40	WG1654139
Bromomethane	U		0.000605	0.00500	1	04/18/2021 23:40	WG1654139
n-Butylbenzene	U		0.000157	0.00100	1	04/18/2021 23:40	WG1654139
sec-Butylbenzene	U		0.000125	0.00100	1	04/18/2021 23:40	WG1654139
Carbon disulfide	U		0.0000962	0.00100	1	04/18/2021 23:40	WG1654139
Carbon tetrachloride	U		0.000128	0.00100	1	04/18/2021 23:40	WG1654139

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/18/2021 23:40	WG1654139
Chlorodibromomethane	U		0.000140	0.00100	1	04/18/2021 23:40	WG1654139
Chloroethane	U		0.000192	0.00500	1	04/18/2021 23:40	WG1654139
Chloroform	U		0.000111	0.00500	1	04/18/2021 23:40	WG1654139
Chloromethane	U		0.000960	0.00250	1	04/18/2021 23:40	WG1654139
1,2-Dibromoethane	U		0.000126	0.00100	1	04/18/2021 23:40	WG1654139
1,1-Dichloroethane	U		0.000100	0.00100	1	04/18/2021 23:40	WG1654139
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/18/2021 23:40	WG1654139
1,1-Dichloroethene	U		0.000188	0.00100	1	04/18/2021 23:40	WG1654139
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/18/2021 23:40	WG1654139
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/18/2021 23:40	WG1654139
1,2-Dichloropropane	U		0.000149	0.00100	1	04/18/2021 23:40	WG1654139
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/18/2021 23:40	WG1654139
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/18/2021 23:40	WG1654139
Ethylbenzene	U		0.000137	0.00100	1	04/18/2021 23:40	WG1654139
Isopropylbenzene	U		0.000105	0.00100	1	04/18/2021 23:40	WG1654139
p-Isopropyltoluene	U		0.000120	0.00100	1	04/18/2021 23:40	WG1654139
2-Butanone (MEK)	U		0.00119	0.0100	1	04/18/2021 23:40	WG1654139
2-Hexanone	U		0.000787	0.0100	1	04/18/2021 23:40	WG1654139
Methylene Chloride	U		0.000430	0.00500	1	04/18/2021 23:40	WG1654139
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/18/2021 23:40	WG1654139
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/18/2021 23:40	WG1654139
Naphthalene	U		0.00100	0.00500	1	04/18/2021 23:40	WG1654139
n-Propylbenzene	U		0.0000993	0.00100	1	04/18/2021 23:40	WG1654139
Styrene	U		0.000118	0.00100	1	04/18/2021 23:40	WG1654139
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/18/2021 23:40	WG1654139
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/18/2021 23:40	WG1654139
Tetrachloroethene	U		0.000300	0.00100	1	04/18/2021 23:40	WG1654139
Toluene	U		0.000278	0.00100	1	04/18/2021 23:40	WG1654139
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/18/2021 23:40	WG1654139
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/18/2021 23:40	WG1654139
Trichloroethene	U		0.000190	0.00100	1	04/18/2021 23:40	WG1654139
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/18/2021 23:40	WG1654139
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/18/2021 23:40	WG1654139
Vinyl chloride	U		0.000234	0.00100	1	04/18/2021 23:40	WG1654139
o-Xylene	U		0.000174	0.00100	1	04/18/2021 23:40	WG1654139
m&p-Xylene	U		0.000430	0.00200	1	04/18/2021 23:40	WG1654139
Xylenes, Total	U		0.000174	0.00300	1	04/18/2021 23:40	WG1654139
(S) Toluene-d8	*108*			*80.0-120*		*04/18/2021 23:40*	WG1654139
(S) 4-Bromofluorobenzene	*108*			*77.0-126*		*04/18/2021 23:40*	WG1654139
(S) 1,2-Dichloroethane-d4	*96.2*			*70.0-130*		*04/18/2021 23:40*	WG1654139

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.368	B	0.0247	0.100	1	04/27/2021 23:00	WG1656974
(S) o-Terphenyl	*113*			*31.0-160*		*04/27/2021 23:00*	WG1656974

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	9040		200	1	04/20/2021 14:56	WG1655033

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.0500	0.100	1	05/03/2021 21:57	WG1661753

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	1320		37.9	100	100	04/23/2021 02:20	WG1657189
Fluoride	5.81		0.640	1.50	10	04/23/2021 02:04	WG1657189
Sulfate	3930		59.4	500	100	04/23/2021 02:20	WG1657189

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.102		0.000180	0.00200	1	04/27/2021 11:48	WG1656907
Arsenic,Dissolved	0.0870		0.000180	0.00200	1	04/27/2021 11:27	WG1656505
Barium	0.0129	J	0.000381	0.0200	1	04/27/2021 11:48	WG1656907
Barium,Dissolved	0.0128	J	0.000381	0.0200	1	04/27/2021 11:27	WG1656505
Calcium	592		0.0936	1.00	1	04/27/2021 11:48	WG1656907
Chromium	0.00369		0.00124	0.00200	1	04/27/2021 11:48	WG1656907
Chromium,Dissolved	0.00359		0.00124	0.00200	1	04/27/2021 11:27	WG1656505
Iron	1.25		0.0281	0.100	1	04/27/2021 11:48	WG1656907
Iron,Dissolved	0.0775	J	0.0281	0.100	1	04/27/2021 11:27	WG1656505
Lead	U		0.000849	0.00200	1	04/27/2021 11:48	WG1656907
Lead,Dissolved	U		0.00424	0.0100	5	04/27/2021 12:01	WG1656505
Manganese	2.46		0.000704	0.00500	1	04/27/2021 11:48	WG1656907
Manganese,Dissolved	2.49		0.000704	0.00500	1	04/27/2021 11:27	WG1656505
Potassium	6.44		0.108	2.00	1	04/27/2021 11:48	WG1656907
Selenium	0.00662		0.000300	0.00200	1	04/27/2021 11:48	WG1656907
Selenium,Dissolved	0.00590		0.000300	0.00200	1	04/27/2021 11:27	WG1656505
Sodium	1370		1.88	10.0	5	04/27/2021 13:19	WG1656907

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	0.537		0.157	0.500	5	04/26/2021 02:25	WG1658422
(S) a,a,a-Trifluorotoluene(FID)	*101*			*78.0-120*		*04/26/2021 02:25*	WG1658422

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.113	0.500	10	04/19/2021 05:46	WG1654139
Benzene	U		0.000941	0.0100	10	04/19/2021 05:46	WG1654139
Bromodichloromethane	U		0.00136	0.0100	10	04/19/2021 05:46	WG1654139
Bromoform	U		0.00129	0.0100	10	04/19/2021 05:46	WG1654139
Bromomethane	U		0.00605	0.0500	10	04/19/2021 05:46	WG1654139
n-Butylbenzene	U		0.00157	0.0100	10	04/19/2021 05:46	WG1654139
sec-Butylbenzene	U		0.00125	0.0100	10	04/19/2021 05:46	WG1654139
Carbon disulfide	U		0.000962	0.0100	10	04/19/2021 05:46	WG1654139
Carbon tetrachloride	U		0.00128	0.0100	10	04/19/2021 05:46	WG1654139

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.00116	0.0100	10	04/19/2021 05:46	WG1654139
Chlorodibromomethane	U		0.00140	0.0100	10	04/19/2021 05:46	WG1654139
Chloroethane	U		0.00192	0.0500	10	04/19/2021 05:46	WG1654139
Chloroform	U		0.00111	0.0500	10	04/19/2021 05:46	WG1654139
Chloromethane	U		0.00960	0.0250	10	04/19/2021 05:46	WG1654139
1,2-Dibromoethane	U		0.00126	0.0100	10	04/19/2021 05:46	WG1654139
1,1-Dichloroethane	U		0.00100	0.0100	10	04/19/2021 05:46	WG1654139
1,2-Dichloroethane	U		0.000819	0.0100	10	04/19/2021 05:46	WG1654139
1,1-Dichloroethene	U		0.00188	0.0100	10	04/19/2021 05:46	WG1654139
cis-1,2-Dichloroethene	U		0.00126	0.0100	10	04/19/2021 05:46	WG1654139
trans-1,2-Dichloroethene	U		0.00149	0.0100	10	04/19/2021 05:46	WG1654139
1,2-Dichloropropane	U		0.00149	0.0100	10	04/19/2021 05:46	WG1654139
cis-1,3-Dichloropropene	U		0.00111	0.0100	10	04/19/2021 05:46	WG1654139
trans-1,3-Dichloropropene	U		0.00118	0.0100	10	04/19/2021 05:46	WG1654139
Ethylbenzene	U		0.00137	0.0100	10	04/19/2021 05:46	WG1654139
Isopropylbenzene	U		0.00105	0.0100	10	04/19/2021 05:46	WG1654139
p-Isopropyltoluene	U		0.00120	0.0100	10	04/19/2021 05:46	WG1654139
2-Butanone (MEK)	U		0.0119	0.100	10	04/19/2021 05:46	WG1654139
2-Hexanone	U		0.00787	0.100	10	04/19/2021 05:46	WG1654139
Methylene Chloride	U		0.00430	0.0500	10	04/19/2021 05:46	WG1654139
4-Methyl-2-pentanone (MIBK)	U		0.00478	0.100	10	04/19/2021 05:46	WG1654139
Methyl tert-butyl ether	U		0.00101	0.0100	10	04/19/2021 05:46	WG1654139
Naphthalene	U		0.0100	0.0500	10	04/19/2021 05:46	WG1654139
n-Propylbenzene	U		0.000993	0.0100	10	04/19/2021 05:46	WG1654139
Styrene	U		0.00118	0.0100	10	04/19/2021 05:46	WG1654139
1,1,1,2-Tetrachloroethane	U		0.00147	0.0100	10	04/19/2021 05:46	WG1654139
1,1,2,2-Tetrachloroethane	U		0.00133	0.0100	10	04/19/2021 05:46	WG1654139
Tetrachloroethene	U		0.00300	0.0100	10	04/19/2021 05:46	WG1654139
Toluene	U		0.00278	0.0100	10	04/19/2021 05:46	WG1654139
1,1,1-Trichloroethane	U		0.00149	0.0100	10	04/19/2021 05:46	WG1654139
1,1,2-Trichloroethane	U		0.00158	0.0100	10	04/19/2021 05:46	WG1654139
Trichloroethene	U		0.00190	0.0100	10	04/19/2021 05:46	WG1654139
1,2,4-Trimethylbenzene	U		0.00322	0.0100	10	04/19/2021 05:46	WG1654139
1,3,5-Trimethylbenzene	U		0.00104	0.0100	10	04/19/2021 05:46	WG1654139
Vinyl chloride	U		0.00234	0.0100	10	04/19/2021 05:46	WG1654139
o-Xylene	U		0.00174	0.0100	10	04/19/2021 05:46	WG1654139
m&p-Xylene	U		0.00430	0.0200	10	04/19/2021 05:46	WG1654139
Xylenes, Total	U		0.00174	0.0300	10	04/19/2021 05:46	WG1654139
(S) Toluene-d8	*110*			*80.0-120*		*04/19/2021 05:46*	WG1654139
(S) 4-Bromofluorobenzene	*112*			*77.0-126*		*04/19/2021 05:46*	WG1654139
(S) 1,2-Dichloroethane-d4	*95.4*			*70.0-130*		*04/19/2021 05:46*	WG1654139

Sample Narrative:

L1340049-03 WG1654139: Dilution due to foam.

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	62.9		0.494	2.00	20	04/23/2021 16:55	WG1656974
(S) o-Terphenyl	*0.000*	J7		*31.0-160*		*04/23/2021 16:55*	WG1656974

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4940		100	1	04/20/2021 14:56	WG1655033

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	1.65		0.0500	0.100	1	05/03/2021 21:58	WG1661753

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	987		37.9	100	100	04/23/2021 02:53	WG1657189
Fluoride	6.61		0.0640	0.150	1	04/23/2021 02:37	WG1657189
Sulfate	1840		59.4	500	100	04/23/2021 02:53	WG1657189

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00614		0.000180	0.00200	1	04/27/2021 11:35	WG1656907
Arsenic,Dissolved	0.00633		0.000180	0.00200	1	04/27/2021 11:45	WG1656505
Barium	0.0144	J	0.000381	0.0200	1	04/27/2021 11:35	WG1656907
Barium,Dissolved	0.0145	J	0.000381	0.0200	1	04/27/2021 11:45	WG1656505
Calcium	456		0.0936	1.00	1	04/27/2021 11:35	WG1656907
Chromium	U		0.00124	0.00200	1	04/27/2021 11:35	WG1656907
Chromium,Dissolved	0.00142	J	0.00124	0.00200	1	04/27/2021 11:45	WG1656505
Iron	U		0.0281	0.100	1	04/27/2021 11:35	WG1656907
Iron,Dissolved	U		0.0281	0.100	1	04/27/2021 11:45	WG1656505
Lead	U		0.000849	0.00200	1	04/27/2021 11:35	WG1656907
Lead,Dissolved	U		0.000849	0.00200	1	04/27/2021 11:45	WG1656505
Manganese	0.0251		0.000704	0.00500	1	04/27/2021 11:35	WG1656907
Manganese,Dissolved	0.0265		0.000704	0.00500	1	04/27/2021 11:45	WG1656505
Potassium	6.52		0.108	2.00	1	04/27/2021 11:35	WG1656907
Selenium	0.00699		0.000300	0.00200	1	04/27/2021 11:35	WG1656907
Selenium,Dissolved	0.00757		0.000300	0.00200	1	04/27/2021 11:45	WG1656505
Sodium	962	V	0.376	2.00	1	04/27/2021 11:35	WG1656907

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/23/2021 12:08	WG1657423
(S) a,a,a-Trifluorotoluene(FID)	*101*			*78.0-120*		*04/23/2021 12:08*	WG1657423

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/19/2021 00:00	WG1654139
Benzene	U		0.0000941	0.00100	1	04/19/2021 00:00	WG1654139
Bromodichloromethane	U		0.000136	0.00100	1	04/19/2021 00:00	WG1654139
Bromoform	U		0.000129	0.00100	1	04/19/2021 00:00	WG1654139
Bromomethane	U		0.000605	0.00500	1	04/19/2021 00:00	WG1654139
n-Butylbenzene	U		0.000157	0.00100	1	04/19/2021 00:00	WG1654139
sec-Butylbenzene	U		0.000125	0.00100	1	04/19/2021 00:00	WG1654139
Carbon disulfide	U		0.0000962	0.00100	1	04/19/2021 00:00	WG1654139
Carbon tetrachloride	U		0.000128	0.00100	1	04/19/2021 00:00	WG1654139

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/19/2021 00:00	WG1654139
Chlorodibromomethane	U		0.000140	0.00100	1	04/19/2021 00:00	WG1654139
Chloroethane	U		0.000192	0.00500	1	04/19/2021 00:00	WG1654139
Chloroform	U		0.000111	0.00500	1	04/19/2021 00:00	WG1654139
Chloromethane	U		0.000960	0.00250	1	04/19/2021 00:00	WG1654139
1,2-Dibromoethane	U		0.000126	0.00100	1	04/19/2021 00:00	WG1654139
1,1-Dichloroethane	U		0.000100	0.00100	1	04/19/2021 00:00	WG1654139
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/19/2021 00:00	WG1654139
1,1-Dichloroethene	U		0.000188	0.00100	1	04/19/2021 00:00	WG1654139
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/19/2021 00:00	WG1654139
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/19/2021 00:00	WG1654139
1,2-Dichloropropane	U		0.000149	0.00100	1	04/19/2021 00:00	WG1654139
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/19/2021 00:00	WG1654139
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/19/2021 00:00	WG1654139
Ethylbenzene	U		0.000137	0.00100	1	04/19/2021 00:00	WG1654139
Isopropylbenzene	U		0.000105	0.00100	1	04/19/2021 00:00	WG1654139
p-Isopropyltoluene	U		0.000120	0.00100	1	04/19/2021 00:00	WG1654139
2-Butanone (MEK)	U		0.00119	0.0100	1	04/19/2021 00:00	WG1654139
2-Hexanone	U		0.000787	0.0100	1	04/19/2021 00:00	WG1654139
Methylene Chloride	U		0.000430	0.00500	1	04/19/2021 00:00	WG1654139
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/19/2021 00:00	WG1654139
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/19/2021 00:00	WG1654139
Naphthalene	U		0.00100	0.00500	1	04/19/2021 00:00	WG1654139
n-Propylbenzene	U		0.0000993	0.00100	1	04/19/2021 00:00	WG1654139
Styrene	U		0.000118	0.00100	1	04/19/2021 00:00	WG1654139
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/19/2021 00:00	WG1654139
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/19/2021 00:00	WG1654139
Tetrachloroethene	U		0.000300	0.00100	1	04/19/2021 00:00	WG1654139
Toluene	U		0.000278	0.00100	1	04/19/2021 00:00	WG1654139
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/19/2021 00:00	WG1654139
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/19/2021 00:00	WG1654139
Trichloroethene	U		0.000190	0.00100	1	04/19/2021 00:00	WG1654139
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/19/2021 00:00	WG1654139
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/19/2021 00:00	WG1654139
Vinyl chloride	U		0.000234	0.00100	1	04/19/2021 00:00	WG1654139
o-Xylene	U		0.000174	0.00100	1	04/19/2021 00:00	WG1654139
m&p-Xylene	U		0.000430	0.00200	1	04/19/2021 00:00	WG1654139
Xylenes, Total	U		0.000174	0.00300	1	04/19/2021 00:00	WG1654139
(S) Toluene-d8	*109*			*80.0-120*		*04/19/2021 00:00*	WG1654139
(S) 4-Bromofluorobenzene	*110*			*77.0-126*		*04/19/2021 00:00*	WG1654139
(S) 1,2-Dichloroethane-d4	*96.2*			*70.0-130*		*04/19/2021 00:00*	WG1654139

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.866	B	0.0247	0.100	1	04/23/2021 14:13	WG1656974
(S) o-Terphenyl	*98.9*			*31.0-160*		*04/23/2021 14:13*	WG1656974

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3780		100	1	04/20/2021 17:58	WG1655174

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	2.02		0.250	0.500	5	05/03/2021 22:44	WG1661753

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	980		37.9	100	100	04/23/2021 03:26	WG1657189
Fluoride	2.46		0.0640	0.150	1	04/23/2021 03:10	WG1657189
Sulfate	1750		59.4	500	100	04/23/2021 03:26	WG1657189

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00170	J	0.000180	0.00200	1	04/27/2021 11:52	WG1656907
Arsenic,Dissolved	0.00176	J	0.000180	0.00200	1	04/27/2021 11:48	WG1656505
Barium	0.0130	J	0.000381	0.0200	1	04/27/2021 11:52	WG1656907
Barium,Dissolved	0.0135	J	0.000381	0.0200	1	04/27/2021 11:48	WG1656505
Calcium	592		0.0936	1.00	1	04/27/2021 11:52	WG1656907
Chromium	U		0.00124	0.00200	1	04/27/2021 11:52	WG1656907
Chromium,Dissolved	U		0.00124	0.00200	1	04/27/2021 11:48	WG1656505
Iron	0.0443	J	0.0281	0.100	1	04/27/2021 11:52	WG1656907
Iron,Dissolved	U		0.0281	0.100	1	04/27/2021 11:48	WG1656505
Lead	U		0.000849	0.00200	1	04/27/2021 11:52	WG1656907
Lead,Dissolved	U		0.000849	0.00200	1	04/27/2021 11:48	WG1656505
Manganese	0.0589		0.000704	0.00500	1	04/27/2021 11:52	WG1656907
Manganese,Dissolved	0.0444		0.000704	0.00500	1	04/27/2021 11:48	WG1656505
Potassium	2.77		0.108	2.00	1	04/27/2021 11:52	WG1656907
Selenium	0.000549	J	0.000300	0.00200	1	04/27/2021 11:52	WG1656907
Selenium,Dissolved	0.000623	J	0.000300	0.00200	1	04/27/2021 11:48	WG1656505
Sodium	684		0.376	2.00	1	04/27/2021 11:52	WG1656907

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/23/2021 12:30	WG1657423
(S) a,a,a-Trifluorotoluene(FID)	*99.7*			*78.0-120*		*04/23/2021 12:30*	WG1657423

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/19/2021 00:20	WG1654139
Benzene	U		0.0000941	0.00100	1	04/19/2021 00:20	WG1654139
Bromodichloromethane	U		0.000136	0.00100	1	04/19/2021 00:20	WG1654139
Bromoform	U		0.000129	0.00100	1	04/19/2021 00:20	WG1654139
Bromomethane	U		0.000605	0.00500	1	04/19/2021 00:20	WG1654139
n-Butylbenzene	U		0.000157	0.00100	1	04/19/2021 00:20	WG1654139
sec-Butylbenzene	U		0.000125	0.00100	1	04/19/2021 00:20	WG1654139
Carbon disulfide	U		0.0000962	0.00100	1	04/19/2021 00:20	WG1654139
Carbon tetrachloride	U		0.000128	0.00100	1	04/19/2021 00:20	WG1654139

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/19/2021 00:20	WG1654139
Chlorodibromomethane	U		0.000140	0.00100	1	04/19/2021 00:20	WG1654139
Chloroethane	U		0.000192	0.00500	1	04/19/2021 00:20	WG1654139
Chloroform	U		0.000111	0.00500	1	04/19/2021 00:20	WG1654139
Chloromethane	U		0.000960	0.00250	1	04/19/2021 00:20	WG1654139
1,2-Dibromoethane	U		0.000126	0.00100	1	04/19/2021 00:20	WG1654139
1,1-Dichloroethane	U		0.000100	0.00100	1	04/19/2021 00:20	WG1654139
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/19/2021 00:20	WG1654139
1,1-Dichloroethene	U		0.000188	0.00100	1	04/19/2021 00:20	WG1654139
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/19/2021 00:20	WG1654139
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/19/2021 00:20	WG1654139
1,2-Dichloropropane	U		0.000149	0.00100	1	04/19/2021 00:20	WG1654139
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/19/2021 00:20	WG1654139
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/19/2021 00:20	WG1654139
Ethylbenzene	U		0.000137	0.00100	1	04/19/2021 00:20	WG1654139
Isopropylbenzene	U		0.000105	0.00100	1	04/19/2021 00:20	WG1654139
p-Isopropyltoluene	U		0.000120	0.00100	1	04/19/2021 00:20	WG1654139
2-Butanone (MEK)	U		0.00119	0.0100	1	04/19/2021 00:20	WG1654139
2-Hexanone	U		0.000787	0.0100	1	04/19/2021 00:20	WG1654139
Methylene Chloride	U		0.000430	0.00500	1	04/19/2021 00:20	WG1654139
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/19/2021 00:20	WG1654139
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/19/2021 00:20	WG1654139
Naphthalene	U		0.00100	0.00500	1	04/19/2021 00:20	WG1654139
n-Propylbenzene	U		0.0000993	0.00100	1	04/19/2021 00:20	WG1654139
Styrene	U		0.000118	0.00100	1	04/19/2021 00:20	WG1654139
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/19/2021 00:20	WG1654139
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/19/2021 00:20	WG1654139
Tetrachloroethene	U		0.000300	0.00100	1	04/19/2021 00:20	WG1654139
Toluene	U		0.000278	0.00100	1	04/19/2021 00:20	WG1654139
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/19/2021 00:20	WG1654139
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/19/2021 00:20	WG1654139
Trichloroethene	U		0.000190	0.00100	1	04/19/2021 00:20	WG1654139
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/19/2021 00:20	WG1654139
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/19/2021 00:20	WG1654139
Vinyl chloride	U		0.000234	0.00100	1	04/19/2021 00:20	WG1654139
o-Xylene	U		0.000174	0.00100	1	04/19/2021 00:20	WG1654139
m&p-Xylene	U		0.000430	0.00200	1	04/19/2021 00:20	WG1654139
Xylenes, Total	U		0.000174	0.00300	1	04/19/2021 00:20	WG1654139
(S) Toluene-d8	*106*			*80.0-120*		*04/19/2021 00:20*	WG1654139
(S) 4-Bromofluorobenzene	*107*			*77.0-126*		*04/19/2021 00:20*	WG1654139
(S) 1,2-Dichloroethane-d4	*95.6*			*70.0-130*		*04/19/2021 00:20*	WG1654139

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.254	B	0.0247	0.100	1	04/27/2021 23:21	WG1656974
(S) o-Terphenyl	*109*			*31.0-160*		*04/27/2021 23:21*	WG1656974

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	5550		100	1	04/20/2021 17:09	WG1655172

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	2.35		0.0500	0.100	1	05/03/2021 22:05	WG1661753

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1700		37.9	100	100	04/23/2021 03:59	WG1657189
Fluoride	5.90		0.640	1.50	10	04/23/2021 03:43	WG1657189
Sulfate	2120		59.4	500	100	04/23/2021 03:59	WG1657189

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00266		0.000180	0.00200	1	04/27/2021 11:55	WG1656907
Arsenic,Dissolved	0.00248		0.000180	0.00200	1	04/27/2021 11:52	WG1656505
Barium	0.0136	J	0.000381	0.0200	1	04/27/2021 11:55	WG1656907
Barium,Dissolved	0.0144	J	0.000381	0.0200	1	04/27/2021 11:52	WG1656505
Calcium	647		0.0936	1.00	1	04/27/2021 11:55	WG1656907
Chromium	U		0.00124	0.00200	1	04/27/2021 11:55	WG1656907
Chromium,Dissolved	U		0.00124	0.00200	1	04/27/2021 11:52	WG1656505
Iron	0.0976	J	0.0281	0.100	1	04/27/2021 11:55	WG1656907
Iron,Dissolved	U		0.0281	0.100	1	04/27/2021 11:52	WG1656505
Lead	U		0.000849	0.00200	1	04/27/2021 11:55	WG1656907
Lead,Dissolved	U		0.000849	0.00200	1	04/27/2021 11:52	WG1656505
Manganese	0.620		0.000704	0.00500	1	04/27/2021 11:55	WG1656907
Manganese,Dissolved	0.635		0.000704	0.00500	1	04/27/2021 11:52	WG1656505
Potassium	6.84		0.108	2.00	1	04/27/2021 11:55	WG1656907
Selenium	0.000434	J	0.000300	0.00200	1	04/27/2021 11:55	WG1656907
Selenium,Dissolved	0.000497	J	0.000300	0.00200	1	04/27/2021 11:52	WG1656505
Sodium	1110		1.88	10.0	5	04/27/2021 13:22	WG1656907

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/23/2021 12:52	WG1657423
(S) a,a,a-Trifluorotoluene(FID)	*100*			*78.0-120*		*04/23/2021 12:52*	WG1657423

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/19/2021 00:41	WG1654139
Benzene	U		0.0000941	0.00100	1	04/19/2021 00:41	WG1654139
Bromodichloromethane	U		0.000136	0.00100	1	04/19/2021 00:41	WG1654139
Bromoform	U		0.000129	0.00100	1	04/19/2021 00:41	WG1654139
Bromomethane	U		0.000605	0.00500	1	04/19/2021 00:41	WG1654139
n-Butylbenzene	U		0.000157	0.00100	1	04/19/2021 00:41	WG1654139
sec-Butylbenzene	U		0.000125	0.00100	1	04/19/2021 00:41	WG1654139
Carbon disulfide	U		0.0000962	0.00100	1	04/19/2021 00:41	WG1654139
Carbon tetrachloride	U		0.000128	0.00100	1	04/19/2021 00:41	WG1654139

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/19/2021 00:41	WG1654139
Chlorodibromomethane	U		0.000140	0.00100	1	04/19/2021 00:41	WG1654139
Chloroethane	U		0.000192	0.00500	1	04/19/2021 00:41	WG1654139
Chloroform	U		0.000111	0.00500	1	04/19/2021 00:41	WG1654139
Chloromethane	U		0.000960	0.00250	1	04/19/2021 00:41	WG1654139
1,2-Dibromoethane	U		0.000126	0.00100	1	04/19/2021 00:41	WG1654139
1,1-Dichloroethane	U		0.000100	0.00100	1	04/19/2021 00:41	WG1654139
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/19/2021 00:41	WG1654139
1,1-Dichloroethene	U		0.000188	0.00100	1	04/19/2021 00:41	WG1654139
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/19/2021 00:41	WG1654139
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/19/2021 00:41	WG1654139
1,2-Dichloropropane	U		0.000149	0.00100	1	04/19/2021 00:41	WG1654139
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/19/2021 00:41	WG1654139
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/19/2021 00:41	WG1654139
Ethylbenzene	U		0.000137	0.00100	1	04/19/2021 00:41	WG1654139
Isopropylbenzene	U		0.000105	0.00100	1	04/19/2021 00:41	WG1654139
p-Isopropyltoluene	U		0.000120	0.00100	1	04/19/2021 00:41	WG1654139
2-Butanone (MEK)	U		0.00119	0.0100	1	04/19/2021 00:41	WG1654139
2-Hexanone	U		0.000787	0.0100	1	04/19/2021 00:41	WG1654139
Methylene Chloride	U		0.000430	0.00500	1	04/19/2021 00:41	WG1654139
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/19/2021 00:41	WG1654139
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/19/2021 00:41	WG1654139
Naphthalene	U		0.00100	0.00500	1	04/19/2021 00:41	WG1654139
n-Propylbenzene	U		0.0000993	0.00100	1	04/19/2021 00:41	WG1654139
Styrene	U		0.000118	0.00100	1	04/19/2021 00:41	WG1654139
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/19/2021 00:41	WG1654139
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/19/2021 00:41	WG1654139
Tetrachloroethene	U		0.000300	0.00100	1	04/19/2021 00:41	WG1654139
Toluene	U		0.000278	0.00100	1	04/19/2021 00:41	WG1654139
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/19/2021 00:41	WG1654139
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/19/2021 00:41	WG1654139
Trichloroethene	U		0.000190	0.00100	1	04/19/2021 00:41	WG1654139
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/19/2021 00:41	WG1654139
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/19/2021 00:41	WG1654139
Vinyl chloride	U		0.000234	0.00100	1	04/19/2021 00:41	WG1654139
o-Xylene	U		0.000174	0.00100	1	04/19/2021 00:41	WG1654139
m&p-Xylene	U		0.000430	0.00200	1	04/19/2021 00:41	WG1654139
Xylenes, Total	U		0.000174	0.00300	1	04/19/2021 00:41	WG1654139
(S) Toluene-d8	*107*			*80.0-120*		*04/19/2021 00:41*	WG1654139
(S) 4-Bromofluorobenzene	*109*			*77.0-126*		*04/19/2021 00:41*	WG1654139
(S) 1,2-Dichloroethane-d4	*98.0*			*70.0-130*		*04/19/2021 00:41*	WG1654139

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.331	B	0.0247	0.100	1	04/23/2021 14:54	WG1656974
(S) o-Terphenyl	*94.7*			*31.0-160*		*04/23/2021 14:54*	WG1656974

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	5810		50.0	1	04/21/2021 04:12	WG1655622

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	1.40		0.0500	0.100	1	05/03/2021 22:06	WG1661753

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	1410		37.9	100	100	04/23/2021 04:32	WG1657189
Fluoride	8.40		0.640	1.50	10	04/23/2021 04:15	WG1657189
Sulfate	1870		59.4	500	100	04/23/2021 04:32	WG1657189

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0153		0.000180	0.00200	1	04/27/2021 12:09	WG1656907
Arsenic,Dissolved	0.0130		0.000180	0.00200	1	04/27/2021 11:55	WG1656505
Barium	0.0230		0.000381	0.0200	1	04/27/2021 12:09	WG1656907
Barium,Dissolved	0.0248		0.000381	0.0200	1	04/27/2021 11:55	WG1656505
Calcium	520		0.0936	1.00	1	04/27/2021 12:09	WG1656907
Chromium	U		0.00124	0.00200	1	04/27/2021 12:09	WG1656907
Chromium,Dissolved	U		0.00124	0.00200	1	04/27/2021 11:55	WG1656505
Iron	0.156		0.0281	0.100	1	04/27/2021 12:09	WG1656907
Iron,Dissolved	0.0371	J	0.0281	0.100	1	04/27/2021 11:55	WG1656505
Lead	U		0.000849	0.00200	1	04/27/2021 12:09	WG1656907
Lead,Dissolved	U		0.00424	0.0100	5	04/27/2021 12:06	WG1656505
Manganese	2.70		0.000704	0.00500	1	04/27/2021 12:09	WG1656907
Manganese,Dissolved	2.79		0.000704	0.00500	1	04/27/2021 11:55	WG1656505
Potassium	9.31		0.108	2.00	1	04/27/2021 12:09	WG1656907
Selenium	0.000571	J	0.000300	0.00200	1	04/27/2021 12:09	WG1656907
Selenium,Dissolved	0.000542	J	0.000300	0.00200	1	04/27/2021 11:55	WG1656505
Sodium	1080		1.88	10.0	5	04/27/2021 13:26	WG1656907

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	0.216		0.0314	0.100	1	04/23/2021 13:14	WG1657423
(S) a,a,a-Trifluorotoluene(FID)	*100*			*78.0-120*		*04/23/2021 13:14*	WG1657423

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0113	0.0500	1	04/19/2021 01:01	WG1654139
Benzene	U		0.0000941	0.00100	1	04/19/2021 01:01	WG1654139
Bromodichloromethane	U		0.000136	0.00100	1	04/19/2021 01:01	WG1654139
Bromoform	U		0.000129	0.00100	1	04/19/2021 01:01	WG1654139
Bromomethane	U		0.000605	0.00500	1	04/19/2021 01:01	WG1654139
n-Butylbenzene	U		0.000157	0.00100	1	04/19/2021 01:01	WG1654139
sec-Butylbenzene	U		0.000125	0.00100	1	04/19/2021 01:01	WG1654139
Carbon disulfide	U		0.0000962	0.00100	1	04/19/2021 01:01	WG1654139
Carbon tetrachloride	U		0.000128	0.00100	1	04/19/2021 01:01	WG1654139

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/19/2021 01:01	WG1654139
Chlorodibromomethane	U		0.000140	0.00100	1	04/19/2021 01:01	WG1654139
Chloroethane	U		0.000192	0.00500	1	04/19/2021 01:01	WG1654139
Chloroform	U		0.000111	0.00500	1	04/19/2021 01:01	WG1654139
Chloromethane	U		0.000960	0.00250	1	04/19/2021 01:01	WG1654139
1,2-Dibromoethane	U		0.000126	0.00100	1	04/19/2021 01:01	WG1654139
1,1-Dichloroethane	U		0.000100	0.00100	1	04/19/2021 01:01	WG1654139
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/19/2021 01:01	WG1654139
1,1-Dichloroethene	U		0.000188	0.00100	1	04/19/2021 01:01	WG1654139
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/19/2021 01:01	WG1654139
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/19/2021 01:01	WG1654139
1,2-Dichloropropane	U		0.000149	0.00100	1	04/19/2021 01:01	WG1654139
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/19/2021 01:01	WG1654139
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/19/2021 01:01	WG1654139
Ethylbenzene	U		0.000137	0.00100	1	04/19/2021 01:01	WG1654139
Isopropylbenzene	U		0.000105	0.00100	1	04/19/2021 01:01	WG1654139
p-Isopropyltoluene	U		0.000120	0.00100	1	04/19/2021 01:01	WG1654139
2-Butanone (MEK)	U		0.00119	0.0100	1	04/19/2021 01:01	WG1654139
2-Hexanone	U		0.000787	0.0100	1	04/19/2021 01:01	WG1654139
Methylene Chloride	U		0.000430	0.00500	1	04/19/2021 01:01	WG1654139
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/19/2021 01:01	WG1654139
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/19/2021 01:01	WG1654139
Naphthalene	U		0.00100	0.00500	1	04/19/2021 01:01	WG1654139
n-Propylbenzene	U		0.0000993	0.00100	1	04/19/2021 01:01	WG1654139
Styrene	U		0.000118	0.00100	1	04/19/2021 01:01	WG1654139
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/19/2021 01:01	WG1654139
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/19/2021 01:01	WG1654139
Tetrachloroethene	U		0.000300	0.00100	1	04/19/2021 01:01	WG1654139
Toluene	U		0.000278	0.00100	1	04/19/2021 01:01	WG1654139
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/19/2021 01:01	WG1654139
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/19/2021 01:01	WG1654139
Trichloroethene	U		0.000190	0.00100	1	04/19/2021 01:01	WG1654139
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/19/2021 01:01	WG1654139
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/19/2021 01:01	WG1654139
Vinyl chloride	U		0.000234	0.00100	1	04/19/2021 01:01	WG1654139
o-Xylene	U		0.000174	0.00100	1	04/19/2021 01:01	WG1654139
m&p-Xylene	U		0.000430	0.00200	1	04/19/2021 01:01	WG1654139
Xylenes, Total	U		0.000174	0.00300	1	04/19/2021 01:01	WG1654139
(S) Toluene-d8	*107*			*80.0-120*		*04/19/2021 01:01*	WG1654139
(S) 4-Bromofluorobenzene	*111*			*77.0-126*		*04/19/2021 01:01*	WG1654139
(S) 1,2-Dichloroethane-d4	*97.2*			*70.0-130*		*04/19/2021 01:01*	WG1654139

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	1.75		0.0247	0.100	1	04/23/2021 15:14	WG1656974
(S) o-Terphenyl	*98.4*			*31.0-160*		*04/23/2021 15:14*	WG1656974

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	4300		100	1	04/20/2021 17:58	WG1655174

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.0500	0.100	1	05/03/2021 22:07	WG1661753

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	1090		37.9	100	100	04/23/2021 05:38	WG1657189
Fluoride	3.00		0.640	1.50	10	04/23/2021 05:21	WG1657189
Sulfate	1800		59.4	500	100	04/23/2021 05:38	WG1657189

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0333		0.000180	0.00200	1	04/27/2021 12:12	WG1656907
Arsenic,Dissolved	0.0228		0.000180	0.00200	1	04/27/2021 11:58	WG1656505
Barium	0.0126	J	0.000381	0.0200	1	04/27/2021 12:12	WG1656907
Barium,Dissolved	0.0130	J	0.000381	0.0200	1	04/27/2021 11:58	WG1656505
Calcium	425		0.0936	1.00	1	04/27/2021 12:12	WG1656907
Chromium	U		0.00124	0.00200	1	04/27/2021 12:12	WG1656907
Chromium,Dissolved	0.00140	J	0.00124	0.00200	1	04/27/2021 11:58	WG1656505
Iron	2.78		0.0281	0.100	1	04/27/2021 12:12	WG1656907
Iron,Dissolved	0.0396	J	0.0281	0.100	1	04/27/2021 11:58	WG1656505
Lead	U		0.000849	0.00200	1	04/27/2021 12:12	WG1656907
Lead,Dissolved	U		0.00424	0.0100	5	04/27/2021 12:10	WG1656505
Manganese	0.689		0.000704	0.00500	1	04/27/2021 12:12	WG1656907
Manganese,Dissolved	0.690		0.000704	0.00500	1	04/27/2021 11:58	WG1656505
Potassium	25.3		0.108	2.00	1	04/27/2021 12:12	WG1656907
Selenium	0.00154	J	0.000300	0.00200	1	04/27/2021 12:12	WG1656907
Selenium,Dissolved	0.00197	J	0.000300	0.00200	1	04/27/2021 11:58	WG1656505
Sodium	914		0.376	2.00	1	04/27/2021 12:12	WG1656907

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	0.902		0.0314	0.100	1	04/23/2021 13:36	WG1657423
(S) a,a,a-Trifluorotoluene(FID)	*99.7*			*78.0-120*		*04/23/2021 13:36*	WG1657423

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0113	0.0500	1	04/19/2021 01:22	WG1654139
Benzene	U		0.0000941	0.00100	1	04/19/2021 01:22	WG1654139
Bromodichloromethane	U		0.000136	0.00100	1	04/19/2021 01:22	WG1654139
Bromoform	U		0.000129	0.00100	1	04/19/2021 01:22	WG1654139
Bromomethane	U		0.000605	0.00500	1	04/19/2021 01:22	WG1654139
n-Butylbenzene	U		0.000157	0.00100	1	04/19/2021 01:22	WG1654139
sec-Butylbenzene	U		0.000125	0.00100	1	04/19/2021 01:22	WG1654139
Carbon disulfide	U		0.0000962	0.00100	1	04/19/2021 01:22	WG1654139
Carbon tetrachloride	U		0.000128	0.00100	1	04/19/2021 01:22	WG1654139

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/19/2021 01:22	WG1654139
Chlorodibromomethane	U		0.000140	0.00100	1	04/19/2021 01:22	WG1654139
Chloroethane	U		0.000192	0.00500	1	04/19/2021 01:22	WG1654139
Chloroform	U		0.000111	0.00500	1	04/19/2021 01:22	WG1654139
Chloromethane	U		0.000960	0.00250	1	04/19/2021 01:22	WG1654139
1,2-Dibromoethane	U		0.000126	0.00100	1	04/19/2021 01:22	WG1654139
1,1-Dichloroethane	U		0.000100	0.00100	1	04/19/2021 01:22	WG1654139
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/19/2021 01:22	WG1654139
1,1-Dichloroethene	U		0.000188	0.00100	1	04/19/2021 01:22	WG1654139
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/19/2021 01:22	WG1654139
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/19/2021 01:22	WG1654139
1,2-Dichloropropane	U		0.000149	0.00100	1	04/19/2021 01:22	WG1654139
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/19/2021 01:22	WG1654139
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/19/2021 01:22	WG1654139
Ethylbenzene	U		0.000137	0.00100	1	04/19/2021 01:22	WG1654139
Isopropylbenzene	0.00467		0.000105	0.00100	1	04/19/2021 01:22	WG1654139
p-Isopropyltoluene	U		0.000120	0.00100	1	04/19/2021 01:22	WG1654139
2-Butanone (MEK)	U		0.00119	0.0100	1	04/19/2021 01:22	WG1654139
2-Hexanone	U		0.000787	0.0100	1	04/19/2021 01:22	WG1654139
Methylene Chloride	U		0.000430	0.00500	1	04/19/2021 01:22	WG1654139
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/19/2021 01:22	WG1654139
Methyl tert-butyl ether	0.00437		0.000101	0.00100	1	04/19/2021 01:22	WG1654139
Naphthalene	U		0.00100	0.00500	1	04/19/2021 01:22	WG1654139
n-Propylbenzene	U		0.0000993	0.00100	1	04/19/2021 01:22	WG1654139
Styrene	U		0.000118	0.00100	1	04/19/2021 01:22	WG1654139
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/19/2021 01:22	WG1654139
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/19/2021 01:22	WG1654139
Tetrachloroethene	U		0.000300	0.00100	1	04/19/2021 01:22	WG1654139
Toluene	U		0.000278	0.00100	1	04/19/2021 01:22	WG1654139
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/19/2021 01:22	WG1654139
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/19/2021 01:22	WG1654139
Trichloroethene	U		0.000190	0.00100	1	04/19/2021 01:22	WG1654139
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/19/2021 01:22	WG1654139
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/19/2021 01:22	WG1654139
Vinyl chloride	U		0.000234	0.00100	1	04/19/2021 01:22	WG1654139
o-Xylene	U		0.000174	0.00100	1	04/19/2021 01:22	WG1654139
m&p-Xylene	U		0.000430	0.00200	1	04/19/2021 01:22	WG1654139
Xylenes, Total	U		0.000174	0.00300	1	04/19/2021 01:22	WG1654139
(S) Toluene-d8	*107*			*80.0-120*		*04/19/2021 01:22*	WG1654139
(S) 4-Bromofluorobenzene	*115*			*77.0-126*		*04/19/2021 01:22*	WG1654139
(S) 1,2-Dichloroethane-d4	*96.7*			*70.0-130*		*04/19/2021 01:22*	WG1654139

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	12.2		0.0494	0.200	2	04/27/2021 16:57	WG1656974
(S) o-Terphenyl	*148*			*31.0-160*		*04/27/2021 16:57*	WG1656974

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	5240		100	1	04/20/2021 17:09	WG1655172

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.0500	0.100	1	05/03/2021 22:08	WG1661753

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	514		3.79	10.0	10	04/23/2021 05:54	WG1657189
Fluoride	3.61		0.640	1.50	10	04/23/2021 05:54	WG1657189
Sulfate	3200		59.4	500	100	04/23/2021 08:09	WG1657189

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0281		0.000180	0.00200	1	04/27/2021 12:16	WG1656907
Arsenic,Dissolved	0.0247		0.000180	0.00200	1	04/27/2021 21:02	WG1656508
Barium	0.0115	J	0.000381	0.0200	1	04/27/2021 12:16	WG1656907
Barium,Dissolved	0.0114	J	0.000381	0.0200	1	04/27/2021 21:02	WG1656508
Calcium	495		0.0936	1.00	1	04/27/2021 12:16	WG1656907
Chromium	0.0138		0.00124	0.00200	1	04/27/2021 12:16	WG1656907
Chromium,Dissolved	0.0106		0.00124	0.00200	1	04/27/2021 21:02	WG1656508
Iron	2.35		0.0281	0.100	1	04/27/2021 12:16	WG1656907
Iron,Dissolved	0.110		0.0281	0.100	1	04/27/2021 21:02	WG1656508
Lead	U		0.000849	0.00200	1	04/27/2021 12:16	WG1656907
Lead,Dissolved	U		0.000849	0.00200	1	04/27/2021 21:02	WG1656508
Manganese	0.637		0.000704	0.00500	1	04/27/2021 12:16	WG1656907
Manganese,Dissolved	0.656		0.000704	0.00500	1	04/27/2021 21:02	WG1656508
Potassium	65.9		0.108	2.00	1	04/27/2021 12:16	WG1656907
Selenium	0.00866		0.000300	0.00200	1	04/27/2021 12:16	WG1656907
Selenium,Dissolved	0.00814		0.000300	0.00200	1	04/27/2021 21:02	WG1656508
Sodium	1060		1.88	10.0	5	04/27/2021 13:29	WG1656907

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	0.649		0.157	0.500	5	04/26/2021 02:47	WG1658422
(S) a,a,a-Trifluorotoluene(FID)	*102*			*78.0-120*		*04/26/2021 02:47*	WG1658422

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.282	1.25	25	04/19/2021 06:06	WG1654139
Benzene	U		0.00235	0.0250	25	04/19/2021 06:06	WG1654139
Bromodichloromethane	U		0.00340	0.0250	25	04/19/2021 06:06	WG1654139
Bromoform	U		0.00322	0.0250	25	04/19/2021 06:06	WG1654139
Bromomethane	U		0.0151	0.125	25	04/19/2021 06:06	WG1654139
n-Butylbenzene	U		0.00393	0.0250	25	04/19/2021 06:06	WG1654139
sec-Butylbenzene	U		0.00313	0.0250	25	04/19/2021 06:06	WG1654139
Carbon disulfide	U		0.00241	0.0250	25	04/19/2021 06:06	WG1654139
Carbon tetrachloride	U		0.00320	0.0250	25	04/19/2021 06:06	WG1654139

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.00290	0.0250	25	04/19/2021 06:06	WG1654139
Chlorodibromomethane	U		0.00350	0.0250	25	04/19/2021 06:06	WG1654139
Chloroethane	U		0.00480	0.125	25	04/19/2021 06:06	WG1654139
Chloroform	U		0.00278	0.125	25	04/19/2021 06:06	WG1654139
Chloromethane	U		0.0240	0.0625	25	04/19/2021 06:06	WG1654139
1,2-Dibromoethane	U		0.00315	0.0250	25	04/19/2021 06:06	WG1654139
1,1-Dichloroethane	U		0.00250	0.0250	25	04/19/2021 06:06	WG1654139
1,2-Dichloroethane	U		0.00205	0.0250	25	04/19/2021 06:06	WG1654139
1,1-Dichloroethene	U		0.00470	0.0250	25	04/19/2021 06:06	WG1654139
cis-1,2-Dichloroethene	U		0.00315	0.0250	25	04/19/2021 06:06	WG1654139
trans-1,2-Dichloroethene	U		0.00373	0.0250	25	04/19/2021 06:06	WG1654139
1,2-Dichloropropane	U		0.00373	0.0250	25	04/19/2021 06:06	WG1654139
cis-1,3-Dichloropropene	U		0.00278	0.0250	25	04/19/2021 06:06	WG1654139
trans-1,3-Dichloropropene	U		0.00295	0.0250	25	04/19/2021 06:06	WG1654139
Ethylbenzene	U		0.00343	0.0250	25	04/19/2021 06:06	WG1654139
Isopropylbenzene	U		0.00263	0.0250	25	04/19/2021 06:06	WG1654139
p-Isopropyltoluene	U		0.00300	0.0250	25	04/19/2021 06:06	WG1654139
2-Butanone (MEK)	U		0.0298	0.250	25	04/19/2021 06:06	WG1654139
2-Hexanone	U		0.0197	0.250	25	04/19/2021 06:06	WG1654139
Methylene Chloride	U		0.0107	0.125	25	04/19/2021 06:06	WG1654139
4-Methyl-2-pentanone (MIBK)	U		0.0120	0.250	25	04/19/2021 06:06	WG1654139
Methyl tert-butyl ether	U		0.00253	0.0250	25	04/19/2021 06:06	WG1654139
Naphthalene	U		0.0250	0.125	25	04/19/2021 06:06	WG1654139
n-Propylbenzene	U		0.00248	0.0250	25	04/19/2021 06:06	WG1654139
Styrene	U		0.00295	0.0250	25	04/19/2021 06:06	WG1654139
1,1,1,2-Tetrachloroethane	U		0.00368	0.0250	25	04/19/2021 06:06	WG1654139
1,1,2,2-Tetrachloroethane	U		0.00333	0.0250	25	04/19/2021 06:06	WG1654139
Tetrachloroethene	U		0.00750	0.0250	25	04/19/2021 06:06	WG1654139
Toluene	U		0.00695	0.0250	25	04/19/2021 06:06	WG1654139
1,1,1-Trichloroethane	U		0.00373	0.0250	25	04/19/2021 06:06	WG1654139
1,1,2-Trichloroethane	U		0.00395	0.0250	25	04/19/2021 06:06	WG1654139
Trichloroethene	U		0.00475	0.0250	25	04/19/2021 06:06	WG1654139
1,2,4-Trimethylbenzene	U		0.00805	0.0250	25	04/19/2021 06:06	WG1654139
1,3,5-Trimethylbenzene	U		0.00260	0.0250	25	04/19/2021 06:06	WG1654139
Vinyl chloride	U		0.00585	0.0250	25	04/19/2021 06:06	WG1654139
o-Xylene	U		0.00435	0.0250	25	04/19/2021 06:06	WG1654139
m&p-Xylene	U		0.0107	0.0500	25	04/19/2021 06:06	WG1654139
Xylenes, Total	U		0.00435	0.0750	25	04/19/2021 06:06	WG1654139
(S) Toluene-d8	*108*			*80.0-120*		*04/19/2021 06:06*	WG1654139
(S) 4-Bromofluorobenzene	*108*			*77.0-126*		*04/19/2021 06:06*	WG1654139
(S) 1,2-Dichloroethane-d4	*96.4*			*70.0-130*		*04/19/2021 06:06*	WG1654139

Sample Narrative:

L1340049-09 WG1654139: Dilution due to foam.

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	68.5		0.494	2.00	20	04/23/2021 17:15	WG1656974
(S) o-Terphenyl	*0.000*	J7		*31.0-160*		*04/23/2021 17:15*	WG1656974

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3480		50.0	1	04/20/2021 17:09	WG1655172

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	8.33		0.500	1.00	10	05/03/2021 22:45	WG1661753

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	317		19.0	50.0	50	04/23/2021 08:42	WG1657189
Fluoride	14.8		3.20	7.50	50	04/23/2021 08:42	WG1657189
Sulfate	1410		29.7	250	50	04/23/2021 08:42	WG1657189

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00985		0.000180	0.00200	1	04/27/2021 12:19	WG1656907
Arsenic,Dissolved	0.00912		0.000180	0.00200	1	04/27/2021 21:05	WG1656508
Barium	0.0433		0.000381	0.0200	1	04/27/2021 12:19	WG1656907
Barium,Dissolved	0.0456		0.000381	0.0200	1	04/27/2021 21:05	WG1656508
Calcium	319		0.0936	1.00	1	04/27/2021 12:19	WG1656907
Chromium	0.215		0.00124	0.00200	1	04/27/2021 12:19	WG1656907
Chromium,Dissolved	0.193		0.00124	0.00200	1	04/27/2021 21:05	WG1656508
Iron	0.436		0.0281	0.100	1	04/27/2021 12:19	WG1656907
Iron,Dissolved	0.0721	J	0.0281	0.100	1	04/27/2021 21:05	WG1656508
Lead	U		0.000849	0.00200	1	04/27/2021 12:19	WG1656907
Lead,Dissolved	U		0.000849	0.00200	1	04/27/2021 21:05	WG1656508
Manganese	0.372		0.000704	0.00500	1	04/27/2021 12:19	WG1656907
Manganese,Dissolved	0.388		0.000704	0.00500	1	04/27/2021 21:05	WG1656508
Potassium	17.8		0.108	2.00	1	04/27/2021 12:19	WG1656907
Selenium	0.0120		0.000300	0.00200	1	04/27/2021 12:19	WG1656907
Selenium,Dissolved	0.0126		0.000300	0.00200	1	04/27/2021 21:05	WG1656508
Sodium	365		0.376	2.00	1	04/27/2021 12:19	WG1656907

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0950	J	0.0314	0.100	1	04/26/2021 02:03	WG1658422
(S) a,a,a-Trifluorotoluene(FID)	*104*			*78.0-120*		*04/26/2021 02:03*	WG1658422

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	0.0140	J	0.0113	0.0500	1	04/19/2021 01:42	WG1654139
Benzene	U		0.0000941	0.00100	1	04/19/2021 01:42	WG1654139
Bromodichloromethane	U		0.000136	0.00100	1	04/19/2021 01:42	WG1654139
Bromoform	U		0.000129	0.00100	1	04/19/2021 01:42	WG1654139
Bromomethane	U		0.000605	0.00500	1	04/19/2021 01:42	WG1654139
n-Butylbenzene	U		0.000157	0.00100	1	04/19/2021 01:42	WG1654139
sec-Butylbenzene	U		0.000125	0.00100	1	04/19/2021 01:42	WG1654139
Carbon disulfide	U		0.0000962	0.00100	1	04/19/2021 01:42	WG1654139
Carbon tetrachloride	U		0.000128	0.00100	1	04/19/2021 01:42	WG1654139

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/19/2021 01:42	WG1654139
Chlorodibromomethane	U		0.000140	0.00100	1	04/19/2021 01:42	WG1654139
Chloroethane	U		0.000192	0.00500	1	04/19/2021 01:42	WG1654139
Chloroform	U		0.000111	0.00500	1	04/19/2021 01:42	WG1654139
Chloromethane	U		0.000960	0.00250	1	04/19/2021 01:42	WG1654139
1,2-Dibromoethane	U		0.000126	0.00100	1	04/19/2021 01:42	WG1654139
1,1-Dichloroethane	U		0.000100	0.00100	1	04/19/2021 01:42	WG1654139
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/19/2021 01:42	WG1654139
1,1-Dichloroethene	U		0.000188	0.00100	1	04/19/2021 01:42	WG1654139
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/19/2021 01:42	WG1654139
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/19/2021 01:42	WG1654139
1,2-Dichloropropane	U		0.000149	0.00100	1	04/19/2021 01:42	WG1654139
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/19/2021 01:42	WG1654139
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/19/2021 01:42	WG1654139
Ethylbenzene	U		0.000137	0.00100	1	04/19/2021 01:42	WG1654139
Isopropylbenzene	U		0.000105	0.00100	1	04/19/2021 01:42	WG1654139
p-Isopropyltoluene	U		0.000120	0.00100	1	04/19/2021 01:42	WG1654139
2-Butanone (MEK)	0.00270	J	0.00119	0.0100	1	04/19/2021 01:42	WG1654139
2-Hexanone	U		0.000787	0.0100	1	04/19/2021 01:42	WG1654139
Methylene Chloride	U		0.000430	0.00500	1	04/19/2021 01:42	WG1654139
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/19/2021 01:42	WG1654139
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/19/2021 01:42	WG1654139
Naphthalene	U		0.00100	0.00500	1	04/19/2021 01:42	WG1654139
n-Propylbenzene	U		0.0000993	0.00100	1	04/19/2021 01:42	WG1654139
Styrene	U		0.000118	0.00100	1	04/19/2021 01:42	WG1654139
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/19/2021 01:42	WG1654139
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/19/2021 01:42	WG1654139
Tetrachloroethene	U		0.000300	0.00100	1	04/19/2021 01:42	WG1654139
Toluene	U		0.000278	0.00100	1	04/19/2021 01:42	WG1654139
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/19/2021 01:42	WG1654139
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/19/2021 01:42	WG1654139
Trichloroethene	U		0.000190	0.00100	1	04/19/2021 01:42	WG1654139
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/19/2021 01:42	WG1654139
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/19/2021 01:42	WG1654139
Vinyl chloride	U		0.000234	0.00100	1	04/19/2021 01:42	WG1654139
o-Xylene	U		0.000174	0.00100	1	04/19/2021 01:42	WG1654139
m&p-Xylene	U		0.000430	0.00200	1	04/19/2021 01:42	WG1654139
Xylenes, Total	U		0.000174	0.00300	1	04/19/2021 01:42	WG1654139
(S) Toluene-d8	*108*			*80.0-120*		*04/19/2021 01:42*	WG1654139
(S) 4-Bromofluorobenzene	*113*			*77.0-126*		*04/19/2021 01:42*	WG1654139
(S) 1,2-Dichloroethane-d4	*97.5*			*70.0-130*		*04/19/2021 01:42*	WG1654139

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	385		4.94	20.0	200	04/27/2021 19:30	WG1656974
(S) o-Terphenyl	*0.000*	J7		*31.0-160*		*04/27/2021 19:30*	WG1656974

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4730		100	1	04/20/2021 17:58	WG1655174

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	2.16		0.0500	0.100	1	05/03/2021 22:11	WG1661753

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1350		37.9	100	100	04/23/2021 09:15	WG1657189
Fluoride	6.71		0.640	1.50	10	04/23/2021 08:58	WG1657189
Sulfate	1770		59.4	500	100	04/23/2021 09:15	WG1657189

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.102		0.000180	0.00200	1	04/27/2021 12:22	WG1656907
Arsenic,Dissolved	0.0888		0.000180	0.00200	1	04/27/2021 18:58	WG1656508
Barium	0.0157	J	0.000381	0.0200	1	04/27/2021 12:22	WG1656907
Barium,Dissolved	0.0145	J	0.000381	0.0200	1	04/27/2021 18:58	WG1656508
Calcium	370		0.0936	1.00	1	04/27/2021 12:22	WG1656907
Chromium	0.00132	J	0.00124	0.00200	1	04/27/2021 12:22	WG1656907
Chromium,Dissolved	0.00237		0.00124	0.00200	1	04/27/2021 18:58	WG1656508
Iron	0.314		0.0281	0.100	1	04/27/2021 12:22	WG1656907
Iron,Dissolved	0.0421	J	0.0281	0.100	1	04/27/2021 18:58	WG1656508
Lead	U		0.000849	0.00200	1	04/27/2021 12:22	WG1656907
Lead,Dissolved	U		0.000849	0.00200	1	04/27/2021 18:58	WG1656508
Manganese	1.01		0.000704	0.00500	1	04/27/2021 12:22	WG1656907
Manganese,Dissolved	0.960		0.000704	0.00500	1	04/27/2021 18:58	WG1656508
Potassium	17.6		0.108	2.00	1	04/27/2021 12:22	WG1656907
Selenium	0.00208		0.000300	0.00200	1	04/27/2021 12:22	WG1656907
Selenium,Dissolved	0.00392		0.000300	0.00200	1	04/27/2021 18:58	WG1656508
Sodium	1370		1.88	10.0	5	04/27/2021 13:40	WG1656907

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	2.15		0.157	0.500	5	04/26/2021 03:09	WG1658422
(S) a,a,a-Trifluorotoluene(FID)	*102*			*78.0-120*		*04/26/2021 03:09*	WG1658422

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.282	1.25	25	04/19/2021 05:06	WG1654139
Benzene	U		0.00235	0.0250	25	04/19/2021 05:06	WG1654139
Bromodichloromethane	U		0.00340	0.0250	25	04/19/2021 05:06	WG1654139
Bromoform	U		0.00322	0.0250	25	04/19/2021 05:06	WG1654139
Bromomethane	U		0.0151	0.125	25	04/19/2021 05:06	WG1654139
n-Butylbenzene	U		0.00393	0.0250	25	04/19/2021 05:06	WG1654139
sec-Butylbenzene	U		0.00313	0.0250	25	04/19/2021 05:06	WG1654139
Carbon disulfide	U		0.00241	0.0250	25	04/19/2021 05:06	WG1654139
Carbon tetrachloride	U		0.00320	0.0250	25	04/19/2021 05:06	WG1654139

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.00290	0.0250	25	04/19/2021 05:06	WG1654139
Chlorodibromomethane	U		0.00350	0.0250	25	04/19/2021 05:06	WG1654139
Chloroethane	U		0.00480	0.125	25	04/19/2021 05:06	WG1654139
Chloroform	U		0.00278	0.125	25	04/19/2021 05:06	WG1654139
Chloromethane	U		0.0240	0.0625	25	04/19/2021 05:06	WG1654139
1,2-Dibromoethane	U		0.00315	0.0250	25	04/19/2021 05:06	WG1654139
1,1-Dichloroethane	U		0.00250	0.0250	25	04/19/2021 05:06	WG1654139
1,2-Dichloroethane	U		0.00205	0.0250	25	04/19/2021 05:06	WG1654139
1,1-Dichloroethene	U		0.00470	0.0250	25	04/19/2021 05:06	WG1654139
cis-1,2-Dichloroethene	U		0.00315	0.0250	25	04/19/2021 05:06	WG1654139
trans-1,2-Dichloroethene	U		0.00373	0.0250	25	04/19/2021 05:06	WG1654139
1,2-Dichloropropane	U		0.00373	0.0250	25	04/19/2021 05:06	WG1654139
cis-1,3-Dichloropropene	U		0.00278	0.0250	25	04/19/2021 05:06	WG1654139
trans-1,3-Dichloropropene	U		0.00295	0.0250	25	04/19/2021 05:06	WG1654139
Ethylbenzene	U		0.00343	0.0250	25	04/19/2021 05:06	WG1654139
Isopropylbenzene	U		0.00263	0.0250	25	04/19/2021 05:06	WG1654139
p-Isopropyltoluene	U		0.00300	0.0250	25	04/19/2021 05:06	WG1654139
2-Butanone (MEK)	U		0.0298	0.250	25	04/19/2021 05:06	WG1654139
2-Hexanone	U		0.0197	0.250	25	04/19/2021 05:06	WG1654139
Methylene Chloride	U		0.0107	0.125	25	04/19/2021 05:06	WG1654139
4-Methyl-2-pentanone (MIBK)	U		0.0120	0.250	25	04/19/2021 05:06	WG1654139
Methyl tert-butyl ether	U		0.00253	0.0250	25	04/19/2021 05:06	WG1654139
Naphthalene	U		0.0250	0.125	25	04/19/2021 05:06	WG1654139
n-Propylbenzene	U		0.00248	0.0250	25	04/19/2021 05:06	WG1654139
Styrene	U		0.00295	0.0250	25	04/19/2021 05:06	WG1654139
1,1,1,2-Tetrachloroethane	U		0.00368	0.0250	25	04/19/2021 05:06	WG1654139
1,1,2,2-Tetrachloroethane	U		0.00333	0.0250	25	04/19/2021 05:06	WG1654139
Tetrachloroethene	U		0.00750	0.0250	25	04/19/2021 05:06	WG1654139
Toluene	U		0.00695	0.0250	25	04/19/2021 05:06	WG1654139
1,1,1-Trichloroethane	U		0.00373	0.0250	25	04/19/2021 05:06	WG1654139
1,1,2-Trichloroethane	U		0.00395	0.0250	25	04/19/2021 05:06	WG1654139
Trichloroethene	U		0.00475	0.0250	25	04/19/2021 05:06	WG1654139
1,2,4-Trimethylbenzene	U		0.00805	0.0250	25	04/19/2021 05:06	WG1654139
1,3,5-Trimethylbenzene	U		0.00260	0.0250	25	04/19/2021 05:06	WG1654139
Vinyl chloride	U		0.00585	0.0250	25	04/19/2021 05:06	WG1654139
o-Xylene	U		0.00435	0.0250	25	04/19/2021 05:06	WG1654139
m&p-Xylene	U		0.0107	0.0500	25	04/19/2021 05:06	WG1654139
Xylenes, Total	U		0.00435	0.0750	25	04/19/2021 05:06	WG1654139
(S) Toluene-d8	*106*			*80.0-120*		*04/19/2021 05:06*	WG1654139
(S) 4-Bromofluorobenzene	*109*			*77.0-126*		*04/19/2021 05:06*	WG1654139
(S) 1,2-Dichloroethane-d4	*99.6*			*70.0-130*		*04/19/2021 05:06*	WG1654139

Sample Narrative:

L1340049-11 WG1654139: Dilution due to foam.

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	13.8		0.247	1.00	10	04/28/2021 01:36	WG1656974
(S) o-Terphenyl	*108*			*31.0-160*		*04/28/2021 01:36*	WG1656974

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3430		100	1	04/20/2021 17:58	WG1655174

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	8.03		0.500	1.00	10	05/03/2021 22:46	WG1661753

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	992		37.9	100	100	04/23/2021 09:48	WG1657189
Fluoride	3.94		0.640	1.50	10	04/23/2021 09:31	WG1657189
Sulfate	1270		59.4	500	100	04/23/2021 09:48	WG1657189

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0423		0.000180	0.00200	1	04/27/2021 12:26	WG1656907
Arsenic,Dissolved	0.0409		0.000180	0.00200	1	04/27/2021 19:01	WG1656508
Barium	0.0311		0.000381	0.0200	1	04/27/2021 12:26	WG1656907
Barium,Dissolved	0.0292		0.000381	0.0200	1	04/27/2021 19:01	WG1656508
Calcium	324		0.0936	1.00	1	04/27/2021 12:26	WG1656907
Chromium	0.00416		0.00124	0.00200	1	04/27/2021 12:26	WG1656907
Chromium,Dissolved	0.00287		0.00124	0.00200	1	04/27/2021 19:01	WG1656508
Iron	0.269		0.0281	0.100	1	04/27/2021 12:26	WG1656907
Iron,Dissolved	U		0.0281	0.100	1	04/27/2021 19:01	WG1656508
Lead	U		0.000849	0.00200	1	04/27/2021 12:26	WG1656907
Lead,Dissolved	U		0.000849	0.00200	1	04/27/2021 19:01	WG1656508
Manganese	0.169		0.000704	0.00500	1	04/27/2021 12:26	WG1656907
Manganese,Dissolved	0.142		0.000704	0.00500	1	04/27/2021 19:01	WG1656508
Potassium	18.5		0.108	2.00	1	04/27/2021 12:26	WG1656907
Selenium	0.00282		0.000300	0.00200	1	04/27/2021 12:26	WG1656907
Selenium,Dissolved	0.00445		0.000300	0.00200	1	04/27/2021 19:01	WG1656508
Sodium	810		0.376	2.00	1	04/27/2021 12:26	WG1656907

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.904		0.157	0.500	5	04/23/2021 17:57	WG1657423
(S) a,a,a-Trifluorotoluene(FID)	*100*			*78.0-120*		*04/23/2021 17:57*	WG1657423

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/19/2021 02:03	WG1654139
Benzene	U		0.0000941	0.00100	1	04/19/2021 02:03	WG1654139
Bromodichloromethane	U		0.000136	0.00100	1	04/19/2021 02:03	WG1654139
Bromoform	U		0.000129	0.00100	1	04/19/2021 02:03	WG1654139
Bromomethane	U		0.000605	0.00500	1	04/19/2021 02:03	WG1654139
n-Butylbenzene	U		0.000157	0.00100	1	04/19/2021 02:03	WG1654139
sec-Butylbenzene	U		0.000125	0.00100	1	04/19/2021 02:03	WG1654139
Carbon disulfide	U		0.0000962	0.00100	1	04/19/2021 02:03	WG1654139
Carbon tetrachloride	U		0.000128	0.00100	1	04/19/2021 02:03	WG1654139

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/19/2021 02:03	WG1654139
Chlorodibromomethane	U		0.000140	0.00100	1	04/19/2021 02:03	WG1654139
Chloroethane	U		0.000192	0.00500	1	04/19/2021 02:03	WG1654139
Chloroform	U		0.000111	0.00500	1	04/19/2021 02:03	WG1654139
Chloromethane	U		0.000960	0.00250	1	04/19/2021 02:03	WG1654139
1,2-Dibromoethane	U		0.000126	0.00100	1	04/19/2021 02:03	WG1654139
1,1-Dichloroethane	U		0.000100	0.00100	1	04/19/2021 02:03	WG1654139
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/19/2021 02:03	WG1654139
1,1-Dichloroethene	U		0.000188	0.00100	1	04/19/2021 02:03	WG1654139
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/19/2021 02:03	WG1654139
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/19/2021 02:03	WG1654139
1,2-Dichloropropane	U		0.000149	0.00100	1	04/19/2021 02:03	WG1654139
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/19/2021 02:03	WG1654139
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/19/2021 02:03	WG1654139
Ethylbenzene	U		0.000137	0.00100	1	04/19/2021 02:03	WG1654139
Isopropylbenzene	U		0.000105	0.00100	1	04/19/2021 02:03	WG1654139
p-Isopropyltoluene	U		0.000120	0.00100	1	04/19/2021 02:03	WG1654139
2-Butanone (MEK)	U		0.00119	0.0100	1	04/19/2021 02:03	WG1654139
2-Hexanone	U		0.000787	0.0100	1	04/19/2021 02:03	WG1654139
Methylene Chloride	U		0.000430	0.00500	1	04/19/2021 02:03	WG1654139
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/19/2021 02:03	WG1654139
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/19/2021 02:03	WG1654139
Naphthalene	U		0.00100	0.00500	1	04/19/2021 02:03	WG1654139
n-Propylbenzene	U		0.0000993	0.00100	1	04/19/2021 02:03	WG1654139
Styrene	U		0.000118	0.00100	1	04/19/2021 02:03	WG1654139
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/19/2021 02:03	WG1654139
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/19/2021 02:03	WG1654139
Tetrachloroethene	U		0.000300	0.00100	1	04/19/2021 02:03	WG1654139
Toluene	U		0.000278	0.00100	1	04/19/2021 02:03	WG1654139
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/19/2021 02:03	WG1654139
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/19/2021 02:03	WG1654139
Trichloroethene	U		0.000190	0.00100	1	04/19/2021 02:03	WG1654139
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/19/2021 02:03	WG1654139
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/19/2021 02:03	WG1654139
Vinyl chloride	U		0.000234	0.00100	1	04/19/2021 02:03	WG1654139
o-Xylene	U		0.000174	0.00100	1	04/19/2021 02:03	WG1654139
m&p-Xylene	U		0.000430	0.00200	1	04/19/2021 02:03	WG1654139
Xylenes, Total	U		0.000174	0.00300	1	04/19/2021 02:03	WG1654139
(S) Toluene-d8	*106*			*80.0-120*		*04/19/2021 02:03*	WG1654139
(S) 4-Bromofluorobenzene	*115*			*77.0-126*		*04/19/2021 02:03*	WG1654139
(S) 1,2-Dichloroethane-d4	*95.1*			*70.0-130*		*04/19/2021 02:03*	WG1654139

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	7.60		0.0247	0.100	1	04/23/2021 15:34	WG1656974
(S) o-Terphenyl	*101*			*31.0-160*		*04/23/2021 15:34*	WG1656974

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3990		100	1	04/20/2021 17:09	WG1655172

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.214		0.0500	0.100	1	05/03/2021 22:14	WG1661753

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1060		37.9	100	100	04/23/2021 10:53	WG1657189
Fluoride	1.93		0.640	1.50	10	04/23/2021 10:37	WG1657189
Sulfate	1690		59.4	500	100	04/23/2021 10:53	WG1657189

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0415		0.000180	0.00200	1	04/27/2021 12:29	WG1656907
Arsenic,Dissolved	0.0327		0.000180	0.00200	1	04/27/2021 19:29	WG1656508
Barium	0.0154	J	0.000381	0.0200	1	04/27/2021 12:29	WG1656907
Barium,Dissolved	0.0132	J	0.000381	0.0200	1	04/27/2021 19:29	WG1656508
Calcium	479		0.0936	1.00	1	04/27/2021 12:29	WG1656907
Chromium	0.0536		0.00124	0.00200	1	04/27/2021 12:29	WG1656907
Chromium,Dissolved	U		0.00124	0.00200	1	04/27/2021 19:29	WG1656508
Iron	0.503		0.0281	0.100	1	04/27/2021 12:29	WG1656907
Iron,Dissolved	U		0.0281	0.100	1	04/27/2021 19:29	WG1656508
Lead	U		0.000849	0.00200	1	04/27/2021 12:29	WG1656907
Lead,Dissolved	U		0.000849	0.00200	1	04/27/2021 19:29	WG1656508
Manganese	1.96		0.000704	0.00500	1	04/27/2021 12:29	WG1656907
Manganese,Dissolved	1.77		0.000704	0.00500	1	04/27/2021 19:29	WG1656508
Potassium	5.09		0.108	2.00	1	04/27/2021 12:29	WG1656907
Selenium	0.00471		0.000300	0.00200	1	04/27/2021 12:29	WG1656907
Selenium,Dissolved	0.00508		0.000300	0.00200	1	04/27/2021 19:29	WG1656508
Sodium	785		0.376	2.00	1	04/27/2021 12:29	WG1656907

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.681		0.157	0.500	5	04/26/2021 03:31	WG1658422
(S) a,a,a-Trifluorotoluene(FID)	*101*			*78.0-120*		*04/26/2021 03:31*	WG1658422

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.282	1.25	25	04/19/2021 05:26	WG1654139
Benzene	U		0.00235	0.0250	25	04/19/2021 05:26	WG1654139
Bromodichloromethane	U		0.00340	0.0250	25	04/19/2021 05:26	WG1654139
Bromoform	U		0.00322	0.0250	25	04/19/2021 05:26	WG1654139
Bromomethane	U		0.0151	0.125	25	04/19/2021 05:26	WG1654139
n-Butylbenzene	U		0.00393	0.0250	25	04/19/2021 05:26	WG1654139
sec-Butylbenzene	U		0.00313	0.0250	25	04/19/2021 05:26	WG1654139
Carbon disulfide	U		0.00241	0.0250	25	04/19/2021 05:26	WG1654139
Carbon tetrachloride	U		0.00320	0.0250	25	04/19/2021 05:26	WG1654139

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.00290	0.0250	25	04/19/2021 05:26	WG1654139
Chlorodibromomethane	U		0.00350	0.0250	25	04/19/2021 05:26	WG1654139
Chloroethane	U		0.00480	0.125	25	04/19/2021 05:26	WG1654139
Chloroform	U		0.00278	0.125	25	04/19/2021 05:26	WG1654139
Chloromethane	U		0.0240	0.0625	25	04/19/2021 05:26	WG1654139
1,2-Dibromoethane	U		0.00315	0.0250	25	04/19/2021 05:26	WG1654139
1,1-Dichloroethane	U		0.00250	0.0250	25	04/19/2021 05:26	WG1654139
1,2-Dichloroethane	U		0.00205	0.0250	25	04/19/2021 05:26	WG1654139
1,1-Dichloroethene	U		0.00470	0.0250	25	04/19/2021 05:26	WG1654139
cis-1,2-Dichloroethene	U		0.00315	0.0250	25	04/19/2021 05:26	WG1654139
trans-1,2-Dichloroethene	U		0.00373	0.0250	25	04/19/2021 05:26	WG1654139
1,2-Dichloropropane	U		0.00373	0.0250	25	04/19/2021 05:26	WG1654139
cis-1,3-Dichloropropene	U		0.00278	0.0250	25	04/19/2021 05:26	WG1654139
trans-1,3-Dichloropropene	U		0.00295	0.0250	25	04/19/2021 05:26	WG1654139
Ethylbenzene	U		0.00343	0.0250	25	04/19/2021 05:26	WG1654139
Isopropylbenzene	U		0.00263	0.0250	25	04/19/2021 05:26	WG1654139
p-Isopropyltoluene	U		0.00300	0.0250	25	04/19/2021 05:26	WG1654139
2-Butanone (MEK)	U		0.0298	0.250	25	04/19/2021 05:26	WG1654139
2-Hexanone	U		0.0197	0.250	25	04/19/2021 05:26	WG1654139
Methylene Chloride	U		0.0107	0.125	25	04/19/2021 05:26	WG1654139
4-Methyl-2-pentanone (MIBK)	U		0.0120	0.250	25	04/19/2021 05:26	WG1654139
Methyl tert-butyl ether	U		0.00253	0.0250	25	04/19/2021 05:26	WG1654139
Naphthalene	U		0.0250	0.125	25	04/19/2021 05:26	WG1654139
n-Propylbenzene	U		0.00248	0.0250	25	04/19/2021 05:26	WG1654139
Styrene	U		0.00295	0.0250	25	04/19/2021 05:26	WG1654139
1,1,1,2-Tetrachloroethane	U		0.00368	0.0250	25	04/19/2021 05:26	WG1654139
1,1,2,2-Tetrachloroethane	U		0.00333	0.0250	25	04/19/2021 05:26	WG1654139
Tetrachloroethene	U		0.00750	0.0250	25	04/19/2021 05:26	WG1654139
Toluene	U		0.00695	0.0250	25	04/19/2021 05:26	WG1654139
1,1,1-Trichloroethane	U		0.00373	0.0250	25	04/19/2021 05:26	WG1654139
1,1,2-Trichloroethane	U		0.00395	0.0250	25	04/19/2021 05:26	WG1654139
Trichloroethene	U		0.00475	0.0250	25	04/19/2021 05:26	WG1654139
1,2,4-Trimethylbenzene	U		0.00805	0.0250	25	04/19/2021 05:26	WG1654139
1,3,5-Trimethylbenzene	U		0.00260	0.0250	25	04/19/2021 05:26	WG1654139
Vinyl chloride	U		0.00585	0.0250	25	04/19/2021 05:26	WG1654139
o-Xylene	U		0.00435	0.0250	25	04/19/2021 05:26	WG1654139
m&p-Xylene	U		0.0107	0.0500	25	04/19/2021 05:26	WG1654139
Xylenes, Total	U		0.00435	0.0750	25	04/19/2021 05:26	WG1654139
(S) Toluene-d8	*107*			*80.0-120*		*04/19/2021 05:26*	WG1654139
(S) 4-Bromofluorobenzene	*107*			*77.0-126*		*04/19/2021 05:26*	WG1654139
(S) 1,2-Dichloroethane-d4	*97.1*			*70.0-130*		*04/19/2021 05:26*	WG1654139

Sample Narrative:

L1340049-13 WG1654139: Dilution due to foam.

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	7.71		0.0247	0.100	1	04/24/2021 11:24	WG1656978
(S) o-Terphenyl	*108*			*31.0-160*		*04/24/2021 11:24*	WG1656978

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4840		100	1	04/20/2021 17:58	WG1655174

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0500	0.100	1	05/03/2021 22:20	WG1661753

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1490		37.9	100	100	04/23/2021 11:26	WG1657189
Fluoride	0.682		0.0640	0.150	1	04/23/2021 11:10	WG1657189
Sulfate	1750		59.4	500	100	04/23/2021 11:26	WG1657189

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0277		0.000180	0.00200	1	04/27/2021 12:33	WG1656907
Arsenic,Dissolved	0.0232		0.000180	0.00200	1	04/27/2021 18:45	WG1656508
Barium	0.0138	J	0.000381	0.0200	1	04/27/2021 12:33	WG1656907
Barium,Dissolved	0.0121	J	0.000381	0.0200	1	04/27/2021 18:45	WG1656508
Calcium	383		0.0936	1.00	1	04/27/2021 12:33	WG1656907
Chromium	U		0.00124	0.00200	1	04/27/2021 12:33	WG1656907
Chromium,Dissolved	U		0.00124	0.00200	1	04/27/2021 18:45	WG1656508
Iron	0.976		0.0281	0.100	1	04/27/2021 12:33	WG1656907
Iron,Dissolved	U		0.0281	0.100	1	04/27/2021 18:45	WG1656508
Lead	U		0.000849	0.00200	1	04/27/2021 12:33	WG1656907
Lead,Dissolved	U		0.000849	0.00200	1	04/27/2021 18:45	WG1656508
Manganese	3.63		0.000704	0.00500	1	04/27/2021 12:33	WG1656907
Manganese,Dissolved	3.54	V	0.000704	0.00500	1	04/27/2021 18:45	WG1656508
Potassium	3.08		0.108	2.00	1	04/27/2021 12:33	WG1656907
Selenium	0.000986	J	0.000300	0.00200	1	04/27/2021 12:33	WG1656907
Selenium,Dissolved	0.00199	J	0.000300	0.00200	1	04/27/2021 18:45	WG1656508
Sodium	1280		1.88	10.0	5	04/27/2021 13:44	WG1656907

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	1.43		0.0314	0.100	1	04/23/2021 13:58	WG1657423
(S) a,a,a-Trifluorotoluene(FID)	*100*			*78.0-120*		*04/23/2021 13:58*	WG1657423

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/19/2021 02:23	WG1654139
Benzene	U		0.0000941	0.00100	1	04/19/2021 02:23	WG1654139
Bromodichloromethane	U		0.000136	0.00100	1	04/19/2021 02:23	WG1654139
Bromoform	U		0.000129	0.00100	1	04/19/2021 02:23	WG1654139
Bromomethane	U		0.000605	0.00500	1	04/19/2021 02:23	WG1654139
n-Butylbenzene	U		0.000157	0.00100	1	04/19/2021 02:23	WG1654139
sec-Butylbenzene	U		0.000125	0.00100	1	04/19/2021 02:23	WG1654139
Carbon disulfide	U		0.0000962	0.00100	1	04/19/2021 02:23	WG1654139
Carbon tetrachloride	U		0.000128	0.00100	1	04/19/2021 02:23	WG1654139

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/19/2021 02:23	WG1654139
Chlorodibromomethane	U		0.000140	0.00100	1	04/19/2021 02:23	WG1654139
Chloroethane	U		0.000192	0.00500	1	04/19/2021 02:23	WG1654139
Chloroform	U		0.000111	0.00500	1	04/19/2021 02:23	WG1654139
Chloromethane	U		0.000960	0.00250	1	04/19/2021 02:23	WG1654139
1,2-Dibromoethane	U		0.000126	0.00100	1	04/19/2021 02:23	WG1654139
1,1-Dichloroethane	U		0.000100	0.00100	1	04/19/2021 02:23	WG1654139
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/19/2021 02:23	WG1654139
1,1-Dichloroethene	U		0.000188	0.00100	1	04/19/2021 02:23	WG1654139
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/19/2021 02:23	WG1654139
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/19/2021 02:23	WG1654139
1,2-Dichloropropane	U		0.000149	0.00100	1	04/19/2021 02:23	WG1654139
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/19/2021 02:23	WG1654139
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/19/2021 02:23	WG1654139
Ethylbenzene	U		0.000137	0.00100	1	04/19/2021 02:23	WG1654139
Isopropylbenzene	U		0.000105	0.00100	1	04/19/2021 02:23	WG1654139
p-Isopropyltoluene	U		0.000120	0.00100	1	04/19/2021 02:23	WG1654139
2-Butanone (MEK)	U		0.00119	0.0100	1	04/19/2021 02:23	WG1654139
2-Hexanone	U		0.000787	0.0100	1	04/19/2021 02:23	WG1654139
Methylene Chloride	U		0.000430	0.00500	1	04/19/2021 02:23	WG1654139
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/19/2021 02:23	WG1654139
Methyl tert-butyl ether	0.00245		0.000101	0.00100	1	04/19/2021 02:23	WG1654139
Naphthalene	U		0.00100	0.00500	1	04/19/2021 02:23	WG1654139
n-Propylbenzene	U		0.0000993	0.00100	1	04/19/2021 02:23	WG1654139
Styrene	U		0.000118	0.00100	1	04/19/2021 02:23	WG1654139
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/19/2021 02:23	WG1654139
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/19/2021 02:23	WG1654139
Tetrachloroethene	U		0.000300	0.00100	1	04/19/2021 02:23	WG1654139
Toluene	U		0.000278	0.00100	1	04/19/2021 02:23	WG1654139
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/19/2021 02:23	WG1654139
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/19/2021 02:23	WG1654139
Trichloroethene	U		0.000190	0.00100	1	04/19/2021 02:23	WG1654139
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/19/2021 02:23	WG1654139
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/19/2021 02:23	WG1654139
Vinyl chloride	U		0.000234	0.00100	1	04/19/2021 02:23	WG1654139
o-Xylene	U		0.000174	0.00100	1	04/19/2021 02:23	WG1654139
m&p-Xylene	U		0.000430	0.00200	1	04/19/2021 02:23	WG1654139
Xylenes, Total	U		0.000174	0.00300	1	04/19/2021 02:23	WG1654139
(S) Toluene-d8	*107*			*80.0-120*		*04/19/2021 02:23*	WG1654139
(S) 4-Bromofluorobenzene	*114*			*77.0-126*		*04/19/2021 02:23*	WG1654139
(S) 1,2-Dichloroethane-d4	*96.2*			*70.0-130*		*04/19/2021 02:23*	WG1654139

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	4.19		0.0247	0.100	1	04/24/2021 11:44	WG1656978
(S) o-Terphenyl	*97.9*			*31.0-160*		*04/24/2021 11:44*	WG1656978

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	4760		100	1	04/20/2021 17:09	WG1655172

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.0500	0.100	1	05/03/2021 22:22	WG1661753

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	1190		37.9	100	100	04/23/2021 11:59	WG1657189
Fluoride	0.677		0.0640	0.150	1	04/23/2021 11:43	WG1657189
Sulfate	1830		59.4	500	100	04/23/2021 11:59	WG1657189

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0298		0.000180	0.00200	1	04/27/2021 12:36	WG1656907
Arsenic,Dissolved	0.0236		0.000180	0.00200	1	04/27/2021 19:32	WG1656508
Barium	0.0150	J	0.000381	0.0200	1	04/27/2021 12:36	WG1656907
Barium,Dissolved	0.0125	J	0.000381	0.0200	1	04/27/2021 19:32	WG1656508
Calcium	420		0.0936	1.00	1	04/27/2021 12:36	WG1656907
Chromium	U		0.00124	0.00200	1	04/27/2021 12:36	WG1656907
Chromium,Dissolved	U		0.00124	0.00200	1	04/27/2021 19:32	WG1656508
Iron	2.04		0.0281	0.100	1	04/27/2021 12:36	WG1656907
Iron,Dissolved	U		0.0281	0.100	1	04/27/2021 19:32	WG1656508
Lead	U		0.000849	0.00200	1	04/27/2021 12:36	WG1656907
Lead,Dissolved	U		0.000849	0.00200	1	04/27/2021 19:32	WG1656508
Manganese	5.02		0.000704	0.00500	1	04/27/2021 12:36	WG1656907
Manganese,Dissolved	4.79		0.000704	0.00500	1	04/27/2021 19:32	WG1656508
Potassium	3.99		0.108	2.00	1	04/27/2021 12:36	WG1656907
Selenium	0.000614	J	0.000300	0.00200	1	04/27/2021 12:36	WG1656907
Selenium,Dissolved	0.00110	J	0.000300	0.00200	1	04/27/2021 19:32	WG1656508
Sodium	1080		1.88	10.0	5	04/27/2021 13:48	WG1656907

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	1.97		0.0314	0.100	1	04/23/2021 14:19	WG1657423
(S) a,a,a-Trifluorotoluene(FID)	*100*			*78.0-120*		*04/23/2021 14:19*	WG1657423

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0113	0.0500	1	04/19/2021 02:43	WG1654139
Benzene	U		0.0000941	0.00100	1	04/19/2021 02:43	WG1654139
Bromodichloromethane	U		0.000136	0.00100	1	04/19/2021 02:43	WG1654139
Bromoform	U		0.000129	0.00100	1	04/19/2021 02:43	WG1654139
Bromomethane	U		0.000605	0.00500	1	04/19/2021 02:43	WG1654139
n-Butylbenzene	U		0.000157	0.00100	1	04/19/2021 02:43	WG1654139
sec-Butylbenzene	0.000545	J	0.000125	0.00100	1	04/19/2021 02:43	WG1654139
Carbon disulfide	U		0.0000962	0.00100	1	04/19/2021 02:43	WG1654139
Carbon tetrachloride	U		0.000128	0.00100	1	04/19/2021 02:43	WG1654139

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/19/2021 02:43	WG1654139
Chlorodibromomethane	U		0.000140	0.00100	1	04/19/2021 02:43	WG1654139
Chloroethane	U		0.000192	0.00500	1	04/19/2021 02:43	WG1654139
Chloroform	U		0.000111	0.00500	1	04/19/2021 02:43	WG1654139
Chloromethane	U		0.000960	0.00250	1	04/19/2021 02:43	WG1654139
1,2-Dibromoethane	U		0.000126	0.00100	1	04/19/2021 02:43	WG1654139
1,1-Dichloroethane	U		0.000100	0.00100	1	04/19/2021 02:43	WG1654139
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/19/2021 02:43	WG1654139
1,1-Dichloroethene	U		0.000188	0.00100	1	04/19/2021 02:43	WG1654139
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/19/2021 02:43	WG1654139
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/19/2021 02:43	WG1654139
1,2-Dichloropropane	U		0.000149	0.00100	1	04/19/2021 02:43	WG1654139
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/19/2021 02:43	WG1654139
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/19/2021 02:43	WG1654139
Ethylbenzene	U		0.000137	0.00100	1	04/19/2021 02:43	WG1654139
Isopropylbenzene	U		0.000105	0.00100	1	04/19/2021 02:43	WG1654139
p-Isopropyltoluene	U		0.000120	0.00100	1	04/19/2021 02:43	WG1654139
2-Butanone (MEK)	U		0.00119	0.0100	1	04/19/2021 02:43	WG1654139
2-Hexanone	U		0.000787	0.0100	1	04/19/2021 02:43	WG1654139
Methylene Chloride	U		0.000430	0.00500	1	04/19/2021 02:43	WG1654139
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/19/2021 02:43	WG1654139
Methyl tert-butyl ether	0.00462		0.000101	0.00100	1	04/19/2021 02:43	WG1654139
Naphthalene	U		0.00100	0.00500	1	04/19/2021 02:43	WG1654139
n-Propylbenzene	U		0.0000993	0.00100	1	04/19/2021 02:43	WG1654139
Styrene	U		0.000118	0.00100	1	04/19/2021 02:43	WG1654139
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/19/2021 02:43	WG1654139
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/19/2021 02:43	WG1654139
Tetrachloroethene	U		0.000300	0.00100	1	04/19/2021 02:43	WG1654139
Toluene	U		0.000278	0.00100	1	04/19/2021 02:43	WG1654139
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/19/2021 02:43	WG1654139
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/19/2021 02:43	WG1654139
Trichloroethene	U		0.000190	0.00100	1	04/19/2021 02:43	WG1654139
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/19/2021 02:43	WG1654139
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/19/2021 02:43	WG1654139
Vinyl chloride	U		0.000234	0.00100	1	04/19/2021 02:43	WG1654139
o-Xylene	U		0.000174	0.00100	1	04/19/2021 02:43	WG1654139
m&p-Xylene	U		0.000430	0.00200	1	04/19/2021 02:43	WG1654139
Xylenes, Total	U		0.000174	0.00300	1	04/19/2021 02:43	WG1654139
(S) Toluene-d8	*106*			*80.0-120*		*04/19/2021 02:43*	WG1654139
(S) 4-Bromofluorobenzene	*116*			*77.0-126*		*04/19/2021 02:43*	WG1654139
(S) 1,2-Dichloroethane-d4	*95.3*			*70.0-130*		*04/19/2021 02:43*	WG1654139

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	5.69		0.0247	0.100	1	04/24/2021 12:04	WG1656978
(S) o-Terphenyl	*106*			*31.0-160*		*04/24/2021 12:04*	WG1656978

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	3770		100	1	04/20/2021 17:58	WG1655174

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.0500	0.100	1	05/03/2021 22:24	WG1661753

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	1270		37.9	100	100	04/23/2021 12:32	WG1657189
Fluoride	0.938		0.0640	0.150	1	04/23/2021 12:16	WG1657189
Sulfate	1780		59.4	500	100	04/23/2021 12:32	WG1657189

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0181		0.000180	0.00200	1	04/27/2021 12:39	WG1656907
Arsenic,Dissolved	0.0191		0.000180	0.00200	1	04/27/2021 19:35	WG1656508
Barium	0.0316		0.000381	0.0200	1	04/27/2021 12:39	WG1656907
Barium,Dissolved	0.0293		0.000381	0.0200	1	04/27/2021 19:35	WG1656508
Calcium	519		0.0936	1.00	1	04/27/2021 12:39	WG1656907
Chromium	U		0.00124	0.00200	1	04/27/2021 12:39	WG1656907
Chromium,Dissolved	U		0.00124	0.00200	1	04/27/2021 19:35	WG1656508
Iron	0.0591	J	0.0281	0.100	1	04/27/2021 12:39	WG1656907
Iron,Dissolved	U		0.0281	0.100	1	04/27/2021 19:35	WG1656508
Lead	U		0.000849	0.00200	1	04/27/2021 12:39	WG1656907
Lead,Dissolved	U		0.000849	0.00200	1	04/27/2021 19:35	WG1656508
Manganese	3.40		0.000704	0.00500	1	04/27/2021 12:39	WG1656907
Manganese,Dissolved	3.66		0.000704	0.00500	1	04/27/2021 19:35	WG1656508
Potassium	3.54		0.108	2.00	1	04/27/2021 12:39	WG1656907
Selenium	0.000398	J	0.000300	0.00200	1	04/27/2021 12:39	WG1656907
Selenium,Dissolved	0.000711	J	0.000300	0.00200	1	04/27/2021 19:35	WG1656508
Sodium	970		0.376	2.00	1	04/27/2021 12:39	WG1656907

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	1.24		0.0314	0.100	1	04/23/2021 14:41	WG1657423
(S) a,a,a-Trifluorotoluene(FID)	*100*			*78.0-120*		*04/23/2021 14:41*	WG1657423

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0113	0.0500	1	04/19/2021 03:04	WG1654139
Benzene	U		0.0000941	0.00100	1	04/19/2021 03:04	WG1654139
Bromodichloromethane	U		0.000136	0.00100	1	04/19/2021 03:04	WG1654139
Bromoform	U		0.000129	0.00100	1	04/19/2021 03:04	WG1654139
Bromomethane	U		0.000605	0.00500	1	04/19/2021 03:04	WG1654139
n-Butylbenzene	U		0.000157	0.00100	1	04/19/2021 03:04	WG1654139
sec-Butylbenzene	U		0.000125	0.00100	1	04/19/2021 03:04	WG1654139
Carbon disulfide	U		0.0000962	0.00100	1	04/19/2021 03:04	WG1654139
Carbon tetrachloride	U		0.000128	0.00100	1	04/19/2021 03:04	WG1654139

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/19/2021 03:04	WG1654139
Chlorodibromomethane	U		0.000140	0.00100	1	04/19/2021 03:04	WG1654139
Chloroethane	U		0.000192	0.00500	1	04/19/2021 03:04	WG1654139
Chloroform	U		0.000111	0.00500	1	04/19/2021 03:04	WG1654139
Chloromethane	U		0.000960	0.00250	1	04/19/2021 03:04	WG1654139
1,2-Dibromoethane	U		0.000126	0.00100	1	04/19/2021 03:04	WG1654139
1,1-Dichloroethane	U		0.000100	0.00100	1	04/19/2021 03:04	WG1654139
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/19/2021 03:04	WG1654139
1,1-Dichloroethene	U		0.000188	0.00100	1	04/19/2021 03:04	WG1654139
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/19/2021 03:04	WG1654139
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/19/2021 03:04	WG1654139
1,2-Dichloropropane	U		0.000149	0.00100	1	04/19/2021 03:04	WG1654139
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/19/2021 03:04	WG1654139
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/19/2021 03:04	WG1654139
Ethylbenzene	U		0.000137	0.00100	1	04/19/2021 03:04	WG1654139
Isopropylbenzene	U		0.000105	0.00100	1	04/19/2021 03:04	WG1654139
p-Isopropyltoluene	U		0.000120	0.00100	1	04/19/2021 03:04	WG1654139
2-Butanone (MEK)	U		0.00119	0.0100	1	04/19/2021 03:04	WG1654139
2-Hexanone	U		0.000787	0.0100	1	04/19/2021 03:04	WG1654139
Methylene Chloride	U		0.000430	0.00500	1	04/19/2021 03:04	WG1654139
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/19/2021 03:04	WG1654139
Methyl tert-butyl ether	0.00153		0.000101	0.00100	1	04/19/2021 03:04	WG1654139
Naphthalene	U		0.00100	0.00500	1	04/19/2021 03:04	WG1654139
n-Propylbenzene	U		0.0000993	0.00100	1	04/19/2021 03:04	WG1654139
Styrene	U		0.000118	0.00100	1	04/19/2021 03:04	WG1654139
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/19/2021 03:04	WG1654139
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/19/2021 03:04	WG1654139
Tetrachloroethene	U		0.000300	0.00100	1	04/19/2021 03:04	WG1654139
Toluene	U		0.000278	0.00100	1	04/19/2021 03:04	WG1654139
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/19/2021 03:04	WG1654139
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/19/2021 03:04	WG1654139
Trichloroethene	U		0.000190	0.00100	1	04/19/2021 03:04	WG1654139
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/19/2021 03:04	WG1654139
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/19/2021 03:04	WG1654139
Vinyl chloride	U		0.000234	0.00100	1	04/19/2021 03:04	WG1654139
o-Xylene	U		0.000174	0.00100	1	04/19/2021 03:04	WG1654139
m&p-Xylene	U		0.000430	0.00200	1	04/19/2021 03:04	WG1654139
Xylenes, Total	U		0.000174	0.00300	1	04/19/2021 03:04	WG1654139
(S) Toluene-d8	*107*			*80.0-120*		*04/19/2021 03:04*	WG1654139
(S) 4-Bromofluorobenzene	*117*			*77.0-126*		*04/19/2021 03:04*	WG1654139
(S) 1,2-Dichloroethane-d4	*98.4*			*70.0-130*		*04/19/2021 03:04*	WG1654139

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	2.51		0.0247	0.100	1	04/24/2021 12:24	WG1656978
(S) o-Terphenyl	*95.3*			*31.0-160*		*04/24/2021 12:24*	WG1656978

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3030		100	1	04/20/2021 17:58	WG1655174

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	1.88		0.250	0.500	5	05/03/2021 22:47	WG1661753

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1000		37.9	100	100	04/23/2021 13:05	WG1657189
Fluoride	0.706		0.0640	0.150	1	04/23/2021 12:49	WG1657189
Sulfate	1430		59.4	500	100	04/23/2021 13:05	WG1657189

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00120	J	0.000180	0.00200	1	04/27/2021 12:57	WG1656907
Arsenic,Dissolved	0.000654	J	0.000180	0.00200	1	04/27/2021 19:39	WG1656508
Barium	0.0204		0.000381	0.0200	1	04/27/2021 12:57	WG1656907
Barium,Dissolved	0.0194	J	0.000381	0.0200	1	04/27/2021 19:39	WG1656508
Calcium	418		0.0936	1.00	1	04/27/2021 12:57	WG1656907
Chromium	U		0.00124	0.00200	1	04/27/2021 12:57	WG1656907
Chromium,Dissolved	U		0.00124	0.00200	1	04/27/2021 19:39	WG1656508
Iron	1.67		0.0281	0.100	1	04/27/2021 12:57	WG1656907
Iron,Dissolved	U		0.0281	0.100	1	04/27/2021 19:39	WG1656508
Lead	U		0.000849	0.00200	1	04/27/2021 12:57	WG1656907
Lead,Dissolved	U		0.000849	0.00200	1	04/27/2021 19:39	WG1656508
Manganese	0.996		0.000704	0.00500	1	04/27/2021 12:57	WG1656907
Manganese,Dissolved	0.971		0.000704	0.00500	1	04/27/2021 19:39	WG1656508
Potassium	3.48		0.108	2.00	1	04/27/2021 12:57	WG1656907
Selenium	U		0.000300	0.00200	1	04/27/2021 12:57	WG1656907
Selenium,Dissolved	0.000505	J	0.000300	0.00200	1	04/27/2021 19:39	WG1656508
Sodium	704		0.376	2.00	1	04/27/2021 12:57	WG1656907

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/19/2021 03:24	WG1654139
Benzene	U		0.0000941	0.00100	1	04/19/2021 03:24	WG1654139
Bromodichloromethane	U		0.000136	0.00100	1	04/19/2021 03:24	WG1654139
Bromoform	U		0.000129	0.00100	1	04/19/2021 03:24	WG1654139
Bromomethane	U		0.000605	0.00500	1	04/19/2021 03:24	WG1654139
n-Butylbenzene	U		0.000157	0.00100	1	04/19/2021 03:24	WG1654139
sec-Butylbenzene	U		0.000125	0.00100	1	04/19/2021 03:24	WG1654139
Carbon disulfide	U		0.0000962	0.00100	1	04/19/2021 03:24	WG1654139
Carbon tetrachloride	U		0.000128	0.00100	1	04/19/2021 03:24	WG1654139
Chlorobenzene	U		0.000116	0.00100	1	04/19/2021 03:24	WG1654139
Chlorodibromomethane	U		0.000140	0.00100	1	04/19/2021 03:24	WG1654139
Chloroethane	U		0.000192	0.00500	1	04/19/2021 03:24	WG1654139
Chloroform	U		0.000111	0.00500	1	04/19/2021 03:24	WG1654139
Chloromethane	U		0.000960	0.00250	1	04/19/2021 03:24	WG1654139
1,2-Dibromoethane	U		0.000126	0.00100	1	04/19/2021 03:24	WG1654139
1,1-Dichloroethane	U		0.000100	0.00100	1	04/19/2021 03:24	WG1654139

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/19/2021 03:24	WG1654139
1,1-Dichloroethene	U		0.000188	0.00100	1	04/19/2021 03:24	WG1654139
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/19/2021 03:24	WG1654139
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/19/2021 03:24	WG1654139
1,2-Dichloropropane	U		0.000149	0.00100	1	04/19/2021 03:24	WG1654139
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/19/2021 03:24	WG1654139
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/19/2021 03:24	WG1654139
Ethylbenzene	U		0.000137	0.00100	1	04/19/2021 03:24	WG1654139
Isopropylbenzene	U		0.000105	0.00100	1	04/19/2021 03:24	WG1654139
p-Isopropyltoluene	U		0.000120	0.00100	1	04/19/2021 03:24	WG1654139
2-Butanone (MEK)	U		0.00119	0.0100	1	04/19/2021 03:24	WG1654139
2-Hexanone	U		0.000787	0.0100	1	04/19/2021 03:24	WG1654139
Methylene Chloride	U		0.000430	0.00500	1	04/19/2021 03:24	WG1654139
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/19/2021 03:24	WG1654139
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/19/2021 03:24	WG1654139
Naphthalene	U		0.00100	0.00500	1	04/19/2021 03:24	WG1654139
n-Propylbenzene	U		0.0000993	0.00100	1	04/19/2021 03:24	WG1654139
Styrene	U		0.000118	0.00100	1	04/19/2021 03:24	WG1654139
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/19/2021 03:24	WG1654139
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/19/2021 03:24	WG1654139
Tetrachloroethene	U		0.000300	0.00100	1	04/19/2021 03:24	WG1654139
Toluene	U		0.000278	0.00100	1	04/19/2021 03:24	WG1654139
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/19/2021 03:24	WG1654139
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/19/2021 03:24	WG1654139
Trichloroethene	U		0.000190	0.00100	1	04/19/2021 03:24	WG1654139
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/19/2021 03:24	WG1654139
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/19/2021 03:24	WG1654139
Vinyl chloride	U		0.000234	0.00100	1	04/19/2021 03:24	WG1654139
o-Xylene	U		0.000174	0.00100	1	04/19/2021 03:24	WG1654139
m&p-Xylene	U		0.000430	0.00200	1	04/19/2021 03:24	WG1654139
Xylenes, Total	U		0.000174	0.00300	1	04/19/2021 03:24	WG1654139
(S) Toluene-d8	*107*			*80.0-120*		*04/19/2021 03:24*	WG1654139
(S) 4-Bromofluorobenzene	*109*			*77.0-126*		*04/19/2021 03:24*	WG1654139
(S) 1,2-Dichloroethane-d4	*96.4*			*70.0-130*		*04/19/2021 03:24*	WG1654139

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.124		0.0247	0.100	1	04/24/2021 12:44	WG1656978
(S) o-Terphenyl	*83.7*			*31.0-160*		*04/24/2021 12:44*	WG1656978

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3490		100	1	04/20/2021 17:09	WG1655172

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	5.18		0.100	0.200	2	05/03/2021 22:49	WG1661753

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1220		37.9	100	100	04/23/2021 14:11	WG1657189
Fluoride	1.39		0.0640	0.150	1	04/23/2021 13:54	WG1657189
Sulfate	1660		59.4	500	100	04/23/2021 14:11	WG1657189

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0192		0.000180	0.00200	1	04/27/2021 13:01	WG1656907
Arsenic,Dissolved	0.0180		0.000180	0.00200	1	04/27/2021 19:42	WG1656508
Barium	0.0168	J	0.000381	0.0200	1	04/27/2021 13:01	WG1656907
Barium,Dissolved	0.0164	J	0.000381	0.0200	1	04/27/2021 19:42	WG1656508
Calcium	581		0.0936	1.00	1	04/27/2021 13:01	WG1656907
Chromium	U		0.00124	0.00200	1	04/27/2021 13:01	WG1656907
Chromium,Dissolved	U		0.00124	0.00200	1	04/27/2021 19:42	WG1656508
Iron	0.0483	J	0.0281	0.100	1	04/27/2021 13:01	WG1656907
Iron,Dissolved	U		0.0281	0.100	1	04/27/2021 19:42	WG1656508
Lead	U		0.000849	0.00200	1	04/27/2021 13:01	WG1656907
Lead,Dissolved	U		0.000849	0.00200	1	04/27/2021 19:42	WG1656508
Manganese	0.206		0.000704	0.00500	1	04/27/2021 13:01	WG1656907
Manganese,Dissolved	0.154		0.000704	0.00500	1	04/27/2021 19:42	WG1656508
Potassium	5.39		0.108	2.00	1	04/27/2021 13:01	WG1656907
Selenium	0.000799	J	0.000300	0.00200	1	04/27/2021 13:01	WG1656907
Selenium,Dissolved	0.00106	J	0.000300	0.00200	1	04/27/2021 19:42	WG1656508
Sodium	738		0.376	2.00	1	04/27/2021 13:01	WG1656907

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0455	J	0.0314	0.100	1	04/23/2021 15:03	WG1657423
(S) a,a,a-Trifluorotoluene(FID)	*99.9*			*78.0-120*		*04/23/2021 15:03*	WG1657423

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/19/2021 03:44	WG1654139
Benzene	U		0.0000941	0.00100	1	04/19/2021 03:44	WG1654139
Bromodichloromethane	U		0.000136	0.00100	1	04/19/2021 03:44	WG1654139
Bromoform	U		0.000129	0.00100	1	04/19/2021 03:44	WG1654139
Bromomethane	U		0.000605	0.00500	1	04/19/2021 03:44	WG1654139
n-Butylbenzene	U		0.000157	0.00100	1	04/19/2021 03:44	WG1654139
sec-Butylbenzene	U		0.000125	0.00100	1	04/19/2021 03:44	WG1654139
Carbon disulfide	U		0.0000962	0.00100	1	04/19/2021 03:44	WG1654139
Carbon tetrachloride	U		0.000128	0.00100	1	04/19/2021 03:44	WG1654139

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/19/2021 03:44	WG1654139
Chlorodibromomethane	U		0.000140	0.00100	1	04/19/2021 03:44	WG1654139
Chloroethane	U		0.000192	0.00500	1	04/19/2021 03:44	WG1654139
Chloroform	U		0.000111	0.00500	1	04/19/2021 03:44	WG1654139
Chloromethane	U		0.000960	0.00250	1	04/19/2021 03:44	WG1654139
1,2-Dibromoethane	U		0.000126	0.00100	1	04/19/2021 03:44	WG1654139
1,1-Dichloroethane	U		0.000100	0.00100	1	04/19/2021 03:44	WG1654139
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/19/2021 03:44	WG1654139
1,1-Dichloroethene	U		0.000188	0.00100	1	04/19/2021 03:44	WG1654139
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/19/2021 03:44	WG1654139
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/19/2021 03:44	WG1654139
1,2-Dichloropropane	U		0.000149	0.00100	1	04/19/2021 03:44	WG1654139
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/19/2021 03:44	WG1654139
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/19/2021 03:44	WG1654139
Ethylbenzene	U		0.000137	0.00100	1	04/19/2021 03:44	WG1654139
Isopropylbenzene	U		0.000105	0.00100	1	04/19/2021 03:44	WG1654139
p-Isopropyltoluene	U		0.000120	0.00100	1	04/19/2021 03:44	WG1654139
2-Butanone (MEK)	U		0.00119	0.0100	1	04/19/2021 03:44	WG1654139
2-Hexanone	U		0.000787	0.0100	1	04/19/2021 03:44	WG1654139
Methylene Chloride	U		0.000430	0.00500	1	04/19/2021 03:44	WG1654139
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/19/2021 03:44	WG1654139
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/19/2021 03:44	WG1654139
Naphthalene	U		0.00100	0.00500	1	04/19/2021 03:44	WG1654139
n-Propylbenzene	U		0.0000993	0.00100	1	04/19/2021 03:44	WG1654139
Styrene	U		0.000118	0.00100	1	04/19/2021 03:44	WG1654139
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/19/2021 03:44	WG1654139
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/19/2021 03:44	WG1654139
Tetrachloroethene	U		0.000300	0.00100	1	04/19/2021 03:44	WG1654139
Toluene	U		0.000278	0.00100	1	04/19/2021 03:44	WG1654139
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/19/2021 03:44	WG1654139
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/19/2021 03:44	WG1654139
Trichloroethene	U		0.000190	0.00100	1	04/19/2021 03:44	WG1654139
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/19/2021 03:44	WG1654139
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/19/2021 03:44	WG1654139
Vinyl chloride	U		0.000234	0.00100	1	04/19/2021 03:44	WG1654139
o-Xylene	U		0.000174	0.00100	1	04/19/2021 03:44	WG1654139
m&p-Xylene	U		0.000430	0.00200	1	04/19/2021 03:44	WG1654139
Xylenes, Total	U		0.000174	0.00300	1	04/19/2021 03:44	WG1654139
(S) Toluene-d8	*108*			*80.0-120*		*04/19/2021 03:44*	WG1654139
(S) 4-Bromofluorobenzene	*110*			*77.0-126*		*04/19/2021 03:44*	WG1654139
(S) 1,2-Dichloroethane-d4	*96.5*			*70.0-130*		*04/19/2021 03:44*	WG1654139

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.358		0.0247	0.100	1	04/24/2021 13:04	WG1656978
(S) o-Terphenyl	*88.9*			*31.0-160*		*04/24/2021 13:04*	WG1656978

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4340		100	1	04/20/2021 17:09	WG1655172

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.335		0.0500	0.100	1	05/03/2021 22:28	WG1661753

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1010		37.9	100	100	04/23/2021 14:44	WG1657189
Fluoride	2.77		0.640	1.50	10	04/23/2021 14:27	WG1657189
Sulfate	1800		59.4	500	100	04/23/2021 14:44	WG1657189

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00254		0.000180	0.00200	1	04/27/2021 13:04	WG1656907
Arsenic,Dissolved	0.00211		0.000180	0.00200	1	04/27/2021 19:45	WG1656508
Barium	0.0194	J	0.000381	0.0200	1	04/27/2021 13:04	WG1656907
Barium,Dissolved	0.0176	J	0.000381	0.0200	1	04/27/2021 19:45	WG1656508
Calcium	474		0.0936	1.00	1	04/27/2021 13:04	WG1656907
Chromium	0.00169	J	0.00124	0.00200	1	04/27/2021 13:04	WG1656907
Chromium,Dissolved	U		0.00124	0.00200	1	04/27/2021 19:45	WG1656508
Iron	0.155		0.0281	0.100	1	04/27/2021 13:04	WG1656907
Iron,Dissolved	U		0.0281	0.100	1	04/27/2021 19:45	WG1656508
Lead	U		0.000849	0.00200	1	04/27/2021 13:04	WG1656907
Lead,Dissolved	U		0.000849	0.00200	1	04/27/2021 19:45	WG1656508
Manganese	0.178		0.000704	0.00500	1	04/27/2021 13:04	WG1656907
Manganese,Dissolved	0.220		0.000704	0.00500	1	04/27/2021 19:45	WG1656508
Potassium	2.92		0.108	2.00	1	04/27/2021 13:04	WG1656907
Selenium	0.000499	J	0.000300	0.00200	1	04/27/2021 13:04	WG1656907
Selenium,Dissolved	0.000703	J	0.000300	0.00200	1	04/27/2021 19:45	WG1656508
Sodium	834		0.376	2.00	1	04/27/2021 13:04	WG1656907

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/23/2021 15:25	WG1657423
(S) a,a,a-Trifluorotoluene(FID)	*100*			*78.0-120*		*04/23/2021 15:25*	WG1657423

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/19/2021 04:04	WG1654139
Benzene	U		0.0000941	0.00100	1	04/19/2021 04:04	WG1654139
Bromodichloromethane	U		0.000136	0.00100	1	04/19/2021 04:04	WG1654139
Bromoform	U		0.000129	0.00100	1	04/19/2021 04:04	WG1654139
Bromomethane	U		0.000605	0.00500	1	04/19/2021 04:04	WG1654139
n-Butylbenzene	U		0.000157	0.00100	1	04/19/2021 04:04	WG1654139
sec-Butylbenzene	U		0.000125	0.00100	1	04/19/2021 04:04	WG1654139
Carbon disulfide	U		0.0000962	0.00100	1	04/19/2021 04:04	WG1654139
Carbon tetrachloride	U		0.000128	0.00100	1	04/19/2021 04:04	WG1654139

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/19/2021 04:04	WG1654139
Chlorodibromomethane	U		0.000140	0.00100	1	04/19/2021 04:04	WG1654139
Chloroethane	U		0.000192	0.00500	1	04/19/2021 04:04	WG1654139
Chloroform	U		0.000111	0.00500	1	04/19/2021 04:04	WG1654139
Chloromethane	U		0.000960	0.00250	1	04/19/2021 04:04	WG1654139
1,2-Dibromoethane	U		0.000126	0.00100	1	04/19/2021 04:04	WG1654139
1,1-Dichloroethane	U		0.000100	0.00100	1	04/19/2021 04:04	WG1654139
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/19/2021 04:04	WG1654139
1,1-Dichloroethene	U		0.000188	0.00100	1	04/19/2021 04:04	WG1654139
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/19/2021 04:04	WG1654139
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/19/2021 04:04	WG1654139
1,2-Dichloropropane	U		0.000149	0.00100	1	04/19/2021 04:04	WG1654139
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/19/2021 04:04	WG1654139
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/19/2021 04:04	WG1654139
Ethylbenzene	U		0.000137	0.00100	1	04/19/2021 04:04	WG1654139
Isopropylbenzene	U		0.000105	0.00100	1	04/19/2021 04:04	WG1654139
p-Isopropyltoluene	U		0.000120	0.00100	1	04/19/2021 04:04	WG1654139
2-Butanone (MEK)	U		0.00119	0.0100	1	04/19/2021 04:04	WG1654139
2-Hexanone	U		0.000787	0.0100	1	04/19/2021 04:04	WG1654139
Methylene Chloride	U		0.000430	0.00500	1	04/19/2021 04:04	WG1654139
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/19/2021 04:04	WG1654139
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/19/2021 04:04	WG1654139
Naphthalene	U		0.00100	0.00500	1	04/19/2021 04:04	WG1654139
n-Propylbenzene	U		0.0000993	0.00100	1	04/19/2021 04:04	WG1654139
Styrene	U		0.000118	0.00100	1	04/19/2021 04:04	WG1654139
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/19/2021 04:04	WG1654139
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/19/2021 04:04	WG1654139
Tetrachloroethene	U		0.000300	0.00100	1	04/19/2021 04:04	WG1654139
Toluene	U		0.000278	0.00100	1	04/19/2021 04:04	WG1654139
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/19/2021 04:04	WG1654139
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/19/2021 04:04	WG1654139
Trichloroethene	U		0.000190	0.00100	1	04/19/2021 04:04	WG1654139
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/19/2021 04:04	WG1654139
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/19/2021 04:04	WG1654139
Vinyl chloride	U		0.000234	0.00100	1	04/19/2021 04:04	WG1654139
o-Xylene	U		0.000174	0.00100	1	04/19/2021 04:04	WG1654139
m&p-Xylene	U		0.000430	0.00200	1	04/19/2021 04:04	WG1654139
Xylenes, Total	U		0.000174	0.00300	1	04/19/2021 04:04	WG1654139
(S) Toluene-d8	*109*			*80.0-120*		*04/19/2021 04:04*	WG1654139
(S) 4-Bromofluorobenzene	*108*			*77.0-126*		*04/19/2021 04:04*	WG1654139
(S) 1,2-Dichloroethane-d4	*95.3*			*70.0-130*		*04/19/2021 04:04*	WG1654139

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.174		0.0247	0.100	1	04/24/2021 13:25	WG1656978
(S) o-Terphenyl	*81.6*			*31.0-160*		*04/24/2021 13:25*	WG1656978

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4070		100	1	04/20/2021 17:09	WG1655172

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.672		0.100	0.200	2	05/03/2021 22:50	WG1661753

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1150		37.9	100	100	04/23/2021 15:50	WG1657189
Fluoride	0.706		0.0640	0.150	1	04/23/2021 15:00	WG1657189
Sulfate	1690		59.4	500	100	04/23/2021 15:50	WG1657189

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00108	J	0.000180	0.00200	1	04/27/2021 13:08	WG1656907
Arsenic,Dissolved	0.000544	J	0.000180	0.00200	1	04/27/2021 19:48	WG1656508
Barium	0.0221		0.000381	0.0200	1	04/27/2021 13:08	WG1656907
Barium,Dissolved	0.0208		0.000381	0.0200	1	04/27/2021 19:48	WG1656508
Calcium	592		0.0936	1.00	1	04/27/2021 13:08	WG1656907
Chromium	0.00166	J	0.00124	0.00200	1	04/27/2021 13:08	WG1656907
Chromium,Dissolved	U		0.00124	0.00200	1	04/27/2021 19:48	WG1656508
Iron	0.794		0.0281	0.100	1	04/27/2021 13:08	WG1656907
Iron,Dissolved	U		0.0281	0.100	1	04/27/2021 19:48	WG1656508
Lead	U		0.000849	0.00200	1	04/27/2021 13:08	WG1656907
Lead,Dissolved	U		0.000849	0.00200	1	04/27/2021 19:48	WG1656508
Manganese	0.445		0.000704	0.00500	1	04/27/2021 13:08	WG1656907
Manganese,Dissolved	0.768		0.000704	0.00500	1	04/27/2021 19:48	WG1656508
Potassium	5.28		0.108	2.00	1	04/27/2021 13:08	WG1656907
Selenium	0.000378	J	0.000300	0.00200	1	04/27/2021 13:08	WG1656907
Selenium,Dissolved	0.000405	J	0.000300	0.00200	1	04/27/2021 19:48	WG1656508
Sodium	656		0.376	2.00	1	04/27/2021 13:08	WG1656907

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/23/2021 15:47	WG1657423
(S) a,a,a-Trifluorotoluene(FID)	*101*			*78.0-120*		*04/23/2021 15:47*	WG1657423

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/19/2021 04:25	WG1654139
Benzene	U		0.0000941	0.00100	1	04/19/2021 04:25	WG1654139
Bromodichloromethane	U		0.000136	0.00100	1	04/19/2021 04:25	WG1654139
Bromoform	U		0.000129	0.00100	1	04/19/2021 04:25	WG1654139
Bromomethane	U		0.000605	0.00500	1	04/19/2021 04:25	WG1654139
n-Butylbenzene	U		0.000157	0.00100	1	04/19/2021 04:25	WG1654139
sec-Butylbenzene	U		0.000125	0.00100	1	04/19/2021 04:25	WG1654139
Carbon disulfide	U		0.0000962	0.00100	1	04/19/2021 04:25	WG1654139
Carbon tetrachloride	U		0.000128	0.00100	1	04/19/2021 04:25	WG1654139

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/19/2021 04:25	WG1654139
Chlorodibromomethane	U		0.000140	0.00100	1	04/19/2021 04:25	WG1654139
Chloroethane	U		0.000192	0.00500	1	04/19/2021 04:25	WG1654139
Chloroform	U		0.000111	0.00500	1	04/19/2021 04:25	WG1654139
Chloromethane	U		0.000960	0.00250	1	04/19/2021 04:25	WG1654139
1,2-Dibromoethane	U		0.000126	0.00100	1	04/19/2021 04:25	WG1654139
1,1-Dichloroethane	U		0.000100	0.00100	1	04/19/2021 04:25	WG1654139
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/19/2021 04:25	WG1654139
1,1-Dichloroethene	U		0.000188	0.00100	1	04/19/2021 04:25	WG1654139
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/19/2021 04:25	WG1654139
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/19/2021 04:25	WG1654139
1,2-Dichloropropane	U		0.000149	0.00100	1	04/19/2021 04:25	WG1654139
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/19/2021 04:25	WG1654139
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/19/2021 04:25	WG1654139
Ethylbenzene	U		0.000137	0.00100	1	04/19/2021 04:25	WG1654139
Isopropylbenzene	U		0.000105	0.00100	1	04/19/2021 04:25	WG1654139
p-Isopropyltoluene	U		0.000120	0.00100	1	04/19/2021 04:25	WG1654139
2-Butanone (MEK)	U		0.00119	0.0100	1	04/19/2021 04:25	WG1654139
2-Hexanone	U		0.000787	0.0100	1	04/19/2021 04:25	WG1654139
Methylene Chloride	U		0.000430	0.00500	1	04/19/2021 04:25	WG1654139
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/19/2021 04:25	WG1654139
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/19/2021 04:25	WG1654139
Naphthalene	U		0.00100	0.00500	1	04/19/2021 04:25	WG1654139
n-Propylbenzene	U		0.0000993	0.00100	1	04/19/2021 04:25	WG1654139
Styrene	U		0.000118	0.00100	1	04/19/2021 04:25	WG1654139
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/19/2021 04:25	WG1654139
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/19/2021 04:25	WG1654139
Tetrachloroethene	U		0.000300	0.00100	1	04/19/2021 04:25	WG1654139
Toluene	U		0.000278	0.00100	1	04/19/2021 04:25	WG1654139
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/19/2021 04:25	WG1654139
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/19/2021 04:25	WG1654139
Trichloroethene	U		0.000190	0.00100	1	04/19/2021 04:25	WG1654139
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/19/2021 04:25	WG1654139
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/19/2021 04:25	WG1654139
Vinyl chloride	U		0.000234	0.00100	1	04/19/2021 04:25	WG1654139
o-Xylene	U		0.000174	0.00100	1	04/19/2021 04:25	WG1654139
m&p-Xylene	U		0.000430	0.00200	1	04/19/2021 04:25	WG1654139
Xylenes, Total	U		0.000174	0.00300	1	04/19/2021 04:25	WG1654139
(S) Toluene-d8	*110*			*80.0-120*		*04/19/2021 04:25*	WG1654139
(S) 4-Bromofluorobenzene	*108*			*77.0-126*		*04/19/2021 04:25*	WG1654139
(S) 1,2-Dichloroethane-d4	*97.1*			*70.0-130*		*04/19/2021 04:25*	WG1654139

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0839	J	0.0247	0.100	1	04/24/2021 13:45	WG1656978
(S) o-Terphenyl	*83.7*			*31.0-160*		*04/24/2021 13:45*	WG1656978

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	2950		50.0	1	04/20/2021 17:58	WG1655174

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.149		0.0500	0.100	1	05/03/2021 19:28	WG1661755

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	573		19.0	50.0	50	04/23/2021 06:38	WG1657191
Fluoride	0.887		0.0640	0.150	1	04/23/2021 06:21	WG1657191
Sulfate	1480		29.7	250	50	04/23/2021 06:38	WG1657191

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.000755	J	0.000180	0.00200	1	04/27/2021 13:11	WG1656907
Arsenic,Dissolved	0.000686	J	0.000180	0.00200	1	04/27/2021 19:51	WG1656508
Barium	0.0194	J	0.000381	0.0200	1	04/27/2021 13:11	WG1656907
Barium,Dissolved	0.0191	J	0.000381	0.0200	1	04/27/2021 19:51	WG1656508
Calcium	398		0.0936	1.00	1	04/27/2021 13:11	WG1656907
Chromium	U		0.00124	0.00200	1	04/27/2021 13:11	WG1656907
Chromium,Dissolved	U		0.00124	0.00200	1	04/27/2021 19:51	WG1656508
Iron	0.165		0.0281	0.100	1	04/27/2021 13:11	WG1656907
Iron,Dissolved	U		0.0281	0.100	1	04/27/2021 19:51	WG1656508
Lead	U		0.000849	0.00200	1	04/27/2021 13:11	WG1656907
Lead,Dissolved	U		0.000849	0.00200	1	04/27/2021 19:51	WG1656508
Manganese	0.150		0.000704	0.00500	1	04/27/2021 13:11	WG1656907
Manganese,Dissolved	0.130		0.000704	0.00500	1	04/27/2021 19:51	WG1656508
Potassium	7.28		0.108	2.00	1	04/27/2021 13:11	WG1656907
Selenium	U		0.000300	0.00200	1	04/27/2021 13:11	WG1656907
Selenium,Dissolved	U		0.000300	0.00200	1	04/27/2021 19:51	WG1656508
Sodium	447		0.376	2.00	1	04/27/2021 13:11	WG1656907

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/23/2021 20:08	WG1657430
(S) a,a,a-Trifluorotoluene(FID)	*100*			*78.0-120*		*04/23/2021 20:08*	WG1657430

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0113	0.0500	1	04/19/2021 21:59	WG1654383
Benzene	U		0.0000941	0.00100	1	04/19/2021 21:59	WG1654383
Bromodichloromethane	U		0.000136	0.00100	1	04/19/2021 21:59	WG1654383
Bromoform	U		0.000129	0.00100	1	04/19/2021 21:59	WG1654383
Bromomethane	U		0.000605	0.00500	1	04/19/2021 21:59	WG1654383
n-Butylbenzene	U		0.000157	0.00100	1	04/19/2021 21:59	WG1654383
sec-Butylbenzene	U		0.000125	0.00100	1	04/19/2021 21:59	WG1654383
Carbon disulfide	U		0.0000962	0.00100	1	04/19/2021 21:59	WG1654383
Carbon tetrachloride	U		0.000128	0.00100	1	04/19/2021 21:59	WG1654383

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/19/2021 21:59	WG1654383
Chlorodibromomethane	U		0.000140	0.00100	1	04/19/2021 21:59	WG1654383
Chloroethane	U		0.000192	0.00500	1	04/19/2021 21:59	WG1654383
Chloroform	U		0.000111	0.00500	1	04/19/2021 21:59	WG1654383
Chloromethane	U		0.000960	0.00250	1	04/19/2021 21:59	WG1654383
1,2-Dibromoethane	U		0.000126	0.00100	1	04/19/2021 21:59	WG1654383
1,1-Dichloroethane	U		0.000100	0.00100	1	04/19/2021 21:59	WG1654383
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/19/2021 21:59	WG1654383
1,1-Dichloroethene	U		0.000188	0.00100	1	04/19/2021 21:59	WG1654383
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/19/2021 21:59	WG1654383
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/19/2021 21:59	WG1654383
1,2-Dichloropropane	U		0.000149	0.00100	1	04/19/2021 21:59	WG1654383
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/19/2021 21:59	WG1654383
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/19/2021 21:59	WG1654383
Ethylbenzene	U		0.000137	0.00100	1	04/19/2021 21:59	WG1654383
Isopropylbenzene	U		0.000105	0.00100	1	04/19/2021 21:59	WG1654383
p-Isopropyltoluene	U		0.000120	0.00100	1	04/19/2021 21:59	WG1654383
2-Butanone (MEK)	U		0.00119	0.0100	1	04/19/2021 21:59	WG1654383
2-Hexanone	U		0.000787	0.0100	1	04/19/2021 21:59	WG1654383
Methylene Chloride	U		0.000430	0.00500	1	04/19/2021 21:59	WG1654383
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/19/2021 21:59	WG1654383
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/19/2021 21:59	WG1654383
Naphthalene	U		0.00100	0.00500	1	04/19/2021 21:59	WG1654383
n-Propylbenzene	U		0.0000993	0.00100	1	04/19/2021 21:59	WG1654383
Styrene	U		0.000118	0.00100	1	04/19/2021 21:59	WG1654383
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/19/2021 21:59	WG1654383
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/19/2021 21:59	WG1654383
Tetrachloroethene	U		0.000300	0.00100	1	04/19/2021 21:59	WG1654383
Toluene	U		0.000278	0.00100	1	04/19/2021 21:59	WG1654383
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/19/2021 21:59	WG1654383
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/19/2021 21:59	WG1654383
Trichloroethene	U		0.000190	0.00100	1	04/19/2021 21:59	WG1654383
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/19/2021 21:59	WG1654383
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/19/2021 21:59	WG1654383
Vinyl chloride	U		0.000234	0.00100	1	04/19/2021 21:59	WG1654383
o-Xylene	U		0.000174	0.00100	1	04/19/2021 21:59	WG1654383
m&p-Xylene	U		0.000430	0.00200	1	04/19/2021 21:59	WG1654383
Xylenes, Total	U		0.000174	0.00300	1	04/19/2021 21:59	WG1654383
(S) Toluene-d8	*110*			*80.0-120*		*04/19/2021 21:59*	WG1654383
(S) 4-Bromofluorobenzene	*97.7*			*77.0-126*		*04/19/2021 21:59*	WG1654383
(S) 1,2-Dichloroethane-d4	*91.2*			*70.0-130*		*04/19/2021 21:59*	WG1654383

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0580	J	0.0247	0.100	1	04/24/2021 14:05	WG1656978
(S) o-Terphenyl	*85.3*			*31.0-160*		*04/24/2021 14:05*	WG1656978

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	11600		200	1	04/20/2021 17:58	WG1655174

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.0991	J	0.0500	0.100	1	05/03/2021 19:30	WG1661755

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	4670		37.9	100	100	04/23/2021 07:11	WG1657191
Fluoride	0.815		0.0640	0.150	1	04/23/2021 06:54	WG1657191
Sulfate	3100		59.4	500	100	04/23/2021 07:11	WG1657191

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00159	J	0.000900	0.0100	5	04/28/2021 21:05	WG1656912
Arsenic,Dissolved	0.000608	J	0.000180	0.00200	1	04/27/2021 19:55	WG1656508
Barium	0.0266	J	0.00190	0.100	5	04/28/2021 21:05	WG1656912
Barium,Dissolved	0.0234		0.000381	0.0200	1	04/27/2021 19:55	WG1656508
Calcium	858		0.468	5.00	5	04/28/2021 21:05	WG1656912
Chromium	U		0.00620	0.0100	5	04/28/2021 21:05	WG1656912
Chromium,Dissolved	U		0.00124	0.00200	1	04/27/2021 19:55	WG1656508
Iron	0.923		0.140	0.500	5	04/28/2021 21:05	WG1656912
Iron,Dissolved	U		0.0281	0.100	1	04/27/2021 19:55	WG1656508
Lead	U		0.00424	0.0100	5	04/28/2021 21:05	WG1656912
Lead,Dissolved	U		0.000849	0.00200	1	04/27/2021 19:55	WG1656508
Manganese	0.0597		0.00352	0.0250	5	04/28/2021 21:05	WG1656912
Manganese,Dissolved	0.0824		0.000704	0.00500	1	04/27/2021 19:55	WG1656508
Potassium	36.1		0.540	10.0	5	04/28/2021 21:05	WG1656912
Selenium	U		0.00150	0.0100	5	04/28/2021 21:05	WG1656912
Selenium,Dissolved	0.000700	J	0.000300	0.00200	1	04/27/2021 19:55	WG1656508
Sodium	2980		1.88	10.0	5	04/28/2021 21:05	WG1656912

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/23/2021 20:30	WG1657430
(S) a,a,a-Trifluorotoluene(FID)	*101*			*78.0-120*		*04/23/2021 20:30*	WG1657430

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/19/2021 22:20	WG1654383
Benzene	U		0.0000941	0.00100	1	04/19/2021 22:20	WG1654383
Bromodichloromethane	U		0.000136	0.00100	1	04/19/2021 22:20	WG1654383
Bromoform	U		0.000129	0.00100	1	04/19/2021 22:20	WG1654383
Bromomethane	U		0.000605	0.00500	1	04/19/2021 22:20	WG1654383
n-Butylbenzene	U		0.000157	0.00100	1	04/19/2021 22:20	WG1654383
sec-Butylbenzene	U		0.000125	0.00100	1	04/19/2021 22:20	WG1654383
Carbon disulfide	U		0.0000962	0.00100	1	04/19/2021 22:20	WG1654383
Carbon tetrachloride	U		0.000128	0.00100	1	04/19/2021 22:20	WG1654383

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/19/2021 22:20	WG1654383
Chlorodibromomethane	U		0.000140	0.00100	1	04/19/2021 22:20	WG1654383
Chloroethane	U		0.000192	0.00500	1	04/19/2021 22:20	WG1654383
Chloroform	U		0.000111	0.00500	1	04/19/2021 22:20	WG1654383
Chloromethane	U		0.000960	0.00250	1	04/19/2021 22:20	WG1654383
1,2-Dibromoethane	U		0.000126	0.00100	1	04/19/2021 22:20	WG1654383
1,1-Dichloroethane	U		0.000100	0.00100	1	04/19/2021 22:20	WG1654383
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/19/2021 22:20	WG1654383
1,1-Dichloroethene	U		0.000188	0.00100	1	04/19/2021 22:20	WG1654383
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/19/2021 22:20	WG1654383
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/19/2021 22:20	WG1654383
1,2-Dichloropropane	U		0.000149	0.00100	1	04/19/2021 22:20	WG1654383
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/19/2021 22:20	WG1654383
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/19/2021 22:20	WG1654383
Ethylbenzene	U		0.000137	0.00100	1	04/19/2021 22:20	WG1654383
Isopropylbenzene	U		0.000105	0.00100	1	04/19/2021 22:20	WG1654383
p-Isopropyltoluene	U		0.000120	0.00100	1	04/19/2021 22:20	WG1654383
2-Butanone (MEK)	U		0.00119	0.0100	1	04/19/2021 22:20	WG1654383
2-Hexanone	U		0.000787	0.0100	1	04/19/2021 22:20	WG1654383
Methylene Chloride	U		0.000430	0.00500	1	04/19/2021 22:20	WG1654383
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/19/2021 22:20	WG1654383
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/19/2021 22:20	WG1654383
Naphthalene	U		0.00100	0.00500	1	04/19/2021 22:20	WG1654383
n-Propylbenzene	U		0.0000993	0.00100	1	04/19/2021 22:20	WG1654383
Styrene	U		0.000118	0.00100	1	04/19/2021 22:20	WG1654383
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/19/2021 22:20	WG1654383
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/19/2021 22:20	WG1654383
Tetrachloroethene	U		0.000300	0.00100	1	04/19/2021 22:20	WG1654383
Toluene	U		0.000278	0.00100	1	04/19/2021 22:20	WG1654383
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/19/2021 22:20	WG1654383
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/19/2021 22:20	WG1654383
Trichloroethene	U		0.000190	0.00100	1	04/19/2021 22:20	WG1654383
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/19/2021 22:20	WG1654383
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/19/2021 22:20	WG1654383
Vinyl chloride	U		0.000234	0.00100	1	04/19/2021 22:20	WG1654383
o-Xylene	U		0.000174	0.00100	1	04/19/2021 22:20	WG1654383
m&p-Xylene	U		0.000430	0.00200	1	04/19/2021 22:20	WG1654383
Xylenes, Total	U		0.000174	0.00300	1	04/19/2021 22:20	WG1654383
(S) Toluene-d8	*111*			*80.0-120*		*04/19/2021 22:20*	WG1654383
(S) 4-Bromofluorobenzene	*93.7*			*77.0-126*		*04/19/2021 22:20*	WG1654383
(S) 1,2-Dichloroethane-d4	*92.5*			*70.0-130*		*04/19/2021 22:20*	WG1654383

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0556	J	0.0247	0.100	1	04/24/2021 14:25	WG1656978
(S) o-Terphenyl	*84.7*			*31.0-160*		*04/24/2021 14:25*	WG1656978

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	16200		400	1	04/20/2021 17:09	WG1655172

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	1.10		0.0500	0.100	1	05/03/2021 19:34	WG1661755

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	8110		37.9	100	100	04/23/2021 07:27	WG1657191
Fluoride	0.794		0.0640	0.150	1	04/23/2021 08:16	WG1657191
Sulfate	3180		59.4	500	100	04/23/2021 07:27	WG1657191

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	U		0.00180	0.0200	10	04/28/2021 21:08	WG1656912
Arsenic,Dissolved	0.000276	J	0.000180	0.00200	1	04/27/2021 19:58	WG1656508
Barium	0.0285	J	0.00381	0.200	10	04/28/2021 21:08	WG1656912
Barium,Dissolved	0.0256		0.000381	0.0200	1	04/27/2021 19:58	WG1656508
Calcium	1130		0.936	10.0	10	04/28/2021 21:08	WG1656912
Chromium	U		0.0124	0.0200	10	04/28/2021 21:08	WG1656912
Chromium,Dissolved	U		0.00124	0.00200	1	04/27/2021 19:58	WG1656508
Iron	0.919	J	0.281	1.00	10	04/28/2021 21:08	WG1656912
Iron,Dissolved	U		0.0281	0.100	1	04/27/2021 19:58	WG1656508
Lead	U		0.00849	0.0200	10	04/28/2021 21:08	WG1656912
Lead,Dissolved	U		0.00849	0.0200	10	04/27/2021 20:24	WG1656508
Manganese	0.145		0.00704	0.0500	10	04/28/2021 21:08	WG1656912
Manganese,Dissolved	0.175		0.000704	0.00500	1	04/27/2021 19:58	WG1656508
Potassium	20.6		1.08	20.0	10	04/28/2021 21:08	WG1656912
Selenium	U		0.00300	0.0200	10	04/28/2021 21:08	WG1656912
Selenium,Dissolved	0.000873	J	0.000300	0.00200	1	04/27/2021 19:58	WG1656508
Sodium	5040		3.76	20.0	10	04/28/2021 21:08	WG1656912

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/23/2021 20:52	WG1657430
(S) a,a,a-Trifluorotoluene(FID)	*101*			*78.0-120*		*04/23/2021 20:52*	WG1657430

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/19/2021 22:41	WG1654383
Benzene	U		0.0000941	0.00100	1	04/19/2021 22:41	WG1654383
Bromodichloromethane	U		0.000136	0.00100	1	04/19/2021 22:41	WG1654383
Bromoform	U		0.000129	0.00100	1	04/19/2021 22:41	WG1654383
Bromomethane	U		0.000605	0.00500	1	04/19/2021 22:41	WG1654383
n-Butylbenzene	U		0.000157	0.00100	1	04/19/2021 22:41	WG1654383
sec-Butylbenzene	U		0.000125	0.00100	1	04/19/2021 22:41	WG1654383
Carbon disulfide	U		0.0000962	0.00100	1	04/19/2021 22:41	WG1654383
Carbon tetrachloride	U		0.000128	0.00100	1	04/19/2021 22:41	WG1654383

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/19/2021 22:41	WG1654383
Chlorodibromomethane	U		0.000140	0.00100	1	04/19/2021 22:41	WG1654383
Chloroethane	U		0.000192	0.00500	1	04/19/2021 22:41	WG1654383
Chloroform	U		0.000111	0.00500	1	04/19/2021 22:41	WG1654383
Chloromethane	U		0.000960	0.00250	1	04/19/2021 22:41	WG1654383
1,2-Dibromoethane	U		0.000126	0.00100	1	04/19/2021 22:41	WG1654383
1,1-Dichloroethane	U		0.000100	0.00100	1	04/19/2021 22:41	WG1654383
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/19/2021 22:41	WG1654383
1,1-Dichloroethene	U		0.000188	0.00100	1	04/19/2021 22:41	WG1654383
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/19/2021 22:41	WG1654383
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/19/2021 22:41	WG1654383
1,2-Dichloropropane	U		0.000149	0.00100	1	04/19/2021 22:41	WG1654383
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/19/2021 22:41	WG1654383
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/19/2021 22:41	WG1654383
Ethylbenzene	U		0.000137	0.00100	1	04/19/2021 22:41	WG1654383
Isopropylbenzene	U		0.000105	0.00100	1	04/19/2021 22:41	WG1654383
p-Isopropyltoluene	U		0.000120	0.00100	1	04/19/2021 22:41	WG1654383
2-Butanone (MEK)	U		0.00119	0.0100	1	04/19/2021 22:41	WG1654383
2-Hexanone	U		0.000787	0.0100	1	04/19/2021 22:41	WG1654383
Methylene Chloride	U		0.000430	0.00500	1	04/19/2021 22:41	WG1654383
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/19/2021 22:41	WG1654383
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/19/2021 22:41	WG1654383
Naphthalene	U		0.00100	0.00500	1	04/19/2021 22:41	WG1654383
n-Propylbenzene	U		0.0000993	0.00100	1	04/19/2021 22:41	WG1654383
Styrene	U		0.000118	0.00100	1	04/19/2021 22:41	WG1654383
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/19/2021 22:41	WG1654383
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/19/2021 22:41	WG1654383
Tetrachloroethene	U		0.000300	0.00100	1	04/19/2021 22:41	WG1654383
Toluene	U		0.000278	0.00100	1	04/19/2021 22:41	WG1654383
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/19/2021 22:41	WG1654383
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/19/2021 22:41	WG1654383
Trichloroethene	U		0.000190	0.00100	1	04/19/2021 22:41	WG1654383
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/19/2021 22:41	WG1654383
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/19/2021 22:41	WG1654383
Vinyl chloride	U		0.000234	0.00100	1	04/19/2021 22:41	WG1654383
o-Xylene	U		0.000174	0.00100	1	04/19/2021 22:41	WG1654383
m&p-Xylene	U		0.000430	0.00200	1	04/19/2021 22:41	WG1654383
Xylenes, Total	U		0.000174	0.00300	1	04/19/2021 22:41	WG1654383
(S) Toluene-d8	*111*			*80.0-120*		*04/19/2021 22:41*	WG1654383
(S) 4-Bromofluorobenzene	*97.9*			*77.0-126*		*04/19/2021 22:41*	WG1654383
(S) 1,2-Dichloroethane-d4	*90.6*			*70.0-130*		*04/19/2021 22:41*	WG1654383

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0459	J	0.0247	0.100	1	04/24/2021 14:45	WG1656978
(S) o-Terphenyl	*80.5*			*31.0-160*		*04/24/2021 14:45*	WG1656978

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	12800		400	1	04/20/2021 17:09	WG1655172

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0500	0.100	1	05/03/2021 19:36	WG1661755

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	6020		37.9	100	100	04/23/2021 08:49	WG1657191
Fluoride	0.829		0.0640	0.150	1	04/23/2021 08:33	WG1657191
Sulfate	3110		59.4	500	100	04/23/2021 08:49	WG1657191

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00370	J	0.000900	0.0100	5	04/28/2021 21:11	WG1656912
Arsenic,Dissolved	0.00133	J	0.000180	0.00200	1	04/27/2021 20:08	WG1656508
Barium	0.0203	J	0.00190	0.100	5	04/28/2021 21:11	WG1656912
Barium,Dissolved	0.0172	J	0.000381	0.0200	1	04/27/2021 20:08	WG1656508
Calcium	966		0.468	5.00	5	04/28/2021 21:11	WG1656912
Chromium	U		0.00620	0.0100	5	04/28/2021 21:11	WG1656912
Chromium,Dissolved	U		0.00124	0.00200	1	04/27/2021 20:08	WG1656508
Iron	3.96		0.140	0.500	5	04/28/2021 21:11	WG1656912
Iron,Dissolved	U		0.0281	0.100	1	04/27/2021 20:08	WG1656508
Lead	U		0.00424	0.0100	5	04/28/2021 21:11	WG1656912
Lead,Dissolved	U		0.00424	0.0100	5	04/27/2021 20:27	WG1656508
Manganese	0.403		0.00352	0.0250	5	04/28/2021 21:11	WG1656912
Manganese,Dissolved	0.385		0.000704	0.00500	1	04/27/2021 20:08	WG1656508
Potassium	34.1		0.540	10.0	5	04/28/2021 21:11	WG1656912
Selenium	U		0.00150	0.0100	5	04/28/2021 21:11	WG1656912
Selenium,Dissolved	0.000363	J	0.000300	0.00200	1	04/27/2021 20:08	WG1656508
Sodium	3850		1.88	10.0	5	04/28/2021 21:11	WG1656912

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/23/2021 21:13	WG1657430
(S) a,a,a-Trifluorotoluene(FID)	*101*			*78.0-120*		*04/23/2021 21:13*	WG1657430

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/19/2021 23:01	WG1654383
Benzene	U		0.0000941	0.00100	1	04/19/2021 23:01	WG1654383
Bromodichloromethane	U		0.000136	0.00100	1	04/19/2021 23:01	WG1654383
Bromoform	U		0.000129	0.00100	1	04/19/2021 23:01	WG1654383
Bromomethane	U		0.000605	0.00500	1	04/19/2021 23:01	WG1654383
n-Butylbenzene	U		0.000157	0.00100	1	04/19/2021 23:01	WG1654383
sec-Butylbenzene	U		0.000125	0.00100	1	04/19/2021 23:01	WG1654383
Carbon disulfide	U		0.0000962	0.00100	1	04/19/2021 23:01	WG1654383
Carbon tetrachloride	U		0.000128	0.00100	1	04/19/2021 23:01	WG1654383

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/19/2021 23:01	WG1654383
Chlorodibromomethane	U		0.000140	0.00100	1	04/19/2021 23:01	WG1654383
Chloroethane	U		0.000192	0.00500	1	04/19/2021 23:01	WG1654383
Chloroform	U		0.000111	0.00500	1	04/19/2021 23:01	WG1654383
Chloromethane	U		0.000960	0.00250	1	04/19/2021 23:01	WG1654383
1,2-Dibromoethane	U		0.000126	0.00100	1	04/19/2021 23:01	WG1654383
1,1-Dichloroethane	U		0.000100	0.00100	1	04/19/2021 23:01	WG1654383
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/19/2021 23:01	WG1654383
1,1-Dichloroethene	U		0.000188	0.00100	1	04/19/2021 23:01	WG1654383
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/19/2021 23:01	WG1654383
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/19/2021 23:01	WG1654383
1,2-Dichloropropane	U		0.000149	0.00100	1	04/19/2021 23:01	WG1654383
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/19/2021 23:01	WG1654383
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/19/2021 23:01	WG1654383
Ethylbenzene	U		0.000137	0.00100	1	04/19/2021 23:01	WG1654383
Isopropylbenzene	U		0.000105	0.00100	1	04/19/2021 23:01	WG1654383
p-Isopropyltoluene	U		0.000120	0.00100	1	04/19/2021 23:01	WG1654383
2-Butanone (MEK)	U		0.00119	0.0100	1	04/19/2021 23:01	WG1654383
2-Hexanone	U		0.000787	0.0100	1	04/19/2021 23:01	WG1654383
Methylene Chloride	U		0.000430	0.00500	1	04/19/2021 23:01	WG1654383
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/19/2021 23:01	WG1654383
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/19/2021 23:01	WG1654383
Naphthalene	U		0.00100	0.00500	1	04/19/2021 23:01	WG1654383
n-Propylbenzene	U		0.0000993	0.00100	1	04/19/2021 23:01	WG1654383
Styrene	U		0.000118	0.00100	1	04/19/2021 23:01	WG1654383
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/19/2021 23:01	WG1654383
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/19/2021 23:01	WG1654383
Tetrachloroethene	U		0.000300	0.00100	1	04/19/2021 23:01	WG1654383
Toluene	U		0.000278	0.00100	1	04/19/2021 23:01	WG1654383
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/19/2021 23:01	WG1654383
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/19/2021 23:01	WG1654383
Trichloroethene	U		0.000190	0.00100	1	04/19/2021 23:01	WG1654383
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/19/2021 23:01	WG1654383
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/19/2021 23:01	WG1654383
Vinyl chloride	U		0.000234	0.00100	1	04/19/2021 23:01	WG1654383
o-Xylene	U		0.000174	0.00100	1	04/19/2021 23:01	WG1654383
m&p-Xylene	U		0.000430	0.00200	1	04/19/2021 23:01	WG1654383
Xylenes, Total	U		0.000174	0.00300	1	04/19/2021 23:01	WG1654383
(S) Toluene-d8	*115*			*80.0-120*		*04/19/2021 23:01*	WG1654383
(S) 4-Bromofluorobenzene	*92.1*			*77.0-126*		*04/19/2021 23:01*	WG1654383
(S) 1,2-Dichloroethane-d4	*89.9*			*70.0-130*		*04/19/2021 23:01*	WG1654383

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0402	J	0.0247	0.100	1	04/24/2021 15:05	WG1656978
(S) o-Terphenyl	*84.2*			*31.0-160*		*04/24/2021 15:05*	WG1656978

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	11500		200	1	04/20/2021 17:09	WG1655172

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.0500	0.100	1	05/03/2021 19:41	WG1661755

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	4420		37.9	100	100	04/23/2021 09:22	WG1657191
Fluoride	0.837		0.0640	0.150	1	04/23/2021 09:06	WG1657191
Sulfate	3030		59.4	500	100	04/23/2021 09:22	WG1657191

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00580	J	0.000900	0.0100	5	04/28/2021 21:15	WG1656912
Arsenic,Dissolved	0.00389		0.000180	0.00200	1	04/27/2021 20:11	WG1656508
Barium	0.0272	J	0.00190	0.100	5	04/28/2021 21:15	WG1656912
Barium,Dissolved	0.0234		0.000381	0.0200	1	04/27/2021 20:11	WG1656508
Calcium	851		0.468	5.00	5	04/28/2021 21:15	WG1656912
Chromium	U		0.00620	0.0100	5	04/28/2021 21:15	WG1656912
Chromium,Dissolved	U		0.00124	0.00200	1	04/27/2021 20:11	WG1656508
Iron	5.05		0.140	0.500	5	04/28/2021 21:15	WG1656912
Iron,Dissolved	U		0.0281	0.100	1	04/27/2021 20:11	WG1656508
Lead	U		0.00424	0.0100	5	04/28/2021 21:15	WG1656912
Lead,Dissolved	U		0.00424	0.0100	5	04/27/2021 20:31	WG1656508
Manganese	0.269		0.00352	0.0250	5	04/28/2021 21:15	WG1656912
Manganese,Dissolved	0.284		0.000704	0.00500	1	04/27/2021 20:11	WG1656508
Potassium	41.2		0.540	10.0	5	04/28/2021 21:15	WG1656912
Selenium	U		0.00150	0.0100	5	04/28/2021 21:15	WG1656912
Selenium,Dissolved	U		0.000300	0.00200	1	04/27/2021 20:11	WG1656508
Sodium	2980		1.88	10.0	5	04/28/2021 21:15	WG1656912

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	0.337		0.0314	0.100	1	04/23/2021 21:35	WG1657430
(S) a,a,a-Trifluorotoluene(FID)	*101*			*78.0-120*		*04/23/2021 21:35*	WG1657430

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0113	0.0500	1	04/19/2021 23:22	WG1654383
Benzene	U		0.0000941	0.00100	1	04/19/2021 23:22	WG1654383
Bromodichloromethane	U		0.000136	0.00100	1	04/19/2021 23:22	WG1654383
Bromoform	U		0.000129	0.00100	1	04/19/2021 23:22	WG1654383
Bromomethane	U		0.000605	0.00500	1	04/19/2021 23:22	WG1654383
n-Butylbenzene	U		0.000157	0.00100	1	04/19/2021 23:22	WG1654383
sec-Butylbenzene	U		0.000125	0.00100	1	04/19/2021 23:22	WG1654383
Carbon disulfide	U		0.0000962	0.00100	1	04/19/2021 23:22	WG1654383
Carbon tetrachloride	U		0.000128	0.00100	1	04/19/2021 23:22	WG1654383

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/19/2021 23:22	WG1654383
Chlorodibromomethane	U		0.000140	0.00100	1	04/19/2021 23:22	WG1654383
Chloroethane	U		0.000192	0.00500	1	04/19/2021 23:22	WG1654383
Chloroform	U		0.000111	0.00500	1	04/19/2021 23:22	WG1654383
Chloromethane	U		0.000960	0.00250	1	04/19/2021 23:22	WG1654383
1,2-Dibromoethane	U		0.000126	0.00100	1	04/19/2021 23:22	WG1654383
1,1-Dichloroethane	U		0.000100	0.00100	1	04/19/2021 23:22	WG1654383
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/19/2021 23:22	WG1654383
1,1-Dichloroethene	U		0.000188	0.00100	1	04/19/2021 23:22	WG1654383
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/19/2021 23:22	WG1654383
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/19/2021 23:22	WG1654383
1,2-Dichloropropane	U		0.000149	0.00100	1	04/19/2021 23:22	WG1654383
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/19/2021 23:22	WG1654383
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/19/2021 23:22	WG1654383
Ethylbenzene	U		0.000137	0.00100	1	04/19/2021 23:22	WG1654383
Isopropylbenzene	U		0.000105	0.00100	1	04/19/2021 23:22	WG1654383
p-Isopropyltoluene	U		0.000120	0.00100	1	04/19/2021 23:22	WG1654383
2-Butanone (MEK)	U		0.00119	0.0100	1	04/19/2021 23:22	WG1654383
2-Hexanone	U		0.000787	0.0100	1	04/19/2021 23:22	WG1654383
Methylene Chloride	U		0.000430	0.00500	1	04/19/2021 23:22	WG1654383
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/19/2021 23:22	WG1654383
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/19/2021 23:22	WG1654383
Naphthalene	U		0.00100	0.00500	1	04/19/2021 23:22	WG1654383
n-Propylbenzene	U		0.0000993	0.00100	1	04/19/2021 23:22	WG1654383
Styrene	U		0.000118	0.00100	1	04/19/2021 23:22	WG1654383
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/19/2021 23:22	WG1654383
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/19/2021 23:22	WG1654383
Tetrachloroethene	U		0.000300	0.00100	1	04/19/2021 23:22	WG1654383
Toluene	U		0.000278	0.00100	1	04/19/2021 23:22	WG1654383
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/19/2021 23:22	WG1654383
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/19/2021 23:22	WG1654383
Trichloroethene	U		0.000190	0.00100	1	04/19/2021 23:22	WG1654383
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/19/2021 23:22	WG1654383
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/19/2021 23:22	WG1654383
Vinyl chloride	U		0.000234	0.00100	1	04/19/2021 23:22	WG1654383
o-Xylene	U		0.000174	0.00100	1	04/19/2021 23:22	WG1654383
m&p-Xylene	U		0.000430	0.00200	1	04/19/2021 23:22	WG1654383
Xylenes, Total	U		0.000174	0.00300	1	04/19/2021 23:22	WG1654383
(S) Toluene-d8	*112*			*80.0-120*		*04/19/2021 23:22*	WG1654383
(S) 4-Bromofluorobenzene	*106*			*77.0-126*		*04/19/2021 23:22*	WG1654383
(S) 1,2-Dichloroethane-d4	*90.6*			*70.0-130*		*04/19/2021 23:22*	WG1654383

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.467		0.0247	0.100	1	04/24/2021 15:26	WG1656978
(S) o-Terphenyl	*96.8*			*31.0-160*		*04/24/2021 15:26*	WG1656978

Received by OCD: 1/9/2025 2:41:44 PM

DUP-LI-02
Collected date/time: 04/14/21 08:00
L1340049

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	4940		100	1	04/20/2021 17:58	WG1655174

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.0500	0.100	1	05/03/2021 19:42	WG1661755

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	1550		37.9	100	100	04/23/2021 09:55	WG1657191
Fluoride	0.712		0.0640	0.150	1	04/23/2021 09:38	WG1657191
Sulfate	1910		59.4	500	100	04/23/2021 09:55	WG1657191

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0262		0.000900	0.0100	5	04/28/2021 21:19	WG1656912
Arsenic,Dissolved	0.0264		0.000180	0.00200	1	04/27/2021 20:52	WG1656508
Barium	0.0143	J	0.00190	0.100	5	04/28/2021 21:19	WG1656912
Barium,Dissolved	0.0146	J	0.000381	0.0200	1	04/27/2021 20:52	WG1656508
Calcium	399		0.468	5.00	5	04/28/2021 21:19	WG1656912
Chromium	U		0.00620	0.0100	5	04/28/2021 21:19	WG1656912
Chromium,Dissolved	0.00160	J	0.00124	0.00200	1	04/27/2021 20:52	WG1656508
Iron	0.725		0.140	0.500	5	04/28/2021 21:19	WG1656912
Iron,Dissolved	0.0307	J	0.0281	0.100	1	04/27/2021 20:52	WG1656508
Lead	U		0.00424	0.0100	5	04/28/2021 21:19	WG1656912
Lead,Dissolved	U		0.000849	0.00200	1	04/27/2021 20:52	WG1656508
Manganese	3.67		0.00352	0.0250	5	04/28/2021 21:19	WG1656912
Manganese,Dissolved	4.04		0.000704	0.00500	1	04/27/2021 20:52	WG1656508
Potassium	3.14	J	0.540	10.0	5	04/28/2021 21:19	WG1656912
Selenium	U		0.00150	0.0100	5	04/28/2021 21:19	WG1656912
Selenium,Dissolved	0.000901	J	0.000300	0.00200	1	04/27/2021 20:52	WG1656508
Sodium	1370		1.88	10.0	5	04/28/2021 21:19	WG1656912

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	1.45		0.0314	0.100	1	04/23/2021 21:57	WG1657430
(S) a,a,a-Trifluorotoluene(FID)	*101*			*78.0-120*		*04/23/2021 21:57*	WG1657430

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0113	0.0500	1	04/19/2021 23:42	WG1654383
Benzene	U		0.0000941	0.00100	1	04/19/2021 23:42	WG1654383
Bromodichloromethane	U		0.000136	0.00100	1	04/19/2021 23:42	WG1654383
Bromoform	U		0.000129	0.00100	1	04/19/2021 23:42	WG1654383
Bromomethane	U		0.000605	0.00500	1	04/19/2021 23:42	WG1654383
n-Butylbenzene	U		0.000157	0.00100	1	04/19/2021 23:42	WG1654383
sec-Butylbenzene	U		0.000125	0.00100	1	04/19/2021 23:42	WG1654383
Carbon disulfide	U		0.0000962	0.00100	1	04/19/2021 23:42	WG1654383
Carbon tetrachloride	U		0.000128	0.00100	1	04/19/2021 23:42	WG1654383

Released to Imaging: 2/7/2025 11:08:22 AM

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/19/2021 23:42	WG1654383
Chlorodibromomethane	U		0.000140	0.00100	1	04/19/2021 23:42	WG1654383
Chloroethane	U		0.000192	0.00500	1	04/19/2021 23:42	WG1654383
Chloroform	U		0.000111	0.00500	1	04/19/2021 23:42	WG1654383
Chloromethane	U		0.000960	0.00250	1	04/19/2021 23:42	WG1654383
1,2-Dibromoethane	U		0.000126	0.00100	1	04/19/2021 23:42	WG1654383
1,1-Dichloroethane	U		0.000100	0.00100	1	04/19/2021 23:42	WG1654383
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/19/2021 23:42	WG1654383
1,1-Dichloroethene	U		0.000188	0.00100	1	04/19/2021 23:42	WG1654383
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/19/2021 23:42	WG1654383
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/19/2021 23:42	WG1654383
1,2-Dichloropropane	U		0.000149	0.00100	1	04/19/2021 23:42	WG1654383
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/19/2021 23:42	WG1654383
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/19/2021 23:42	WG1654383
Ethylbenzene	U		0.000137	0.00100	1	04/19/2021 23:42	WG1654383
Isopropylbenzene	U		0.000105	0.00100	1	04/19/2021 23:42	WG1654383
p-Isopropyltoluene	U		0.000120	0.00100	1	04/19/2021 23:42	WG1654383
2-Butanone (MEK)	U		0.00119	0.0100	1	04/19/2021 23:42	WG1654383
2-Hexanone	U		0.000787	0.0100	1	04/19/2021 23:42	WG1654383
Methylene Chloride	U		0.000430	0.00500	1	04/19/2021 23:42	WG1654383
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/19/2021 23:42	WG1654383
Methyl tert-butyl ether	0.00245		0.000101	0.00100	1	04/19/2021 23:42	WG1654383
Naphthalene	U		0.00100	0.00500	1	04/19/2021 23:42	WG1654383
n-Propylbenzene	U		0.0000993	0.00100	1	04/19/2021 23:42	WG1654383
Styrene	U		0.000118	0.00100	1	04/19/2021 23:42	WG1654383
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/19/2021 23:42	WG1654383
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/19/2021 23:42	WG1654383
Tetrachloroethene	U		0.000300	0.00100	1	04/19/2021 23:42	WG1654383
Toluene	U		0.000278	0.00100	1	04/19/2021 23:42	WG1654383
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/19/2021 23:42	WG1654383
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/19/2021 23:42	WG1654383
Trichloroethene	U		0.000190	0.00100	1	04/19/2021 23:42	WG1654383
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/19/2021 23:42	WG1654383
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/19/2021 23:42	WG1654383
Vinyl chloride	U		0.000234	0.00100	1	04/19/2021 23:42	WG1654383
o-Xylene	U		0.000174	0.00100	1	04/19/2021 23:42	WG1654383
m&p-Xylene	U		0.000430	0.00200	1	04/19/2021 23:42	WG1654383
Xylenes, Total	U		0.000174	0.00300	1	04/19/2021 23:42	WG1654383
(S) Toluene-d8	*116*			*80.0-120*		*04/19/2021 23:42*	WG1654383
(S) 4-Bromofluorobenzene	*99.6*			*77.0-126*		*04/19/2021 23:42*	WG1654383
(S) 1,2-Dichloroethane-d4	*91.1*			*70.0-130*		*04/19/2021 23:42*	WG1654383

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	3.94		0.0247	0.100	1	04/24/2021 15:46	WG1656978
(S) o-Terphenyl	*95.8*			*31.0-160*		*04/24/2021 15:46*	WG1656978

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3790		100	1	04/20/2021 17:09	WG1655172

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.171		0.0500	0.100	1	05/03/2021 19:43	WG1661755

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1110		37.9	100	100	04/23/2021 10:28	WG1657191
Fluoride	1.55		0.0640	0.150	1	04/23/2021 10:11	WG1657191
Sulfate	1850		59.4	500	100	04/23/2021 10:28	WG1657191

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0417		0.000900	0.0100	5	04/28/2021 21:23	WG1656912
Arsenic,Dissolved	0.0361		0.000180	0.00200	1	04/27/2021 20:34	WG1656508
Barium	0.0158	J	0.00190	0.100	5	04/28/2021 21:23	WG1656912
Barium,Dissolved	0.0144	J	0.000381	0.0200	1	04/27/2021 20:34	WG1656508
Calcium	493		0.468	5.00	5	04/28/2021 21:23	WG1656912
Chromium	0.0174		0.00620	0.0100	5	04/28/2021 21:23	WG1656912
Chromium,Dissolved	U		0.00124	0.00200	1	04/27/2021 20:34	WG1656508
Iron	0.334	J	0.140	0.500	5	04/28/2021 21:23	WG1656912
Iron,Dissolved	U		0.0281	0.100	1	04/27/2021 20:34	WG1656508
Lead	U		0.00424	0.0100	5	04/28/2021 21:23	WG1656912
Lead,Dissolved	U		0.000849	0.00200	1	04/27/2021 20:34	WG1656508
Manganese	1.90		0.00352	0.0250	5	04/28/2021 21:23	WG1656912
Manganese,Dissolved	1.86		0.000704	0.00500	1	04/27/2021 20:34	WG1656508
Potassium	5.16	J	0.540	10.0	5	04/28/2021 21:23	WG1656912
Selenium	0.00570	J	0.00150	0.0100	5	04/28/2021 21:23	WG1656912
Selenium,Dissolved	0.00756		0.000300	0.00200	1	04/27/2021 20:34	WG1656508
Sodium	889		1.88	10.0	5	04/28/2021 21:23	WG1656912

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.591		0.0314	0.100	1	04/23/2021 22:19	WG1657430
(S) a,a,a-Trifluorotoluene(FID)	*101*			*78.0-120*		*04/23/2021 22:19*	WG1657430

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/20/2021 00:03	WG1654383
Benzene	U		0.0000941	0.00100	1	04/20/2021 00:03	WG1654383
Bromodichloromethane	U		0.000136	0.00100	1	04/20/2021 00:03	WG1654383
Bromoform	U		0.000129	0.00100	1	04/20/2021 00:03	WG1654383
Bromomethane	U		0.000605	0.00500	1	04/20/2021 00:03	WG1654383
n-Butylbenzene	U		0.000157	0.00100	1	04/20/2021 00:03	WG1654383
sec-Butylbenzene	0.000188	J	0.000125	0.00100	1	04/20/2021 00:03	WG1654383
Carbon disulfide	U		0.0000962	0.00100	1	04/20/2021 00:03	WG1654383
Carbon tetrachloride	U		0.000128	0.00100	1	04/20/2021 00:03	WG1654383

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/20/2021 00:03	WG1654383
Chlorodibromomethane	U		0.000140	0.00100	1	04/20/2021 00:03	WG1654383
Chloroethane	U		0.000192	0.00500	1	04/20/2021 00:03	WG1654383
Chloroform	U		0.000111	0.00500	1	04/20/2021 00:03	WG1654383
Chloromethane	U		0.000960	0.00250	1	04/20/2021 00:03	WG1654383
1,2-Dibromoethane	U		0.000126	0.00100	1	04/20/2021 00:03	WG1654383
1,1-Dichloroethane	U		0.000100	0.00100	1	04/20/2021 00:03	WG1654383
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/20/2021 00:03	WG1654383
1,1-Dichloroethene	U		0.000188	0.00100	1	04/20/2021 00:03	WG1654383
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/20/2021 00:03	WG1654383
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/20/2021 00:03	WG1654383
1,2-Dichloropropane	U		0.000149	0.00100	1	04/20/2021 00:03	WG1654383
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/20/2021 00:03	WG1654383
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/20/2021 00:03	WG1654383
Ethylbenzene	U		0.000137	0.00100	1	04/20/2021 00:03	WG1654383
Isopropylbenzene	0.000291	J	0.000105	0.00100	1	04/20/2021 00:03	WG1654383
p-Isopropyltoluene	U		0.000120	0.00100	1	04/20/2021 00:03	WG1654383
2-Butanone (MEK)	U		0.00119	0.0100	1	04/20/2021 00:03	WG1654383
2-Hexanone	U		0.000787	0.0100	1	04/20/2021 00:03	WG1654383
Methylene Chloride	U		0.000430	0.00500	1	04/20/2021 00:03	WG1654383
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/20/2021 00:03	WG1654383
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/20/2021 00:03	WG1654383
Naphthalene	U		0.00100	0.00500	1	04/20/2021 00:03	WG1654383
n-Propylbenzene	U		0.0000993	0.00100	1	04/20/2021 00:03	WG1654383
Styrene	U		0.000118	0.00100	1	04/20/2021 00:03	WG1654383
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/20/2021 00:03	WG1654383
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/20/2021 00:03	WG1654383
Tetrachloroethene	U		0.000300	0.00100	1	04/20/2021 00:03	WG1654383
Toluene	U		0.000278	0.00100	1	04/20/2021 00:03	WG1654383
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/20/2021 00:03	WG1654383
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/20/2021 00:03	WG1654383
Trichloroethene	U		0.000190	0.00100	1	04/20/2021 00:03	WG1654383
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/20/2021 00:03	WG1654383
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/20/2021 00:03	WG1654383
Vinyl chloride	U		0.000234	0.00100	1	04/20/2021 00:03	WG1654383
o-Xylene	U		0.000174	0.00100	1	04/20/2021 00:03	WG1654383
m&p-Xylene	U		0.000430	0.00200	1	04/20/2021 00:03	WG1654383
Xylenes, Total	U		0.000174	0.00300	1	04/20/2021 00:03	WG1654383
(S) Toluene-d8	*109*			*80.0-120*		*04/20/2021 00:03*	WG1654383
(S) 4-Bromofluorobenzene	*94.6*			*77.0-126*		*04/20/2021 00:03*	WG1654383
(S) 1,2-Dichloroethane-d4	*90.3*			*70.0-130*		*04/20/2021 00:03*	WG1654383

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	7.86		0.0247	0.100	1	04/24/2021 16:06	WG1656978
(S) o-Terphenyl	*106*			*31.0-160*		*04/24/2021 16:06*	WG1656978

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	ND		10.0	1	04/20/2021 17:09	WG1655172

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0500	0.100	1	05/03/2021 19:44	WG1661755

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	0.456	J	0.379	1.00	1	04/23/2021 10:44	WG1657191
Fluoride	U		0.0640	0.150	1	04/23/2021 10:44	WG1657191
Sulfate	U		0.594	5.00	1	04/23/2021 10:44	WG1657191

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	U		0.000900	0.0100	5	04/28/2021 21:26	WG1656912
Arsenic,Dissolved	U		0.000180	0.00200	1	04/27/2021 20:37	WG1656508
Barium	U		0.00190	0.100	5	04/28/2021 21:26	WG1656912
Barium,Dissolved	U		0.000381	0.0200	1	04/27/2021 20:37	WG1656508
Calcium	1.86	J	0.468	5.00	5	04/28/2021 21:26	WG1656912
Chromium	U		0.00620	0.0100	5	04/28/2021 21:26	WG1656912
Chromium,Dissolved	U		0.00124	0.00200	1	04/27/2021 20:37	WG1656508
Iron	U		0.140	0.500	5	04/28/2021 21:26	WG1656912
Iron,Dissolved	U		0.0281	0.100	1	04/27/2021 20:37	WG1656508
Lead	U		0.00424	0.0100	5	04/28/2021 21:26	WG1656912
Lead,Dissolved	U		0.000849	0.00200	1	04/27/2021 20:37	WG1656508
Manganese	0.00614	J	0.00352	0.0250	5	04/28/2021 21:26	WG1656912
Manganese,Dissolved	0.000744	J	0.000704	0.00500	1	04/27/2021 20:37	WG1656508
Potassium	U		0.540	10.0	5	04/28/2021 21:26	WG1656912
Selenium	0.00180	J	0.00150	0.0100	5	04/28/2021 21:26	WG1656912
Selenium,Dissolved	0.000414	J	0.000300	0.00200	1	04/27/2021 20:37	WG1656508
Sodium	5.36	J	1.88	10.0	5	04/28/2021 21:26	WG1656912

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/23/2021 22:40	WG1657430
(S) a,a,a-Trifluorotoluene(FID)	*102*			*78.0-120*		*04/23/2021 22:40*	WG1657430

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/20/2021 00:24	WG1654383
Benzene	U		0.0000941	0.00100	1	04/20/2021 00:24	WG1654383
Bromodichloromethane	U		0.000136	0.00100	1	04/20/2021 00:24	WG1654383
Bromoform	U		0.000129	0.00100	1	04/20/2021 00:24	WG1654383
Bromomethane	U		0.000605	0.00500	1	04/20/2021 00:24	WG1654383
n-Butylbenzene	U		0.000157	0.00100	1	04/20/2021 00:24	WG1654383
sec-Butylbenzene	U		0.000125	0.00100	1	04/20/2021 00:24	WG1654383
Carbon disulfide	U		0.0000962	0.00100	1	04/20/2021 00:24	WG1654383
Carbon tetrachloride	U		0.000128	0.00100	1	04/20/2021 00:24	WG1654383

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/20/2021 00:24	WG1654383
Chlorodibromomethane	U		0.000140	0.00100	1	04/20/2021 00:24	WG1654383
Chloroethane	U		0.000192	0.00500	1	04/20/2021 00:24	WG1654383
Chloroform	U		0.000111	0.00500	1	04/20/2021 00:24	WG1654383
Chloromethane	U		0.000960	0.00250	1	04/20/2021 00:24	WG1654383
1,2-Dibromoethane	U		0.000126	0.00100	1	04/20/2021 00:24	WG1654383
1,1-Dichloroethane	U		0.000100	0.00100	1	04/20/2021 00:24	WG1654383
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/20/2021 00:24	WG1654383
1,1-Dichloroethene	U		0.000188	0.00100	1	04/20/2021 00:24	WG1654383
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/20/2021 00:24	WG1654383
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/20/2021 00:24	WG1654383
1,2-Dichloropropane	U		0.000149	0.00100	1	04/20/2021 00:24	WG1654383
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/20/2021 00:24	WG1654383
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/20/2021 00:24	WG1654383
Ethylbenzene	U		0.000137	0.00100	1	04/20/2021 00:24	WG1654383
Isopropylbenzene	U		0.000105	0.00100	1	04/20/2021 00:24	WG1654383
p-Isopropyltoluene	U		0.000120	0.00100	1	04/20/2021 00:24	WG1654383
2-Butanone (MEK)	U		0.00119	0.0100	1	04/20/2021 00:24	WG1654383
2-Hexanone	U		0.000787	0.0100	1	04/20/2021 00:24	WG1654383
Methylene Chloride	U		0.000430	0.00500	1	04/20/2021 00:24	WG1654383
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/20/2021 00:24	WG1654383
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/20/2021 00:24	WG1654383
Naphthalene	U		0.00100	0.00500	1	04/20/2021 00:24	WG1654383
n-Propylbenzene	U		0.0000993	0.00100	1	04/20/2021 00:24	WG1654383
Styrene	U		0.000118	0.00100	1	04/20/2021 00:24	WG1654383
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/20/2021 00:24	WG1654383
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/20/2021 00:24	WG1654383
Tetrachloroethene	U		0.000300	0.00100	1	04/20/2021 00:24	WG1654383
Toluene	U		0.000278	0.00100	1	04/20/2021 00:24	WG1654383
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/20/2021 00:24	WG1654383
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/20/2021 00:24	WG1654383
Trichloroethene	U		0.000190	0.00100	1	04/20/2021 00:24	WG1654383
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/20/2021 00:24	WG1654383
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/20/2021 00:24	WG1654383
Vinyl chloride	U		0.000234	0.00100	1	04/20/2021 00:24	WG1654383
o-Xylene	U		0.000174	0.00100	1	04/20/2021 00:24	WG1654383
m&p-Xylene	U		0.000430	0.00200	1	04/20/2021 00:24	WG1654383
Xylenes, Total	U		0.000174	0.00300	1	04/20/2021 00:24	WG1654383
(S) Toluene-d8	*111*			*80.0-120*		*04/20/2021 00:24*	WG1654383
(S) 4-Bromofluorobenzene	*93.9*			*77.0-126*		*04/20/2021 00:24*	WG1654383
(S) 1,2-Dichloroethane-d4	*94.1*			*70.0-130*		*04/20/2021 00:24*	WG1654383

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0563	J	0.0247	0.100	1	04/26/2021 01:18	WG1656978
(S) o-Terphenyl	*86.3*			*31.0-160*		*04/26/2021 01:18*	WG1656978

TRIP BLANK-EF-03
Collected date/time: 04/14/21 00:00
L1340049

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0113	0.0500	1	04/19/2021 19:55	WG1654383
Benzene	U		0.0000941	0.00100	1	04/19/2021 19:55	WG1654383
Bromodichloromethane	U		0.000136	0.00100	1	04/19/2021 19:55	WG1654383
Bromoform	U		0.000129	0.00100	1	04/19/2021 19:55	WG1654383
Bromomethane	U		0.000605	0.00500	1	04/19/2021 19:55	WG1654383
n-Butylbenzene	U		0.000157	0.00100	1	04/19/2021 19:55	WG1654383
sec-Butylbenzene	U		0.000125	0.00100	1	04/19/2021 19:55	WG1654383
Carbon disulfide	U		0.0000962	0.00100	1	04/19/2021 19:55	WG1654383
Carbon tetrachloride	U		0.000128	0.00100	1	04/19/2021 19:55	WG1654383
Chlorobenzene	U		0.000116	0.00100	1	04/19/2021 19:55	WG1654383
Chlorodibromomethane	U		0.000140	0.00100	1	04/19/2021 19:55	WG1654383
Chloroethane	U		0.000192	0.00500	1	04/19/2021 19:55	WG1654383
Chloroform	U		0.000111	0.00500	1	04/19/2021 19:55	WG1654383
Chloromethane	U		0.000960	0.00250	1	04/19/2021 19:55	WG1654383
1,2-Dibromoethane	U		0.000126	0.00100	1	04/19/2021 19:55	WG1654383
1,1-Dichloroethane	U		0.000100	0.00100	1	04/19/2021 19:55	WG1654383
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/19/2021 19:55	WG1654383
1,1-Dichloroethene	U		0.000188	0.00100	1	04/19/2021 19:55	WG1654383
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/19/2021 19:55	WG1654383
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/19/2021 19:55	WG1654383
1,2-Dichloropropane	U		0.000149	0.00100	1	04/19/2021 19:55	WG1654383
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/19/2021 19:55	WG1654383
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/19/2021 19:55	WG1654383
Ethylbenzene	U		0.000137	0.00100	1	04/19/2021 19:55	WG1654383
Isopropylbenzene	U		0.000105	0.00100	1	04/19/2021 19:55	WG1654383
p-Isopropyltoluene	U		0.000120	0.00100	1	04/19/2021 19:55	WG1654383
2-Butanone (MEK)	U		0.00119	0.0100	1	04/19/2021 19:55	WG1654383
2-Hexanone	U		0.000787	0.0100	1	04/19/2021 19:55	WG1654383
Methylene Chloride	U		0.000430	0.00500	1	04/19/2021 19:55	WG1654383
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/19/2021 19:55	WG1654383
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/19/2021 19:55	WG1654383
Naphthalene	U		0.00100	0.00500	1	04/19/2021 19:55	WG1654383
n-Propylbenzene	U		0.0000993	0.00100	1	04/19/2021 19:55	WG1654383
Styrene	U		0.000118	0.00100	1	04/19/2021 19:55	WG1654383
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/19/2021 19:55	WG1654383
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/19/2021 19:55	WG1654383
Tetrachloroethene	U		0.000300	0.00100	1	04/19/2021 19:55	WG1654383
Toluene	U		0.000278	0.00100	1	04/19/2021 19:55	WG1654383
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/19/2021 19:55	WG1654383
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/19/2021 19:55	WG1654383
Trichloroethene	U		0.000190	0.00100	1	04/19/2021 19:55	WG1654383
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/19/2021 19:55	WG1654383
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/19/2021 19:55	WG1654383
Vinyl chloride	U		0.000234	0.00100	1	04/19/2021 19:55	WG1654383
o-Xylene	U		0.000174	0.00100	1	04/19/2021 19:55	WG1654383
m&p-Xylene	U		0.000430	0.00200	1	04/19/2021 19:55	WG1654383
Xylenes, Total	U		0.000174	0.00300	1	04/19/2021 19:55	WG1654383
(S) Toluene-d8	*114*			*80.0-120*		*04/19/2021 19:55*	WG1654383
(S) 4-Bromofluorobenzene	*95.2*			*77.0-126*		*04/19/2021 19:55*	WG1654383
(S) 1,2-Dichloroethane-d4	*95.4*			*70.0-130*		*04/19/2021 19:55*	WG1654383

Method Blank (MB)

(MB) R3644338-1 04/20/21 14:56

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1339160-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1339160-01 04/20/21 14:56 • (DUP) R3644338-3 04/20/21 14:56

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	602	600	1	0.333		5

L1339167-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1339167-01 04/20/21 14:56 • (DUP) R3644338-4 04/20/21 14:56

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	671	676	1	0.792		5

Laboratory Control Sample (LCS)

(LCS) R3644338-2 04/20/21 14:56

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8740	99.3	77.4-123	

Method Blank (MB)

(MB) R3644792-1 04/20/21 17:09

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1340049-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1340049-02 04/20/21 17:09 • (DUP) R3644792-3 04/20/21 17:09

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	4360	4730	1	8.14	J3	5

L1340049-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1340049-10 04/20/21 17:09 • (DUP) R3644792-4 04/20/21 17:09

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	3480	3390	1	2.62		5

Laboratory Control Sample (LCS)

(LCS) R3644792-2 04/20/21 17:09

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8770	99.7	77.4-123	

Method Blank (MB)

(MB) R3644711-1 04/20/21 17:58

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1340036-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1340036-01 04/20/21 17:58 • (DUP) R3644711-3 04/20/21 17:58

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	1900	1970	1	3.88		5

L1340040-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1340040-02 04/20/21 17:58 • (DUP) R3644711-4 04/20/21 17:58

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	2860	2900	1	1.56		5

Laboratory Control Sample (LCS)

(LCS) R3644711-2 04/20/21 17:58

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8720	99.1	77.4-123	

Method Blank (MB)

(MB) R3645405-1 04/21/21 04:12

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1340127-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1340127-03 04/21/21 04:12 • (DUP) R3645405-3 04/21/21 04:12

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	2530	2580	1	1.64		5

L1340127-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1340127-13 04/21/21 04:12 • (DUP) R3645405-4 04/21/21 04:12

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	2960	2960	1	0.0675		5

Laboratory Control Sample (LCS)

(LCS) R3645405-2 04/21/21 04:12

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8870	101	77.4-123	

Method Blank (MB)

(MB) R3649844-1 05/03/21 21:48

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Nitrate-Nitrite	U		0.0500	0.100

L1340049-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1340049-01 05/03/21 21:51 • (DUP) R3649844-3 05/03/21 21:52

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate-Nitrite	U	U	1	0.000		20

L1340049-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1340049-13 05/03/21 22:14 • (DUP) R3649844-6 05/03/21 22:15

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate-Nitrite	0.214	0.209	1	2.36		20

Laboratory Control Sample (LCS)

(LCS) R3649844-2 05/03/21 21:49

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Nitrate-Nitrite	2.50	2.73	109	90.0-110	

L1340049-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1340049-02 05/03/21 21:53 • (MS) R3649844-4 05/03/21 21:54 • (MSD) R3649844-5 05/03/21 21:56

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Nitrate-Nitrite	2.50	0.0576	2.46	2.49	96.1	97.3	1	90.0-110			1.21	20

L1340049-14 Original Sample (OS) • Matrix Spike (MS)

(OS) L1340049-14 05/03/21 22:20 • (MS) R3649844-7 05/03/21 22:21

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Nitrate-Nitrite	2.50	U	2.46	98.4	1	90.0-110	

Method Blank (MB)

(MB) R3649812-1 05/03/21 19:25

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Nitrate-Nitrite	U		0.0500	0.100

L1340049-21 Original Sample (OS) • Duplicate (DUP)

(OS) L1340049-21 05/03/21 19:28 • (DUP) R3649812-3 05/03/21 19:29

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate-Nitrite	0.149	0.149	1	0.000		20

L1340127-28 Original Sample (OS) • Duplicate (DUP)

(OS) L1340127-28 05/03/21 19:51 • (DUP) R3649812-6 05/03/21 19:52

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate-Nitrite	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3649812-2 05/03/21 19:27

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Nitrate-Nitrite	2.50	2.71	108	90.0-110	

L1340049-22 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1340049-22 05/03/21 19:30 • (MS) R3649812-4 05/03/21 19:32 • (MSD) R3649812-5 05/03/21 19:33

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Nitrate-Nitrite	2.50	0.0991	2.78	2.67	107	103	1	90.0-110			4.04	20

L1340127-32 Original Sample (OS) • Matrix Spike (MS)

(OS) L1340127-32 05/03/21 19:57 • (MS) R3649812-7 05/03/21 19:59

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Nitrate-Nitrite	2.50	U	2.45	98.0	1	90.0-110	

Method Blank (MB)

(MB) R3646732-1 04/22/21 21:31

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.379	1.00
Fluoride	U		0.0640	0.150
Sulfate	U		0.594	5.00

L1340049-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1340049-01 04/22/21 23:20 • (DUP) R3646732-3 04/22/21 23:36

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Fluoride	3.64	3.63	1	0.336		15

L1340049-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1340049-01 04/23/21 00:25 • (DUP) R3646732-6 04/23/21 00:42

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	1410	1400	100	0.239		15
Sulfate	2850	2850	100	0.106		15

L1340049-20 Original Sample (OS) • Duplicate (DUP)

(OS) L1340049-20 04/23/21 15:00 • (DUP) R3646732-7 04/23/21 15:17

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Fluoride	0.706	0.688	1	2.64		15

L1340049-20 Original Sample (OS) • Duplicate (DUP)

(OS) L1340049-20 04/23/21 15:50 • (DUP) R3646732-9 04/23/21 16:06

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	1150	1150	100	0.113		15
Sulfate	1690	1690	100	0.00779		15

Laboratory Control Sample (LCS)

(LCS) R3646732-2 04/22/21 21:47

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	38.6	96.6	80.0-120	
Fluoride	8.00	7.96	99.6	80.0-120	
Sulfate	40.0	38.7	96.6	80.0-120	

L1340049-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1340049-01 04/22/21 23:20 • (MS) R3646732-4 04/22/21 23:52 • (MSD) R3646732-5 04/23/21 00:09

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Fluoride	5.00	3.64	8.08	8.09	88.9	89.0	1	80.0-120			0.0828	15

L1340049-20 Original Sample (OS) • Matrix Spike (MS)

(OS) L1340049-20 04/23/21 15:00 • (MS) R3646732-8 04/23/21 15:33

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	1250	1220	0.000	1	80.0-120	E V
Fluoride	5.00	0.706	5.12	88.2	1	80.0-120	
Sulfate	50.0	1990	1910	0.000	1	80.0-120	E V

Method Blank (MB)

(MB) R3646146-1 04/23/21 00:32

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.379	1.00
Fluoride	U		0.0640	0.150
Sulfate	U		0.594	5.00

L1340036-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1340036-01 04/23/21 04:59 • (DUP) R3646146-3 04/23/21 05:16

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Fluoride	1.24	1.25	1	1.29		15

L1340036-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1340036-01 04/23/21 05:49 • (DUP) R3646146-5 04/23/21 06:05

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	395	398	10	0.711		15
Sulfate	383	383	10	0.126		15

L1340049-28 Original Sample (OS) • Duplicate (DUP)

(OS) L1340049-28 04/23/21 10:44 • (DUP) R3646146-6 04/23/21 11:33

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	0.456	0.454	1	0.439	J	15
Fluoride	U	U	1	0.000		15
Sulfate	U	U	1	0.000		15

Laboratory Control Sample (LCS)

(LCS) R3646146-2 04/23/21 00:48

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	38.4	96.1	80.0-120	
Fluoride	8.00	7.91	98.9	80.0-120	
Sulfate	40.0	38.6	96.6	80.0-120	

L1340036-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1340036-01 04/23/21 04:59 • (MS) R3646146-4 04/23/21 05:32

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	404	432	56.9	1	80.0-120	E V
Fluoride	5.00	1.24	5.92	93.6	1	80.0-120	
Sulfate	50.0	392	422	60.2	1	80.0-120	E V

L1340049-28 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1340049-28 04/23/21 10:44 • (MS) R3646146-7 04/23/21 11:50 • (MSD) R3646146-8 04/23/21 12:06

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50.0	0.456	49.4	49.4	97.8	97.9	1	80.0-120			0.131	15
Fluoride	5.00	U	4.97	4.98	99.4	99.5	1	80.0-120			0.109	15
Sulfate	50.0	U	49.0	49.1	98.0	98.1	1	80.0-120			0.0779	15

Method Blank (MB)

(MB) R3647042-1 04/27/21 10:16

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic,Dissolved	U		0.000180	0.00200
Barium,Dissolved	U		0.000381	0.0200
Chromium,Dissolved	U		0.00124	0.00200
Iron,Dissolved	U		0.0281	0.100
Lead,Dissolved	U		0.000849	0.00200
Manganese,Dissolved	U		0.000704	0.00500
Selenium,Dissolved	U		0.000300	0.00200

Laboratory Control Sample (LCS)

(LCS) R3647042-2 04/27/21 10:19

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic,Dissolved	0.0500	0.0481	96.2	80.0-120	
Barium,Dissolved	0.0500	0.0493	98.7	80.0-120	
Chromium,Dissolved	0.0500	0.0498	99.7	80.0-120	
Iron,Dissolved	5.00	5.01	100	80.0-120	
Lead,Dissolved	0.0500	0.0497	99.4	80.0-120	
Manganese,Dissolved	0.0500	0.0498	99.7	80.0-120	
Selenium,Dissolved	0.0500	0.0492	98.4	80.0-120	

L1339810-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339810-09 04/27/21 10:23 • (MS) R3647042-4 04/27/21 10:29 • (MSD) R3647042-5 04/27/21 10:32

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic,Dissolved	0.0500	0.000291	0.0472	0.0483	93.8	96.0	1	75.0-125			2.28	20
Barium,Dissolved	0.0500	0.0552	0.103	0.105	96.4	98.9	1	75.0-125			1.24	20
Chromium,Dissolved	0.0500	0.00128	0.0489	0.0489	95.2	95.3	1	75.0-125			0.132	20
Iron,Dissolved	5.00	U	4.76	4.89	95.3	97.8	1	75.0-125			2.67	20
Lead,Dissolved	0.0500	U	0.0487	0.0506	97.4	101	1	75.0-125			3.86	20
Selenium,Dissolved	0.0500	0.000943	0.0499	0.0521	97.9	102	1	75.0-125			4.32	20

Method Blank (MB)

(MB) R3647314-6 04/27/21 18:39

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic,Dissolved	U		0.000180	0.00200
Barium,Dissolved	U		0.000381	0.0200
Chromium,Dissolved	U		0.00124	0.00200
Iron,Dissolved	U		0.0281	0.100
Lead,Dissolved	U		0.000849	0.00200
Manganese,Dissolved	U		0.000704	0.00500
Selenium,Dissolved	U		0.000300	0.00200

Laboratory Control Sample (LCS)

(LCS) R3647314-7 04/27/21 18:42

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic,Dissolved	0.0500	0.0448	89.6	80.0-120	
Barium,Dissolved	0.0500	0.0436	87.2	80.0-120	
Chromium,Dissolved	0.0500	0.0457	91.4	80.0-120	
Iron,Dissolved	5.00	4.50	90.0	80.0-120	
Lead,Dissolved	0.0500	0.0448	89.5	80.0-120	
Manganese,Dissolved	0.0500	0.0457	91.4	80.0-120	
Selenium,Dissolved	0.0500	0.0481	96.1	80.0-120	

L1340049-14 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1340049-14 04/27/21 18:45 • (MS) R3647314-9 04/27/21 18:52 • (MSD) R3647314-10 04/27/21 18:55

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic,Dissolved	0.0500	0.0232	0.0758	0.0782	105	110	1	75.0-125			3.07	20
Barium,Dissolved	0.0500	0.0121	0.0620	0.0638	100	103	1	75.0-125			2.72	20
Chromium,Dissolved	0.0500	U	0.0494	0.0514	98.8	103	1	75.0-125			3.93	20
Iron,Dissolved	5.00	U	4.87	4.98	97.4	99.5	1	75.0-125			2.13	20
Lead,Dissolved	0.0500	U	0.0502	0.0529	100	106	1	75.0-125			5.20	20
Manganese,Dissolved	0.0500	3.54	3.76	3.80	452	521	1	75.0-125	V	V	0.907	20
Selenium,Dissolved	0.0500	0.00199	0.0565	0.0568	109	110	1	75.0-125			0.552	20

Method Blank (MB)

(MB) R3646996-1 04/27/21 00:29

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic	U		0.000180	0.00200
Barium	U		0.000381	0.0200
Calcium	U		0.0936	1.00
Chromium	U		0.00124	0.00200
Iron	U		0.0281	0.100
Lead	U		0.000849	0.00200
Manganese	U		0.000704	0.00500
Potassium	U		0.108	2.00
Selenium	U		0.000300	0.00200
Sodium	U		0.376	2.00

Laboratory Control Sample (LCS)

(LCS) R3646996-2 04/27/21 00:32

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	0.0500	0.0454	90.9	80.0-120	
Barium	0.0500	0.0460	91.9	80.0-120	
Calcium	5.00	4.72	94.5	80.0-120	
Chromium	0.0500	0.0470	94.1	80.0-120	
Iron	5.00	4.66	93.2	80.0-120	
Lead	0.0500	0.0470	93.9	80.0-120	
Manganese	0.0500	0.0474	94.7	80.0-120	
Potassium	5.00	4.70	94.0	80.0-120	
Selenium	0.0500	0.0469	93.7	80.0-120	
Sodium	5.00	4.71	94.2	80.0-120	

L1339662-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339662-01 04/27/21 00:35 • (MS) R3646996-4 04/27/21 00:42 • (MSD) R3646996-5 04/27/21 00:45

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	0.0500	0.000487	0.0485	0.0460	96.1	91.1	1	75.0-125			5.26	20
Barium	0.0500	0.0432	0.0912	0.0905	95.9	94.6	1	75.0-125			0.708	20
Calcium	5.00	212	215	214	65.8	46.4	1	75.0-125	V	V	0.450	20
Chromium	0.0500	U	0.0485	0.0464	97.1	92.9	1	75.0-125			4.41	20
Potassium	5.00	9.84	14.4	14.3	91.2	89.5	1	75.0-125			0.596	20
Iron	5.00	10.3	15.1	14.4	94.9	81.2	1	75.0-125			4.62	20
Lead	0.0500	U	0.0479	0.0481	95.9	96.3	1	75.0-125			0.373	20

L1339662-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339662-01 04/27/21 00:35 • (MS) R3646996-4 04/27/21 00:42 • (MSD) R3646996-5 04/27/21 00:45

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Manganese	0.0500	0.764	0.810	0.784	91.6	40.7	1	75.0-125		V	3.20	20
Selenium	0.0500	U	0.0494	0.0481	98.8	96.3	1	75.0-125			2.58	20
Sodium	5.00	133	136	135	59.8	33.8	1	75.0-125	V	V	0.957	20

Method Blank (MB)

(MB) R3647063-1 04/27/21 11:28

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic	U		0.000180	0.00200
Barium	U		0.000381	0.0200
Calcium	U		0.0936	1.00
Chromium	U		0.00124	0.00200
Iron	U		0.0281	0.100
Lead	U		0.000849	0.00200
Manganese	U		0.000704	0.00500
Potassium	U		0.108	2.00
Selenium	U		0.000300	0.00200
Sodium	U		0.376	2.00

Laboratory Control Sample (LCS)

(LCS) R3647063-2 04/27/21 11:31

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	0.0500	0.0502	100	80.0-120	
Barium	0.0500	0.0491	98.1	80.0-120	
Calcium	5.00	4.88	97.7	80.0-120	
Chromium	0.0500	0.0507	101	80.0-120	
Iron	5.00	5.25	105	80.0-120	
Lead	0.0500	0.0466	93.2	80.0-120	
Manganese	0.0500	0.0507	101	80.0-120	
Potassium	5.00	4.70	94.0	80.0-120	
Selenium	0.0500	0.0475	95.1	80.0-120	
Sodium	5.00	4.64	92.9	80.0-120	

L1340049-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1340049-04 04/27/21 11:35 • (MS) R3647063-4 04/27/21 11:42 • (MSD) R3647063-5 04/27/21 11:45

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	0.0500	0.00614	0.0565	0.0545	101	96.7	1	75.0-125			3.64	20
Barium	0.0500	0.0144	0.0641	0.0648	99.4	101	1	75.0-125			1.07	20
Calcium	5.00	456	459	453	53.9	0.000	1	75.0-125	V	V	1.23	20
Chromium	0.0500	U	0.0494	0.0480	98.9	96.0	1	75.0-125			2.94	20
Potassium	5.00	6.52	11.2	10.9	93.5	88.5	1	75.0-125			2.29	20
Iron	5.00	U	4.96	4.98	99.3	99.5	1	75.0-125			0.266	20
Lead	0.0500	U	0.0472	0.0461	94.3	92.3	1	75.0-125			2.21	20

L1340049-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1340049-04 04/27/21 11:35 • (MS) R3647063-4 04/27/21 11:42 • (MSD) R3647063-5 04/27/21 11:45

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Manganese	0.0500	0.0251	0.0744	0.0716	98.7	93.0	1	75.0-125			3.94	20
Selenium	0.0500	0.00699	0.0568	0.0552	99.6	96.4	1	75.0-125			2.86	20
Sodium	5.00	962	956	936	0.000	0.000	1	75.0-125	V	V	2.11	20

Method Blank (MB)

(MB) R3647934-1 04/28/21 19:16

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic	U		0.000180	0.00200
Barium	U		0.000381	0.0200
Calcium	U		0.0936	1.00
Chromium	U		0.00124	0.00200
Iron	U		0.0281	0.100
Lead	U		0.000849	0.00200
Manganese	U		0.000704	0.00500
Potassium	U		0.108	2.00
Selenium	U		0.000300	0.00200
Sodium	U		0.376	2.00

Laboratory Control Sample (LCS)

(LCS) R3647934-5 04/28/21 20:11

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	0.0500	0.0492	98.4	80.0-120	
Barium	0.0500	0.0484	96.7	80.0-120	
Calcium	5.00	5.14	103	80.0-120	
Chromium	0.0500	0.0506	101	80.0-120	
Iron	5.00	4.95	98.9	80.0-120	
Lead	0.0500	0.0475	94.9	80.0-120	
Manganese	0.0500	0.0490	98.0	80.0-120	
Potassium	5.00	5.12	102	80.0-120	
Selenium	0.0500	0.0525	105	80.0-120	
Sodium	5.00	5.02	100	80.0-120	

L1340065-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1340065-06 04/28/21 19:23 • (MS) R3647934-3 04/28/21 19:30 • (MSD) R3647934-4 04/28/21 19:33

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	0.0500	0.00113	0.0506	0.0488	99.0	95.4	1	75.0-125			3.63	20
Barium	0.0500	0.0297	0.0832	0.0797	107	99.9	1	75.0-125			4.36	20
Calcium	5.00	40.6	45.5	44.9	97.6	85.7	1	75.0-125			1.31	20
Chromium	0.0500	0.00270	0.0534	0.0521	101	98.8	1	75.0-125			2.48	20
Potassium	5.00	0.318	5.28	5.21	99.3	97.9	1	75.0-125			1.32	20
Iron	5.00	4.25	9.48	9.21	105	99.2	1	75.0-125			2.85	20
Lead	0.0500	U	0.0506	0.0506	101	101	1	75.0-125			0.0294	20

L1340065-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1340065-06 04/28/21 19:23 • (MS) R3647934-3 04/28/21 19:30 • (MSD) R3647934-4 04/28/21 19:33

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Manganese	0.0500	3.15	3.29	3.23	284	168	1	75.0-125	V	V	1.78	20
Selenium	0.0500	U	0.0525	0.0519	105	104	1	75.0-125			1.21	20
Sodium	5.00	113	120	119	133	114	1	75.0-125	V		0.806	20

Method Blank (MB)

(MB) R3646154-2 04/23/21 10:00

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*99.9*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R3646154-1 04/23/21 09:08

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.33	96.9	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*110*	*78.0-120*	

Method Blank (MB)

(MB) R3646155-2 04/23/21 19:46

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*100*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R3646155-1 04/23/21 19:03

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	4.93	89.6	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*110*	*78.0-120*	

Method Blank (MB)

(MB) R3646736-2 04/26/21 00:14

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*101*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R3646736-1 04/25/21 23:07

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.61	102	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*107*	*78.0-120*	

Method Blank (MB)

(MB) R3643469-3 04/18/21 22:50

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0113	0.0500
Benzene	U		0.0000941	0.00100
Bromodichloromethane	U		0.000136	0.00100
Bromoform	U		0.000129	0.00100
Bromomethane	U		0.000605	0.00500
n-Butylbenzene	U		0.000157	0.00100
sec-Butylbenzene	U		0.000125	0.00100
Carbon disulfide	U		0.0000962	0.00100
Carbon tetrachloride	U		0.000128	0.00100
Chlorobenzene	U		0.000116	0.00100
Chlorodibromomethane	U		0.000140	0.00100
Chloroethane	U		0.000192	0.00500
Chloroform	U		0.000111	0.00500
Chloromethane	U		0.000960	0.00250
1,2-Dibromoethane	U		0.000126	0.00100
1,1-Dichloroethane	U		0.000100	0.00100
1,2-Dichloroethane	U		0.0000819	0.00100
1,1-Dichloroethene	U		0.000188	0.00100
cis-1,2-Dichloroethene	U		0.000126	0.00100
trans-1,2-Dichloroethene	U		0.000149	0.00100
1,2-Dichloropropane	U		0.000149	0.00100
cis-1,3-Dichloropropene	U		0.000111	0.00100
trans-1,3-Dichloropropene	U		0.000118	0.00100
Ethylbenzene	U		0.000137	0.00100
2-Hexanone	U		0.000787	0.0100
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
Methylene Chloride	U		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100
Methyl tert-butyl ether	U		0.000101	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.0000993	0.00100
Styrene	U		0.000118	0.00100
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100
Tetrachloroethene	U		0.000300	0.00100
Toluene	U		0.000278	0.00100
1,1,1-Trichloroethane	U		0.000149	0.00100
1,1,2-Trichloroethane	U		0.000158	0.00100

Method Blank (MB)

(MB) R3643469-3 04/18/21 22:50

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Trichloroethene	U		0.000190	0.00100
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
Vinyl chloride	U		0.000234	0.00100
Xylenes, Total	U		0.000174	0.00300
o-Xylene	U		0.000174	0.00100
m&p-Xylenes	U		0.000430	0.00200
(S) Toluene-d8	*108*			*80.0-120*
(S) 4-Bromofluorobenzene	*107*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*95.9*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3643469-1 04/18/21 21:49 • (LCSD) R3643469-2 04/18/21 22:09

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.0250	0.0258	0.0253	103	101	19.0-160			1.96	27
Benzene	0.00500	0.00476	0.00482	95.2	96.4	70.0-123			1.25	20
Bromodichloromethane	0.00500	0.00524	0.00506	105	101	75.0-120			3.50	20
Bromoform	0.00500	0.00600	0.00623	120	125	68.0-132			3.76	20
Bromomethane	0.00500	0.00341	0.00347	68.2	69.4	10.0-160			1.74	25
n-Butylbenzene	0.00500	0.00389	0.00391	77.8	78.2	73.0-125			0.513	20
sec-Butylbenzene	0.00500	0.00419	0.00425	83.8	85.0	75.0-125			1.42	20
Carbon disulfide	0.00500	0.00437	0.00454	87.4	90.8	61.0-128			3.82	20
Carbon tetrachloride	0.00500	0.00521	0.00527	104	105	68.0-126			1.15	20
Chlorobenzene	0.00500	0.00491	0.00491	98.2	98.2	80.0-121			0.000	20
Chlorodibromomethane	0.00500	0.00562	0.00549	112	110	77.0-125			2.34	20
Chloroethane	0.00500	0.00351	0.00351	70.2	70.2	47.0-150			0.000	20
Chloroform	0.00500	0.00480	0.00483	96.0	96.6	73.0-120			0.623	20
Chloromethane	0.00500	0.00479	0.00474	95.8	94.8	41.0-142			1.05	20
1,2-Dibromoethane	0.00500	0.00522	0.00544	104	109	80.0-122			4.13	20
1,1-Dichloroethane	0.00500	0.00473	0.00474	94.6	94.8	70.0-126			0.211	20
1,2-Dichloroethane	0.00500	0.00495	0.00493	99.0	98.6	70.0-128			0.405	20
1,1-Dichloroethene	0.00500	0.00408	0.00414	81.6	82.8	71.0-124			1.46	20
cis-1,2-Dichloroethene	0.00500	0.00496	0.00500	99.2	100	73.0-120			0.803	20
trans-1,2-Dichloroethene	0.00500	0.00448	0.00447	89.6	89.4	73.0-120			0.223	20
1,2-Dichloropropane	0.00500	0.00455	0.00459	91.0	91.8	77.0-125			0.875	20
cis-1,3-Dichloropropene	0.00500	0.00464	0.00482	92.8	96.4	80.0-123			3.81	20
trans-1,3-Dichloropropene	0.00500	0.00486	0.00481	97.2	96.2	78.0-124			1.03	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3643469-1 04/18/21 21:49 • (LCSD) R3643469-2 04/18/21 22:09

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethylbenzene	0.00500	0.00487	0.00473	97.4	94.6	79.0-123			2.92	20
2-Hexanone	0.0250	0.0242	0.0234	96.8	93.6	67.0-149			3.36	20
Isopropylbenzene	0.00500	0.00485	0.00500	97.0	100	76.0-127			3.05	20
p-Isopropyltoluene	0.00500	0.00422	0.00424	84.4	84.8	76.0-125			0.473	20
2-Butanone (MEK)	0.0250	0.0262	0.0256	105	102	44.0-160			2.32	20
Methylene Chloride	0.00500	0.00433	0.00487	86.6	97.4	67.0-120			11.7	20
4-Methyl-2-pentanone (MIBK)	0.0250	0.0226	0.0226	90.4	90.4	68.0-142			0.000	20
Methyl tert-butyl ether	0.00500	0.00451	0.00471	90.2	94.2	68.0-125			4.34	20
Naphthalene	0.00500	0.00403	0.00398	80.6	79.6	54.0-135			1.25	20
n-Propylbenzene	0.00500	0.00388	0.00396	77.6	79.2	77.0-124			2.04	20
Styrene	0.00500	0.00481	0.00480	96.2	96.0	73.0-130			0.208	20
1,1,1,2-Tetrachloroethane	0.00500	0.00553	0.00568	111	114	75.0-125			2.68	20
1,1,2,2-Tetrachloroethane	0.00500	0.00429	0.00433	85.8	86.6	65.0-130			0.928	20
Tetrachloroethene	0.00500	0.00492	0.00497	98.4	99.4	72.0-132			1.01	20
Toluene	0.00500	0.00485	0.00481	97.0	96.2	79.0-120			0.828	20
1,1,1-Trichloroethane	0.00500	0.00486	0.00486	97.2	97.2	73.0-124			0.000	20
1,1,2-Trichloroethane	0.00500	0.00542	0.00523	108	105	80.0-120			3.57	20
Trichloroethene	0.00500	0.00514	0.00521	103	104	78.0-124			1.35	20
1,2,4-Trimethylbenzene	0.00500	0.00416	0.00420	83.2	84.0	76.0-121			0.957	20
1,3,5-Trimethylbenzene	0.00500	0.00410	0.00413	82.0	82.6	76.0-122			0.729	20
Vinyl chloride	0.00500	0.00405	0.00415	81.0	83.0	67.0-131			2.44	20
Xylenes, Total	0.0150	0.0146	0.0146	97.3	97.3	79.0-123			0.000	20
o-Xylene	0.00500	0.00506	0.00503	101	101	80.0-122			0.595	20
m&p-Xylenes	0.0100	0.00949	0.00952	94.9	95.2	80.0-122			0.316	20
(S) Toluene-d8				*107*	*108*	*80.0-120*				
(S) 4-Bromofluorobenzene				*109*	*108*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*98.9*	*100*	*70.0-130*				

Method Blank (MB)

(MB) R3644834-2 04/19/21 19:14

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0113	0.0500
Benzene	U		0.0000941	0.00100
Bromodichloromethane	U		0.000136	0.00100
Bromoform	U		0.000129	0.00100
Bromomethane	U		0.000605	0.00500
n-Butylbenzene	U		0.000157	0.00100
sec-Butylbenzene	U		0.000125	0.00100
Carbon disulfide	U		0.0000962	0.00100
Carbon tetrachloride	U		0.000128	0.00100
Chlorobenzene	U		0.000116	0.00100
Chlorodibromomethane	U		0.000140	0.00100
Chloroethane	U		0.000192	0.00500
Chloroform	U		0.000111	0.00500
Chloromethane	U		0.000960	0.00250
1,2-Dibromoethane	U		0.000126	0.00100
1,1-Dichloroethane	U		0.000100	0.00100
1,2-Dichloroethane	U		0.0000819	0.00100
1,1-Dichloroethene	U		0.000188	0.00100
cis-1,2-Dichloroethene	U		0.000126	0.00100
trans-1,2-Dichloroethene	U		0.000149	0.00100
1,2-Dichloropropane	U		0.000149	0.00100
cis-1,3-Dichloropropene	U		0.000111	0.00100
trans-1,3-Dichloropropene	U		0.000118	0.00100
Ethylbenzene	U		0.000137	0.00100
2-Hexanone	U		0.000787	0.0100
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
Methylene Chloride	U		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100
Methyl tert-butyl ether	U		0.000101	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.0000993	0.00100
Styrene	U		0.000118	0.00100
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100
Tetrachloroethene	U		0.000300	0.00100
Toluene	U		0.000278	0.00100
1,1,1-Trichloroethane	U		0.000149	0.00100
1,1,2-Trichloroethane	U		0.000158	0.00100

Method Blank (MB)

(MB) R3644834-2 04/19/21 19:14

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Trichloroethene	U		0.000190	0.00100
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
Vinyl chloride	U		0.000234	0.00100
Xylenes, Total	U		0.000174	0.00300
o-Xylene	U		0.000174	0.00100
m&p-Xylenes	U		0.000430	0.00200
(S) Toluene-d8	*116*			*80.0-120*
(S) 4-Bromofluorobenzene	*93.1*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*93.0*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3644834-1 04/19/21 18:32

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.0250	0.0218	87.2	19.0-160	
Benzene	0.00500	0.00513	103	70.0-123	
Bromodichloromethane	0.00500	0.00483	96.6	75.0-120	
Bromoform	0.00500	0.00499	99.8	68.0-132	
Bromomethane	0.00500	0.00555	111	10.0-160	
n-Butylbenzene	0.00500	0.00471	94.2	73.0-125	
sec-Butylbenzene	0.00500	0.00522	104	75.0-125	
Carbon disulfide	0.00500	0.00537	107	61.0-128	
Carbon tetrachloride	0.00500	0.00546	109	68.0-126	
Chlorobenzene	0.00500	0.00547	109	80.0-121	
Chlorodibromomethane	0.00500	0.00482	96.4	77.0-125	
Chloroethane	0.00500	0.00522	104	47.0-150	
Chloroform	0.00500	0.00540	108	73.0-120	
Chloromethane	0.00500	0.00521	104	41.0-142	
1,2-Dibromoethane	0.00500	0.00519	104	80.0-122	
1,1-Dichloroethane	0.00500	0.00533	107	70.0-126	
1,2-Dichloroethane	0.00500	0.00499	99.8	70.0-128	
1,1-Dichloroethene	0.00500	0.00489	97.8	71.0-124	
cis-1,2-Dichloroethene	0.00500	0.00481	96.2	73.0-120	
trans-1,2-Dichloroethene	0.00500	0.00511	102	73.0-120	
1,2-Dichloropropane	0.00500	0.00516	103	77.0-125	
cis-1,3-Dichloropropene	0.00500	0.00484	96.8	80.0-123	
trans-1,3-Dichloropropene	0.00500	0.00474	94.8	78.0-124	

Laboratory Control Sample (LCS)

(LCS) R3644834-1 04/19/21 18:32

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ethylbenzene	0.00500	0.00541	108	79.0-123	
2-Hexanone	0.0250	0.0249	99.6	67.0-149	
Isopropylbenzene	0.00500	0.00518	104	76.0-127	
p-Isopropyltoluene	0.00500	0.00533	107	76.0-125	
2-Butanone (MEK)	0.0250	0.0238	95.2	44.0-160	
Methylene Chloride	0.00500	0.00454	90.8	67.0-120	
4-Methyl-2-pentanone (MIBK)	0.0250	0.0254	102	68.0-142	
Methyl tert-butyl ether	0.00500	0.00488	97.6	68.0-125	
Naphthalene	0.00500	0.00612	122	54.0-135	
n-Propylbenzene	0.00500	0.00538	108	77.0-124	
Styrene	0.00500	0.00535	107	73.0-130	
1,1,1,2-Tetrachloroethane	0.00500	0.00492	98.4	75.0-125	
1,1,2,2-Tetrachloroethane	0.00500	0.00547	109	65.0-130	
Tetrachloroethene	0.00500	0.00609	122	72.0-132	
Toluene	0.00500	0.00542	108	79.0-120	
1,1,1-Trichloroethane	0.00500	0.00501	100	73.0-124	
1,1,2-Trichloroethane	0.00500	0.00518	104	80.0-120	
Trichloroethene	0.00500	0.00570	114	78.0-124	
1,2,4-Trimethylbenzene	0.00500	0.00525	105	76.0-121	
1,3,5-Trimethylbenzene	0.00500	0.00531	106	76.0-122	
Vinyl chloride	0.00500	0.00571	114	67.0-131	
Xylenes, Total	0.0150	0.0163	109	79.0-123	
o-Xylene	0.00500	0.00519	104	80.0-122	
m&p-Xylenes	0.0100	0.0111	111	80.0-122	
(S) Toluene-d8			*108*	*80.0-120*	
(S) 4-Bromofluorobenzene			*98.1*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*97.6*	*70.0-130*	

Method Blank (MB)

(MB) R3645951-1 04/23/21 07:11

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) High Fraction	0.0966	J	0.0247	0.100
(S) o-Terphenyl	*90.0*			*31.0-160*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3645951-2 04/23/21 07:31 • (LCSD) R3645951-3 04/23/21 07:51

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) High Fraction	1.50	1.61	1.67	107	111	50.0-150			3.66	20
(S) o-Terphenyl				*112*	*117*	*31.0-160*				

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Method Blank (MB)

(MB) R3646260-1 04/24/21 10:23

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) High Fraction	U		0.0247	0.100
(S) o-Terphenyl	*82.0*			*31.0-160*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3646260-2 04/24/21 10:44 • (LCSD) R3646260-3 04/24/21 11:04

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) High Fraction	1.50	1.48	1.53	98.7	102	50.0-150			3.32	20
(S) o-Terphenyl				*107*	*102*	*31.0-160*				

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

B	The same analyte is found in the associated blank.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.
V	The sample concentration is too high to evaluate accurate spike recoveries.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Shipment

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Pres Chk

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com; dbelbert@trccompanies.com**

Project Description: **EP Spring 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **330538.0000.0000**

Lab Project # **TRCATX-EP**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **EP (Navajo - Artesia)**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page 1 of 7

Pace Analytical® National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 1340819

J075

Acctnum: TRCATX
Template: T120302
Prelogin: P835500
TSR: 526
PB:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions,NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Remarks	Sample # (lab only)
~~MW-6A~~	Grab	GW		~~4/13/21~~	~~910~~	10	X	X	X	X	X	X						
~~MW-6B~~	Grab	GW		~~4/13/21~~	~~955~~	10	X	X	X	X	X	X						
MW-85 LNAPL	Grab	GW				10	X	X	X	X	X	X						
MW-86 LNAPL	Grab	GW				11	X	X	X		X	X	X	X				
MW-120	Grab	GW		4/14/21	1215	10	X	X	X	X	X	X						-01
MW-121	Grab	GW		4/14/21	1250	10	X	X	X	X	X	X						-02
MW-84	Grab	GW		4/14/21	1130	10	X	X	X	X	X	X						-03
~~MW-122~~	Grab	GW		~~4/13/21~~	~~1030~~	10	X	X	X	X	X	X						
MW-81	Grab	GW		4/14/21	1000	10	X	X	X	X	X	X						-04
MW-80	Grab	GW		4/14/21	915	10	X	X	X	X	X	X						-05

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:
Dissolved metals field-filtered.

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP ✓ Y N
COC Signed/Accurate: ✓ Y N
Bottles arrive intact: ✓ Y N
Correct bottles used: ✓ Y N
Sufficient volume sent: ✓ Y N
If Applicable
VOA Zero Headspace: ✓ Y N
Preservation Correct/Checked: ✓ Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeOH TBR	If preservation required by Login: Date/Time
Scott Ude	4/15/21	1200		1	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp 4.3 °C 0133=04	Bottles Received: 279
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4/16/21	Time: 0930

Hold: | Condition: NCF / OK

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Pres Chk

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com; dholbert@trccompanies.com**

Project Description: **EP Spring 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **330538.0000.0000**

Lab Project # **TRCATX-EP**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **EP (Navajo - Artesia)**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page 2 of 7

Pace Analytical® National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L # 1370049

Table #

Acctnum: **TRCATX**
Template: **T120302**
Prelogin: **P835500**
TSR: **526**
PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions,NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Remarks	Sample # (lab only)
MW-79	Grab	GW		4/14/21	825	10	X	X	X	X	X	X						-06
MW-82	Grab	GW		4/14/21	1045	10	X	X	X	X	X	X						-07
~~MW-74~~	Grab	GW		~~4/13/21~~	~~1040~~	10	X	X	X	X	X	X						
~~MW-73~~	Grab	GW		~~4/13/21~~	~~1130~~	10	X	X	X	X	X	X						
~~MW-2A~~	Grab	GW		~~4/13/21~~	~~1530~~	10	X	X	X	X	X	X						
~~MW-72~~	Grab	GW		~~4/13/21~~	~~1445~~	10	X	X	X	X	X	X						
~~OCD-6~~	Grab	GW		~~4/13/21~~	~~1400~~	10	X	X	X	X	X	X						
~~OCD-7AR~~	Grab	GW		~~4/13/21~~	~~1220~~	10	X	X	X	X	X	X						
~~OCD-7B~~	Grab	GW		~~4/13/21~~	~~1310~~	10	X	X	X	X	X	X						
MW-76	Grab	GW		4/14/21	1315	10	X	X	X	X	X	X						-08

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:
Dissolved metals field-filtered.

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS _✓_ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP ✓ Y __ N
COC Signed/Accurate: ✓ Y __ N
Bottles arrive intact: ✓ Y __ N
Correct bottles used: ✓ Y __ N
Sufficient volume sent: ✓ Y __ N
If Applicable
VOA Zero Headspace: ✓ Y __ N
Preservation Correct/Checked: __ Y __ N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	
Scott Ude	4/15/21	1200			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4.2 °C 0.1+3.7=3.8	Bottles Received: 27
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4/16/21	Time: 0930

If preservation required by Login: Date/Time

Hold:

Condition: NCF / (OK)

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Pres Chk

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com; dhelbert@trccompanies.com**

Project Description: **EP Spring 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **330538.0000.0000**

Lab Project # **TRCATX-EP**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **EP (Navajo - Artesia)**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
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___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page 3 of 7

Pace Analytical® National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 134049

Table #

Acctnum: **TRCATX**
Template: **T120302**
Prelogin: **P835500**
TSR: **526**
PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions,NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Remarks	Sample # (lab only)
MW-77	Grab	GW		4/14/21	1405	10	X	X	X	X	X	X						-09
MW-78	Grab	GW		4/14/21	1450	10	X	X	X	X	X	X						-10
MW-75	Grab	GW		4/14/21	1540	10	X	X	X	X	X	X						-11
MW-83	Grab	GW		4/14/21	1230	10	X	X	X	X	X	X						-12
MW-3	Grab	GW		4/14/21	1120	10	X	X	X	X	X	X						-13
~~MW-88~~	Grab	GW		~~4/13/21~~	~~1610~~	~~10~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~						
MW-22A	Grab	GW		4/14/21	825	10	X	X	X	X	X	X						-14
MW-22B	Grab	GW		4/14/21	935	10	X	X	X	X	X	X						-15
~~MW-10~~	Grab	GW		~~4/13/21~~	~~1720~~	~~10~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~						
MW-123	Grab	GW		4/14/21	1025	10	X	X	X	X	X	X						-16

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:
Dissolved metals field-filtered.

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP ✓Y __N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: ✓Y __N
Correct bottles used: ✓Y __N
Sufficient volume sent: ✓Y __N
If Applicable
VOA Zero Headspace: ✓Y __N
Preservation Correct/Checked: ✓Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/15/21	1200	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: Yes / (No)
HCL / MeoH
TBR

Temp: 4.3 °C Bottles Received: 279
0414 3294

If preservation required by Login: Date/Time

Date: 4/16/21 Time: 0930

Hold:

Condition: NCF / (OK)

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Pres Chk

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com; dbelbert@trccompanies.com**

Project Description: **EP Spring 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **330538.0000.0000**

Lab Project # **TRCATX-EP**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **EP (Navajo - Artesia)**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page 4 of 7

Pace Analytical® National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L # 1340099

Table #

Acctnum: **TRCATX**
Template: **T120302**
Prelogin: **P835500**
TSR: **526**
PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions,NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Remarks	Sample # (lab only)
MW-4A	Grab	GW		4/13/21	1455	10	X	X	X	X	X	X						
MW-4B	Grab	GW		4/13/21	1540	10	X	X	X	X	X	X						
MW-5A	Grab	GW		4/13/21	1225	10	X	X	X	X	X	X						
MW-5B	Grab	GW		4/13/21	1320	10	X	X	X	X	X	X						
MW-5C	Grab	GW		4/13/21	1405	10	X	X	X	X	X	X						
MW-7A	Grab	GW		4/13/21	1115	10	X	X	X	X	X	X						
MW-7B	Grab	GW		4/13/21	1030	10	X	X	X	X	X	X						
OCD-8A	Grab	GW		4/13/21	945	11	X	X	X		X	X	X	X				
OCD-8B	Grab	GW		4/13/21	855	10	X	X	X	X	X	X						
MW-1R	Grab	GW		4/14/21	1340	8	X	X		X	X	X						-17

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:
Dissolved metals field-filtered.

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP ✓Y __N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: ✓Y __N
Correct bottles used: ✓Y __N
Sufficient volume sent: ✓Y __N
If Applicable
VOA Zero Headspace: ✓Y __N
Preservation Correct/Checked: ✓Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/15/21	1200	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: Yes / ~~No~~ HCL / MeoH TBR

Temp: 4.1 °C 0.1 Bottles Received: 27

Date: 4/16/21 Time: 0930

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Pres Chk

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com; dhelbert@trccompanies.com**

Project Description: **EP Spring 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **330538.0000.0000**

Lab Project # **TRCATX-EP**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **EP (Navajo - Artesia)**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page 5 of 7

Pace Analytical® National Center for Testing & Innovation

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Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L # 1340049

Table #

Acctnum: **TRCATX**
Template: **T120302**
Prelogin: **P835500**
TSR: **526**
PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions,NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Remarks	Sample # (lab only)
MW-15	Grab	GW		4/14/21	1345	10	X	X	X	X	X	X						-18
OCD-1R	Grab	GW		4/14/21	1250	10	X	X	X	X	X	X						-19
OCD-2A	Grab	GW		4/14/21	1040	10	X	X	X	X	X	X						-20
OCD-3	Grab	GW		4/14/21	955	10	X	X	X	X	X	X						-21
OCD-4	Grab	GW		4/14/21	910	10	X	X	X	X	X	X						-22
MW-11A	Grab	GW		4/14/21	1205	10	X	X	X	X	X	X						-23
MW-11B	Grab	GW		4/14/21	1125	10	X	X	X	X	X	X						-24
OCD-5	Grab	GW		4/14/21	825	10	X	X	X	X	X	X						-25
~~MW-87~~	Grab	GW		~~4/13/21~~	~~1000~~	~~10~~	X	X	X	X	X	X						~~-26~~ 4/16
~~MW-18A~~	Grab	GW		~~4/13/21~~	~~1045~~	9	X	X			X	X	X	X				

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:
Dissolved metals field-filtered.

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP ✓Y __N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: ✓Y __N
Correct bottles used: ✓Y __N
Sufficient volume sent: ✓Y __N
If Applicable
VOA Zero Headspace: ✓Y __N
Preservation Correct/Checked: ✓Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / (No) HCL / MeoH TBR	
Scott Ude	4/15/21	1200			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 7.3 °C 0.1+3=0.4	Bottles Received: 279
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4/16/21	Time: 0930

If preservation required by Login: Date/Time

Hold:

Condition NCF / OK

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Pres Chk

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com; dbelbert@trccompanies.com**

Project Description: **EP Spring 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **330538.0000.0000**

Lab Project # **TRCATX-EP**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **EP (Navajo - Artesia)**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page 6 of 7

Pace Analytical® National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L # 1384004 9
Table # 4116

Acctnum: **TRCATX**
Template: **T120302**
Prelogin: **P835500**
TSR: **526**
PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions,NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Remarks	Sample # (lab only)
MW-18B	Grab	GW		4/13/21	1125	10	X	X	X	X	X	X						
MW-70	Grab	GW		4/13/21	1210	10	X	X	X	X	X	X						
MW-124	Grab	GW		4/13/21	1255	10	X	X	X	X	X	X						
DUP-EP-01	Grab	GW		4/13/21	1000	10	X	X	X	X	X	X						
DUP-EP-02	Grab	GW		4/14/21	800	10	X	X	X	X	X	X						-2726
DUP-EP-03	Grab	GW		4/14/21	1000	10	X	X	X	X	X	X						-2827
EB-EP-01	Grab	GW		4/13/21	1055	10	X	X	X	X	X	X						
EB-EP-02	Grab	GW		4/13/21	1310	10	X	X	X	X	X	X						
EB-EP-03	Grab	GW		4/13/21	1245	10	X	X	X	X	X	X						
EB-EP-04	Grab	GW		4/14/21	840	10	X	X	X	X	X	X						-2928

4/16

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:
Dissolved metals field-filtered.

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP ✓Y __N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: ✓Y __N
Correct bottles used: ✓Y __N
Sufficient volume sent: ✓Y __N
If Applicable
VOA Zero Headspace: ✓Y __N
Preservation Correct/Checked: ✓Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
Scott Ude	4/15/21	1200			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4.3 °C Bottles Received: 27	
				0.1/13:04	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4/16/21 Time: 0930	Hold: Condition: NCF / OK

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Pres Chk

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com; dholbert@trccompanies.com**

Project Description: **EP Spring 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **330538.0000.0000**

Lab Project # **TRCATX-EP**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **EP (Navajo - Artesia)**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

Quote #

Analysis / Container / Preservative

Chain of Custody Page 7 of 7

Pace Analytical® National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 1340049

Table #

Acctnum: TRCATX
Template: T120302
Prelogin: P835500
TSR: 526
PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions,NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Remarks	Sample # (lab only)
Trip Blank-EP-01	Grab	GW		4/13/21		1	X											
Trip Blank-EP-02	Grab	GW		4/13/21		1	X											
Trip Blank-EP-03	Grab	GW		4/14/21		1	X											-3029

4/16

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:
Dissolved metals field-filtered.

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP ✓Y __N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: ✓Y __N
Correct bottles used: ✓Y __N
Sufficient volume sent: ✓Y __N
If Applicable
VOA Zero Headspace: ✓Y __N
Preservation Correct/Checked: ✓Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/15/21	1200	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: Yes / ~~No~~ HCL / MeoH TBR

Temp: 4.3 °C Bottles Received: 27 9

0.1 3.9 4

Date: 4/16/21 Time: 0930

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

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LB40049

Fed Ex Tracking #:			Corresponding Temp:		
5016	1217	2116	0.1 + .3 = 0.4	A3	PM
9517	5769	8834	0.3 + .3 = 0.6		
	5771	3106	0.1 + .3 = 0.4		
		3047	0.2 + .3 = 0.5		
	5769	8878	0.1 + .3 = 0.4		
	5771	0493	0.4 + .3 = 0.7		
	5769	8845	0.1 + .3 = 0.4		
	5771	3014	3.8 + .1 = 3.9	A6	OT
		0450	3.6 + .1 = 3.7	A2	BB
5016	1220	5876	3.4 + .1 = 3.5	A6	OT
9517	5769	8856	0.4 + .1 = 0.5	A2	BB
	5771	0482	2.6 + .1 = 2.7	A2	BB
		0460	0.3 + .1 = 0.4	A6	OT
		3025	0.1 + .3 = 0.4	A3	PM
		0471	0.2 + .3 = 0.5		
		0449	2.6 + .1 = 2.7	A6	OT
5016	1220	5865	3.5 + .1 = 3.6	A2	BB
9517	5769	8867	2.7 - .3 = 2.4	A7	KI

Received by OCD: 1/9/2025 2:41:44 PM

Released to Imaging: 2/7/2025 11:08:22 AM

ANALYTICAL REPORT

April 29, 2021

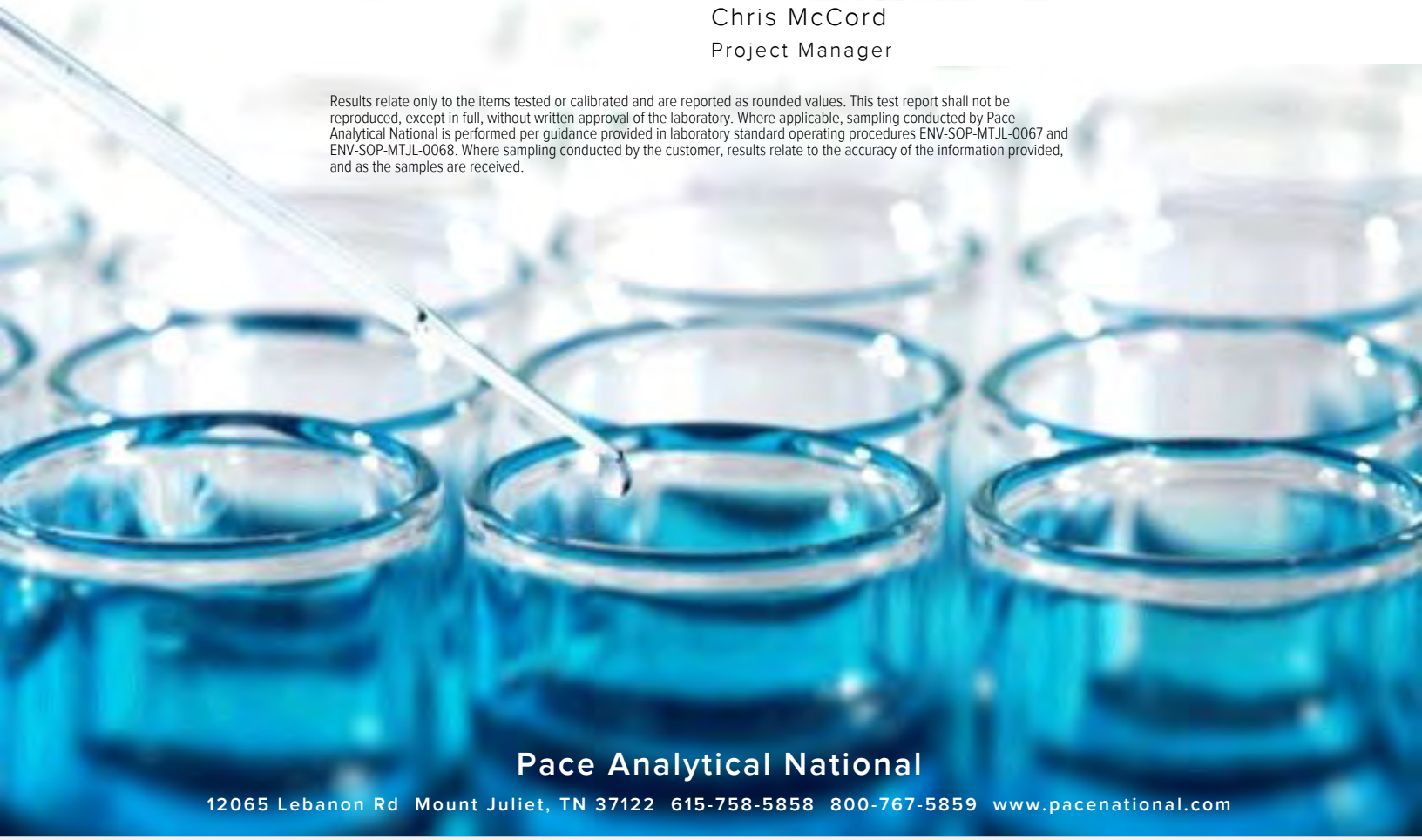
TRC Solutions - Austin, TX

Sample Delivery Group:	L1340062
Samples Received:	04/16/2021
Project Number:	425135.0000.0000
Description:	TMD Spring 2021
Site:	TMD - NAVAJO-ARTESIA
Report To:	Julie Speer
	505 E. Huntland Dr, Ste 250
	Austin, TX 78752

Entire Report Reviewed By:

Chris McCord
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Released to Imaging: 2/7/2025 11:08:22 AM

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MW-20 L1340062-01 GW

Collected by: SU / HMI Team | Collected date/time: 04/14/21 10:35 | Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1655622	1	04/21/21 02:20	04/21/21 04:12	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1653923	1	04/22/21 09:32	04/22/21 09:32	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657191	1	04/23/21 12:23	04/23/21 12:23	MSP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657191	100	04/23/21 12:39	04/23/21 12:39	MSP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656512	1	04/27/21 11:04	04/27/21 18:40	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656912	1	04/27/21 14:05	04/28/21 21:38	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656912	1	04/27/21 14:05	04/29/21 00:27	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654383	1	04/20/21 00:44	04/20/21 00:44	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656978	1	04/23/21 09:18	04/26/21 01:38	JN	Mt. Juliet, TN

NP-1 L1340062-02 GW

Collected by: SU / HMI Team | Collected date/time: 04/14/21 11:15 | Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1655622	1	04/21/21 02:20	04/21/21 04:12	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1653923	1	04/22/21 09:34	04/22/21 09:34	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657191	1	04/23/21 12:55	04/23/21 12:55	MSP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657191	100	04/23/21 13:12	04/23/21 13:12	MSP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656912	1	04/27/21 14:05	04/28/21 21:41	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654383	1	04/20/21 02:07	04/20/21 02:07	JHH	Mt. Juliet, TN

NP-6 L1340062-03 GW

Collected by: SU / HMI Team | Collected date/time: 04/14/21 10:20 | Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654383	1	04/20/21 01:05	04/20/21 01:05	JHH	Mt. Juliet, TN

MW-8 L1340062-04 GW

Collected by: SU / HMI Team | Collected date/time: 04/14/21 09:50 | Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1655622	1	04/21/21 02:20	04/21/21 04:12	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1653923	25	04/22/21 09:36	04/22/21 09:36	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657191	1	04/23/21 13:28	04/23/21 13:28	MSP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657191	100	04/23/21 13:45	04/23/21 13:45	MSP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656512	1	04/27/21 11:04	04/27/21 18:54	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656912	1	04/27/21 14:05	04/28/21 21:44	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656912	1	04/27/21 14:05	04/29/21 00:30	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1657430	1	04/23/21 23:02	04/23/21 23:02	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654383	1	04/20/21 01:26	04/20/21 01:26	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656978	1	04/23/21 09:18	04/26/21 01:58	JN	Mt. Juliet, TN

MW-21 L1340062-05 GW

Collected by: SU / HMI Team | Collected date/time: 04/14/21 09:05 | Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1655622	1	04/21/21 02:20	04/21/21 04:12	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1653923	25	04/22/21 09:37	04/22/21 09:37	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657191	1	04/23/21 14:50	04/23/21 14:50	MSP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657191	100	04/23/21 14:01	04/23/21 14:01	MSP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656512	1	04/27/21 11:04	04/27/21 18:57	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656912	1	04/27/21 14:05	04/28/21 21:48	LD	Mt. Juliet, TN

MW-21 L1340062-05 GW

Collected by: SU / HMI Team
Collected date/time: 04/14/21 09:05
Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICPMS) by Method 6020	WG1656912	1	04/27/21 14:05	04/29/21 00:33	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1657430	1	04/23/21 23:24	04/23/21 23:24	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654494	1	04/19/21 18:06	04/19/21 18:06	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656978	1	04/23/21 09:18	04/24/21 17:26	JN	Mt. Juliet, TN

MW-71 L1340062-06 GW

Collected by: SU / HMI Team
Collected date/time: 04/14/21 09:25
Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1655622	1	04/21/21 02:20	04/21/21 04:12	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1653923	25	04/22/21 09:38	04/22/21 09:38	SDL	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG1657212	25	04/22/21 19:18	04/26/21 14:18	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657191	1	04/23/21 15:07	04/23/21 15:07	MSP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657191	100	04/23/21 15:23	04/23/21 15:23	MSP	Mt. Juliet, TN
Mercury by Method 7470A	WG1654191	1	04/21/21 17:44	04/22/21 09:24	SD	Mt. Juliet, TN
Mercury by Method 7470A	WG1654201	1	04/22/21 10:38	04/22/21 14:17	SD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1656878	1	04/26/21 17:15	04/27/21 08:01	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1657951	1	04/23/21 19:43	04/24/21 03:53	KMG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656512	1	04/27/21 11:04	04/27/21 19:01	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656912	1	04/27/21 14:05	04/28/21 21:51	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656912	1	04/27/21 14:05	04/29/21 00:37	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654494	1	04/19/21 18:25	04/19/21 18:25	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656978	1	04/23/21 09:18	04/24/21 17:47	JN	Mt. Juliet, TN

MW-68 L1340062-07 GW

Collected by: SU / HMI Team
Collected date/time: 04/14/21 08:25
Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1655622	1	04/21/21 02:20	04/21/21 04:12	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1653923	1	04/22/21 09:39	04/22/21 09:39	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657191	1	04/23/21 15:40	04/23/21 15:40	MSP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657191	100	04/23/21 15:56	04/23/21 15:56	MSP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656512	1	04/27/21 11:04	04/27/21 19:04	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656912	1	04/27/21 14:05	04/28/21 21:54	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656912	1	04/27/21 14:05	04/29/21 00:40	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654494	1	04/19/21 18:44	04/19/21 18:44	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1659217	1	04/26/21 23:23	04/27/21 06:09	AEG	Mt. Juliet, TN

MW-46R L1340062-08 GW

Collected by: SU / HMI Team
Collected date/time: 04/14/21 14:05
Received date/time: 04/16/21 09:30

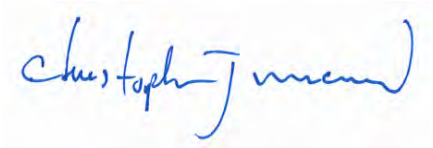
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1655622	1	04/21/21 02:20	04/21/21 04:12	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1653923	1	04/22/21 09:45	04/22/21 09:45	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657191	1	04/23/21 16:12	04/23/21 16:12	MSP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657191	100	04/23/21 16:29	04/23/21 16:29	MSP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656512	1	04/27/21 11:04	04/27/21 19:17	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656912	1	04/27/21 14:05	04/28/21 21:58	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654494	1	04/19/21 19:03	04/19/21 19:03	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1659217	1	04/26/21 23:23	04/27/21 06:29	AEG	Mt. Juliet, TN

TRIP BLANK-TMD-01 L1340062-09 GW

			Collected by	Collected date/time	Received date/time	
			SU / HMI Team	04/14/21 00:00	04/16/21 09:30	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654494	1	04/19/21 16:12	04/19/21 16:12	DWR	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Chris McCord
Project Manager

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4820		20.0	1	04/21/2021 04:12	WG1655622

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	3.60		0.0500	0.100	1	04/22/2021 09:32	WG1653923

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	399		37.9	100	100	04/23/2021 12:39	WG1657191
Fluoride	1.85		0.0640	0.150	1	04/23/2021 12:23	WG1657191
Sulfate	2590		59.4	500	100	04/23/2021 12:39	WG1657191

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00531		0.000180	0.00200	1	04/28/2021 21:38	WG1656912
Arsenic,Dissolved	0.00525		0.000180	0.00200	1	04/27/2021 18:40	WG1656512
Barium	0.0109	J	0.000381	0.0200	1	04/28/2021 21:38	WG1656912
Barium,Dissolved	0.0110	J	0.000381	0.0200	1	04/27/2021 18:40	WG1656512
Calcium	572		0.0936	1.00	1	04/28/2021 21:38	WG1656912
Chromium	U		0.00124	0.00200	1	04/28/2021 21:38	WG1656912
Chromium,Dissolved	U		0.00124	0.00200	1	04/27/2021 18:40	WG1656512
Iron	U		0.0281	0.100	1	04/28/2021 21:38	WG1656912
Iron,Dissolved	U		0.0281	0.100	1	04/27/2021 18:40	WG1656512
Lead	U		0.000849	0.00200	1	04/28/2021 21:38	WG1656912
Lead,Dissolved	U		0.000849	0.00200	1	04/27/2021 18:40	WG1656512
Manganese	0.0237		0.000704	0.00500	1	04/28/2021 21:38	WG1656912
Manganese,Dissolved	0.00620		0.000704	0.00500	1	04/27/2021 18:40	WG1656512
Potassium	0.598	J	0.108	2.00	1	04/28/2021 21:38	WG1656912
Selenium	0.00615		0.000300	0.00200	1	04/29/2021 00:27	WG1656912
Selenium,Dissolved	0.00663		0.000300	0.00200	1	04/27/2021 18:40	WG1656512
Sodium	295		0.376	2.00	1	04/28/2021 21:38	WG1656912

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/20/2021 00:44	WG1654383
Benzene	U		0.0000941	0.00100	1	04/20/2021 00:44	WG1654383
Bromodichloromethane	U		0.000136	0.00100	1	04/20/2021 00:44	WG1654383
Bromoform	U		0.000129	0.00100	1	04/20/2021 00:44	WG1654383
Bromomethane	U		0.000605	0.00500	1	04/20/2021 00:44	WG1654383
n-Butylbenzene	U		0.000157	0.00100	1	04/20/2021 00:44	WG1654383
sec-Butylbenzene	U		0.000125	0.00100	1	04/20/2021 00:44	WG1654383
Carbon disulfide	U		0.0000962	0.00100	1	04/20/2021 00:44	WG1654383
Carbon tetrachloride	U		0.000128	0.00100	1	04/20/2021 00:44	WG1654383
Chlorobenzene	U		0.000116	0.00100	1	04/20/2021 00:44	WG1654383
Chlorodibromomethane	U		0.000140	0.00100	1	04/20/2021 00:44	WG1654383
Chloroethane	U		0.000192	0.00500	1	04/20/2021 00:44	WG1654383
Chloroform	U		0.000111	0.00500	1	04/20/2021 00:44	WG1654383
Chloromethane	U		0.000960	0.00250	1	04/20/2021 00:44	WG1654383
1,2-Dibromoethane	U		0.000126	0.00100	1	04/20/2021 00:44	WG1654383
1,1-Dichloroethane	U		0.000100	0.00100	1	04/20/2021 00:44	WG1654383

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/20/2021 00:44	WG1654383
1,1-Dichloroethene	U		0.000188	0.00100	1	04/20/2021 00:44	WG1654383
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/20/2021 00:44	WG1654383
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/20/2021 00:44	WG1654383
1,2-Dichloropropane	U		0.000149	0.00100	1	04/20/2021 00:44	WG1654383
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/20/2021 00:44	WG1654383
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/20/2021 00:44	WG1654383
Ethylbenzene	U		0.000137	0.00100	1	04/20/2021 00:44	WG1654383
Isopropylbenzene	U		0.000105	0.00100	1	04/20/2021 00:44	WG1654383
p-Isopropyltoluene	U		0.000120	0.00100	1	04/20/2021 00:44	WG1654383
2-Butanone (MEK)	U		0.00119	0.0100	1	04/20/2021 00:44	WG1654383
2-Hexanone	U		0.000787	0.0100	1	04/20/2021 00:44	WG1654383
Methylene Chloride	U		0.000430	0.00500	1	04/20/2021 00:44	WG1654383
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/20/2021 00:44	WG1654383
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/20/2021 00:44	WG1654383
Naphthalene	U		0.00100	0.00500	1	04/20/2021 00:44	WG1654383
n-Propylbenzene	U		0.0000993	0.00100	1	04/20/2021 00:44	WG1654383
Styrene	U		0.000118	0.00100	1	04/20/2021 00:44	WG1654383
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/20/2021 00:44	WG1654383
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/20/2021 00:44	WG1654383
Tetrachloroethene	U		0.000300	0.00100	1	04/20/2021 00:44	WG1654383
Toluene	U		0.000278	0.00100	1	04/20/2021 00:44	WG1654383
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/20/2021 00:44	WG1654383
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/20/2021 00:44	WG1654383
Trichloroethene	U		0.000190	0.00100	1	04/20/2021 00:44	WG1654383
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/20/2021 00:44	WG1654383
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/20/2021 00:44	WG1654383
Vinyl chloride	U		0.000234	0.00100	1	04/20/2021 00:44	WG1654383
o-Xylene	U		0.000174	0.00100	1	04/20/2021 00:44	WG1654383
m&p-Xylene	U		0.000430	0.00200	1	04/20/2021 00:44	WG1654383
Xylenes, Total	U		0.000174	0.00300	1	04/20/2021 00:44	WG1654383
(S) Toluene-d8	*118*			*80.0-120*		*04/20/2021 00:44*	WG1654383
(S) 4-Bromofluorobenzene	*98.1*			*77.0-126*		*04/20/2021 00:44*	WG1654383
(S) 1,2-Dichloroethane-d4	*96.4*			*70.0-130*		*04/20/2021 00:44*	WG1654383

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.141		0.0247	0.100	1	04/26/2021 01:38	WG1656978
(S) o-Terphenyl	*96.8*			*31.0-160*		*04/26/2021 01:38*	WG1656978

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4090		20.0	1	04/21/2021 04:12	WG1655622

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	3.17		0.0500	0.100	1	04/22/2021 09:34	WG1653923

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	402		37.9	100	100	04/23/2021 13:12	WG1657191
Fluoride	1.50		0.0640	0.150	1	04/23/2021 12:55	WG1657191
Sulfate	1870		59.4	500	100	04/23/2021 13:12	WG1657191

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Calcium	479		0.0936	1.00	1	04/28/2021 21:41	WG1656912
Potassium	1.69	J	0.108	2.00	1	04/28/2021 21:41	WG1656912
Sodium	325		0.376	2.00	1	04/28/2021 21:41	WG1656912

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/20/2021 02:07	WG1654383
Benzene	U		0.0000941	0.00100	1	04/20/2021 02:07	WG1654383
Bromodichloromethane	U		0.000136	0.00100	1	04/20/2021 02:07	WG1654383
Bromoform	U		0.000129	0.00100	1	04/20/2021 02:07	WG1654383
Bromomethane	U		0.000605	0.00500	1	04/20/2021 02:07	WG1654383
n-Butylbenzene	U		0.000157	0.00100	1	04/20/2021 02:07	WG1654383
sec-Butylbenzene	U		0.000125	0.00100	1	04/20/2021 02:07	WG1654383
Carbon disulfide	U		0.0000962	0.00100	1	04/20/2021 02:07	WG1654383
Carbon tetrachloride	U		0.000128	0.00100	1	04/20/2021 02:07	WG1654383
Chlorobenzene	U		0.000116	0.00100	1	04/20/2021 02:07	WG1654383
Chlorodibromomethane	U		0.000140	0.00100	1	04/20/2021 02:07	WG1654383
Chloroethane	U		0.000192	0.00500	1	04/20/2021 02:07	WG1654383
Chloroform	U		0.000111	0.00500	1	04/20/2021 02:07	WG1654383
Chloromethane	U		0.000960	0.00250	1	04/20/2021 02:07	WG1654383
1,2-Dibromoethane	U		0.000126	0.00100	1	04/20/2021 02:07	WG1654383
1,1-Dichloroethane	U		0.000100	0.00100	1	04/20/2021 02:07	WG1654383
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/20/2021 02:07	WG1654383
1,1-Dichloroethene	U		0.000188	0.00100	1	04/20/2021 02:07	WG1654383
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/20/2021 02:07	WG1654383
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/20/2021 02:07	WG1654383
1,2-Dichloropropane	U		0.000149	0.00100	1	04/20/2021 02:07	WG1654383
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/20/2021 02:07	WG1654383
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/20/2021 02:07	WG1654383
Ethylbenzene	U		0.000137	0.00100	1	04/20/2021 02:07	WG1654383
Isopropylbenzene	U		0.000105	0.00100	1	04/20/2021 02:07	WG1654383
p-Isopropyltoluene	U		0.000120	0.00100	1	04/20/2021 02:07	WG1654383
2-Butanone (MEK)	U		0.00119	0.0100	1	04/20/2021 02:07	WG1654383
2-Hexanone	U		0.000787	0.0100	1	04/20/2021 02:07	WG1654383
Methylene Chloride	U		0.000430	0.00500	1	04/20/2021 02:07	WG1654383
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/20/2021 02:07	WG1654383

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Methyl tert-butyl ether	0.101		0.000101	0.00100	1	04/20/2021 02:07	WG1654383
Naphthalene	U		0.00100	0.00500	1	04/20/2021 02:07	WG1654383
n-Propylbenzene	U		0.0000993	0.00100	1	04/20/2021 02:07	WG1654383
Styrene	U		0.000118	0.00100	1	04/20/2021 02:07	WG1654383
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/20/2021 02:07	WG1654383
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/20/2021 02:07	WG1654383
Tetrachloroethene	U		0.000300	0.00100	1	04/20/2021 02:07	WG1654383
Toluene	U		0.000278	0.00100	1	04/20/2021 02:07	WG1654383
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/20/2021 02:07	WG1654383
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/20/2021 02:07	WG1654383
Trichloroethene	U		0.000190	0.00100	1	04/20/2021 02:07	WG1654383
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/20/2021 02:07	WG1654383
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/20/2021 02:07	WG1654383
Vinyl chloride	U		0.000234	0.00100	1	04/20/2021 02:07	WG1654383
o-Xylene	U		0.000174	0.00100	1	04/20/2021 02:07	WG1654383
m&p-Xylene	U		0.000430	0.00200	1	04/20/2021 02:07	WG1654383
Xylenes, Total	U		0.000174	0.00300	1	04/20/2021 02:07	WG1654383
(S) Toluene-d8	*113*			*80.0-120*		*04/20/2021 02:07*	WG1654383
(S) 4-Bromofluorobenzene	*95.1*			*77.0-126*		*04/20/2021 02:07*	WG1654383
(S) 1,2-Dichloroethane-d4	*90.7*			*70.0-130*		*04/20/2021 02:07*	WG1654383

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/20/2021 01:05	WG1654383
Benzene	U		0.0000941	0.00100	1	04/20/2021 01:05	WG1654383
Bromodichloromethane	U		0.000136	0.00100	1	04/20/2021 01:05	WG1654383
Bromoform	U		0.000129	0.00100	1	04/20/2021 01:05	WG1654383
Bromomethane	U		0.000605	0.00500	1	04/20/2021 01:05	WG1654383
n-Butylbenzene	U		0.000157	0.00100	1	04/20/2021 01:05	WG1654383
sec-Butylbenzene	U		0.000125	0.00100	1	04/20/2021 01:05	WG1654383
Carbon disulfide	U		0.0000962	0.00100	1	04/20/2021 01:05	WG1654383
Carbon tetrachloride	U		0.000128	0.00100	1	04/20/2021 01:05	WG1654383
Chlorobenzene	U		0.000116	0.00100	1	04/20/2021 01:05	WG1654383
Chlorodibromomethane	U		0.000140	0.00100	1	04/20/2021 01:05	WG1654383
Chloroethane	U		0.000192	0.00500	1	04/20/2021 01:05	WG1654383
Chloroform	U		0.000111	0.00500	1	04/20/2021 01:05	WG1654383
Chloromethane	U		0.000960	0.00250	1	04/20/2021 01:05	WG1654383
1,2-Dibromoethane	U		0.000126	0.00100	1	04/20/2021 01:05	WG1654383
1,1-Dichloroethane	U		0.000100	0.00100	1	04/20/2021 01:05	WG1654383
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/20/2021 01:05	WG1654383
1,1-Dichloroethene	U		0.000188	0.00100	1	04/20/2021 01:05	WG1654383
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/20/2021 01:05	WG1654383
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/20/2021 01:05	WG1654383
1,2-Dichloropropane	U		0.000149	0.00100	1	04/20/2021 01:05	WG1654383
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/20/2021 01:05	WG1654383
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/20/2021 01:05	WG1654383
Ethylbenzene	U		0.000137	0.00100	1	04/20/2021 01:05	WG1654383
Isopropylbenzene	U		0.000105	0.00100	1	04/20/2021 01:05	WG1654383
p-Isopropyltoluene	U		0.000120	0.00100	1	04/20/2021 01:05	WG1654383
2-Butanone (MEK)	U		0.00119	0.0100	1	04/20/2021 01:05	WG1654383
2-Hexanone	U		0.000787	0.0100	1	04/20/2021 01:05	WG1654383
Methylene Chloride	U		0.000430	0.00500	1	04/20/2021 01:05	WG1654383
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/20/2021 01:05	WG1654383
Methyl tert-butyl ether	0.0407		0.000101	0.00100	1	04/20/2021 01:05	WG1654383
Naphthalene	U		0.00100	0.00500	1	04/20/2021 01:05	WG1654383
n-Propylbenzene	U		0.0000993	0.00100	1	04/20/2021 01:05	WG1654383
Styrene	U		0.000118	0.00100	1	04/20/2021 01:05	WG1654383
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/20/2021 01:05	WG1654383
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/20/2021 01:05	WG1654383
Tetrachloroethene	U		0.000300	0.00100	1	04/20/2021 01:05	WG1654383
Toluene	U		0.000278	0.00100	1	04/20/2021 01:05	WG1654383
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/20/2021 01:05	WG1654383
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/20/2021 01:05	WG1654383
Trichloroethene	U		0.000190	0.00100	1	04/20/2021 01:05	WG1654383
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/20/2021 01:05	WG1654383
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/20/2021 01:05	WG1654383
Vinyl chloride	U		0.000234	0.00100	1	04/20/2021 01:05	WG1654383
o-Xylene	U		0.000174	0.00100	1	04/20/2021 01:05	WG1654383
m&p-Xylene	U		0.000430	0.00200	1	04/20/2021 01:05	WG1654383
Xylenes, Total	U		0.000174	0.00300	1	04/20/2021 01:05	WG1654383
(S) Toluene-d8	*115*			*80.0-120*		*04/20/2021 01:05*	WG1654383
(S) 4-Bromofluorobenzene	*97.6*			*77.0-126*		*04/20/2021 01:05*	WG1654383
(S) 1,2-Dichloroethane-d4	*93.7*			*70.0-130*		*04/20/2021 01:05*	WG1654383

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	5790		50.0	1	04/21/2021 04:12	WG1655622

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	19.4		1.25	2.50	25	04/22/2021 09:36	WG1653923

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	625		37.9	100	100	04/23/2021 13:45	WG1657191
Fluoride	1.55		0.0640	0.150	1	04/23/2021 13:28	WG1657191
Sulfate	2690		59.4	500	100	04/23/2021 13:45	WG1657191

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00685		0.000180	0.00200	1	04/28/2021 21:44	WG1656912
Arsenic,Dissolved	0.00567		0.000180	0.00200	1	04/27/2021 18:54	WG1656512
Barium	0.0155	J	0.000381	0.0200	1	04/28/2021 21:44	WG1656912
Barium,Dissolved	0.0158	J	0.000381	0.0200	1	04/27/2021 18:54	WG1656512
Calcium	595		0.0936	1.00	1	04/28/2021 21:44	WG1656912
Chromium	0.0140		0.00124	0.00200	1	04/28/2021 21:44	WG1656912
Chromium,Dissolved	U		0.00124	0.00200	1	04/27/2021 18:54	WG1656512
Iron	0.0819	J	0.0281	0.100	1	04/28/2021 21:44	WG1656912
Iron,Dissolved	U		0.0281	0.100	1	04/27/2021 18:54	WG1656512
Lead	U		0.000849	0.00200	1	04/28/2021 21:44	WG1656912
Lead,Dissolved	U		0.000849	0.00200	1	04/27/2021 18:54	WG1656512
Manganese	0.371		0.000704	0.00500	1	04/28/2021 21:44	WG1656912
Manganese,Dissolved	0.350		0.000704	0.00500	1	04/27/2021 18:54	WG1656512
Potassium	2.05		0.108	2.00	1	04/28/2021 21:44	WG1656912
Selenium	0.0543		0.000300	0.00200	1	04/29/2021 00:30	WG1656912
Selenium,Dissolved	0.0537		0.000300	0.00200	1	04/27/2021 18:54	WG1656512
Sodium	464		0.376	2.00	1	04/28/2021 21:44	WG1656912

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	0.107		0.0314	0.100	1	04/23/2021 23:02	WG1657430
(S) a,a,a-Trifluorotoluene(FID)	*101*			*78.0-120*		*04/23/2021 23:02*	WG1657430

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0113	0.0500	1	04/20/2021 01:26	WG1654383
Benzene	U		0.0000941	0.00100	1	04/20/2021 01:26	WG1654383
Bromodichloromethane	U		0.000136	0.00100	1	04/20/2021 01:26	WG1654383
Bromoform	U		0.000129	0.00100	1	04/20/2021 01:26	WG1654383
Bromomethane	U		0.000605	0.00500	1	04/20/2021 01:26	WG1654383
n-Butylbenzene	U		0.000157	0.00100	1	04/20/2021 01:26	WG1654383
sec-Butylbenzene	U		0.000125	0.00100	1	04/20/2021 01:26	WG1654383
Carbon disulfide	U		0.0000962	0.00100	1	04/20/2021 01:26	WG1654383
Carbon tetrachloride	U		0.000128	0.00100	1	04/20/2021 01:26	WG1654383

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/20/2021 01:26	WG1654383
Chlorodibromomethane	U		0.000140	0.00100	1	04/20/2021 01:26	WG1654383
Chloroethane	U		0.000192	0.00500	1	04/20/2021 01:26	WG1654383
Chloroform	U		0.000111	0.00500	1	04/20/2021 01:26	WG1654383
Chloromethane	U		0.000960	0.00250	1	04/20/2021 01:26	WG1654383
1,2-Dibromoethane	U		0.000126	0.00100	1	04/20/2021 01:26	WG1654383
1,1-Dichloroethane	U		0.000100	0.00100	1	04/20/2021 01:26	WG1654383
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/20/2021 01:26	WG1654383
1,1-Dichloroethene	U		0.000188	0.00100	1	04/20/2021 01:26	WG1654383
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/20/2021 01:26	WG1654383
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/20/2021 01:26	WG1654383
1,2-Dichloropropane	U		0.000149	0.00100	1	04/20/2021 01:26	WG1654383
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/20/2021 01:26	WG1654383
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/20/2021 01:26	WG1654383
Ethylbenzene	U		0.000137	0.00100	1	04/20/2021 01:26	WG1654383
Isopropylbenzene	U		0.000105	0.00100	1	04/20/2021 01:26	WG1654383
p-Isopropyltoluene	U		0.000120	0.00100	1	04/20/2021 01:26	WG1654383
2-Butanone (MEK)	U		0.00119	0.0100	1	04/20/2021 01:26	WG1654383
2-Hexanone	U		0.000787	0.0100	1	04/20/2021 01:26	WG1654383
Methylene Chloride	U		0.000430	0.00500	1	04/20/2021 01:26	WG1654383
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/20/2021 01:26	WG1654383
Methyl tert-butyl ether	0.104		0.000101	0.00100	1	04/20/2021 01:26	WG1654383
Naphthalene	U		0.00100	0.00500	1	04/20/2021 01:26	WG1654383
n-Propylbenzene	U		0.0000993	0.00100	1	04/20/2021 01:26	WG1654383
Styrene	U		0.000118	0.00100	1	04/20/2021 01:26	WG1654383
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/20/2021 01:26	WG1654383
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/20/2021 01:26	WG1654383
Tetrachloroethene	U		0.000300	0.00100	1	04/20/2021 01:26	WG1654383
Toluene	U		0.000278	0.00100	1	04/20/2021 01:26	WG1654383
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/20/2021 01:26	WG1654383
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/20/2021 01:26	WG1654383
Trichloroethene	U		0.000190	0.00100	1	04/20/2021 01:26	WG1654383
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/20/2021 01:26	WG1654383
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/20/2021 01:26	WG1654383
Vinyl chloride	U		0.000234	0.00100	1	04/20/2021 01:26	WG1654383
o-Xylene	U		0.000174	0.00100	1	04/20/2021 01:26	WG1654383
m&p-Xylene	U		0.000430	0.00200	1	04/20/2021 01:26	WG1654383
Xylenes, Total	U		0.000174	0.00300	1	04/20/2021 01:26	WG1654383
(S) Toluene-d8	*117*			*80.0-120*		*04/20/2021 01:26*	WG1654383
(S) 4-Bromofluorobenzene	*98.7*			*77.0-126*		*04/20/2021 01:26*	WG1654383
(S) 1,2-Dichloroethane-d4	*89.9*			*70.0-130*		*04/20/2021 01:26*	WG1654383

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0902	J	0.0247	0.100	1	04/26/2021 01:58	WG1656978
(S) o-Terphenyl	*81.6*			*31.0-160*		*04/26/2021 01:58*	WG1656978

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	5560		50.0	1	04/21/2021 04:12	WG1655622

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	17.8		1.25	2.50	25	04/22/2021 09:37	WG1653923

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	601		37.9	100	100	04/23/2021 14:01	WG1657191
Fluoride	1.77		0.0640	0.150	1	04/23/2021 14:50	WG1657191
Sulfate	2570		59.4	500	100	04/23/2021 14:01	WG1657191

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00614		0.000180	0.00200	1	04/28/2021 21:48	WG1656912
Arsenic,Dissolved	0.00562		0.000180	0.00200	1	04/27/2021 18:57	WG1656512
Barium	0.0102	J	0.000381	0.0200	1	04/28/2021 21:48	WG1656912
Barium,Dissolved	0.0108	J	0.000381	0.0200	1	04/27/2021 18:57	WG1656512
Calcium	592		0.0936	1.00	1	04/28/2021 21:48	WG1656912
Chromium	U		0.00124	0.00200	1	04/28/2021 21:48	WG1656912
Chromium,Dissolved	U		0.00124	0.00200	1	04/27/2021 18:57	WG1656512
Iron	U		0.0281	0.100	1	04/28/2021 21:48	WG1656912
Iron,Dissolved	U		0.0281	0.100	1	04/27/2021 18:57	WG1656512
Lead	U		0.000849	0.00200	1	04/28/2021 21:48	WG1656912
Lead,Dissolved	U		0.000849	0.00200	1	04/27/2021 18:57	WG1656512
Manganese	0.0684		0.000704	0.00500	1	04/28/2021 21:48	WG1656912
Manganese,Dissolved	0.0402		0.000704	0.00500	1	04/27/2021 18:57	WG1656512
Potassium	2.18		0.108	2.00	1	04/28/2021 21:48	WG1656912
Selenium	0.0340		0.000300	0.00200	1	04/29/2021 00:33	WG1656912
Selenium,Dissolved	0.0346		0.000300	0.00200	1	04/27/2021 18:57	WG1656512
Sodium	467		0.376	2.00	1	04/28/2021 21:48	WG1656912

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0899	J	0.0314	0.100	1	04/23/2021 23:24	WG1657430
(S) a,a,a-Trifluorotoluene(FID)	*99.9*			*78.0-120*		*04/23/2021 23:24*	WG1657430

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U	J3 J4	0.0113	0.0500	1	04/19/2021 18:06	WG1654494
Benzene	U		0.0000941	0.00100	1	04/19/2021 18:06	WG1654494
Bromodichloromethane	U		0.000136	0.00100	1	04/19/2021 18:06	WG1654494
Bromoform	U		0.000129	0.00100	1	04/19/2021 18:06	WG1654494
Bromomethane	U		0.000605	0.00500	1	04/19/2021 18:06	WG1654494
n-Butylbenzene	U		0.000157	0.00100	1	04/19/2021 18:06	WG1654494
sec-Butylbenzene	U		0.000125	0.00100	1	04/19/2021 18:06	WG1654494
Carbon disulfide	U		0.0000962	0.00100	1	04/19/2021 18:06	WG1654494
Carbon tetrachloride	U		0.000128	0.00100	1	04/19/2021 18:06	WG1654494

MW-21
Collected date/time: 04/14/21 09:05
L1340062

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chlorobenzene	U		0.000116	0.00100	1	04/19/2021 18:06	WG1654494
Chlorodibromomethane	U		0.000140	0.00100	1	04/19/2021 18:06	WG1654494
Chloroethane	U		0.000192	0.00500	1	04/19/2021 18:06	WG1654494
Chloroform	U		0.000111	0.00500	1	04/19/2021 18:06	WG1654494
Chloromethane	U		0.000960	0.00250	1	04/19/2021 18:06	WG1654494
1,2-Dibromoethane	U		0.000126	0.00100	1	04/19/2021 18:06	WG1654494
1,1-Dichloroethane	U		0.000100	0.00100	1	04/19/2021 18:06	WG1654494
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/19/2021 18:06	WG1654494
1,1-Dichloroethene	U		0.000188	0.00100	1	04/19/2021 18:06	WG1654494
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/19/2021 18:06	WG1654494
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/19/2021 18:06	WG1654494
1,2-Dichloropropane	U		0.000149	0.00100	1	04/19/2021 18:06	WG1654494
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/19/2021 18:06	WG1654494
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/19/2021 18:06	WG1654494
Ethylbenzene	U		0.000137	0.00100	1	04/19/2021 18:06	WG1654494
Isopropylbenzene	U		0.000105	0.00100	1	04/19/2021 18:06	WG1654494
p-Isopropyltoluene	U		0.000120	0.00100	1	04/19/2021 18:06	WG1654494
2-Butanone (MEK)	U		0.00119	0.0100	1	04/19/2021 18:06	WG1654494
2-Hexanone	U		0.000787	0.0100	1	04/19/2021 18:06	WG1654494
Methylene Chloride	U		0.000430	0.00500	1	04/19/2021 18:06	WG1654494
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/19/2021 18:06	WG1654494
Methyl tert-butyl ether	0.0948		0.000101	0.00100	1	04/19/2021 18:06	WG1654494
Naphthalene	U		0.00100	0.00500	1	04/19/2021 18:06	WG1654494
n-Propylbenzene	U		0.0000993	0.00100	1	04/19/2021 18:06	WG1654494
Styrene	U		0.000118	0.00100	1	04/19/2021 18:06	WG1654494
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/19/2021 18:06	WG1654494
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/19/2021 18:06	WG1654494
Tetrachloroethene	U		0.000300	0.00100	1	04/19/2021 18:06	WG1654494
Toluene	U		0.000278	0.00100	1	04/19/2021 18:06	WG1654494
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/19/2021 18:06	WG1654494
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/19/2021 18:06	WG1654494
Trichloroethene	U		0.000190	0.00100	1	04/19/2021 18:06	WG1654494
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/19/2021 18:06	WG1654494
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/19/2021 18:06	WG1654494
Vinyl chloride	U		0.000234	0.00100	1	04/19/2021 18:06	WG1654494
o-Xylene	U		0.000174	0.00100	1	04/19/2021 18:06	WG1654494
m&p-Xylene	U		0.000430	0.00200	1	04/19/2021 18:06	WG1654494
Xylenes, Total	U		0.000174	0.00300	1	04/19/2021 18:06	WG1654494
(S) Toluene-d8	*117*			*80.0-120*		*04/19/2021 18:06*	WG1654494
(S) 4-Bromofluorobenzene	*94.9*			*77.0-126*		*04/19/2021 18:06*	WG1654494
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*04/19/2021 18:06*	WG1654494

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) High Fraction	0.354		0.0247	0.100	1	04/24/2021 17:26	WG1656978
(S) o-Terphenyl	*87.4*			*31.0-160*		*04/24/2021 17:26*	WG1656978

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	6010		50.0	1	04/21/2021 04:12	WG1655622

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	27.8		1.25	2.50	25	04/22/2021 09:38	WG1653923

Wet Chemistry by Method 4500CN E-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Cyanide	U		0.0450	0.125	25	04/26/2021 14:18	WG1657212

Sample Narrative:

L1340062-06 WG1657212: Diluted due to nitrate interference.

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	689		37.9	100	100	04/23/2021 15:23	WG1657191
Fluoride	1.62		0.0640	0.150	1	04/23/2021 15:07	WG1657191
Sulfate	2810		59.4	500	100	04/23/2021 15:23	WG1657191

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	0.000261		0.000100	0.000200	1	04/22/2021 09:24	WG1654191
Mercury,Dissolved	0.000100	J	0.000100	0.000200	1	04/22/2021 14:17	WG1654201

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	0.655		0.0200	0.200	1	04/27/2021 08:01	WG1656878
Boron,Dissolved	0.659		0.0200	0.200	1	04/24/2021 03:53	WG1657951

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00385		0.000180	0.00200	1	04/28/2021 21:51	WG1656912
Arsenic,Dissolved	0.00349		0.000180	0.00200	1	04/27/2021 19:01	WG1656512
Barium	0.00911	J	0.000381	0.0200	1	04/28/2021 21:51	WG1656912
Barium,Dissolved	0.00977	J	0.000381	0.0200	1	04/27/2021 19:01	WG1656512
Cadmium	U		0.000150	0.00100	1	04/28/2021 21:51	WG1656912
Cadmium,Dissolved	U		0.000150	0.00100	1	04/27/2021 19:01	WG1656512
Calcium	625		0.0936	1.00	1	04/28/2021 21:51	WG1656912
Chromium	U		0.00124	0.00200	1	04/28/2021 21:51	WG1656912
Chromium,Dissolved	U		0.00124	0.00200	1	04/27/2021 19:01	WG1656512
Cobalt	0.000147	J	0.0000596	0.00200	1	04/28/2021 21:51	WG1656912
Cobalt,Dissolved	0.000130	J	0.0000596	0.00200	1	04/27/2021 19:01	WG1656512
Iron	U		0.0281	0.100	1	04/28/2021 21:51	WG1656912
Iron,Dissolved	U		0.0281	0.100	1	04/27/2021 19:01	WG1656512
Lead	U		0.000849	0.00200	1	04/28/2021 21:51	WG1656912
Lead,Dissolved	U		0.000849	0.00200	1	04/27/2021 19:01	WG1656512
Manganese	0.00147	J	0.000704	0.00500	1	04/28/2021 21:51	WG1656912

MW-71
Collected date/time: 04/14/21 09:25
L1340062

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Manganese,Dissolved	0.00289	J	0.000704	0.00500	1	04/27/2021 19:01	WG1656512
Nickel	0.00115	J	0.000816	0.00200	1	04/28/2021 21:51	WG1656912
Nickel,Dissolved	0.00180	J	0.000816	0.00200	1	04/27/2021 19:01	WG1656512
Potassium	3.42		0.108	2.00	1	04/28/2021 21:51	WG1656912
Selenium	0.0264		0.000300	0.00200	1	04/29/2021 00:37	WG1656912
Selenium,Dissolved	0.0259		0.000300	0.00200	1	04/27/2021 19:01	WG1656512
Sodium	532		0.376	2.00	1	04/28/2021 21:51	WG1656912
Uranium	0.0666		0.0000700	0.0200	1	04/28/2021 21:51	WG1656912
Uranium,Dissolved	0.0629		0.0000700	0.0200	1	04/27/2021 19:01	WG1656512
Vanadium	0.0242		0.000664	0.00500	1	04/28/2021 21:51	WG1656912
Vanadium,Dissolved	0.0232		0.000664	0.00500	1	04/27/2021 19:01	WG1656512

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U	J3 J4	0.0113	0.0500	1	04/19/2021 18:25	WG1654494
Benzene	U		0.0000941	0.00100	1	04/19/2021 18:25	WG1654494
Bromodichloromethane	U		0.000136	0.00100	1	04/19/2021 18:25	WG1654494
Bromoform	U		0.000129	0.00100	1	04/19/2021 18:25	WG1654494
Bromomethane	U		0.000605	0.00500	1	04/19/2021 18:25	WG1654494
n-Butylbenzene	U		0.000157	0.00100	1	04/19/2021 18:25	WG1654494
sec-Butylbenzene	U		0.000125	0.00100	1	04/19/2021 18:25	WG1654494
Carbon disulfide	U		0.0000962	0.00100	1	04/19/2021 18:25	WG1654494
Carbon tetrachloride	U		0.000128	0.00100	1	04/19/2021 18:25	WG1654494
Chlorobenzene	U		0.000116	0.00100	1	04/19/2021 18:25	WG1654494
Chlorodibromomethane	U		0.000140	0.00100	1	04/19/2021 18:25	WG1654494
Chloroethane	U		0.000192	0.00500	1	04/19/2021 18:25	WG1654494
Chloroform	U		0.000111	0.00500	1	04/19/2021 18:25	WG1654494
Chloromethane	U		0.000960	0.00250	1	04/19/2021 18:25	WG1654494
1,2-Dibromoethane	U		0.000126	0.00100	1	04/19/2021 18:25	WG1654494
1,1-Dichloroethane	U		0.000100	0.00100	1	04/19/2021 18:25	WG1654494
1,2-Dichloroethane	0.000156	J	0.0000819	0.00100	1	04/19/2021 18:25	WG1654494
1,1-Dichloroethene	U		0.000188	0.00100	1	04/19/2021 18:25	WG1654494
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/19/2021 18:25	WG1654494
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/19/2021 18:25	WG1654494
1,2-Dichloropropane	U		0.000149	0.00100	1	04/19/2021 18:25	WG1654494
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/19/2021 18:25	WG1654494
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/19/2021 18:25	WG1654494
Ethylbenzene	U		0.000137	0.00100	1	04/19/2021 18:25	WG1654494
Isopropylbenzene	U		0.000105	0.00100	1	04/19/2021 18:25	WG1654494
p-Isopropyltoluene	U		0.000120	0.00100	1	04/19/2021 18:25	WG1654494
2-Butanone (MEK)	U		0.00119	0.0100	1	04/19/2021 18:25	WG1654494
2-Hexanone	U		0.000787	0.0100	1	04/19/2021 18:25	WG1654494
Methylene Chloride	U		0.000430	0.00500	1	04/19/2021 18:25	WG1654494
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/19/2021 18:25	WG1654494
Methyl tert-butyl ether	0.00706		0.000101	0.00100	1	04/19/2021 18:25	WG1654494
Naphthalene	U		0.00100	0.00500	1	04/19/2021 18:25	WG1654494
n-Propylbenzene	U		0.0000993	0.00100	1	04/19/2021 18:25	WG1654494
Styrene	U		0.000118	0.00100	1	04/19/2021 18:25	WG1654494
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/19/2021 18:25	WG1654494
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/19/2021 18:25	WG1654494
Tetrachloroethene	U		0.000300	0.00100	1	04/19/2021 18:25	WG1654494
Toluene	U		0.000278	0.00100	1	04/19/2021 18:25	WG1654494
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/19/2021 18:25	WG1654494
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/19/2021 18:25	WG1654494
Trichloroethene	U		0.000190	0.00100	1	04/19/2021 18:25	WG1654494

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/19/2021 18:25	WG1654494
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/19/2021 18:25	WG1654494
Vinyl chloride	U		0.000234	0.00100	1	04/19/2021 18:25	WG1654494
o-Xylene	U		0.000174	0.00100	1	04/19/2021 18:25	WG1654494
m&p-Xylene	U		0.000430	0.00200	1	04/19/2021 18:25	WG1654494
Xylenes, Total	U		0.000174	0.00300	1	04/19/2021 18:25	WG1654494
(S) Toluene-d8	*117*			*80.0-120*		*04/19/2021 18:25*	WG1654494
(S) 4-Bromofluorobenzene	*93.7*			*77.0-126*		*04/19/2021 18:25*	WG1654494
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*04/19/2021 18:25*	WG1654494

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) High Fraction	0.0936	J	0.0247	0.100	1	04/24/2021 17:47	WG1656978
(S) o-Terphenyl	*78.4*			*31.0-160*		*04/24/2021 17:47*	WG1656978

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3090		20.0	1	04/21/2021 04:12	WG1655622

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	1.70		0.0500	0.100	1	04/22/2021 09:39	WG1653923

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	244		37.9	100	100	04/23/2021 15:56	WG1657191
Fluoride	1.70		0.0640	0.150	1	04/23/2021 15:40	WG1657191
Sulfate	1520		59.4	500	100	04/23/2021 15:56	WG1657191

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00276		0.000180	0.00200	1	04/28/2021 21:54	WG1656912
Arsenic,Dissolved	0.00263		0.000180	0.00200	1	04/27/2021 19:04	WG1656512
Barium	0.0134	J	0.000381	0.0200	1	04/28/2021 21:54	WG1656912
Barium,Dissolved	0.0138	J	0.000381	0.0200	1	04/27/2021 19:04	WG1656512
Calcium	412		0.0936	1.00	1	04/28/2021 21:54	WG1656912
Chromium	U		0.00124	0.00200	1	04/28/2021 21:54	WG1656912
Chromium,Dissolved	U		0.00124	0.00200	1	04/27/2021 19:04	WG1656512
Iron	0.0401	J	0.0281	0.100	1	04/28/2021 21:54	WG1656912
Iron,Dissolved	U		0.0281	0.100	1	04/27/2021 19:04	WG1656512
Lead	U		0.000849	0.00200	1	04/28/2021 21:54	WG1656912
Lead,Dissolved	U		0.000849	0.00200	1	04/27/2021 19:04	WG1656512
Manganese	0.00543		0.000704	0.00500	1	04/28/2021 21:54	WG1656912
Manganese,Dissolved	U		0.000704	0.00500	1	04/27/2021 19:04	WG1656512
Potassium	5.09		0.108	2.00	1	04/28/2021 21:54	WG1656912
Selenium	0.0224		0.000300	0.00200	1	04/29/2021 00:40	WG1656912
Selenium,Dissolved	0.0210		0.000300	0.00200	1	04/27/2021 19:04	WG1656512
Sodium	235		0.376	2.00	1	04/28/2021 21:54	WG1656912

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U	J3 J4	0.0113	0.0500	1	04/19/2021 18:44	WG1654494
Benzene	U		0.0000941	0.00100	1	04/19/2021 18:44	WG1654494
Bromodichloromethane	U		0.000136	0.00100	1	04/19/2021 18:44	WG1654494
Bromoform	U		0.000129	0.00100	1	04/19/2021 18:44	WG1654494
Bromomethane	U		0.000605	0.00500	1	04/19/2021 18:44	WG1654494
n-Butylbenzene	U		0.000157	0.00100	1	04/19/2021 18:44	WG1654494
sec-Butylbenzene	U		0.000125	0.00100	1	04/19/2021 18:44	WG1654494
Carbon disulfide	U		0.0000962	0.00100	1	04/19/2021 18:44	WG1654494
Carbon tetrachloride	U		0.000128	0.00100	1	04/19/2021 18:44	WG1654494
Chlorobenzene	U		0.000116	0.00100	1	04/19/2021 18:44	WG1654494
Chlorodibromomethane	U		0.000140	0.00100	1	04/19/2021 18:44	WG1654494
Chloroethane	U		0.000192	0.00500	1	04/19/2021 18:44	WG1654494
Chloroform	U		0.000111	0.00500	1	04/19/2021 18:44	WG1654494
Chloromethane	U		0.000960	0.00250	1	04/19/2021 18:44	WG1654494
1,2-Dibromoethane	U		0.000126	0.00100	1	04/19/2021 18:44	WG1654494
1,1-Dichloroethane	U		0.000100	0.00100	1	04/19/2021 18:44	WG1654494

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/19/2021 18:44	WG1654494
1,1-Dichloroethene	U		0.000188	0.00100	1	04/19/2021 18:44	WG1654494
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/19/2021 18:44	WG1654494
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/19/2021 18:44	WG1654494
1,2-Dichloropropane	U		0.000149	0.00100	1	04/19/2021 18:44	WG1654494
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/19/2021 18:44	WG1654494
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/19/2021 18:44	WG1654494
Ethylbenzene	U		0.000137	0.00100	1	04/19/2021 18:44	WG1654494
Isopropylbenzene	U		0.000105	0.00100	1	04/19/2021 18:44	WG1654494
p-Isopropyltoluene	U		0.000120	0.00100	1	04/19/2021 18:44	WG1654494
2-Butanone (MEK)	U		0.00119	0.0100	1	04/19/2021 18:44	WG1654494
2-Hexanone	U		0.000787	0.0100	1	04/19/2021 18:44	WG1654494
Methylene Chloride	U		0.000430	0.00500	1	04/19/2021 18:44	WG1654494
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/19/2021 18:44	WG1654494
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/19/2021 18:44	WG1654494
Naphthalene	U		0.00100	0.00500	1	04/19/2021 18:44	WG1654494
n-Propylbenzene	U		0.0000993	0.00100	1	04/19/2021 18:44	WG1654494
Styrene	U		0.000118	0.00100	1	04/19/2021 18:44	WG1654494
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/19/2021 18:44	WG1654494
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/19/2021 18:44	WG1654494
Tetrachloroethene	U		0.000300	0.00100	1	04/19/2021 18:44	WG1654494
Toluene	U		0.000278	0.00100	1	04/19/2021 18:44	WG1654494
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/19/2021 18:44	WG1654494
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/19/2021 18:44	WG1654494
Trichloroethene	U		0.000190	0.00100	1	04/19/2021 18:44	WG1654494
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/19/2021 18:44	WG1654494
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/19/2021 18:44	WG1654494
Vinyl chloride	U		0.000234	0.00100	1	04/19/2021 18:44	WG1654494
o-Xylene	U		0.000174	0.00100	1	04/19/2021 18:44	WG1654494
m&p-Xylene	U		0.000430	0.00200	1	04/19/2021 18:44	WG1654494
Xylenes, Total	U		0.000174	0.00300	1	04/19/2021 18:44	WG1654494
(S) Toluene-d8	*116*			*80.0-120*		*04/19/2021 18:44*	WG1654494
(S) 4-Bromofluorobenzene	*92.4*			*77.0-126*		*04/19/2021 18:44*	WG1654494
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*04/19/2021 18:44*	WG1654494

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0962	J	0.0247	0.100	1	04/27/2021 06:09	WG1659217
(S) o-Terphenyl	*85.5*			*31.0-160*		*04/27/2021 06:09*	WG1659217

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	3850		20.0	1	04/21/2021 04:12	WG1655622

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.127		0.0500	0.100	1	04/22/2021 09:45	WG1653923

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	203		37.9	100	100	04/23/2021 16:29	WG1657191
Fluoride	1.18		0.0640	0.150	1	04/23/2021 16:12	WG1657191
Sulfate	2100		59.4	500	100	04/23/2021 16:29	WG1657191

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00230		0.000180	0.00200	1	04/28/2021 21:58	WG1656912
Arsenic,Dissolved	0.00203		0.000180	0.00200	1	04/27/2021 19:17	WG1656512
Barium	0.0237		0.000381	0.0200	1	04/28/2021 21:58	WG1656912
Barium,Dissolved	0.0101	J	0.000381	0.0200	1	04/27/2021 19:17	WG1656512
Calcium	596		0.0936	1.00	1	04/28/2021 21:58	WG1656912
Chromium	0.00246		0.00124	0.00200	1	04/28/2021 21:58	WG1656912
Chromium,Dissolved	U		0.00124	0.00200	1	04/27/2021 19:17	WG1656512
Iron	0.961		0.0281	0.100	1	04/28/2021 21:58	WG1656912
Iron,Dissolved	U		0.0281	0.100	1	04/27/2021 19:17	WG1656512
Lead	0.00132	J	0.000849	0.00200	1	04/28/2021 21:58	WG1656912
Lead,Dissolved	U		0.000849	0.00200	1	04/27/2021 19:17	WG1656512
Manganese	0.0628		0.000704	0.00500	1	04/28/2021 21:58	WG1656912
Manganese,Dissolved	0.0514		0.000704	0.00500	1	04/27/2021 19:17	WG1656512
Potassium	0.838	J	0.108	2.00	1	04/28/2021 21:58	WG1656912
Selenium	0.00148	J	0.000300	0.00200	1	04/28/2021 21:58	WG1656912
Selenium,Dissolved	0.000559	J	0.000300	0.00200	1	04/27/2021 19:17	WG1656512
Sodium	179		0.376	2.00	1	04/28/2021 21:58	WG1656912

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U	J3 J4	0.0113	0.0500	1	04/19/2021 19:03	WG1654494
Benzene	U		0.0000941	0.00100	1	04/19/2021 19:03	WG1654494
Bromodichloromethane	U		0.000136	0.00100	1	04/19/2021 19:03	WG1654494
Bromoform	U		0.000129	0.00100	1	04/19/2021 19:03	WG1654494
Bromomethane	U		0.000605	0.00500	1	04/19/2021 19:03	WG1654494
n-Butylbenzene	U		0.000157	0.00100	1	04/19/2021 19:03	WG1654494
sec-Butylbenzene	U		0.000125	0.00100	1	04/19/2021 19:03	WG1654494
Carbon disulfide	U		0.0000962	0.00100	1	04/19/2021 19:03	WG1654494
Carbon tetrachloride	U		0.000128	0.00100	1	04/19/2021 19:03	WG1654494
Chlorobenzene	U		0.000116	0.00100	1	04/19/2021 19:03	WG1654494
Chlorodibromomethane	U		0.000140	0.00100	1	04/19/2021 19:03	WG1654494
Chloroethane	U		0.000192	0.00500	1	04/19/2021 19:03	WG1654494
Chloroform	U		0.000111	0.00500	1	04/19/2021 19:03	WG1654494
Chloromethane	U		0.000960	0.00250	1	04/19/2021 19:03	WG1654494
1,2-Dibromoethane	U		0.000126	0.00100	1	04/19/2021 19:03	WG1654494
1,1-Dichloroethane	U		0.000100	0.00100	1	04/19/2021 19:03	WG1654494

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/19/2021 19:03	WG1654494
1,1-Dichloroethene	U		0.000188	0.00100	1	04/19/2021 19:03	WG1654494
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/19/2021 19:03	WG1654494
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/19/2021 19:03	WG1654494
1,2-Dichloropropane	U		0.000149	0.00100	1	04/19/2021 19:03	WG1654494
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/19/2021 19:03	WG1654494
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/19/2021 19:03	WG1654494
Ethylbenzene	U		0.000137	0.00100	1	04/19/2021 19:03	WG1654494
Isopropylbenzene	U		0.000105	0.00100	1	04/19/2021 19:03	WG1654494
p-Isopropyltoluene	U		0.000120	0.00100	1	04/19/2021 19:03	WG1654494
2-Butanone (MEK)	U		0.00119	0.0100	1	04/19/2021 19:03	WG1654494
2-Hexanone	U		0.000787	0.0100	1	04/19/2021 19:03	WG1654494
Methylene Chloride	U		0.000430	0.00500	1	04/19/2021 19:03	WG1654494
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/19/2021 19:03	WG1654494
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/19/2021 19:03	WG1654494
Naphthalene	U		0.00100	0.00500	1	04/19/2021 19:03	WG1654494
n-Propylbenzene	U		0.0000993	0.00100	1	04/19/2021 19:03	WG1654494
Styrene	U		0.000118	0.00100	1	04/19/2021 19:03	WG1654494
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/19/2021 19:03	WG1654494
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/19/2021 19:03	WG1654494
Tetrachloroethene	U		0.000300	0.00100	1	04/19/2021 19:03	WG1654494
Toluene	U		0.000278	0.00100	1	04/19/2021 19:03	WG1654494
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/19/2021 19:03	WG1654494
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/19/2021 19:03	WG1654494
Trichloroethene	U		0.000190	0.00100	1	04/19/2021 19:03	WG1654494
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/19/2021 19:03	WG1654494
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/19/2021 19:03	WG1654494
Vinyl chloride	U		0.000234	0.00100	1	04/19/2021 19:03	WG1654494
o-Xylene	U		0.000174	0.00100	1	04/19/2021 19:03	WG1654494
m&p-Xylene	U		0.000430	0.00200	1	04/19/2021 19:03	WG1654494
Xylenes, Total	U		0.000174	0.00300	1	04/19/2021 19:03	WG1654494
(S) Toluene-d8	*118*			*80.0-120*		*04/19/2021 19:03*	WG1654494
(S) 4-Bromofluorobenzene	*95.4*			*77.0-126*		*04/19/2021 19:03*	WG1654494
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*04/19/2021 19:03*	WG1654494

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.217		0.0247	0.100	1	04/27/2021 06:29	WG1659217
(S) o-Terphenyl	*78.5*			*31.0-160*		*04/27/2021 06:29*	WG1659217

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U	J3 J4	0.0113	0.0500	1	04/19/2021 16:12	WG1654494
Benzene	U		0.0000941	0.00100	1	04/19/2021 16:12	WG1654494
Bromodichloromethane	U		0.000136	0.00100	1	04/19/2021 16:12	WG1654494
Bromoform	U		0.000129	0.00100	1	04/19/2021 16:12	WG1654494
Bromomethane	U		0.000605	0.00500	1	04/19/2021 16:12	WG1654494
n-Butylbenzene	U		0.000157	0.00100	1	04/19/2021 16:12	WG1654494
sec-Butylbenzene	U		0.000125	0.00100	1	04/19/2021 16:12	WG1654494
Carbon disulfide	U		0.0000962	0.00100	1	04/19/2021 16:12	WG1654494
Carbon tetrachloride	U		0.000128	0.00100	1	04/19/2021 16:12	WG1654494
Chlorobenzene	U		0.000116	0.00100	1	04/19/2021 16:12	WG1654494
Chlorodibromomethane	U		0.000140	0.00100	1	04/19/2021 16:12	WG1654494
Chloroethane	U		0.000192	0.00500	1	04/19/2021 16:12	WG1654494
Chloroform	U		0.000111	0.00500	1	04/19/2021 16:12	WG1654494
Chloromethane	U		0.000960	0.00250	1	04/19/2021 16:12	WG1654494
1,2-Dibromoethane	U		0.000126	0.00100	1	04/19/2021 16:12	WG1654494
1,1-Dichloroethane	U		0.000100	0.00100	1	04/19/2021 16:12	WG1654494
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/19/2021 16:12	WG1654494
1,1-Dichloroethene	U		0.000188	0.00100	1	04/19/2021 16:12	WG1654494
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/19/2021 16:12	WG1654494
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/19/2021 16:12	WG1654494
1,2-Dichloropropane	U		0.000149	0.00100	1	04/19/2021 16:12	WG1654494
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/19/2021 16:12	WG1654494
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/19/2021 16:12	WG1654494
Ethylbenzene	U		0.000137	0.00100	1	04/19/2021 16:12	WG1654494
Isopropylbenzene	U		0.000105	0.00100	1	04/19/2021 16:12	WG1654494
p-Isopropyltoluene	U		0.000120	0.00100	1	04/19/2021 16:12	WG1654494
2-Butanone (MEK)	U		0.00119	0.0100	1	04/19/2021 16:12	WG1654494
2-Hexanone	U		0.000787	0.0100	1	04/19/2021 16:12	WG1654494
Methylene Chloride	U		0.000430	0.00500	1	04/19/2021 16:12	WG1654494
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/19/2021 16:12	WG1654494
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/19/2021 16:12	WG1654494
Naphthalene	U		0.00100	0.00500	1	04/19/2021 16:12	WG1654494
n-Propylbenzene	U		0.0000993	0.00100	1	04/19/2021 16:12	WG1654494
Styrene	U		0.000118	0.00100	1	04/19/2021 16:12	WG1654494
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/19/2021 16:12	WG1654494
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/19/2021 16:12	WG1654494
Tetrachloroethene	U		0.000300	0.00100	1	04/19/2021 16:12	WG1654494
Toluene	U		0.000278	0.00100	1	04/19/2021 16:12	WG1654494
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/19/2021 16:12	WG1654494
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/19/2021 16:12	WG1654494
Trichloroethene	U		0.000190	0.00100	1	04/19/2021 16:12	WG1654494
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/19/2021 16:12	WG1654494
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/19/2021 16:12	WG1654494
Vinyl chloride	U		0.000234	0.00100	1	04/19/2021 16:12	WG1654494
o-Xylene	U		0.000174	0.00100	1	04/19/2021 16:12	WG1654494
m&p-Xylene	U		0.000430	0.00200	1	04/19/2021 16:12	WG1654494
Xylenes, Total	U		0.000174	0.00300	1	04/19/2021 16:12	WG1654494
(S) Toluene-d8	*119*			*80.0-120*		*04/19/2021 16:12*	WG1654494
(S) 4-Bromofluorobenzene	*96.3*			*77.0-126*		*04/19/2021 16:12*	WG1654494
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*04/19/2021 16:12*	WG1654494

Method Blank (MB)

(MB) R3645405-1 04/21/21 04:12

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1340127-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1340127-03 04/21/21 04:12 • (DUP) R3645405-3 04/21/21 04:12

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	2530	2580	1	1.64		5

L1340127-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1340127-13 04/21/21 04:12 • (DUP) R3645405-4 04/21/21 04:12

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	2960	2960	1	0.0675		5

Laboratory Control Sample (LCS)

(LCS) R3645405-2 04/21/21 04:12

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8870	101	77.4-123	

Method Blank (MB)

(MB) R3645024-1 04/22/21 09:11

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Nitrate-Nitrite	U		0.0500	0.100

L1340062-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1340062-01 04/22/21 09:32 • (DUP) R3645024-4 04/22/21 09:33

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate-Nitrite	3.60	3.54	1	1.68		20

L1340442-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1340442-05 04/22/21 09:51 • (DUP) R3645024-7 04/22/21 09:52

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate-Nitrite	3.70	3.72	1	0.539		20

Laboratory Control Sample (LCS)

(LCS) R3645024-2 04/22/21 09:13

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Nitrate-Nitrite	2.50	2.72	109	90.0-110	

L1340049-08 Original Sample (OS) • Matrix Spike (MS)

(OS) L1340049-08 04/22/21 09:29 • (MS) R3645024-3 04/22/21 09:30

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Nitrate-Nitrite	2.50	6.75	10.2	140	5	90.0-110	J5

L1340242-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1340242-02 04/22/21 09:47 • (MS) R3645024-5 04/22/21 09:48 • (MSD) R3645024-6 04/22/21 09:50

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Nitrate-Nitrite	2.50	1.23	3.47	3.51	89.6	91.2	1	90.0-110	J6		1.15	20

Method Blank (MB)

(MB) R3646710-1 04/26/21 14:04

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Cyanide	U		0.00180	0.00500

L1338910-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1338910-04 04/26/21 14:11 • (DUP) R3646710-5 04/26/21 14:12

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	U	U	1	0.000		20

L1340140-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1340140-01 04/26/21 14:32 • (DUP) R3646710-8 04/26/21 14:33

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	0.00326	0.00321	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3646710-2 04/26/21 14:05

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Cyanide	0.100	0.102	102	87.1-120	

L1338910-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1338910-02 04/26/21 14:08 • (MS) R3646710-3 04/26/21 14:09 • (MSD) R3646710-4 04/26/21 14:10

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Cyanide	0.100	U	0.0947	0.0905	94.7	90.5	1	90.0-110			4.54	20

L1340127-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1340127-03 04/26/21 14:25 • (MS) R3646710-6 04/26/21 14:26 • (MSD) R3646710-7 04/26/21 14:29

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Cyanide	0.100	U	0.0982	0.0975	98.2	97.5	1	90.0-110			0.715	20

Method Blank (MB)

(MB) R3646146-1 04/23/21 00:32

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.379	1.00
Fluoride	U		0.0640	0.150
Sulfate	U		0.594	5.00

L1340036-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1340036-01 04/23/21 04:59 • (DUP) R3646146-3 04/23/21 05:16

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Fluoride	1.24	1.25	1	1.29		15

L1340036-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1340036-01 04/23/21 05:49 • (DUP) R3646146-5 04/23/21 06:05

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	395	398	10	0.711		15
Sulfate	383	383	10	0.126		15

L1340049-28 Original Sample (OS) • Duplicate (DUP)

(OS) L1340049-28 04/23/21 10:44 • (DUP) R3646146-6 04/23/21 11:33

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	0.456	0.454	1	0.439	J	15
Fluoride	U	U	1	0.000		15
Sulfate	U	U	1	0.000		15

Laboratory Control Sample (LCS)

(LCS) R3646146-2 04/23/21 00:48

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	38.4	96.1	80.0-120	
Fluoride	8.00	7.91	98.9	80.0-120	
Sulfate	40.0	38.6	96.6	80.0-120	

L1340036-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1340036-01 04/23/21 04:59 • (MS) R3646146-4 04/23/21 05:32

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	404	432	56.9	1	80.0-120	E V
Fluoride	5.00	1.24	5.92	93.6	1	80.0-120	
Sulfate	50.0	392	422	60.2	1	80.0-120	E V

L1340049-28 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1340049-28 04/23/21 10:44 • (MS) R3646146-7 04/23/21 11:50 • (MSD) R3646146-8 04/23/21 12:06

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50.0	0.456	49.4	49.4	97.8	97.9	1	80.0-120			0.131	15
Fluoride	5.00	U	4.97	4.98	99.4	99.5	1	80.0-120			0.109	15
Sulfate	50.0	U	49.0	49.1	98.0	98.1	1	80.0-120			0.0779	15

Method Blank (MB)

(MB) R3645080-1 04/22/21 08:37

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury	U		0.000100	0.000200

Laboratory Control Sample (LCS)

(LCS) R3645080-2 04/22/21 08:39

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.00300	0.00308	103	80.0-120	

L1340083-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1340083-04 04/22/21 08:41 • (MS) R3645080-3 04/22/21 08:43 • (MSD) R3645080-4 04/22/21 08:45

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.00300	U	0.00313	0.00309	104	103	1	75.0-125			1.36	20

Method Blank (MB)

(MB) R3645286-1 04/22/21 13:51

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury,Dissolved	U		0.000100	0.000200

Laboratory Control Sample (LCS)

(LCS) R3645286-2 04/22/21 13:53

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury,Dissolved	0.00300	0.00320	107	80.0-120	

L1340241-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1340241-03 04/22/21 13:55 • (MS) R3645286-3 04/22/21 13:57 • (MSD) R3645286-4 04/22/21 13:59

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury,Dissolved	0.00300	U	0.00315	0.00315	105	105	1	75.0-125			0.0349	20

Method Blank (MB)

(MB) R3647120-1 04/27/21 07:44

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Boron	U		0.0200	0.200

Laboratory Control Sample (LCS)

(LCS) R3647120-2 04/27/21 07:46

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron	1.00	0.949	94.9	80.0-120	

L1339869-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339869-09 04/27/21 07:49 • (MS) R3647120-4 04/27/21 07:55 • (MSD) R3647120-5 04/27/21 07:57

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Boron	1.00	U	0.944	0.970	94.4	97.0	1	75.0-125			2.70	20

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Method Blank (MB)

(MB) R3646079-1 04/24/21 03:15

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Boron,Dissolved	U		0.0200	0.200

Laboratory Control Sample (LCS)

(LCS) R3646079-2 04/24/21 03:18

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron,Dissolved	1.00	0.961	96.1	80.0-120	

L1340719-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1340719-01 04/24/21 03:21 • (MS) R3646079-4 04/24/21 03:26 • (MSD) R3646079-5 04/24/21 03:29

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Boron,Dissolved	1.00	0.0452	1.02	1.02	97.0	97.5	1	75.0-125			0.492	20

Method Blank (MB)

(MB) R3647311-1 04/27/21 18:33

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic,Dissolved	U		0.000180	0.00200
Barium,Dissolved	U		0.000381	0.0200
Cadmium,Dissolved	U		0.000150	0.00100
Chromium,Dissolved	U		0.00124	0.00200
Cobalt,Dissolved	U		0.0000596	0.00200
Iron,Dissolved	U		0.0281	0.100
Lead,Dissolved	U		0.000849	0.00200
Manganese,Dissolved	U		0.000704	0.00500
Nickel,Dissolved	U		0.000816	0.00200
Selenium,Dissolved	U		0.000300	0.00200
Uranium,Dissolved	U		0.0000700	0.0200
Vanadium,Dissolved	U		0.000664	0.00500

Laboratory Control Sample (LCS)

(LCS) R3647311-2 04/27/21 18:37

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic,Dissolved	0.0500	0.0522	104	80.0-120	
Barium,Dissolved	0.0500	0.0494	98.9	80.0-120	
Cadmium,Dissolved	0.0500	0.0516	103	80.0-120	
Chromium,Dissolved	0.0500	0.0530	106	80.0-120	
Cobalt,Dissolved	0.0500	0.0541	108	80.0-120	
Iron,Dissolved	5.00	5.44	109	80.0-120	
Lead,Dissolved	0.0500	0.0500	99.9	80.0-120	
Manganese,Dissolved	0.0500	0.0526	105	80.0-120	
Nickel,Dissolved	0.0500	0.0535	107	80.0-120	
Selenium,Dissolved	0.0500	0.0502	100	80.0-120	
Uranium,Dissolved	0.0500	0.0458	91.5	80.0-120	
Vanadium,Dissolved	0.0500	0.0511	102	80.0-120	

L1340062-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1340062-01 04/27/21 18:40 • (MS) R3647311-4 04/27/21 18:47 • (MSD) R3647311-5 04/27/21 18:51

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic,Dissolved	0.0500	0.00525	0.0554	0.0573	100	104	1	75.0-125			3.33	20
Barium,Dissolved	0.0500	0.0110	0.0655	0.0665	109	111	1	75.0-125			1.48	20
Cadmium,Dissolved	0.0500	U	0.0522	0.0519	104	104	1	75.0-125			0.602	20

L1340062-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1340062-01 04/27/21 18:40 • (MS) R3647311-4 04/27/21 18:47 • (MSD) R3647311-5 04/27/21 18:51

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chromium,Dissolved	0.0500	U	0.0503	0.0512	101	102	1	75.0-125			1.89	20
Cobalt,Dissolved	0.0500	0.00127	0.0504	0.0516	98.3	101	1	75.0-125			2.30	20
Iron,Dissolved	5.00	U	5.46	5.36	109	107	1	75.0-125			1.85	20
Lead,Dissolved	0.0500	U	0.0499	0.0494	99.7	98.8	1	75.0-125			0.943	20
Manganese,Dissolved	0.0500	0.00620	0.0559	0.0557	99.5	98.9	1	75.0-125			0.467	20
Nickel,Dissolved	0.0500	0.00351	0.0515	0.0540	95.9	101	1	75.0-125			4.76	20
Selenium,Dissolved	0.0500	0.00663	0.0563	0.0582	99.4	103	1	75.0-125			3.33	20
Uranium,Dissolved	0.0500	0.0422	0.0894	0.0899	94.2	95.3	1	75.0-125			0.579	20
Vanadium,Dissolved	0.0500	0.0387	0.0874	0.0899	97.3	102	1	75.0-125			2.80	20

Method Blank (MB)

(MB) R3647934-1 04/28/21 19:16

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic	U		0.000180	0.00200
Barium	U		0.000381	0.0200
Cadmium	U		0.000150	0.00100
Calcium	U		0.0936	1.00
Chromium	U		0.00124	0.00200
Cobalt	U		0.0000596	0.00200
Iron	U		0.0281	0.100
Lead	U		0.000849	0.00200
Manganese	U		0.000704	0.00500
Nickel	U		0.000816	0.00200
Potassium	U		0.108	2.00
Selenium	U		0.000300	0.00200
Sodium	U		0.376	2.00
Uranium	U		0.0000700	0.0200
Vanadium	U		0.000664	0.00500

Laboratory Control Sample (LCS)

(LCS) R3647934-5 04/28/21 20:11

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	0.0500	0.0492	98.4	80.0-120	
Barium	0.0500	0.0484	96.7	80.0-120	
Cadmium	0.0500	0.0499	99.9	80.0-120	
Calcium	5.00	5.14	103	80.0-120	
Chromium	0.0500	0.0506	101	80.0-120	
Cobalt	0.0500	0.0493	98.7	80.0-120	
Iron	5.00	4.95	98.9	80.0-120	
Lead	0.0500	0.0475	94.9	80.0-120	
Manganese	0.0500	0.0490	98.0	80.0-120	
Nickel	0.0500	0.0508	102	80.0-120	
Potassium	5.00	5.12	102	80.0-120	
Selenium	0.0500	0.0525	105	80.0-120	
Sodium	5.00	5.02	100	80.0-120	
Uranium	0.0500	0.0454	90.8	80.0-120	
Vanadium	0.0500	0.0484	96.8	80.0-120	

L1340065-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1340065-06 04/28/21 19:23 • (MS) R3647934-3 04/28/21 19:30 • (MSD) R3647934-4 04/28/21 19:33

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	0.0500	0.00113	0.0506	0.0488	99.0	95.4	1	75.0-125			3.63	20
Barium	0.0500	0.0297	0.0832	0.0797	107	99.9	1	75.0-125			4.36	20
Cadmium	0.0500	U	0.0536	0.0538	107	108	1	75.0-125			0.392	20
Calcium	5.00	40.6	45.5	44.9	97.6	85.7	1	75.0-125			1.31	20
Chromium	0.0500	0.00270	0.0534	0.0521	101	98.8	1	75.0-125			2.48	20
Cobalt	0.0500	0.00568	0.0564	0.0544	101	97.4	1	75.0-125			3.54	20
Potassium	5.00	0.318	5.28	5.21	99.3	97.9	1	75.0-125			1.32	20
Iron	5.00	4.25	9.48	9.21	105	99.2	1	75.0-125			2.85	20
Lead	0.0500	U	0.0506	0.0506	101	101	1	75.0-125			0.0294	20
Manganese	0.0500	3.15	3.29	3.23	284	168	1	75.0-125	V	V	1.78	20
Nickel	0.0500	0.00391	0.0550	0.0525	102	97.1	1	75.0-125			4.74	20
Selenium	0.0500	U	0.0525	0.0519	105	104	1	75.0-125			1.21	20
Sodium	5.00	113	120	119	133	114	1	75.0-125	V		0.806	20
Uranium	0.0500	0.000445	0.0503	0.0490	99.6	97.1	1	75.0-125			2.55	20
Vanadium	0.0500	0.00135	0.0514	0.0492	100	95.8	1	75.0-125			4.22	20

Method Blank (MB)

(MB) R3646155-2 04/23/21 19:46

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*100*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R3646155-1 04/23/21 19:03

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	4.93	89.6	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*110*	*78.0-120*	

Method Blank (MB)

(MB) R3644834-2 04/19/21 19:14

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0113	0.0500
Benzene	U		0.0000941	0.00100
Bromodichloromethane	U		0.000136	0.00100
Bromoform	U		0.000129	0.00100
Bromomethane	U		0.000605	0.00500
n-Butylbenzene	U		0.000157	0.00100
sec-Butylbenzene	U		0.000125	0.00100
Carbon disulfide	U		0.0000962	0.00100
Carbon tetrachloride	U		0.000128	0.00100
Chlorobenzene	U		0.000116	0.00100
Chlorodibromomethane	U		0.000140	0.00100
Chloroethane	U		0.000192	0.00500
Chloroform	U		0.000111	0.00500
Chloromethane	U		0.000960	0.00250
1,2-Dibromoethane	U		0.000126	0.00100
1,1-Dichloroethane	U		0.000100	0.00100
1,2-Dichloroethane	U		0.0000819	0.00100
1,1-Dichloroethene	U		0.000188	0.00100
cis-1,2-Dichloroethene	U		0.000126	0.00100
trans-1,2-Dichloroethene	U		0.000149	0.00100
1,2-Dichloropropane	U		0.000149	0.00100
cis-1,3-Dichloropropene	U		0.000111	0.00100
trans-1,3-Dichloropropene	U		0.000118	0.00100
Ethylbenzene	U		0.000137	0.00100
2-Hexanone	U		0.000787	0.0100
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
Methylene Chloride	U		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100
Methyl tert-butyl ether	U		0.000101	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.0000993	0.00100
Styrene	U		0.000118	0.00100
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100
Tetrachloroethene	U		0.000300	0.00100
Toluene	U		0.000278	0.00100
1,1,1-Trichloroethane	U		0.000149	0.00100
1,1,2-Trichloroethane	U		0.000158	0.00100

Method Blank (MB)

(MB) R3644834-2 04/19/21 19:14

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Trichloroethene	U		0.000190	0.00100
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
Vinyl chloride	U		0.000234	0.00100
Xylenes, Total	U		0.000174	0.00300
o-Xylene	U		0.000174	0.00100
m&p-Xylenes	U		0.000430	0.00200
(S) Toluene-d8	*116*			*80.0-120*
(S) 4-Bromofluorobenzene	*93.1*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*93.0*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3644834-1 04/19/21 18:32

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.0250	0.0218	87.2	19.0-160	
Benzene	0.00500	0.00513	103	70.0-123	
Bromodichloromethane	0.00500	0.00483	96.6	75.0-120	
Bromoform	0.00500	0.00499	99.8	68.0-132	
Bromomethane	0.00500	0.00555	111	10.0-160	
n-Butylbenzene	0.00500	0.00471	94.2	73.0-125	
sec-Butylbenzene	0.00500	0.00522	104	75.0-125	
Carbon disulfide	0.00500	0.00537	107	61.0-128	
Carbon tetrachloride	0.00500	0.00546	109	68.0-126	
Chlorobenzene	0.00500	0.00547	109	80.0-121	
Chlorodibromomethane	0.00500	0.00482	96.4	77.0-125	
Chloroethane	0.00500	0.00522	104	47.0-150	
Chloroform	0.00500	0.00540	108	73.0-120	
Chloromethane	0.00500	0.00521	104	41.0-142	
1,2-Dibromoethane	0.00500	0.00519	104	80.0-122	
1,1-Dichloroethane	0.00500	0.00533	107	70.0-126	
1,2-Dichloroethane	0.00500	0.00499	99.8	70.0-128	
1,1-Dichloroethene	0.00500	0.00489	97.8	71.0-124	
cis-1,2-Dichloroethene	0.00500	0.00481	96.2	73.0-120	
trans-1,2-Dichloroethene	0.00500	0.00511	102	73.0-120	
1,2-Dichloropropane	0.00500	0.00516	103	77.0-125	
cis-1,3-Dichloropropene	0.00500	0.00484	96.8	80.0-123	
trans-1,3-Dichloropropene	0.00500	0.00474	94.8	78.0-124	

Laboratory Control Sample (LCS)

(LCS) R3644834-1 04/19/21 18:32

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ethylbenzene	0.00500	0.00541	108	79.0-123	
2-Hexanone	0.0250	0.0249	99.6	67.0-149	
Isopropylbenzene	0.00500	0.00518	104	76.0-127	
p-Isopropyltoluene	0.00500	0.00533	107	76.0-125	
2-Butanone (MEK)	0.0250	0.0238	95.2	44.0-160	
Methylene Chloride	0.00500	0.00454	90.8	67.0-120	
4-Methyl-2-pentanone (MIBK)	0.0250	0.0254	102	68.0-142	
Methyl tert-butyl ether	0.00500	0.00488	97.6	68.0-125	
Naphthalene	0.00500	0.00612	122	54.0-135	
n-Propylbenzene	0.00500	0.00538	108	77.0-124	
Styrene	0.00500	0.00535	107	73.0-130	
1,1,1,2-Tetrachloroethane	0.00500	0.00492	98.4	75.0-125	
1,1,2,2-Tetrachloroethane	0.00500	0.00547	109	65.0-130	
Tetrachloroethene	0.00500	0.00609	122	72.0-132	
Toluene	0.00500	0.00542	108	79.0-120	
1,1,1-Trichloroethane	0.00500	0.00501	100	73.0-124	
1,1,2-Trichloroethane	0.00500	0.00518	104	80.0-120	
Trichloroethene	0.00500	0.00570	114	78.0-124	
1,2,4-Trimethylbenzene	0.00500	0.00525	105	76.0-121	
1,3,5-Trimethylbenzene	0.00500	0.00531	106	76.0-122	
Vinyl chloride	0.00500	0.00571	114	67.0-131	
Xylenes, Total	0.0150	0.0163	109	79.0-123	
o-Xylene	0.00500	0.00519	104	80.0-122	
m&p-Xylenes	0.0100	0.0111	111	80.0-122	
(S) Toluene-d8			*108*	*80.0-120*	
(S) 4-Bromofluorobenzene			*98.1*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*97.6*	*70.0-130*	

Method Blank (MB)

(MB) R3645646-3 04/19/21 10:59

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0113	0.0500
Benzene	U		0.0000941	0.00100
Bromodichloromethane	U		0.000136	0.00100
Bromoform	U		0.000129	0.00100
Bromomethane	U		0.000605	0.00500
n-Butylbenzene	U		0.000157	0.00100
sec-Butylbenzene	U		0.000125	0.00100
Carbon disulfide	U		0.0000962	0.00100
Carbon tetrachloride	U		0.000128	0.00100
Chlorobenzene	U		0.000116	0.00100
Chlorodibromomethane	U		0.000140	0.00100
Chloroethane	U		0.000192	0.00500
Chloroform	U		0.000111	0.00500
Chloromethane	U		0.000960	0.00250
1,2-Dibromoethane	U		0.000126	0.00100
1,1-Dichloroethane	U		0.000100	0.00100
1,2-Dichloroethane	U		0.0000819	0.00100
1,1-Dichloroethene	U		0.000188	0.00100
cis-1,2-Dichloroethene	U		0.000126	0.00100
trans-1,2-Dichloroethene	U		0.000149	0.00100
1,2-Dichloropropane	U		0.000149	0.00100
cis-1,3-Dichloropropene	U		0.000111	0.00100
trans-1,3-Dichloropropene	U		0.000118	0.00100
Ethylbenzene	U		0.000137	0.00100
2-Hexanone	U		0.000787	0.0100
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
Methylene Chloride	U		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100
Methyl tert-butyl ether	U		0.000101	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.0000993	0.00100
Styrene	U		0.000118	0.00100
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100
Tetrachloroethene	U		0.000300	0.00100
Toluene	U		0.000278	0.00100
1,1,1-Trichloroethane	U		0.000149	0.00100
1,1,2-Trichloroethane	U		0.000158	0.00100

Method Blank (MB)

(MB) R3645646-3 04/19/21 10:59

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Trichloroethene	U		0.000190	0.00100
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
Vinyl chloride	U		0.000234	0.00100
Xylenes, Total	U		0.000174	0.00300
o-Xylene	U		0.000174	0.00100
m&p-Xylenes	U		0.000430	0.00200
(S) Toluene-d8	*118*			*80.0-120*
(S) 4-Bromofluorobenzene	*94.3*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3645646-1 04/19/21 10:02 • (LCSD) R3645646-2 04/19/21 10:21

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.0250	0.0291	0.0406	116	162	19.0-160		J3 J4	33.0	27
Benzene	0.00500	0.00452	0.00465	90.4	93.0	70.0-123			2.84	20
Bromodichloromethane	0.00500	0.00447	0.00454	89.4	90.8	75.0-120			1.55	20
Bromoform	0.00500	0.00496	0.00512	99.2	102	68.0-132			3.17	20
Bromomethane	0.00500	0.00495	0.00520	99.0	104	10.0-160			4.93	25
n-Butylbenzene	0.00500	0.00518	0.00532	104	106	73.0-125			2.67	20
sec-Butylbenzene	0.00500	0.00517	0.00530	103	106	75.0-125			2.48	20
Carbon disulfide	0.00500	0.00458	0.00468	91.6	93.6	61.0-128			2.16	20
Carbon tetrachloride	0.00500	0.00539	0.00535	108	107	68.0-126			0.745	20
Chlorobenzene	0.00500	0.00534	0.00530	107	106	80.0-121			0.752	20
Chlorodibromomethane	0.00500	0.00529	0.00534	106	107	77.0-125			0.941	20
Chloroethane	0.00500	0.00534	0.00555	107	111	47.0-150			3.86	20
Chloroform	0.00500	0.00458	0.00456	91.6	91.2	73.0-120			0.438	20
Chloromethane	0.00500	0.00513	0.00528	103	106	41.0-142			2.88	20
1,2-Dibromoethane	0.00500	0.00545	0.00536	109	107	80.0-122			1.67	20
1,1-Dichloroethane	0.00500	0.00448	0.00446	89.6	89.2	70.0-126			0.447	20
1,2-Dichloroethane	0.00500	0.00451	0.00455	90.2	91.0	70.0-128			0.883	20
1,1-Dichloroethene	0.00500	0.00472	0.00471	94.4	94.2	71.0-124			0.212	20
cis-1,2-Dichloroethene	0.00500	0.00484	0.00486	96.8	97.2	73.0-120			0.412	20
trans-1,2-Dichloroethene	0.00500	0.00484	0.00481	96.8	96.2	73.0-120			0.622	20
1,2-Dichloropropane	0.00500	0.00474	0.00484	94.8	96.8	77.0-125			2.09	20
cis-1,3-Dichloropropene	0.00500	0.00445	0.00448	89.0	89.6	80.0-123			0.672	20
trans-1,3-Dichloropropene	0.00500	0.00490	0.00486	98.0	97.2	78.0-124			0.820	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3645646-1 04/19/21 10:02 • (LCSD) R3645646-2 04/19/21 10:21

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethylbenzene	0.00500	0.00556	0.00550	111	110	79.0-123			1.08	20
2-Hexanone	0.0250	0.0282	0.0282	113	113	67.0-149			0.000	20
Isopropylbenzene	0.00500	0.00512	0.00519	102	104	76.0-127			1.36	20
p-Isopropyltoluene	0.00500	0.00531	0.00538	106	108	76.0-125			1.31	20
2-Butanone (MEK)	0.0250	0.0286	0.0302	114	121	44.0-160			5.44	20
Methylene Chloride	0.00500	0.00433	0.00426	86.6	85.2	67.0-120			1.63	20
4-Methyl-2-pentanone (MIBK)	0.0250	0.0306	0.0308	122	123	68.0-142			0.651	20
Methyl tert-butyl ether	0.00500	0.00529	0.00555	106	111	68.0-125			4.80	20
Naphthalene	0.00500	0.00518	0.00515	104	103	54.0-135			0.581	20
n-Propylbenzene	0.00500	0.00540	0.00540	108	108	77.0-124			0.000	20
Styrene	0.00500	0.00508	0.00510	102	102	73.0-130			0.393	20
1,1,1,2-Tetrachloroethane	0.00500	0.00542	0.00538	108	108	75.0-125			0.741	20
1,1,2,2-Tetrachloroethane	0.00500	0.00540	0.00541	108	108	65.0-130			0.185	20
Tetrachloroethene	0.00500	0.00597	0.00574	119	115	72.0-132			3.93	20
Toluene	0.00500	0.00571	0.00560	114	112	79.0-120			1.95	20
1,1,1-Trichloroethane	0.00500	0.00472	0.00487	94.4	97.4	73.0-124			3.13	20
1,1,2-Trichloroethane	0.00500	0.00506	0.00516	101	103	80.0-120			1.96	20
Trichloroethene	0.00500	0.00480	0.00477	96.0	95.4	78.0-124			0.627	20
1,2,4-Trimethylbenzene	0.00500	0.00518	0.00519	104	104	76.0-121			0.193	20
1,3,5-Trimethylbenzene	0.00500	0.00511	0.00523	102	105	76.0-122			2.32	20
Vinyl chloride	0.00500	0.00470	0.00453	94.0	90.6	67.0-131			3.68	20
Xylenes, Total	0.0150	0.0160	0.0161	107	107	79.0-123			0.623	20
o-Xylene	0.00500	0.00508	0.00517	102	103	80.0-122			1.76	20
m&p-Xylenes	0.0100	0.0109	0.0109	109	109	80.0-122			0.000	20
(S) Toluene-d8				*117*	*118*	*80.0-120*				
(S) 4-Bromofluorobenzene				*95.0*	*94.9*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*106*	*108*	*70.0-130*				

Method Blank (MB)

(MB) R3646260-1 04/24/21 10:23

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) High Fraction	U		0.0247	0.100
(S) o-Terphenyl	*82.0*			*31.0-160*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3646260-2 04/24/21 10:44 • (LCSD) R3646260-3 04/24/21 11:04

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) High Fraction	1.50	1.48	1.53	98.7	102	50.0-150			3.32	20
(S) o-Terphenyl				*107*	*102*	*31.0-160*				

Method Blank (MB)

(MB) R3646904-1 04/27/21 02:43

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) High Fraction	U		0.0247	0.100
(S) o-Terphenyl	*91.5*			*31.0-160*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3646904-2 04/27/21 03:03 • (LCSD) R3646904-3 04/27/21 03:23

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) High Fraction	1.50	1.51	1.56	101	104	50.0-150			3.26	20
(S) o-Terphenyl				*120*	*133*	*31.0-160*				

L1340101-17 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1340101-17 04/27/21 21:40 • (MS) R3646904-6 04/27/21 22:00 • (MSD) R3646904-7 04/27/21 22:20

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) High Fraction	1.50	0.161	1.79	1.83	109	111	1	50.0-150			2.21	20
(S) o-Terphenyl					*114*	*114*		*31.0-160*				

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
V	The sample concentration is too high to evaluate accurate spike recoveries.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Shipped

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Austin, TX 78752

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Pres Chk

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com**

Project Description: **TMD Spring 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **330538.0000.0000**

Lab Project # **TRCATX-TMD**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **TMD (Navajo - Artesia)**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page 1 of 2

Pace Analytical® National Center for Testing & Innovation

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Mount Juliet, TN 37122
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Phone: 800-767-5859
Fax: 615-758-5859

L # 134062
1111

Acctnum: **TRCATX**
Template: **T120266**
Prelogin: **P835833**
TSR: **526**
PB:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions,NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Remarks	Sample # (lab only)
~~MW-25~~	Grab	GW		~~4/13/21~~	~~1530~~	8	X	X		X	X	X						
MW-20	Grab	GW		4/14/21	1035	8	X	X		X	X	X						-01
NP-1	Grab	GW		4/14/21	1115	5	X				X	X						-02
NP-6	Grab	GW		4/14/21	1020	~~3~~ 2	X											-03
MW-8	Grab	GW		4/14/21	950	10	X	X	X	X	X	X						-04
MW-21	Grab	GW		4/14/21	905	10	X	X	X	X	X	X						-05
MW-71	Grab	GW		4/14/21	925	9	X	X			X	X	X	X				-06
MW-68	Grab	GW		4/14/21	825	8	X	X		X	X	X						-07
~~MW-27~~	Grab	GW		~~4/13/21~~	~~1430~~	8	X	X		X	X	X						
~~MW-89~~	Grab	GW		~~4/13/21~~	~~1610~~	8	X	X		X	X	X						

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP ✓Y __N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: __Y ✓N
Correct bottles used: ✓Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: ✓Y __N
Preservation Correct/Checked: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCl / MeoH TBR	If preservation required by Login: Date/Time
Scott Ude	4/15/21	1200			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 0.1, 3.3, 3.4 °C Bottles Received: 6 + 1 TB	
Relinquished by : (Signature)	Date:	Time:	Received for lab by (Signature)	Date: 4/16/21 Time: 0930	Hold: Condition: NCF / OK

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Pres Chk

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com**

Project Description: **TMD Spring 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **330538.0000.0000**

Lab Project # **TRCATX-TMD**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **TMD (Navajo - Artesia)**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page 2 of 2

Pace Analytical® National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 1340062

Table #

Acctnum: **TRCATX**
Template: **T120266**
Prelogin: **P835833**
TSR: **526**
PB: 4/13/21
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions,NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Remarks	Sample # (lab only)
~~MW-16~~	Grab	GW		4/13/21	1525	8	X	X		X	X	X						
~~MW-26~~	Grab	GW		4/13/21	1655	8	X	X		X	X	X						
MW-46R	Grab	GW		4/14/21	1405	8	X	X		X	X	X						-08
Trip Blank-TMD-01	Grab	GW		4/14/21	—	1	X											-09

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP ✓Y __N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: ✓Y __N
Correct bottles used: ✓Y __N
Sufficient volume sent: ✓Y __N
If Applicable
VOA Zero Headspace: ✓ __N
Preservation Correct/Checked: ✓Y __N

4/16

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/15/21	1200	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: (Yes) / No — HCL / MeOH — TBR — ✓ — KO

Temp: 4.3 °C Bottles Received: +7(6)+1TB KO

If preservation required by Login: Date/Time

4/16/21 0930

Hold:

Condition: NCF / OK

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L/340062

FedEx Tracking #:			Corresponding Temp:		
5016	1217	2116	0.1 + .3 = 0.4	A3	PM
9517	5769	8834	0.3 + .3 = 0.6		
	5771	3106	0.1 + .3 = 0.4		
		3047	0.2 + .3 = 0.5		
	5769	8878	0.1 + .3 = 0.4		
	5771	0493	0.4 + .3 = 0.7		
	5769	8845	0.1 + .3 = 0.4		
	5771	3014	3.8 + .1 = 3.9	A6	OT
		0450	3.6 + .1 = 3.7	A2	BB
5016	1220	5876	3.4 + .1 = 3.5	A6	OT
9517	5769	8856	0.4 + .1 = 0.5	A2	BB
	5771	0482	2.6 + .1 = 2.7	A2	BB
		0460	0.3 + .1 = 0.4	A6	OT
		3025	0.1 + .3 = 0.4	A3	PM
		0471	0.2 + .3 = 0.5		
		0449	2.6 + .1 = 2.7	A6	OT
5016	1220	5865	3.5 + .1 = 3.6	A2	BB
9517	5769	8867	2.7 - .3 = 2.4	A7	KI

Received by OCD: 1/9/2025 2:41:44 PM

Released to Imaging: 2/7/2025 11:08:22 AM

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L1340062 TRCATX NCF PM

R5

Time estimate: oh **Time spent:** oh

Members

Paul Minnich (responsible)

- [ ] Parameter(s) past holding time
- [ ] Temperature not in range
- [ ] Improper container type
- [ ] pH not in range
- [ ] Insufficient sample volume
- [ ] Sample is biphasic
- [ ] Vials received with headspace
- [x] Broken container
- [x] Sufficient sample remains
- [ ] If broken container: Insufficient packing material around container
- [ ] If broken container: Insufficient packing material inside cooler
- [ ] If broken container: Improper handling by carrier:_____
- [ ] If broken container: Sample was frozen
- [ ] If broken container: Container lid not intact
- [ ] Client informed by Call
- [ ] Client informed by Email
- [ ] Client informed by Voicemail
- [ ] Date/Time:_____
- [ ] PM initials:_____
- [ ] Client Contact:_____

Comments

Paul Minnich *16 April 2021 6:51 PM*

One vial for sample "NP-6" received broken

Received by OCD: 1/9/2025 2:41:44 PM

Released to Imaging: 2/7/2025 11:08:22 AM

ANALYTICAL REPORT

May 05, 2021

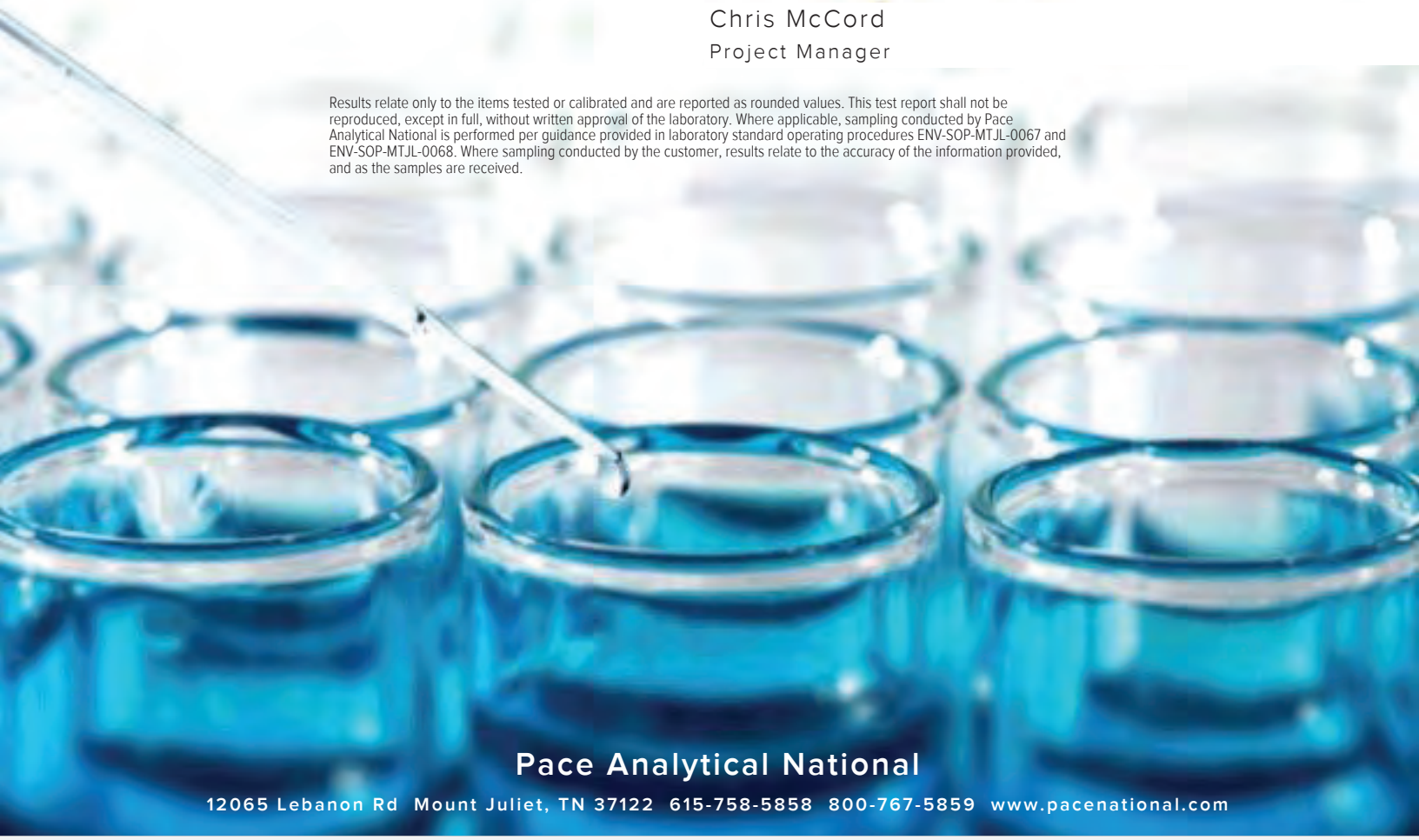
TRC Solutions - Austin, TX

Sample Delivery Group:	L1340127
Samples Received:	04/16/2021
Project Number:	425135.0000.0000
Description:	REST Spring 2021
Site:	REST (NAVAJO-ARTESIA)
Report To:	Julie Speer
	505 E. Huntland Dr, Ste 250
	Austin, TX 78752

Entire Report Reviewed By:

Chris McCord
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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MW-130 L1340127-01 GW

Collected by: SU / HMI Team
Collected date/time: 04/14/21 15:20
Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1655622	1	04/21/21 02:20	04/21/21 04:12	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1656952	1	04/22/21 14:15	04/22/21 14:15	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657223	1	04/24/21 20:19	04/24/21 20:19	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657223	100	04/24/21 20:36	04/24/21 20:36	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656517	1	04/27/21 00:36	04/27/21 11:16	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1659223	1	04/27/21 12:11	04/28/21 15:04	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1659223	1	04/27/21 12:11	04/28/21 18:32	RDS	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1657432	1	04/24/21 10:20	04/24/21 10:20	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654151	1	04/19/21 02:11	04/19/21 02:11	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1659217	1	04/26/21 23:23	04/28/21 09:44	DMG	Mt. Juliet, TN

KWB-P4 L1340127-02 GW

Collected by: SU / HMI Team
Collected date/time: 04/14/21 14:30
Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654151	1	04/19/21 02:30	04/19/21 02:30	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656980	1	04/22/21 22:48	04/23/21 11:08	JN	Mt. Juliet, TN

MW-52 L1340127-03 GW

Collected by: SU / HMI Team
Collected date/time: 04/14/21 15:30
Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1655622	1	04/21/21 02:20	04/21/21 04:12	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1656952	5	04/22/21 14:16	04/22/21 14:16	SDL	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG1657212	1	04/22/21 19:18	04/26/21 14:25	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657223	1	04/24/21 20:52	04/24/21 20:52	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657223	100	04/24/21 21:09	04/24/21 21:09	ELN	Mt. Juliet, TN
Mercury by Method 7470A	WG1654193	1	04/21/21 17:51	04/22/21 10:15	SD	Mt. Juliet, TN
Mercury by Method 7470A	WG1654201	1	04/22/21 10:38	04/22/21 14:32	SD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1656882	1	04/26/21 22:12	04/27/21 10:13	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1659249	1	04/27/21 14:10	04/28/21 09:28	EL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656517	1	04/27/21 00:36	04/27/21 11:19	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1659223	1	04/27/21 12:11	04/28/21 15:07	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1659223	1	04/27/21 12:11	04/28/21 18:35	RDS	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1657432	1	04/24/21 10:42	04/24/21 10:42	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654151	1	04/19/21 02:49	04/19/21 02:49	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656980	1	04/22/21 22:48	04/23/21 11:25	JN	Mt. Juliet, TN

MW-109 L1340127-04 GW

Collected by: SU / HMI Team
Collected date/time: 04/14/21 15:20
Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1655622	1	04/21/21 02:20	04/21/21 04:12	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1656952	1	04/22/21 14:52	04/22/21 14:52	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657223	1	04/24/21 21:25	04/24/21 21:25	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657223	5	04/26/21 11:11	04/26/21 11:11	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656517	1	04/27/21 00:36	04/27/21 11:22	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1659223	1	04/27/21 12:11	04/28/21 15:10	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1659223	1	04/27/21 12:11	04/28/21 18:38	RDS	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1657432	10	04/24/21 13:36	04/24/21 13:36	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654151	10	04/19/21 06:20	04/19/21 06:20	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656980	1	04/22/21 22:48	04/23/21 11:42	JN	Mt. Juliet, TN

MW-110 L1340127-05 GW

Collected by: SU / HMI Team
Collected date/time: 04/14/21 14:25
Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1655622	1	04/21/21 02:20	04/21/21 04:12	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1656952	1	04/22/21 14:28	04/22/21 14:28	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657223	1	04/24/21 21:58	04/24/21 21:58	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657223	5	04/26/21 11:27	04/26/21 11:27	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656517	1	04/27/21 00:36	04/27/21 11:25	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1659223	1	04/27/21 12:11	04/28/21 15:14	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1659223	1	04/27/21 12:11	04/28/21 18:42	RDS	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1657432	1	04/24/21 11:04	04/24/21 11:04	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654151	1	04/19/21 03:08	04/19/21 03:08	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656980	1	04/22/21 22:48	04/23/21 11:59	JN	Mt. Juliet, TN

MW-113 L1340127-06 GW

Collected by: SU / HMI Team
Collected date/time: 04/14/21 12:25
Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1655622	1	04/21/21 02:20	04/21/21 04:12	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1656952	1	04/22/21 14:29	04/22/21 14:29	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657223	1	04/24/21 23:04	04/24/21 23:04	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657223	100	04/24/21 23:20	04/24/21 23:20	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656517	1	04/27/21 00:36	04/27/21 11:29	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1659223	1	04/27/21 12:11	04/28/21 15:44	RDS	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1657432	1	04/24/21 11:26	04/24/21 11:26	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654151	5	04/19/21 06:39	04/19/21 06:39	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656980	1	04/22/21 22:48	04/23/21 12:16	JN	Mt. Juliet, TN

MW-134 L1340127-07 GW

Collected by: SU / HMI Team
Collected date/time: 04/14/21 11:20
Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1655622	1	04/21/21 02:20	04/21/21 04:12	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1656952	1	04/22/21 14:31	04/22/21 14:31	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657223	1	04/24/21 23:40	04/24/21 23:40	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657223	100	04/24/21 23:56	04/24/21 23:56	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656517	1	04/27/21 00:36	04/27/21 11:32	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1659223	1	04/27/21 12:11	04/28/21 15:47	RDS	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1657432	1	04/24/21 11:48	04/24/21 11:48	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654151	1	04/19/21 03:28	04/19/21 03:28	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656980	1	04/22/21 22:48	04/23/21 12:33	JN	Mt. Juliet, TN

RA-4798 L1340127-08 GW

Collected by: SU / HMI Team
Collected date/time: 04/14/21 13:05
Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1655622	1	04/21/21 02:20	04/21/21 04:12	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1656952	1	04/22/21 14:32	04/22/21 14:32	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657223	1	04/25/21 00:12	04/25/21 00:12	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657223	20	04/25/21 01:02	04/25/21 01:02	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1659223	1	04/27/21 12:11	04/28/21 15:51	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654151	1	04/19/21 03:47	04/19/21 03:47	BMB	Mt. Juliet, TN

RA-3156 L1340127-09 GW

Collected by: SU / HMI Team
Collected date/time: 04/14/21 08:30
Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1655622	1	04/21/21 02:20	04/21/21 04:12	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1656952	1	04/22/21 14:33	04/22/21 14:33	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657223	1	04/25/21 01:18	04/25/21 01:18	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657223	20	04/25/21 02:24	04/25/21 02:24	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1659223	1	04/27/21 12:11	04/28/21 15:54	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654151	1	04/19/21 04:06	04/19/21 04:06	BMB	Mt. Juliet, TN

RA-313 L1340127-10 GW

Collected by: SU / HMI Team
Collected date/time: 04/14/21 13:35
Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1655622	1	04/21/21 02:20	04/21/21 04:12	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1656952	1	04/22/21 14:34	04/22/21 14:34	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657223	1	04/25/21 02:57	04/25/21 02:57	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657223	20	04/25/21 03:13	04/25/21 03:13	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1659223	1	04/27/21 12:11	04/28/21 14:51	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654151	1	04/19/21 04:25	04/19/21 04:25	BMB	Mt. Juliet, TN

KWB-7 L1340127-11 GW

Collected by: SU / HMI Team
Collected date/time: 04/14/21 12:20
Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1655622	1	04/21/21 02:20	04/21/21 04:12	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1656952	1	04/22/21 14:36	04/22/21 14:36	SDL	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG1657212	25	04/22/21 19:18	04/26/21 14:30	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657223	1	04/25/21 03:30	04/25/21 03:30	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657223	20	04/25/21 03:46	04/25/21 03:46	ELN	Mt. Juliet, TN
Mercury by Method 7470A	WG1654193	1	04/21/21 17:51	04/22/21 10:17	SD	Mt. Juliet, TN
Mercury by Method 7470A	WG1654201	1	04/22/21 10:38	04/22/21 14:40	SD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1656882	1	04/26/21 22:12	04/27/21 10:17	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1659249	1	04/27/21 14:10	04/28/21 09:31	EL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656517	1	04/27/21 00:36	04/27/21 11:49	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1659223	1	04/27/21 12:11	04/28/21 15:57	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1659223	5	04/27/21 12:11	04/28/21 16:56	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654151	1	04/19/21 04:44	04/19/21 04:44	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1657665	20	04/23/21 16:53	04/23/21 16:53	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656980	1	04/22/21 22:48	04/23/21 12:50	JN	Mt. Juliet, TN

MW-115 L1340127-12 GW

Collected by: SU / HMI Team
Collected date/time: 04/14/21 16:10
Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1655622	1	04/21/21 02:20	04/21/21 04:12	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1656952	1	04/22/21 15:04	04/22/21 15:04	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657223	1	04/25/21 04:02	04/25/21 04:02	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657223	100	04/25/21 04:19	04/25/21 04:19	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656517	1	04/27/21 00:36	04/27/21 11:53	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1659223	1	04/27/21 12:11	04/28/21 16:01	RDS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1659223	5	04/27/21 12:11	04/28/21 16:59	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1657432	1	04/24/21 12:09	04/24/21 12:09	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654151	1	04/19/21 05:03	04/19/21 05:03	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1657665	1	04/23/21 17:12	04/23/21 17:12	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656980	1	04/22/21 22:48	04/23/21 13:07	JN	Mt. Juliet, TN

MW-114 L1340127-13 GW

Collected by: SU / HMI Team
Collected date/time: 04/14/21 15:15
Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1655622	1	04/21/21 02:20	04/21/21 04:12	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1656952	1	04/22/21 14:38	04/22/21 14:38	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657223	1	04/25/21 04:35	04/25/21 04:35	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657223	100	04/25/21 05:25	04/25/21 05:25	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656517	1	04/27/21 00:36	04/27/21 11:56	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1659223	1	04/27/21 12:11	04/28/21 16:04	RDS	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1657432	1	04/24/21 12:31	04/24/21 12:31	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654151	1	04/19/21 05:22	04/19/21 05:22	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1657665	1	04/23/21 17:32	04/23/21 17:32	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656980	1	04/22/21 22:48	04/23/21 13:25	JN	Mt. Juliet, TN

MW-102 L1340127-14 GW

Collected by: SU / HMI Team
Collected date/time: 04/14/21 16:30
Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1655624	1	04/21/21 02:41	04/21/21 06:17	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1656952	1	04/22/21 14:43	04/22/21 14:43	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657223	1	04/25/21 05:41	04/25/21 05:41	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657223	100	04/25/21 05:58	04/25/21 05:58	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656517	1	04/27/21 00:36	04/27/21 11:59	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1659223	1	04/27/21 12:11	04/28/21 16:07	RDS	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1657432	100	04/24/21 13:58	04/24/21 13:58	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654151	100	04/19/21 06:58	04/19/21 06:58	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656980	5	04/22/21 22:48	04/27/21 10:34	DMG	Mt. Juliet, TN

MW-66 L1340127-15 GW

Collected by: SU / HMI Team
Collected date/time: 04/14/21 15:35
Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1655624	1	04/21/21 02:41	04/21/21 06:17	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1656952	1	04/22/21 14:45	04/22/21 14:45	SDL	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG1657212	1	04/22/21 19:18	04/26/21 14:31	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657223	1	04/25/21 06:14	04/25/21 06:14	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657223	20	04/25/21 06:47	04/25/21 06:47	ELN	Mt. Juliet, TN
Mercury by Method 7470A	WG1654193	1	04/21/21 17:51	04/22/21 10:19	SD	Mt. Juliet, TN
Mercury by Method 7470A	WG1654201	1	04/22/21 10:38	04/22/21 14:42	SD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1656882	1	04/26/21 22:12	04/27/21 10:20	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1659249	1	04/27/21 14:10	04/28/21 09:34	EL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656517	1	04/27/21 00:36	04/27/21 12:03	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1659223	1	04/27/21 12:11	04/28/21 16:11	RDS	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1657432	1	04/24/21 12:53	04/24/21 12:53	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654151	10	04/19/21 07:17	04/19/21 07:17	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1657665	100	04/23/21 17:51	04/23/21 17:51	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656980	1	04/22/21 22:48	04/23/21 13:59	JN	Mt. Juliet, TN

MW-125 L1340127-16 GW

Collected by: SU / HMI Team
Collected date/time: 04/14/21 14:25
Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1655624	1	04/21/21 02:41	04/21/21 06:17	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1656952	1	04/22/21 14:46	04/22/21 14:46	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657223	1	04/25/21 07:03	04/25/21 07:03	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657223	100	04/25/21 07:20	04/25/21 07:20	ELN	Mt. Juliet, TN

MW-125 L1340127-16 GW

Collected by: SU / HMI Team
Collected date/time: 04/14/21 14:25
Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICPMS) by Method 6020	WG1656521	1	04/27/21 04:53	04/27/21 13:07	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1659223	1	04/27/21 12:11	04/28/21 16:14	RDS	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1657432	1	04/24/21 13:15	04/24/21 13:15	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654151	1	04/19/21 05:41	04/19/21 05:41	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656980	1	04/22/21 22:48	04/28/21 05:36	DMG	Mt. Juliet, TN

MW-116 L1340127-17 GW

Collected by: SU / HMI Team
Collected date/time: 04/14/21 15:25
Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1655624	1	04/21/21 02:41	04/21/21 06:17	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1656952	1	04/22/21 15:05	04/22/21 15:05	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657223	1	04/25/21 07:36	04/25/21 07:36	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657223	100	04/25/21 07:53	04/25/21 07:53	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656521	1	04/27/21 04:53	04/27/21 13:10	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1659223	1	04/27/21 12:11	04/28/21 16:36	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1657492	1	04/23/21 15:07	04/23/21 15:07	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654151	1	04/19/21 06:01	04/19/21 06:01	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656980	1	04/22/21 22:48	04/23/21 14:33	JN	Mt. Juliet, TN

MW-101 L1340127-18 GW

Collected by: SU / HMI Team
Collected date/time: 04/14/21 13:20
Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1655624	1	04/21/21 02:41	04/21/21 06:17	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1656952	1	04/22/21 14:50	04/22/21 14:50	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657223	1	04/25/21 08:42	04/25/21 08:42	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657223	5	04/26/21 11:43	04/26/21 11:43	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656521	1	04/27/21 04:53	04/27/21 13:14	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1659223	1	04/27/21 12:11	04/28/21 16:40	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1657492	1	04/23/21 15:29	04/23/21 15:29	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1657665	20	04/23/21 18:10	04/23/21 18:10	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656980	1	04/22/21 22:48	04/23/21 14:50	JN	Mt. Juliet, TN

MW-105 L1340127-19 GW

Collected by: SU / HMI Team
Collected date/time: 04/14/21 08:25
Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1655624	1	04/21/21 02:41	04/21/21 06:17	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1657027	1	04/22/21 15:30	04/22/21 15:30	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657223	1	04/25/21 09:15	04/25/21 09:15	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657223	100	04/25/21 09:31	04/25/21 09:31	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656521	1	04/27/21 04:53	04/27/21 13:17	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1659223	1	04/27/21 12:11	04/28/21 16:43	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1657492	50	04/23/21 18:00	04/23/21 18:00	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1657665	100	04/23/21 18:29	04/23/21 18:29	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656980	5	04/22/21 22:48	04/27/21 11:00	DMG	Mt. Juliet, TN

MW-61 L1340127-20 GW

Collected by: SU / HMI Team
Collected date/time: 04/14/21 12:35
Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1655624	1	04/21/21 02:41	04/21/21 06:17	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1657027	10	04/22/21 16:25	04/22/21 16:25	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657223	1	04/25/21 09:48	04/25/21 09:48	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657223	10	04/25/21 10:21	04/25/21 10:21	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656521	1	04/27/21 04:53	04/27/21 13:27	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1659223	1	04/27/21 12:11	04/28/21 16:49	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1657492	50	04/23/21 18:21	04/23/21 18:21	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654151	50	04/19/21 08:15	04/19/21 08:15	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656980	1	04/22/21 22:48	04/23/21 15:24	JN	Mt. Juliet, TN

MW-41 L1340127-21 GW

Collected by: SU / HMI Team
Collected date/time: 04/14/21 10:00
Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1655624	1	04/21/21 02:41	04/21/21 06:17	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1657027	1	04/22/21 15:32	04/22/21 15:32	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657224	1	04/23/21 15:06	04/23/21 15:06	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657224	50	04/23/21 15:24	04/23/21 15:24	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656521	1	04/27/21 04:53	04/27/21 13:30	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1659223	1	04/27/21 12:11	04/28/21 16:52	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1657492	1	04/23/21 15:50	04/23/21 15:50	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654740	1	04/20/21 01:34	04/20/21 01:34	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1655241	1	04/20/21 18:45	04/20/21 18:45	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656980	1	04/22/21 22:48	04/23/21 15:42	JN	Mt. Juliet, TN

RW-9 L1340127-22 GW

Collected by: SU / HMI Team
Collected date/time: 04/14/21 11:00
Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1655624	1	04/21/21 02:41	04/21/21 06:17	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1657027	10	04/22/21 16:26	04/22/21 16:26	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657224	1	04/23/21 15:42	04/23/21 15:42	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657224	20	04/23/21 16:00	04/23/21 16:00	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656521	1	04/27/21 04:53	04/27/21 13:34	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1659224	1	04/27/21 09:50	04/27/21 20:33	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1657492	1	04/23/21 16:12	04/23/21 16:12	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654740	1	04/20/21 01:54	04/20/21 01:54	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1655241	10	04/20/21 21:04	04/20/21 21:04	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656980	1	04/22/21 22:48	04/23/21 15:59	JN	Mt. Juliet, TN

MW-42 L1340127-23 GW

Collected by: SU / HMI Team
Collected date/time: 04/14/21 13:25
Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1655624	1	04/21/21 02:41	04/21/21 06:17	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1657027	1	04/22/21 15:35	04/22/21 15:35	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657224	1	04/23/21 17:11	04/23/21 17:11	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657224	50	04/23/21 16:18	04/23/21 16:18	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656521	1	04/27/21 04:53	04/27/21 13:37	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1659224	1	04/27/21 09:50	04/27/21 20:37	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1658415	1	04/26/21 10:34	04/26/21 10:34	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654740	5	04/20/21 02:56	04/20/21 02:56	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656980	1	04/22/21 22:48	04/23/21 16:16	JN	Mt. Juliet, TN

MW-29 L1340127-24 GW

Collected by: SU / HMI Team
Collected date/time: 04/14/21 12:25
Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1655624	1	04/21/21 02:41	04/21/21 06:17	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1657027	1	04/22/21 15:36	04/22/21 15:36	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657224	1	04/23/21 17:29	04/23/21 17:29	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657224	100	04/23/21 17:47	04/23/21 17:47	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656521	1	04/27/21 04:53	04/27/21 13:40	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1659224	1	04/27/21 09:50	04/27/21 20:47	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1657492	1	04/23/21 16:34	04/23/21 16:34	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654740	1	04/20/21 02:15	04/20/21 02:15	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1655241	1	04/20/21 19:05	04/20/21 19:05	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1656980	1	04/22/21 22:48	04/23/21 16:33	JN	Mt. Juliet, TN

DUP-REST-01 L1340127-25 GW

Collected by: SU / HMI Team
Collected date/time: 04/14/21 10:00
Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1655624	1	04/21/21 02:41	04/21/21 06:17	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1661755	1	05/03/21 19:47	05/03/21 19:47	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657224	1	04/23/21 18:05	04/23/21 18:05	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657224	20	04/23/21 19:17	04/23/21 19:17	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656521	1	04/27/21 04:53	04/27/21 13:44	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1659224	1	04/27/21 09:50	04/27/21 20:51	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1657492	1	04/23/21 16:55	04/23/21 16:55	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654740	1	04/20/21 04:39	04/20/21 04:39	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1655241	1	04/20/21 19:25	04/20/21 19:25	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1657280	1	04/22/21 22:41	04/23/21 18:03	DMG	Mt. Juliet, TN

DUP-REST-03 L1340127-26 GW

Collected by: SU / HMI Team
Collected date/time: 04/14/21 09:00
Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1655624	1	04/21/21 02:41	04/21/21 06:17	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1661755	1	05/03/21 19:48	05/03/21 19:48	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657224	10	04/23/21 20:46	04/23/21 20:46	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657224	100	04/23/21 19:53	04/23/21 19:53	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656521	1	04/27/21 04:53	04/27/21 13:47	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1659224	1	04/27/21 09:50	04/27/21 20:54	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1657492	1	04/23/21 17:17	04/23/21 17:17	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654740	1	04/20/21 02:35	04/20/21 02:35	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1657280	1	04/22/21 22:41	04/23/21 18:24	DMG	Mt. Juliet, TN

EB-REST-01 L1340127-27 GW

Collected by: SU / HMI Team
Collected date/time: 04/14/21 12:40
Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1655624	1	04/21/21 02:41	04/21/21 06:17	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1661755	1	05/03/21 19:50	05/03/21 19:50	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657224	1	04/23/21 21:04	04/23/21 21:04	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656521	1	04/27/21 04:53	04/27/21 13:50	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1659224	1	04/27/21 09:50	04/27/21 20:57	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1657492	1	04/23/21 14:24	04/23/21 14:24	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654740	1	04/19/21 22:49	04/19/21 22:49	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1657280	1	04/22/21 22:41	04/23/21 18:44	DMG	Mt. Juliet, TN

EB-REST-03 L1340127-28 GW

Collected by: SU / HMI Team
Collected date/time: 04/14/21 11:35
Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1655624	1	04/21/21 02:41	04/21/21 06:17	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1661755	1	05/03/21 19:51	05/03/21 19:51	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657224	1	04/23/21 21:22	04/23/21 21:22	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656521	1	04/27/21 04:53	04/27/21 13:54	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1659224	1	04/27/21 09:50	04/27/21 21:01	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1657492	1	04/23/21 14:45	04/23/21 14:45	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654740	1	04/19/21 23:10	04/19/21 23:10	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1657280	1	04/22/21 22:41	04/23/21 19:04	DMG	Mt. Juliet, TN

TRIP BLANK-REST-01 L1340127-29 GW

Collected by: SU / HMI Team
Collected date/time: 04/14/21 00:00
Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654745	1	04/20/21 04:12	04/20/21 04:12	JCP	Mt. Juliet, TN

TRIP BLANK-REST-03 L1340127-30 GW

Collected by: SU / HMI Team
Collected date/time: 04/14/21 00:00
Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654745	1	04/20/21 04:32	04/20/21 04:32	JCP	Mt. Juliet, TN

TRIP BLANK-REST-04 L1340127-31 GW

Collected by: SU / HMI Team
Collected date/time: 04/14/21 00:00
Received date/time: 04/16/21 09:30

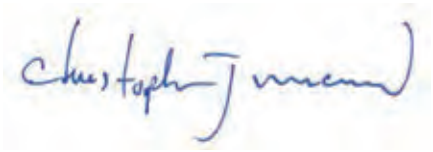
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654745	1	04/20/21 04:53	04/20/21 04:53	JCP	Mt. Juliet, TN

MW-62R L1340127-32 GW

Collected by: SU / HMI Team
Collected date/time: 04/14/21 10:25
Received date/time: 04/16/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1655624	1	04/21/21 02:41	04/21/21 06:17	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1661755	1	05/03/21 19:57	05/03/21 19:57	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657224	1	04/23/21 21:40	04/23/21 21:40	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1657224	10	04/23/21 21:58	04/23/21 21:58	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1656521	1	04/27/21 04:53	04/27/21 13:57	LAT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1659224	1	04/27/21 09:50	04/27/21 21:04	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1659224	5	04/27/21 09:50	04/27/21 21:53	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1657492	1	04/23/21 17:38	04/23/21 17:38	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1654745	50	04/20/21 09:23	04/20/21 09:23	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1657280	1	04/22/21 22:41	04/23/21 19:24	DMG	Mt. Juliet, TN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Chris McCord
Project Manager

Sample Delivery Group (SDG) Narrative

pH outside of method requirement.

Lab Sample ID	Project Sample ID	Method
L1340127-01	MW-130	3511/8015
L1340127-04	MW-109	3511/8015
L1340127-11	KWB-7	3511/8015
L1340127-14	MW-102	3511/8015
L1340127-15	MW-66	3511/8015
L1340127-20	MW-61	3511/8015
L1340127-21	MW-41	3511/8015
L1340127-22	RW-9	3511/8015
L1340127-23	MW-42	3511/8015

The following analysis were performed from an unpreserved, insufficiently or inadequately preserved sample.

Lab Sample ID	Project Sample ID	Method
L1340127-25	DUP-REST-01	353.2
L1340127-26	DUP-REST-03	353.2
L1340127-27	EB-REST-01	353.2
L1340127-28	EB-REST-03	353.2
L1340127-32	MW-62R	353.2

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2490		20.0	1	04/21/2021 04:12	WG1655622

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	1.24		0.0500	0.100	1	04/22/2021 14:15	WG1656952

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	156	B	37.9	100	100	04/24/2021 20:36	WG1657223
Fluoride	0.718		0.0640	0.150	1	04/24/2021 20:19	WG1657223
Sulfate	874		59.4	500	100	04/24/2021 20:36	WG1657223

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00888		0.000180	0.00200	1	04/28/2021 15:04	WG1659223
Arsenic,Dissolved	0.00328		0.000180	0.00200	1	04/27/2021 11:16	WG1656517
Barium	0.101		0.000381	0.0200	1	04/28/2021 15:04	WG1659223
Barium,Dissolved	0.0193	J	0.000381	0.0200	1	04/27/2021 11:16	WG1656517
Calcium	423		0.0936	1.00	1	04/28/2021 15:04	WG1659223
Chromium	0.0257		0.00124	0.00200	1	04/28/2021 15:04	WG1659223
Chromium,Dissolved	U		0.00124	0.00200	1	04/27/2021 11:16	WG1656517
Iron	15.6		0.0281	0.100	1	04/28/2021 15:04	WG1659223
Iron,Dissolved	U		0.0281	0.100	1	04/27/2021 11:16	WG1656517
Lead	0.0137		0.000849	0.00200	1	04/28/2021 15:04	WG1659223
Lead,Dissolved	U		0.000849	0.00200	1	04/27/2021 11:16	WG1656517
Manganese	0.282		0.000704	0.00500	1	04/28/2021 15:04	WG1659223
Manganese,Dissolved	0.0986		0.000704	0.00500	1	04/27/2021 11:16	WG1656517
Potassium	4.08		0.108	2.00	1	04/28/2021 15:04	WG1659223
Selenium	0.00862		0.000300	0.00200	1	04/28/2021 18:32	WG1659223
Selenium,Dissolved	0.00728		0.000300	0.00200	1	04/27/2021 11:16	WG1656517
Sodium	302		0.376	2.00	1	04/28/2021 15:04	WG1659223

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/24/2021 10:20	WG1657432
(S) a,a,a-Trifluorotoluene(FID)	*101*			*78.0-120*		*04/24/2021 10:20*	WG1657432

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/19/2021 02:11	WG1654151
Benzene	U		0.0000941	0.00100	1	04/19/2021 02:11	WG1654151
Bromodichloromethane	U		0.000136	0.00100	1	04/19/2021 02:11	WG1654151
Bromoform	U		0.000129	0.00100	1	04/19/2021 02:11	WG1654151
Bromomethane	U		0.000605	0.00500	1	04/19/2021 02:11	WG1654151
n-Butylbenzene	U		0.000157	0.00100	1	04/19/2021 02:11	WG1654151
sec-Butylbenzene	U		0.000125	0.00100	1	04/19/2021 02:11	WG1654151
Carbon disulfide	U		0.0000962	0.00100	1	04/19/2021 02:11	WG1654151
Carbon tetrachloride	U		0.000128	0.00100	1	04/19/2021 02:11	WG1654151

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/19/2021 02:11	WG1654151
Chlorodibromomethane	U		0.000140	0.00100	1	04/19/2021 02:11	WG1654151
Chloroethane	U		0.000192	0.00500	1	04/19/2021 02:11	WG1654151
Chloroform	U		0.000111	0.00500	1	04/19/2021 02:11	WG1654151
Chloromethane	U		0.000960	0.00250	1	04/19/2021 02:11	WG1654151
1,2-Dibromoethane	U		0.000126	0.00100	1	04/19/2021 02:11	WG1654151
1,1-Dichloroethane	U		0.000100	0.00100	1	04/19/2021 02:11	WG1654151
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/19/2021 02:11	WG1654151
1,1-Dichloroethene	U		0.000188	0.00100	1	04/19/2021 02:11	WG1654151
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/19/2021 02:11	WG1654151
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/19/2021 02:11	WG1654151
1,2-Dichloropropane	U		0.000149	0.00100	1	04/19/2021 02:11	WG1654151
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/19/2021 02:11	WG1654151
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/19/2021 02:11	WG1654151
Ethylbenzene	U		0.000137	0.00100	1	04/19/2021 02:11	WG1654151
Isopropylbenzene	U		0.000105	0.00100	1	04/19/2021 02:11	WG1654151
p-Isopropyltoluene	U		0.000120	0.00100	1	04/19/2021 02:11	WG1654151
2-Butanone (MEK)	U		0.00119	0.0100	1	04/19/2021 02:11	WG1654151
2-Hexanone	U		0.000787	0.0100	1	04/19/2021 02:11	WG1654151
Methylene Chloride	U		0.000430	0.00500	1	04/19/2021 02:11	WG1654151
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/19/2021 02:11	WG1654151
Methyl tert-butyl ether	0.00230		0.000101	0.00100	1	04/19/2021 02:11	WG1654151
Naphthalene	U		0.00100	0.00500	1	04/19/2021 02:11	WG1654151
n-Propylbenzene	U		0.0000993	0.00100	1	04/19/2021 02:11	WG1654151
Styrene	U		0.000118	0.00100	1	04/19/2021 02:11	WG1654151
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/19/2021 02:11	WG1654151
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/19/2021 02:11	WG1654151
Tetrachloroethene	U		0.000300	0.00100	1	04/19/2021 02:11	WG1654151
Toluene	U		0.000278	0.00100	1	04/19/2021 02:11	WG1654151
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/19/2021 02:11	WG1654151
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/19/2021 02:11	WG1654151
Trichloroethene	U		0.000190	0.00100	1	04/19/2021 02:11	WG1654151
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/19/2021 02:11	WG1654151
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/19/2021 02:11	WG1654151
Vinyl chloride	U		0.000234	0.00100	1	04/19/2021 02:11	WG1654151
o-Xylene	U		0.000174	0.00100	1	04/19/2021 02:11	WG1654151
m&p-Xylene	U		0.000430	0.00200	1	04/19/2021 02:11	WG1654151
Xylenes, Total	U		0.000174	0.00300	1	04/19/2021 02:11	WG1654151
(S) Toluene-d8	*100*			*80.0-120*		*04/19/2021 02:11*	WG1654151
(S) 4-Bromofluorobenzene	*100*			*77.0-126*		*04/19/2021 02:11*	WG1654151
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*04/19/2021 02:11*	WG1654151

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.586		0.0247	0.100	1	04/28/2021 09:44	WG1659217
(S) o-Terphenyl	*66.0*			*31.0-160*		*04/28/2021 09:44*	WG1659217

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/19/2021 02:30	WG1654151
Benzene	U		0.0000941	0.00100	1	04/19/2021 02:30	WG1654151
Bromodichloromethane	U		0.000136	0.00100	1	04/19/2021 02:30	WG1654151
Bromoform	U		0.000129	0.00100	1	04/19/2021 02:30	WG1654151
Bromomethane	U		0.000605	0.00500	1	04/19/2021 02:30	WG1654151
n-Butylbenzene	U		0.000157	0.00100	1	04/19/2021 02:30	WG1654151
sec-Butylbenzene	U		0.000125	0.00100	1	04/19/2021 02:30	WG1654151
Carbon disulfide	U		0.0000962	0.00100	1	04/19/2021 02:30	WG1654151
Carbon tetrachloride	U		0.000128	0.00100	1	04/19/2021 02:30	WG1654151
Chlorobenzene	U		0.000116	0.00100	1	04/19/2021 02:30	WG1654151
Chlorodibromomethane	U		0.000140	0.00100	1	04/19/2021 02:30	WG1654151
Chloroethane	U		0.000192	0.00500	1	04/19/2021 02:30	WG1654151
Chloroform	U		0.000111	0.00500	1	04/19/2021 02:30	WG1654151
Chloromethane	U		0.000960	0.00250	1	04/19/2021 02:30	WG1654151
1,2-Dibromoethane	U		0.000126	0.00100	1	04/19/2021 02:30	WG1654151
1,1-Dichloroethane	U		0.000100	0.00100	1	04/19/2021 02:30	WG1654151
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/19/2021 02:30	WG1654151
1,1-Dichloroethene	U		0.000188	0.00100	1	04/19/2021 02:30	WG1654151
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/19/2021 02:30	WG1654151
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/19/2021 02:30	WG1654151
1,2-Dichloropropane	U		0.000149	0.00100	1	04/19/2021 02:30	WG1654151
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/19/2021 02:30	WG1654151
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/19/2021 02:30	WG1654151
Ethylbenzene	U		0.000137	0.00100	1	04/19/2021 02:30	WG1654151
Isopropylbenzene	U		0.000105	0.00100	1	04/19/2021 02:30	WG1654151
p-Isopropyltoluene	U		0.000120	0.00100	1	04/19/2021 02:30	WG1654151
2-Butanone (MEK)	U		0.00119	0.0100	1	04/19/2021 02:30	WG1654151
2-Hexanone	U		0.000787	0.0100	1	04/19/2021 02:30	WG1654151
Methylene Chloride	U		0.000430	0.00500	1	04/19/2021 02:30	WG1654151
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/19/2021 02:30	WG1654151
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/19/2021 02:30	WG1654151
Naphthalene	U		0.00100	0.00500	1	04/19/2021 02:30	WG1654151
n-Propylbenzene	U		0.0000993	0.00100	1	04/19/2021 02:30	WG1654151
Styrene	U		0.000118	0.00100	1	04/19/2021 02:30	WG1654151
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/19/2021 02:30	WG1654151
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/19/2021 02:30	WG1654151
Tetrachloroethene	U		0.000300	0.00100	1	04/19/2021 02:30	WG1654151
Toluene	U		0.000278	0.00100	1	04/19/2021 02:30	WG1654151
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/19/2021 02:30	WG1654151
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/19/2021 02:30	WG1654151
Trichloroethene	U		0.000190	0.00100	1	04/19/2021 02:30	WG1654151
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/19/2021 02:30	WG1654151
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/19/2021 02:30	WG1654151
Vinyl chloride	U		0.000234	0.00100	1	04/19/2021 02:30	WG1654151
o-Xylene	U		0.000174	0.00100	1	04/19/2021 02:30	WG1654151
m&p-Xylene	U		0.000430	0.00200	1	04/19/2021 02:30	WG1654151
Xylenes, Total	U		0.000174	0.00300	1	04/19/2021 02:30	WG1654151
(S) Toluene-d8	*101*			*80.0-120*		*04/19/2021 02:30*	WG1654151
(S) 4-Bromofluorobenzene	*101*			*77.0-126*		*04/19/2021 02:30*	WG1654151
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*04/19/2021 02:30*	WG1654151

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0330	J	0.0247	0.100	1	04/23/2021 11:08	WG1656980

KWD-14
Collected date/time: 04/14/21 14:30
L1340127

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
(S) o-Terphenyl	*102*			*31.0-160*		*04/23/2021 11:08*	WG1656980

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	2530		20.0	1	04/21/2021 04:12	WG1655622

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	11.0		0.250	0.500	5	04/22/2021 14:16	WG1656952

Wet Chemistry by Method 4500CN E-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Cyanide	U		0.00180	0.00500	1	04/26/2021 14:25	WG1657212

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	166	B	37.9	100	100	04/24/2021 21:09	WG1657223
Fluoride	1.54		0.0640	0.150	1	04/24/2021 20:52	WG1657223
Sulfate	958		59.4	500	100	04/24/2021 21:09	WG1657223

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.000100	0.000200	1	04/22/2021 10:15	WG1654193
Mercury,Dissolved	U		0.000100	0.000200	1	04/22/2021 14:32	WG1654201

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Boron	0.765		0.0200	0.200	1	04/27/2021 10:13	WG1656882
Boron,Dissolved	0.776		0.0200	0.200	1	04/28/2021 09:28	WG1659249

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00350		0.000180	0.00200	1	04/28/2021 15:07	WG1659223
Arsenic,Dissolved	0.00400		0.000180	0.00200	1	04/27/2021 11:19	WG1656517
Barium	0.0126	J	0.000381	0.0200	1	04/28/2021 15:07	WG1659223
Barium,Dissolved	0.0117	J	0.000381	0.0200	1	04/27/2021 11:19	WG1656517
Cadmium	U		0.000150	0.00100	1	04/28/2021 15:07	WG1659223
Cadmium,Dissolved	U		0.000150	0.00100	1	04/27/2021 11:19	WG1656517
Calcium	212		0.0936	1.00	1	04/28/2021 15:07	WG1659223
Chromium	U		0.00124	0.00200	1	04/28/2021 15:07	WG1659223
Chromium,Dissolved	U		0.00124	0.00200	1	04/27/2021 11:19	WG1656517
Cobalt	0.000735	J	0.0000596	0.00200	1	04/28/2021 15:07	WG1659223
Cobalt,Dissolved	0.000656	J	0.0000596	0.00200	1	04/27/2021 11:19	WG1656517
Iron	0.0283	J	0.0281	0.100	1	04/28/2021 15:07	WG1659223
Iron,Dissolved	U		0.0281	0.100	1	04/27/2021 11:19	WG1656517
Lead	U		0.000849	0.00200	1	04/28/2021 15:07	WG1659223
Lead,Dissolved	U		0.000849	0.00200	1	04/27/2021 11:19	WG1656517
Manganese	0.0738		0.000704	0.00500	1	04/28/2021 15:07	WG1659223
Manganese,Dissolved	0.0239		0.000704	0.00500	1	04/27/2021 11:19	WG1656517
Nickel	0.0314		0.000816	0.00200	1	04/28/2021 15:07	WG1659223
Nickel,Dissolved	0.0329		0.000816	0.00200	1	04/27/2021 11:19	WG1656517

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Potassium	0.319	J	0.108	2.00	1	04/28/2021 15:07	WG1659223
Selenium	0.00522		0.000300	0.00200	1	04/28/2021 18:35	WG1659223
Selenium,Dissolved	0.00352		0.000300	0.00200	1	04/27/2021 11:19	WG1656517
Sodium	358		0.376	2.00	1	04/28/2021 15:07	WG1659223
Uranium	0.0117	J	0.0000700	0.0200	1	04/28/2021 15:07	WG1659223
Uranium,Dissolved	0.0119	J	0.0000700	0.0200	1	04/27/2021 11:19	WG1656517
Vanadium	0.0255		0.000664	0.00500	1	04/28/2021 15:07	WG1659223
Vanadium,Dissolved	0.0262		0.000664	0.00500	1	04/27/2021 11:19	WG1656517

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/24/2021 10:42	WG1657432
(S) a,a,a-Trifluorotoluene(FID)	*102*			*78.0-120*		*04/24/2021 10:42*	WG1657432

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/19/2021 02:49	WG1654151
Benzene	U		0.0000941	0.00100	1	04/19/2021 02:49	WG1654151
Bromodichloromethane	U		0.000136	0.00100	1	04/19/2021 02:49	WG1654151
Bromoform	U		0.000129	0.00100	1	04/19/2021 02:49	WG1654151
Bromomethane	U		0.000605	0.00500	1	04/19/2021 02:49	WG1654151
n-Butylbenzene	U		0.000157	0.00100	1	04/19/2021 02:49	WG1654151
sec-Butylbenzene	U		0.000125	0.00100	1	04/19/2021 02:49	WG1654151
Carbon disulfide	U		0.0000962	0.00100	1	04/19/2021 02:49	WG1654151
Carbon tetrachloride	U		0.000128	0.00100	1	04/19/2021 02:49	WG1654151
Chlorobenzene	U		0.000116	0.00100	1	04/19/2021 02:49	WG1654151
Chlorodibromomethane	U		0.000140	0.00100	1	04/19/2021 02:49	WG1654151
Chloroethane	U		0.000192	0.00500	1	04/19/2021 02:49	WG1654151
Chloroform	U		0.000111	0.00500	1	04/19/2021 02:49	WG1654151
Chloromethane	U		0.000960	0.00250	1	04/19/2021 02:49	WG1654151
1,2-Dibromoethane	U		0.000126	0.00100	1	04/19/2021 02:49	WG1654151
1,1-Dichloroethane	U		0.000100	0.00100	1	04/19/2021 02:49	WG1654151
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/19/2021 02:49	WG1654151
1,1-Dichloroethene	U		0.000188	0.00100	1	04/19/2021 02:49	WG1654151
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/19/2021 02:49	WG1654151
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/19/2021 02:49	WG1654151
1,2-Dichloropropane	U		0.000149	0.00100	1	04/19/2021 02:49	WG1654151
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/19/2021 02:49	WG1654151
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/19/2021 02:49	WG1654151
Ethylbenzene	U		0.000137	0.00100	1	04/19/2021 02:49	WG1654151
Isopropylbenzene	U		0.000105	0.00100	1	04/19/2021 02:49	WG1654151
p-Isopropyltoluene	U		0.000120	0.00100	1	04/19/2021 02:49	WG1654151
2-Butanone (MEK)	U		0.00119	0.0100	1	04/19/2021 02:49	WG1654151
2-Hexanone	U		0.000787	0.0100	1	04/19/2021 02:49	WG1654151
Methylene Chloride	U		0.000430	0.00500	1	04/19/2021 02:49	WG1654151
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/19/2021 02:49	WG1654151
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/19/2021 02:49	WG1654151
Naphthalene	U		0.00100	0.00500	1	04/19/2021 02:49	WG1654151
n-Propylbenzene	U		0.0000993	0.00100	1	04/19/2021 02:49	WG1654151
Styrene	U		0.000118	0.00100	1	04/19/2021 02:49	WG1654151
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/19/2021 02:49	WG1654151
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/19/2021 02:49	WG1654151
Tetrachloroethene	U		0.000300	0.00100	1	04/19/2021 02:49	WG1654151

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Toluene	U		0.000278	0.00100	1	04/19/2021 02:49	WG1654151
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/19/2021 02:49	WG1654151
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/19/2021 02:49	WG1654151
Trichloroethene	U		0.000190	0.00100	1	04/19/2021 02:49	WG1654151
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/19/2021 02:49	WG1654151
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/19/2021 02:49	WG1654151
Vinyl chloride	U		0.000234	0.00100	1	04/19/2021 02:49	WG1654151
o-Xylene	U		0.000174	0.00100	1	04/19/2021 02:49	WG1654151
m&p-Xylene	U		0.000430	0.00200	1	04/19/2021 02:49	WG1654151
Xylenes, Total	U		0.000174	0.00300	1	04/19/2021 02:49	WG1654151
(S) Toluene-d8	*101*			*80.0-120*		*04/19/2021 02:49*	WG1654151
(S) 4-Bromofluorobenzene	*99.2*			*77.0-126*		*04/19/2021 02:49*	WG1654151
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*04/19/2021 02:49*	WG1654151

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.270		0.0247	0.100	1	04/23/2021 11:25	WG1656980
(S) o-Terphenyl	*89.5*			*31.0-160*		*04/23/2021 11:25*	WG1656980

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	1820		13.3	1	04/21/2021 04:12	WG1655622

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.104		0.0500	0.100	1	04/22/2021 14:52	WG1656952

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	218		1.90	5.00	5	04/26/2021 11:11	WG1657223
Fluoride	1.78		0.0640	0.150	1	04/24/2021 21:25	WG1657223
Sulfate	204		2.97	25.0	5	04/26/2021 11:11	WG1657223

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00417		0.000180	0.00200	1	04/28/2021 15:10	WG1659223
Arsenic,Dissolved	0.00281		0.000180	0.00200	1	04/27/2021 11:22	WG1656517
Barium	0.177		0.000381	0.0200	1	04/28/2021 15:10	WG1659223
Barium,Dissolved	0.179		0.000381	0.0200	1	04/27/2021 11:22	WG1656517
Calcium	60.3		0.0936	1.00	1	04/28/2021 15:10	WG1659223
Chromium	U		0.00124	0.00200	1	04/28/2021 15:10	WG1659223
Chromium,Dissolved	U		0.00124	0.00200	1	04/27/2021 11:22	WG1656517
Iron	0.0501	J	0.0281	0.100	1	04/28/2021 15:10	WG1659223
Iron,Dissolved	U		0.0281	0.100	1	04/27/2021 11:22	WG1656517
Lead	U		0.000849	0.00200	1	04/28/2021 15:10	WG1659223
Lead,Dissolved	U		0.000849	0.00200	1	04/27/2021 11:22	WG1656517
Manganese	0.0800		0.000704	0.00500	1	04/28/2021 15:10	WG1659223
Manganese,Dissolved	0.0688		0.000704	0.00500	1	04/27/2021 11:22	WG1656517
Potassium	0.591	J	0.108	2.00	1	04/28/2021 15:10	WG1659223
Selenium	U		0.000300	0.00200	1	04/28/2021 18:38	WG1659223
Selenium,Dissolved	U		0.000300	0.00200	1	04/27/2021 11:22	WG1656517
Sodium	492		0.376	2.00	1	04/28/2021 15:10	WG1659223

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	2.44		0.314	1.00	10	04/24/2021 13:36	WG1657432
(S) a,a,a-Trifluorotoluene(FID)	*99.2*			*78.0-120*		*04/24/2021 13:36*	WG1657432

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.113	0.500	10	04/19/2021 06:20	WG1654151
Benzene	0.690		0.000941	0.0100	10	04/19/2021 06:20	WG1654151
Bromodichloromethane	U		0.00136	0.0100	10	04/19/2021 06:20	WG1654151
Bromoform	U		0.00129	0.0100	10	04/19/2021 06:20	WG1654151
Bromomethane	U		0.00605	0.0500	10	04/19/2021 06:20	WG1654151
n-Butylbenzene	0.00228	J	0.00157	0.0100	10	04/19/2021 06:20	WG1654151
sec-Butylbenzene	0.00638	J	0.00125	0.0100	10	04/19/2021 06:20	WG1654151
Carbon disulfide	U		0.000962	0.0100	10	04/19/2021 06:20	WG1654151
Carbon tetrachloride	U		0.00128	0.0100	10	04/19/2021 06:20	WG1654151

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.00116	0.0100	10	04/19/2021 06:20	WG1654151
Chlorodibromomethane	U		0.00140	0.0100	10	04/19/2021 06:20	WG1654151
Chloroethane	U		0.00192	0.0500	10	04/19/2021 06:20	WG1654151
Chloroform	U		0.00111	0.0500	10	04/19/2021 06:20	WG1654151
Chloromethane	U		0.00960	0.0250	10	04/19/2021 06:20	WG1654151
1,2-Dibromoethane	U		0.00126	0.0100	10	04/19/2021 06:20	WG1654151
1,1-Dichloroethane	U		0.00100	0.0100	10	04/19/2021 06:20	WG1654151
1,2-Dichloroethane	U		0.000819	0.0100	10	04/19/2021 06:20	WG1654151
1,1-Dichloroethene	U		0.00188	0.0100	10	04/19/2021 06:20	WG1654151
cis-1,2-Dichloroethene	U		0.00126	0.0100	10	04/19/2021 06:20	WG1654151
trans-1,2-Dichloroethene	U		0.00149	0.0100	10	04/19/2021 06:20	WG1654151
1,2-Dichloropropane	U		0.00149	0.0100	10	04/19/2021 06:20	WG1654151
cis-1,3-Dichloropropene	U		0.00111	0.0100	10	04/19/2021 06:20	WG1654151
trans-1,3-Dichloropropene	U		0.00118	0.0100	10	04/19/2021 06:20	WG1654151
Ethylbenzene	0.00539	J	0.00137	0.0100	10	04/19/2021 06:20	WG1654151
Isopropylbenzene	0.0482		0.00105	0.0100	10	04/19/2021 06:20	WG1654151
p-Isopropyltoluene	U		0.00120	0.0100	10	04/19/2021 06:20	WG1654151
2-Butanone (MEK)	U		0.0119	0.100	10	04/19/2021 06:20	WG1654151
2-Hexanone	U		0.00787	0.100	10	04/19/2021 06:20	WG1654151
Methylene Chloride	U		0.00430	0.0500	10	04/19/2021 06:20	WG1654151
4-Methyl-2-pentanone (MIBK)	U		0.00478	0.100	10	04/19/2021 06:20	WG1654151
Methyl tert-butyl ether	U		0.00101	0.0100	10	04/19/2021 06:20	WG1654151
Naphthalene	U		0.0100	0.0500	10	04/19/2021 06:20	WG1654151
n-Propylbenzene	0.0470		0.000993	0.0100	10	04/19/2021 06:20	WG1654151
Styrene	U		0.00118	0.0100	10	04/19/2021 06:20	WG1654151
1,1,1,2-Tetrachloroethane	U		0.00147	0.0100	10	04/19/2021 06:20	WG1654151
1,1,2,2-Tetrachloroethane	U		0.00133	0.0100	10	04/19/2021 06:20	WG1654151
Tetrachloroethene	U		0.00300	0.0100	10	04/19/2021 06:20	WG1654151
Toluene	0.00829	J	0.00278	0.0100	10	04/19/2021 06:20	WG1654151
1,1,1-Trichloroethane	U		0.00149	0.0100	10	04/19/2021 06:20	WG1654151
1,1,2-Trichloroethane	U		0.00158	0.0100	10	04/19/2021 06:20	WG1654151
Trichloroethene	U		0.00190	0.0100	10	04/19/2021 06:20	WG1654151
1,2,4-Trimethylbenzene	U		0.00322	0.0100	10	04/19/2021 06:20	WG1654151
1,3,5-Trimethylbenzene	U		0.00104	0.0100	10	04/19/2021 06:20	WG1654151
Vinyl chloride	U		0.00234	0.0100	10	04/19/2021 06:20	WG1654151
o-Xylene	U		0.00174	0.0100	10	04/19/2021 06:20	WG1654151
m&p-Xylene	0.00555	J	0.00430	0.0200	10	04/19/2021 06:20	WG1654151
Xylenes, Total	0.00555	J	0.00174	0.0300	10	04/19/2021 06:20	WG1654151
(S) Toluene-d8	*101*			*80.0-120*		*04/19/2021 06:20*	WG1654151
(S) 4-Bromofluorobenzene	*101*			*77.0-126*		*04/19/2021 06:20*	WG1654151
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*04/19/2021 06:20*	WG1654151

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	1.57		0.0247	0.100	1	04/23/2021 11:42	WG1656980
(S) o-Terphenyl	*75.0*			*31.0-160*		*04/23/2021 11:42*	WG1656980

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1310		10.0	1	04/21/2021 04:12	WG1655622

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.0916	J	0.0500	0.100	1	04/22/2021 14:28	WG1656952

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	75.8		0.379	1.00	1	04/24/2021 21:58	WG1657223
Fluoride	1.33		0.0640	0.150	1	04/24/2021 21:58	WG1657223
Sulfate	433		2.97	25.0	5	04/26/2021 11:27	WG1657223

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0507		0.000180	0.00200	1	04/28/2021 15:14	WG1659223
Arsenic,Dissolved	0.0344		0.000180	0.00200	1	04/27/2021 11:25	WG1656517
Barium	0.0598		0.000381	0.0200	1	04/28/2021 15:14	WG1659223
Barium,Dissolved	0.0465		0.000381	0.0200	1	04/27/2021 11:25	WG1656517
Calcium	101		0.0936	1.00	1	04/28/2021 15:14	WG1659223
Chromium	0.00248		0.00124	0.00200	1	04/28/2021 15:14	WG1659223
Chromium,Dissolved	U		0.00124	0.00200	1	04/27/2021 11:25	WG1656517
Iron	3.19		0.0281	0.100	1	04/28/2021 15:14	WG1659223
Iron,Dissolved	U		0.0281	0.100	1	04/27/2021 11:25	WG1656517
Lead	0.00142	J	0.000849	0.00200	1	04/28/2021 15:14	WG1659223
Lead,Dissolved	U		0.000849	0.00200	1	04/27/2021 11:25	WG1656517
Manganese	1.85		0.000704	0.00500	1	04/28/2021 15:14	WG1659223
Manganese,Dissolved	2.03		0.000704	0.00500	1	04/27/2021 11:25	WG1656517
Potassium	0.430	J	0.108	2.00	1	04/28/2021 15:14	WG1659223
Selenium	0.000319	J	0.000300	0.00200	1	04/28/2021 18:42	WG1659223
Selenium,Dissolved	U		0.000300	0.00200	1	04/27/2021 11:25	WG1656517
Sodium	271		0.376	2.00	1	04/28/2021 15:14	WG1659223

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.639		0.0314	0.100	1	04/24/2021 11:04	WG1657432
(S) a,a,a-Trifluorotoluene(FID)	*92.7*			*78.0-120*		*04/24/2021 11:04*	WG1657432

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/19/2021 03:08	WG1654151
Benzene	0.0581		0.0000941	0.00100	1	04/19/2021 03:08	WG1654151
Bromodichloromethane	U		0.000136	0.00100	1	04/19/2021 03:08	WG1654151
Bromoform	U		0.000129	0.00100	1	04/19/2021 03:08	WG1654151
Bromomethane	U		0.000605	0.00500	1	04/19/2021 03:08	WG1654151
n-Butylbenzene	U		0.000157	0.00100	1	04/19/2021 03:08	WG1654151
sec-Butylbenzene	0.00298		0.000125	0.00100	1	04/19/2021 03:08	WG1654151
Carbon disulfide	U		0.0000962	0.00100	1	04/19/2021 03:08	WG1654151
Carbon tetrachloride	U		0.000128	0.00100	1	04/19/2021 03:08	WG1654151

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/19/2021 03:08	WG1654151
Chlorodibromomethane	U		0.000140	0.00100	1	04/19/2021 03:08	WG1654151
Chloroethane	U		0.000192	0.00500	1	04/19/2021 03:08	WG1654151
Chloroform	U		0.000111	0.00500	1	04/19/2021 03:08	WG1654151
Chloromethane	U		0.000960	0.00250	1	04/19/2021 03:08	WG1654151
1,2-Dibromoethane	U		0.000126	0.00100	1	04/19/2021 03:08	WG1654151
1,1-Dichloroethane	U		0.000100	0.00100	1	04/19/2021 03:08	WG1654151
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/19/2021 03:08	WG1654151
1,1-Dichloroethene	U		0.000188	0.00100	1	04/19/2021 03:08	WG1654151
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/19/2021 03:08	WG1654151
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/19/2021 03:08	WG1654151
1,2-Dichloropropane	U		0.000149	0.00100	1	04/19/2021 03:08	WG1654151
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/19/2021 03:08	WG1654151
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/19/2021 03:08	WG1654151
Ethylbenzene	0.000193	J	0.000137	0.00100	1	04/19/2021 03:08	WG1654151
Isopropylbenzene	0.0104		0.000105	0.00100	1	04/19/2021 03:08	WG1654151
p-Isopropyltoluene	U		0.000120	0.00100	1	04/19/2021 03:08	WG1654151
2-Butanone (MEK)	U		0.00119	0.0100	1	04/19/2021 03:08	WG1654151
2-Hexanone	U		0.000787	0.0100	1	04/19/2021 03:08	WG1654151
Methylene Chloride	U		0.000430	0.00500	1	04/19/2021 03:08	WG1654151
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/19/2021 03:08	WG1654151
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/19/2021 03:08	WG1654151
Naphthalene	U		0.00100	0.00500	1	04/19/2021 03:08	WG1654151
n-Propylbenzene	0.00139		0.0000993	0.00100	1	04/19/2021 03:08	WG1654151
Styrene	U		0.000118	0.00100	1	04/19/2021 03:08	WG1654151
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/19/2021 03:08	WG1654151
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/19/2021 03:08	WG1654151
Tetrachloroethene	U		0.000300	0.00100	1	04/19/2021 03:08	WG1654151
Toluene	0.000418	J	0.000278	0.00100	1	04/19/2021 03:08	WG1654151
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/19/2021 03:08	WG1654151
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/19/2021 03:08	WG1654151
Trichloroethene	U		0.000190	0.00100	1	04/19/2021 03:08	WG1654151
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/19/2021 03:08	WG1654151
1,3,5-Trimethylbenzene	0.000127	J	0.000104	0.00100	1	04/19/2021 03:08	WG1654151
Vinyl chloride	U		0.000234	0.00100	1	04/19/2021 03:08	WG1654151
o-Xylene	U		0.000174	0.00100	1	04/19/2021 03:08	WG1654151
m&p-Xylene	0.000578	J	0.000430	0.00200	1	04/19/2021 03:08	WG1654151
Xylenes, Total	0.000578	J	0.000174	0.00300	1	04/19/2021 03:08	WG1654151
(S) Toluene-d8	*88.3*			*80.0-120*		*04/19/2021 03:08*	WG1654151
(S) 4-Bromofluorobenzene	*90.0*			*77.0-126*		*04/19/2021 03:08*	WG1654151
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*04/19/2021 03:08*	WG1654151

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.999		0.0247	0.100	1	04/23/2021 11:59	WG1656980
(S) o-Terphenyl	*68.0*			*31.0-160*		*04/23/2021 11:59*	WG1656980

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2480		20.0	1	04/21/2021 04:12	WG1655622

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.121		0.0500	0.100	1	04/22/2021 14:29	WG1656952

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	169	B	37.9	100	100	04/24/2021 23:20	WG1657223
Fluoride	0.480		0.0640	0.150	1	04/24/2021 23:04	WG1657223
Sulfate	956		59.4	500	100	04/24/2021 23:20	WG1657223

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00103	J	0.000180	0.00200	1	04/28/2021 15:44	WG1659223
Arsenic,Dissolved	0.000887	J	0.000180	0.00200	1	04/27/2021 11:29	WG1656517
Barium	0.0245		0.000381	0.0200	1	04/28/2021 15:44	WG1659223
Barium,Dissolved	0.0234		0.000381	0.0200	1	04/27/2021 11:29	WG1656517
Calcium	331		0.0936	1.00	1	04/28/2021 15:44	WG1659223
Chromium	U		0.00124	0.00200	1	04/28/2021 15:44	WG1659223
Chromium,Dissolved	U		0.00124	0.00200	1	04/27/2021 11:29	WG1656517
Iron	0.730		0.0281	0.100	1	04/28/2021 15:44	WG1659223
Iron,Dissolved	U		0.0281	0.100	1	04/27/2021 11:29	WG1656517
Lead	U		0.000849	0.00200	1	04/28/2021 15:44	WG1659223
Lead,Dissolved	U		0.000849	0.00200	1	04/27/2021 11:29	WG1656517
Manganese	1.25		0.000704	0.00500	1	04/28/2021 15:44	WG1659223
Manganese,Dissolved	1.38		0.000704	0.00500	1	04/27/2021 11:29	WG1656517
Potassium	0.602	J	0.108	2.00	1	04/28/2021 15:44	WG1659223
Selenium	U		0.000300	0.00200	1	04/28/2021 15:44	WG1659223
Selenium,Dissolved	U		0.000300	0.00200	1	04/27/2021 11:29	WG1656517
Sodium	170		0.376	2.00	1	04/28/2021 15:44	WG1659223

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	3.66		0.0314	0.100	1	04/24/2021 11:26	WG1657432
(S) a,a,a-Trifluorotoluene(FID)	*105*			*78.0-120*		*04/24/2021 11:26*	WG1657432

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0565	0.250	5	04/19/2021 06:39	WG1654151
Benzene	0.0272		0.000471	0.00500	5	04/19/2021 06:39	WG1654151
Bromodichloromethane	U		0.000680	0.00500	5	04/19/2021 06:39	WG1654151
Bromoform	U		0.000645	0.00500	5	04/19/2021 06:39	WG1654151
Bromomethane	U		0.00303	0.0250	5	04/19/2021 06:39	WG1654151
n-Butylbenzene	U		0.000785	0.00500	5	04/19/2021 06:39	WG1654151
sec-Butylbenzene	0.000965	J	0.000625	0.00500	5	04/19/2021 06:39	WG1654151
Carbon disulfide	U		0.000481	0.00500	5	04/19/2021 06:39	WG1654151
Carbon tetrachloride	U		0.000640	0.00500	5	04/19/2021 06:39	WG1654151

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000580	0.00500	5	04/19/2021 06:39	WG1654151
Chlorodibromomethane	U		0.000700	0.00500	5	04/19/2021 06:39	WG1654151
Chloroethane	U		0.000960	0.0250	5	04/19/2021 06:39	WG1654151
Chloroform	U		0.000555	0.0250	5	04/19/2021 06:39	WG1654151
Chloromethane	U		0.00480	0.0125	5	04/19/2021 06:39	WG1654151
1,2-Dibromoethane	U		0.000630	0.00500	5	04/19/2021 06:39	WG1654151
1,1-Dichloroethane	U		0.000500	0.00500	5	04/19/2021 06:39	WG1654151
1,2-Dichloroethane	U		0.000409	0.00500	5	04/19/2021 06:39	WG1654151
1,1-Dichloroethene	U		0.000940	0.00500	5	04/19/2021 06:39	WG1654151
cis-1,2-Dichloroethene	U		0.000630	0.00500	5	04/19/2021 06:39	WG1654151
trans-1,2-Dichloroethene	U		0.000745	0.00500	5	04/19/2021 06:39	WG1654151
1,2-Dichloropropane	U		0.000745	0.00500	5	04/19/2021 06:39	WG1654151
cis-1,3-Dichloropropene	U		0.000555	0.00500	5	04/19/2021 06:39	WG1654151
trans-1,3-Dichloropropene	U		0.000590	0.00500	5	04/19/2021 06:39	WG1654151
Ethylbenzene	0.0126		0.000685	0.00500	5	04/19/2021 06:39	WG1654151
Isopropylbenzene	0.00161	J	0.000525	0.00500	5	04/19/2021 06:39	WG1654151
p-Isopropyltoluene	0.00120	J	0.000600	0.00500	5	04/19/2021 06:39	WG1654151
2-Butanone (MEK)	U		0.00595	0.0500	5	04/19/2021 06:39	WG1654151
2-Hexanone	U		0.00394	0.0500	5	04/19/2021 06:39	WG1654151
Methylene Chloride	U		0.00215	0.0250	5	04/19/2021 06:39	WG1654151
4-Methyl-2-pentanone (MIBK)	U		0.00239	0.0500	5	04/19/2021 06:39	WG1654151
Methyl tert-butyl ether	0.00805		0.000505	0.00500	5	04/19/2021 06:39	WG1654151
Naphthalene	U		0.00500	0.0250	5	04/19/2021 06:39	WG1654151
n-Propylbenzene	0.00198	J	0.000497	0.00500	5	04/19/2021 06:39	WG1654151
Styrene	U		0.000590	0.00500	5	04/19/2021 06:39	WG1654151
1,1,1,2-Tetrachloroethane	U		0.000735	0.00500	5	04/19/2021 06:39	WG1654151
1,1,2,2-Tetrachloroethane	U		0.000665	0.00500	5	04/19/2021 06:39	WG1654151
Tetrachloroethene	U		0.00150	0.00500	5	04/19/2021 06:39	WG1654151
Toluene	U		0.00139	0.00500	5	04/19/2021 06:39	WG1654151
1,1,1-Trichloroethane	U		0.000745	0.00500	5	04/19/2021 06:39	WG1654151
1,1,2-Trichloroethane	U		0.000790	0.00500	5	04/19/2021 06:39	WG1654151
Trichloroethene	U		0.000950	0.00500	5	04/19/2021 06:39	WG1654151
1,2,4-Trimethylbenzene	0.0410		0.00161	0.00500	5	04/19/2021 06:39	WG1654151
1,3,5-Trimethylbenzene	0.00273	J	0.000520	0.00500	5	04/19/2021 06:39	WG1654151
Vinyl chloride	U		0.00117	0.00500	5	04/19/2021 06:39	WG1654151
o-Xylene	0.00172	J	0.000870	0.00500	5	04/19/2021 06:39	WG1654151
m&p-Xylene	0.0395		0.00215	0.0100	5	04/19/2021 06:39	WG1654151
Xylenes, Total	0.0412		0.000870	0.0150	5	04/19/2021 06:39	WG1654151
(S) Toluene-d8	*101*			*80.0-120*		*04/19/2021 06:39*	WG1654151
(S) 4-Bromofluorobenzene	*102*			*77.0-126*		*04/19/2021 06:39*	WG1654151
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*04/19/2021 06:39*	WG1654151

Sample Narrative:

L1340127-06 WG1654151: Non-target compounds too high to run at a lower dilution.

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.330		0.0247	0.100	1	04/23/2021 12:16	WG1656980
(S) o-Terphenyl	*95.5*			*31.0-160*		*04/23/2021 12:16*	WG1656980

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4870		20.0	1	04/21/2021 04:12	WG1655622

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	1.17		0.0500	0.100	1	04/22/2021 14:31	WG1656952

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	295	B	37.9	100	100	04/24/2021 23:56	WG1657223
Fluoride	0.959		0.0640	0.150	1	04/24/2021 23:40	WG1657223
Sulfate	2610		59.4	500	100	04/24/2021 23:56	WG1657223

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00352		0.000180	0.00200	1	04/28/2021 15:47	WG1659223
Arsenic,Dissolved	0.00366		0.000180	0.00200	1	04/27/2021 11:32	WG1656517
Barium	0.00901	J	0.000381	0.0200	1	04/28/2021 15:47	WG1659223
Barium,Dissolved	0.00904	J	0.000381	0.0200	1	04/27/2021 11:32	WG1656517
Calcium	540		0.0936	1.00	1	04/28/2021 15:47	WG1659223
Chromium	0.00150	J	0.00124	0.00200	1	04/28/2021 15:47	WG1659223
Chromium,Dissolved	U		0.00124	0.00200	1	04/27/2021 11:32	WG1656517
Iron	0.0433	J	0.0281	0.100	1	04/28/2021 15:47	WG1659223
Iron,Dissolved	U		0.0281	0.100	1	04/27/2021 11:32	WG1656517
Lead	U		0.000849	0.00200	1	04/28/2021 15:47	WG1659223
Lead,Dissolved	U		0.000849	0.00200	1	04/27/2021 11:32	WG1656517
Manganese	0.0163		0.000704	0.00500	1	04/28/2021 15:47	WG1659223
Manganese,Dissolved	0.0142		0.000704	0.00500	1	04/27/2021 11:32	WG1656517
Potassium	1.77	J	0.108	2.00	1	04/28/2021 15:47	WG1659223
Selenium	0.00550		0.000300	0.00200	1	04/28/2021 15:47	WG1659223
Selenium,Dissolved	0.00487		0.000300	0.00200	1	04/27/2021 11:32	WG1656517
Sodium	269		0.376	2.00	1	04/28/2021 15:47	WG1659223

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0419	J	0.0314	0.100	1	04/24/2021 11:48	WG1657432
(S) a,a,a-Trifluorotoluene(FID)	*100*			*78.0-120*		*04/24/2021 11:48*	WG1657432

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/19/2021 03:28	WG1654151
Benzene	U		0.0000941	0.00100	1	04/19/2021 03:28	WG1654151
Bromodichloromethane	U		0.000136	0.00100	1	04/19/2021 03:28	WG1654151
Bromoform	U		0.000129	0.00100	1	04/19/2021 03:28	WG1654151
Bromomethane	U		0.000605	0.00500	1	04/19/2021 03:28	WG1654151
n-Butylbenzene	U		0.000157	0.00100	1	04/19/2021 03:28	WG1654151
sec-Butylbenzene	U		0.000125	0.00100	1	04/19/2021 03:28	WG1654151
Carbon disulfide	U		0.0000962	0.00100	1	04/19/2021 03:28	WG1654151
Carbon tetrachloride	U		0.000128	0.00100	1	04/19/2021 03:28	WG1654151

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/19/2021 03:28	WG1654151
Chlorodibromomethane	U		0.000140	0.00100	1	04/19/2021 03:28	WG1654151
Chloroethane	U		0.000192	0.00500	1	04/19/2021 03:28	WG1654151
Chloroform	U		0.000111	0.00500	1	04/19/2021 03:28	WG1654151
Chloromethane	U		0.000960	0.00250	1	04/19/2021 03:28	WG1654151
1,2-Dibromoethane	U		0.000126	0.00100	1	04/19/2021 03:28	WG1654151
1,1-Dichloroethane	U		0.000100	0.00100	1	04/19/2021 03:28	WG1654151
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/19/2021 03:28	WG1654151
1,1-Dichloroethene	U		0.000188	0.00100	1	04/19/2021 03:28	WG1654151
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/19/2021 03:28	WG1654151
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/19/2021 03:28	WG1654151
1,2-Dichloropropane	U		0.000149	0.00100	1	04/19/2021 03:28	WG1654151
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/19/2021 03:28	WG1654151
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/19/2021 03:28	WG1654151
Ethylbenzene	U		0.000137	0.00100	1	04/19/2021 03:28	WG1654151
Isopropylbenzene	U		0.000105	0.00100	1	04/19/2021 03:28	WG1654151
p-Isopropyltoluene	U		0.000120	0.00100	1	04/19/2021 03:28	WG1654151
2-Butanone (MEK)	U		0.00119	0.0100	1	04/19/2021 03:28	WG1654151
2-Hexanone	U		0.000787	0.0100	1	04/19/2021 03:28	WG1654151
Methylene Chloride	U		0.000430	0.00500	1	04/19/2021 03:28	WG1654151
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/19/2021 03:28	WG1654151
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/19/2021 03:28	WG1654151
Naphthalene	U		0.00100	0.00500	1	04/19/2021 03:28	WG1654151
n-Propylbenzene	U		0.0000993	0.00100	1	04/19/2021 03:28	WG1654151
Styrene	U		0.000118	0.00100	1	04/19/2021 03:28	WG1654151
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/19/2021 03:28	WG1654151
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/19/2021 03:28	WG1654151
Tetrachloroethene	U		0.000300	0.00100	1	04/19/2021 03:28	WG1654151
Toluene	U		0.000278	0.00100	1	04/19/2021 03:28	WG1654151
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/19/2021 03:28	WG1654151
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/19/2021 03:28	WG1654151
Trichloroethene	U		0.000190	0.00100	1	04/19/2021 03:28	WG1654151
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/19/2021 03:28	WG1654151
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/19/2021 03:28	WG1654151
Vinyl chloride	U		0.000234	0.00100	1	04/19/2021 03:28	WG1654151
o-Xylene	U		0.000174	0.00100	1	04/19/2021 03:28	WG1654151
m&p-Xylene	U		0.000430	0.00200	1	04/19/2021 03:28	WG1654151
Xylenes, Total	U		0.000174	0.00300	1	04/19/2021 03:28	WG1654151
(S) Toluene-d8	*101*			*80.0-120*		*04/19/2021 03:28*	WG1654151
(S) 4-Bromofluorobenzene	*99.5*			*77.0-126*		*04/19/2021 03:28*	WG1654151
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*04/19/2021 03:28*	WG1654151

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.120		0.0247	0.100	1	04/23/2021 12:33	WG1656980
(S) o-Terphenyl	*80.5*			*31.0-160*		*04/23/2021 12:33*	WG1656980

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2510		13.3	1	04/21/2021 04:12	WG1655622

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	1.49		0.0500	0.100	1	04/22/2021 14:32	WG1656952

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	122		7.58	20.0	20	04/25/2021 01:02	WG1657223
Fluoride	0.347		0.0640	0.150	1	04/25/2021 00:12	WG1657223
Sulfate	1410		11.9	100	20	04/25/2021 01:02	WG1657223

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Calcium	424		0.0936	1.00	1	04/28/2021 15:51	WG1659223
Potassium	2.45		0.108	2.00	1	04/28/2021 15:51	WG1659223
Sodium	106		0.376	2.00	1	04/28/2021 15:51	WG1659223

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/19/2021 03:47	WG1654151
Benzene	U		0.0000941	0.00100	1	04/19/2021 03:47	WG1654151
Bromodichloromethane	U		0.000136	0.00100	1	04/19/2021 03:47	WG1654151
Bromoform	U		0.000129	0.00100	1	04/19/2021 03:47	WG1654151
Bromomethane	U		0.000605	0.00500	1	04/19/2021 03:47	WG1654151
n-Butylbenzene	U		0.000157	0.00100	1	04/19/2021 03:47	WG1654151
sec-Butylbenzene	U		0.000125	0.00100	1	04/19/2021 03:47	WG1654151
Carbon disulfide	U		0.0000962	0.00100	1	04/19/2021 03:47	WG1654151
Carbon tetrachloride	U		0.000128	0.00100	1	04/19/2021 03:47	WG1654151
Chlorobenzene	U		0.000116	0.00100	1	04/19/2021 03:47	WG1654151
Chlorodibromomethane	U		0.000140	0.00100	1	04/19/2021 03:47	WG1654151
Chloroethane	U		0.000192	0.00500	1	04/19/2021 03:47	WG1654151
Chloroform	U		0.000111	0.00500	1	04/19/2021 03:47	WG1654151
Chloromethane	U		0.000960	0.00250	1	04/19/2021 03:47	WG1654151
1,2-Dibromoethane	U		0.000126	0.00100	1	04/19/2021 03:47	WG1654151
1,1-Dichloroethane	U		0.000100	0.00100	1	04/19/2021 03:47	WG1654151
1,2-Dichloroethane	0.00128		0.0000819	0.00100	1	04/19/2021 03:47	WG1654151
1,1-Dichloroethene	U		0.000188	0.00100	1	04/19/2021 03:47	WG1654151
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/19/2021 03:47	WG1654151
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/19/2021 03:47	WG1654151
1,2-Dichloropropane	U		0.000149	0.00100	1	04/19/2021 03:47	WG1654151
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/19/2021 03:47	WG1654151
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/19/2021 03:47	WG1654151
Ethylbenzene	U		0.000137	0.00100	1	04/19/2021 03:47	WG1654151
Isopropylbenzene	U		0.000105	0.00100	1	04/19/2021 03:47	WG1654151
p-Isopropyltoluene	U		0.000120	0.00100	1	04/19/2021 03:47	WG1654151
2-Butanone (MEK)	U		0.00119	0.0100	1	04/19/2021 03:47	WG1654151
2-Hexanone	U		0.000787	0.0100	1	04/19/2021 03:47	WG1654151
Methylene Chloride	U		0.000430	0.00500	1	04/19/2021 03:47	WG1654151
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/19/2021 03:47	WG1654151

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	0.0136		0.000101	0.00100	1	04/19/2021 03:47	WG1654151
Naphthalene	U		0.00100	0.00500	1	04/19/2021 03:47	WG1654151
n-Propylbenzene	U		0.0000993	0.00100	1	04/19/2021 03:47	WG1654151
Styrene	U		0.000118	0.00100	1	04/19/2021 03:47	WG1654151
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/19/2021 03:47	WG1654151
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/19/2021 03:47	WG1654151
Tetrachloroethene	U		0.000300	0.00100	1	04/19/2021 03:47	WG1654151
Toluene	U		0.000278	0.00100	1	04/19/2021 03:47	WG1654151
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/19/2021 03:47	WG1654151
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/19/2021 03:47	WG1654151
Trichloroethene	U		0.000190	0.00100	1	04/19/2021 03:47	WG1654151
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/19/2021 03:47	WG1654151
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/19/2021 03:47	WG1654151
Vinyl chloride	U		0.000234	0.00100	1	04/19/2021 03:47	WG1654151
o-Xylene	U		0.000174	0.00100	1	04/19/2021 03:47	WG1654151
m&p-Xylene	U		0.000430	0.00200	1	04/19/2021 03:47	WG1654151
Xylenes, Total	U		0.000174	0.00300	1	04/19/2021 03:47	WG1654151
(S) Toluene-d8	*98.9*			*80.0-120*		*04/19/2021 03:47*	WG1654151
(S) 4-Bromofluorobenzene	*100*			*77.0-126*		*04/19/2021 03:47*	WG1654151
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*04/19/2021 03:47*	WG1654151

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2970		20.0	1	04/21/2021 04:12	WG1655622

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.0923	J	0.0500	0.100	1	04/22/2021 14:33	WG1656952

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	533		7.58	20.0	20	04/25/2021 02:24	WG1657223
Fluoride	0.587		0.0640	0.150	1	04/25/2021 01:18	WG1657223
Sulfate	1340		11.9	100	20	04/25/2021 02:24	WG1657223

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Calcium	338		0.0936	1.00	1	04/28/2021 15:54	WG1659223
Potassium	2.49		0.108	2.00	1	04/28/2021 15:54	WG1659223
Sodium	268		0.376	2.00	1	04/28/2021 15:54	WG1659223

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/19/2021 04:06	WG1654151
Benzene	U		0.0000941	0.00100	1	04/19/2021 04:06	WG1654151
Bromodichloromethane	U		0.000136	0.00100	1	04/19/2021 04:06	WG1654151
Bromoform	U		0.000129	0.00100	1	04/19/2021 04:06	WG1654151
Bromomethane	U		0.000605	0.00500	1	04/19/2021 04:06	WG1654151
n-Butylbenzene	U		0.000157	0.00100	1	04/19/2021 04:06	WG1654151
sec-Butylbenzene	U		0.000125	0.00100	1	04/19/2021 04:06	WG1654151
Carbon disulfide	U		0.0000962	0.00100	1	04/19/2021 04:06	WG1654151
Carbon tetrachloride	U		0.000128	0.00100	1	04/19/2021 04:06	WG1654151
Chlorobenzene	U		0.000116	0.00100	1	04/19/2021 04:06	WG1654151
Chlorodibromomethane	U		0.000140	0.00100	1	04/19/2021 04:06	WG1654151
Chloroethane	U		0.000192	0.00500	1	04/19/2021 04:06	WG1654151
Chloroform	U		0.000111	0.00500	1	04/19/2021 04:06	WG1654151
Chloromethane	U		0.000960	0.00250	1	04/19/2021 04:06	WG1654151
1,2-Dibromoethane	U		0.000126	0.00100	1	04/19/2021 04:06	WG1654151
1,1-Dichloroethane	U		0.000100	0.00100	1	04/19/2021 04:06	WG1654151
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/19/2021 04:06	WG1654151
1,1-Dichloroethene	U		0.000188	0.00100	1	04/19/2021 04:06	WG1654151
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/19/2021 04:06	WG1654151
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/19/2021 04:06	WG1654151
1,2-Dichloropropane	U		0.000149	0.00100	1	04/19/2021 04:06	WG1654151
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/19/2021 04:06	WG1654151
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/19/2021 04:06	WG1654151
Ethylbenzene	U		0.000137	0.00100	1	04/19/2021 04:06	WG1654151
Isopropylbenzene	U		0.000105	0.00100	1	04/19/2021 04:06	WG1654151
p-Isopropyltoluene	U		0.000120	0.00100	1	04/19/2021 04:06	WG1654151
2-Butanone (MEK)	U		0.00119	0.0100	1	04/19/2021 04:06	WG1654151
2-Hexanone	U		0.000787	0.0100	1	04/19/2021 04:06	WG1654151
Methylene Chloride	U		0.000430	0.00500	1	04/19/2021 04:06	WG1654151
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/19/2021 04:06	WG1654151

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	0.000124	J	0.000101	0.00100	1	04/19/2021 04:06	WG1654151
Naphthalene	U		0.00100	0.00500	1	04/19/2021 04:06	WG1654151
n-Propylbenzene	U		0.0000993	0.00100	1	04/19/2021 04:06	WG1654151
Styrene	U		0.000118	0.00100	1	04/19/2021 04:06	WG1654151
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/19/2021 04:06	WG1654151
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/19/2021 04:06	WG1654151
Tetrachloroethene	U		0.000300	0.00100	1	04/19/2021 04:06	WG1654151
Toluene	U		0.000278	0.00100	1	04/19/2021 04:06	WG1654151
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/19/2021 04:06	WG1654151
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/19/2021 04:06	WG1654151
Trichloroethene	U		0.000190	0.00100	1	04/19/2021 04:06	WG1654151
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/19/2021 04:06	WG1654151
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/19/2021 04:06	WG1654151
Vinyl chloride	U		0.000234	0.00100	1	04/19/2021 04:06	WG1654151
o-Xylene	U		0.000174	0.00100	1	04/19/2021 04:06	WG1654151
m&p-Xylene	U		0.000430	0.00200	1	04/19/2021 04:06	WG1654151
Xylenes, Total	U		0.000174	0.00300	1	04/19/2021 04:06	WG1654151
(S) Toluene-d8	*99.8*			*80.0-120*		*04/19/2021 04:06*	WG1654151
(S) 4-Bromofluorobenzene	*100*			*77.0-126*		*04/19/2021 04:06*	WG1654151
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*04/19/2021 04:06*	WG1654151

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	1310		10.0	1	04/21/2021 04:12	WG1655622

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.640		0.0500	0.100	1	04/22/2021 14:34	WG1656952

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	153		7.58	20.0	20	04/25/2021 03:13	WG1657223
Fluoride	0.817		0.0640	0.150	1	04/25/2021 02:57	WG1657223
Sulfate	545		11.9	100	20	04/25/2021 03:13	WG1657223

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Calcium	214		0.0936	1.00	1	04/28/2021 14:51	WG1659223
Potassium	1.50	J	0.108	2.00	1	04/28/2021 14:51	WG1659223
Sodium	99.8	V	0.376	2.00	1	04/28/2021 14:51	WG1659223

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0113	0.0500	1	04/19/2021 04:25	WG1654151
Benzene	U		0.0000941	0.00100	1	04/19/2021 04:25	WG1654151
Bromodichloromethane	U		0.000136	0.00100	1	04/19/2021 04:25	WG1654151
Bromoform	U		0.000129	0.00100	1	04/19/2021 04:25	WG1654151
Bromomethane	U		0.000605	0.00500	1	04/19/2021 04:25	WG1654151
n-Butylbenzene	U		0.000157	0.00100	1	04/19/2021 04:25	WG1654151
sec-Butylbenzene	U		0.000125	0.00100	1	04/19/2021 04:25	WG1654151
Carbon disulfide	U		0.0000962	0.00100	1	04/19/2021 04:25	WG1654151
Carbon tetrachloride	U		0.000128	0.00100	1	04/19/2021 04:25	WG1654151
Chlorobenzene	U		0.000116	0.00100	1	04/19/2021 04:25	WG1654151
Chlorodibromomethane	U		0.000140	0.00100	1	04/19/2021 04:25	WG1654151
Chloroethane	U		0.000192	0.00500	1	04/19/2021 04:25	WG1654151
Chloroform	U		0.000111	0.00500	1	04/19/2021 04:25	WG1654151
Chloromethane	U		0.000960	0.00250	1	04/19/2021 04:25	WG1654151
1,2-Dibromoethane	U		0.000126	0.00100	1	04/19/2021 04:25	WG1654151
1,1-Dichloroethane	U		0.000100	0.00100	1	04/19/2021 04:25	WG1654151
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/19/2021 04:25	WG1654151
1,1-Dichloroethene	U		0.000188	0.00100	1	04/19/2021 04:25	WG1654151
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/19/2021 04:25	WG1654151
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/19/2021 04:25	WG1654151
1,2-Dichloropropane	U		0.000149	0.00100	1	04/19/2021 04:25	WG1654151
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/19/2021 04:25	WG1654151
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/19/2021 04:25	WG1654151
Ethylbenzene	U		0.000137	0.00100	1	04/19/2021 04:25	WG1654151
Isopropylbenzene	U		0.000105	0.00100	1	04/19/2021 04:25	WG1654151
p-Isopropyltoluene	U		0.000120	0.00100	1	04/19/2021 04:25	WG1654151
2-Butanone (MEK)	U		0.00119	0.0100	1	04/19/2021 04:25	WG1654151
2-Hexanone	U		0.000787	0.0100	1	04/19/2021 04:25	WG1654151
Methylene Chloride	U		0.000430	0.00500	1	04/19/2021 04:25	WG1654151
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/19/2021 04:25	WG1654151

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/19/2021 04:25	WG1654151
Naphthalene	U		0.00100	0.00500	1	04/19/2021 04:25	WG1654151
n-Propylbenzene	U		0.0000993	0.00100	1	04/19/2021 04:25	WG1654151
Styrene	U		0.000118	0.00100	1	04/19/2021 04:25	WG1654151
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/19/2021 04:25	WG1654151
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/19/2021 04:25	WG1654151
Tetrachloroethene	U		0.000300	0.00100	1	04/19/2021 04:25	WG1654151
Toluene	U		0.000278	0.00100	1	04/19/2021 04:25	WG1654151
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/19/2021 04:25	WG1654151
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/19/2021 04:25	WG1654151
Trichloroethene	U		0.000190	0.00100	1	04/19/2021 04:25	WG1654151
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/19/2021 04:25	WG1654151
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/19/2021 04:25	WG1654151
Vinyl chloride	U		0.000234	0.00100	1	04/19/2021 04:25	WG1654151
o-Xylene	U		0.000174	0.00100	1	04/19/2021 04:25	WG1654151
m&p-Xylene	U		0.000430	0.00200	1	04/19/2021 04:25	WG1654151
Xylenes, Total	U		0.000174	0.00300	1	04/19/2021 04:25	WG1654151
(S) Toluene-d8	*102*			*80.0-120*		*04/19/2021 04:25*	WG1654151
(S) 4-Bromofluorobenzene	*99.7*			*77.0-126*		*04/19/2021 04:25*	WG1654151
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*04/19/2021 04:25*	WG1654151

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	2000		20.0	1	04/21/2021 04:12	WG1655622

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.109		0.0500	0.100	1	04/22/2021 14:36	WG1656952

Wet Chemistry by Method 4500CN E-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Cyanide	U		0.0450	0.125	25	04/26/2021 14:30	WG1657212

Sample Narrative:

L1340127-11 WG1657212: Dilution due to Nitrate interference. Only able to prep 2mL initial volume.

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	369		7.58	20.0	20	04/25/2021 03:46	WG1657223
Fluoride	0.710		0.0640	0.150	1	04/25/2021 03:30	WG1657223
Sulfate	349		11.9	100	20	04/25/2021 03:46	WG1657223

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.000100	0.000200	1	04/22/2021 10:17	WG1654193
Mercury,Dissolved	U		0.000100	0.000200	1	04/22/2021 14:40	WG1654201

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Boron	0.435		0.0200	0.200	1	04/27/2021 10:17	WG1656882
Boron,Dissolved	0.451		0.0200	0.200	1	04/28/2021 09:31	WG1659249

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00346		0.000180	0.00200	1	04/28/2021 15:57	WG1659223
Arsenic,Dissolved	0.00255		0.000180	0.00200	1	04/27/2021 11:49	WG1656517
Barium	0.259		0.000381	0.0200	1	04/28/2021 15:57	WG1659223
Barium,Dissolved	0.243		0.000381	0.0200	1	04/27/2021 11:49	WG1656517
Cadmium	U		0.000150	0.00100	1	04/28/2021 15:57	WG1659223
Cadmium,Dissolved	U		0.000150	0.00100	1	04/27/2021 11:49	WG1656517
Calcium	251		0.0936	1.00	1	04/28/2021 15:57	WG1659223
Chromium	U		0.00124	0.00200	1	04/28/2021 15:57	WG1659223
Chromium,Dissolved	U		0.00124	0.00200	1	04/27/2021 11:49	WG1656517
Cobalt	0.00108	J	0.0000596	0.00200	1	04/28/2021 15:57	WG1659223
Cobalt,Dissolved	U		0.0000596	0.00200	1	04/27/2021 11:49	WG1656517
Iron	1.58		0.140	0.500	5	04/28/2021 16:56	WG1659223
Iron,Dissolved	0.0377	J	0.0281	0.100	1	04/27/2021 11:49	WG1656517
Lead	0.00264		0.000849	0.00200	1	04/28/2021 15:57	WG1659223
Lead,Dissolved	U		0.000849	0.00200	1	04/27/2021 11:49	WG1656517
Manganese	1.34		0.000704	0.00500	1	04/28/2021 15:57	WG1659223

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Manganese,Dissolved	1.33		0.000704	0.00500	1	04/27/2021 11:49	WG1656517
Nickel	0.00336		0.000816	0.00200	1	04/28/2021 15:57	WG1659223
Nickel,Dissolved	0.00100	J	0.000816	0.00200	1	04/27/2021 11:49	WG1656517
Potassium	0.376	J	0.108	2.00	1	04/28/2021 15:57	WG1659223
Selenium	0.000427	J	0.000300	0.00200	1	04/28/2021 15:57	WG1659223
Selenium,Dissolved	0.000575	J	0.000300	0.00200	1	04/27/2021 11:49	WG1656517
Sodium	269		0.376	2.00	1	04/28/2021 15:57	WG1659223
Uranium	0.00404	J	0.0000700	0.0200	1	04/28/2021 15:57	WG1659223
Uranium,Dissolved	0.00369	J	0.0000700	0.0200	1	04/27/2021 11:49	WG1656517
Vanadium	0.00459	J	0.000664	0.00500	1	04/28/2021 15:57	WG1659223
Vanadium,Dissolved	0.00298	J	0.000664	0.00500	1	04/27/2021 11:49	WG1656517

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/19/2021 04:44	WG1654151
Benzene	1.01		0.00188	0.0200	20	04/23/2021 16:53	WG1657665
Bromodichloromethane	U		0.000136	0.00100	1	04/19/2021 04:44	WG1654151
Bromoform	U		0.000129	0.00100	1	04/19/2021 04:44	WG1654151
Bromomethane	U		0.000605	0.00500	1	04/19/2021 04:44	WG1654151
n-Butylbenzene	0.00170		0.000157	0.00100	1	04/19/2021 04:44	WG1654151
sec-Butylbenzene	0.00793		0.000125	0.00100	1	04/19/2021 04:44	WG1654151
Carbon disulfide	0.000668	J	0.0000962	0.00100	1	04/19/2021 04:44	WG1654151
Carbon tetrachloride	U		0.000128	0.00100	1	04/19/2021 04:44	WG1654151
Chlorobenzene	U		0.000116	0.00100	1	04/19/2021 04:44	WG1654151
Chlorodibromomethane	U		0.000140	0.00100	1	04/19/2021 04:44	WG1654151
Chloroethane	U		0.000192	0.00500	1	04/19/2021 04:44	WG1654151
Chloroform	U		0.000111	0.00500	1	04/19/2021 04:44	WG1654151
Chloromethane	U		0.000960	0.00250	1	04/19/2021 04:44	WG1654151
1,2-Dibromoethane	U		0.000126	0.00100	1	04/19/2021 04:44	WG1654151
1,1-Dichloroethane	U		0.000100	0.00100	1	04/19/2021 04:44	WG1654151
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/19/2021 04:44	WG1654151
1,1-Dichloroethene	U		0.000188	0.00100	1	04/19/2021 04:44	WG1654151
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/19/2021 04:44	WG1654151
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/19/2021 04:44	WG1654151
1,2-Dichloropropane	U		0.000149	0.00100	1	04/19/2021 04:44	WG1654151
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/19/2021 04:44	WG1654151
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/19/2021 04:44	WG1654151
Ethylbenzene	0.459		0.00274	0.0200	20	04/23/2021 16:53	WG1657665
Isopropylbenzene	0.0554		0.000105	0.00100	1	04/19/2021 04:44	WG1654151
p-Isopropyltoluene	0.00285		0.000120	0.00100	1	04/19/2021 04:44	WG1654151
2-Butanone (MEK)	U		0.00119	0.0100	1	04/19/2021 04:44	WG1654151
2-Hexanone	U		0.000787	0.0100	1	04/19/2021 04:44	WG1654151
Methylene Chloride	U		0.000430	0.00500	1	04/19/2021 04:44	WG1654151
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/19/2021 04:44	WG1654151
Methyl tert-butyl ether	0.00489		0.000101	0.00100	1	04/19/2021 04:44	WG1654151
Naphthalene	0.0306		0.00100	0.00500	1	04/19/2021 04:44	WG1654151
n-Propylbenzene	0.0659		0.0000993	0.00100	1	04/19/2021 04:44	WG1654151
Styrene	U		0.000118	0.00100	1	04/19/2021 04:44	WG1654151
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/19/2021 04:44	WG1654151
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/19/2021 04:44	WG1654151
Tetrachloroethene	U		0.000300	0.00100	1	04/19/2021 04:44	WG1654151
Toluene	0.0255		0.000278	0.00100	1	04/19/2021 04:44	WG1654151
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/19/2021 04:44	WG1654151
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/19/2021 04:44	WG1654151
Trichloroethene	U		0.000190	0.00100	1	04/19/2021 04:44	WG1654151

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trimethylbenzene	0.212		0.00644	0.0200	20	04/23/2021 16:53	WG1657665
1,3,5-Trimethylbenzene	0.00556		0.000104	0.00100	1	04/19/2021 04:44	WG1654151
Vinyl chloride	U		0.000234	0.00100	1	04/19/2021 04:44	WG1654151
o-Xylene	0.0116		0.000174	0.00100	1	04/19/2021 04:44	WG1654151
m&p-Xylene	0.167		0.000430	0.00200	1	04/19/2021 04:44	WG1654151
Xylenes, Total	0.179		0.000174	0.00300	1	04/19/2021 04:44	WG1654151
(S) Toluene-d8	*104*			*80.0-120*		*04/19/2021 04:44*	WG1654151
(S) Toluene-d8	*97.6*			*80.0-120*		*04/23/2021 16:53*	WG1657665
(S) 4-Bromofluorobenzene	*101*			*77.0-126*		*04/19/2021 04:44*	WG1654151
(S) 4-Bromofluorobenzene	*108*			*77.0-126*		*04/23/2021 16:53*	WG1657665
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*04/19/2021 04:44*	WG1654151
(S) 1,2-Dichloroethane-d4	*115*			*70.0-130*		*04/23/2021 16:53*	WG1657665

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	1.94		0.0247	0.100	1	04/23/2021 12:50	WG1656980
(S) o-Terphenyl	*85.0*			*31.0-160*		*04/23/2021 12:50*	WG1656980

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4560		20.0	1	04/21/2021 04:12	WG1655622

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	3.56		0.0500	0.100	1	04/22/2021 15:04	WG1656952

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	357	B	37.9	100	100	04/25/2021 04:19	WG1657223
Fluoride	1.54		0.0640	0.150	1	04/25/2021 04:02	WG1657223
Sulfate	2240		59.4	500	100	04/25/2021 04:19	WG1657223

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00467		0.000180	0.00200	1	04/28/2021 16:01	WG1659223
Arsenic,Dissolved	0.00407		0.000180	0.00200	1	04/27/2021 11:53	WG1656517
Barium	0.0111	J	0.000381	0.0200	1	04/28/2021 16:01	WG1659223
Barium,Dissolved	0.00866	J	0.000381	0.0200	1	04/27/2021 11:53	WG1656517
Calcium	508		0.0936	1.00	1	04/28/2021 16:01	WG1659223
Chromium	U		0.00124	0.00200	1	04/28/2021 16:01	WG1659223
Chromium,Dissolved	U		0.00124	0.00200	1	04/27/2021 11:53	WG1656517
Iron	U		0.140	0.500	5	04/28/2021 16:59	WG1659223
Iron,Dissolved	U		0.0281	0.100	1	04/27/2021 11:53	WG1656517
Lead	U		0.000849	0.00200	1	04/28/2021 16:01	WG1659223
Lead,Dissolved	U		0.000849	0.00200	1	04/27/2021 11:53	WG1656517
Manganese	0.0602		0.000704	0.00500	1	04/28/2021 16:01	WG1659223
Manganese,Dissolved	0.0444		0.000704	0.00500	1	04/27/2021 11:53	WG1656517
Potassium	0.552	J	0.108	2.00	1	04/28/2021 16:01	WG1659223
Selenium	0.00972		0.000300	0.00200	1	04/28/2021 16:01	WG1659223
Selenium,Dissolved	0.00927		0.000300	0.00200	1	04/27/2021 11:53	WG1656517
Sodium	212		0.376	2.00	1	04/28/2021 16:01	WG1659223

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/24/2021 12:09	WG1657432
(S) a,a,a-Trifluorotoluene(FID)	*99.9*			*78.0-120*		*04/24/2021 12:09*	WG1657432

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/19/2021 05:03	WG1654151
Benzene	U		0.0000941	0.00100	1	04/23/2021 17:12	WG1657665
Bromodichloromethane	U		0.000136	0.00100	1	04/19/2021 05:03	WG1654151
Bromoform	U		0.000129	0.00100	1	04/19/2021 05:03	WG1654151
Bromomethane	U		0.000605	0.00500	1	04/19/2021 05:03	WG1654151
n-Butylbenzene	U		0.000157	0.00100	1	04/19/2021 05:03	WG1654151
sec-Butylbenzene	U		0.000125	0.00100	1	04/19/2021 05:03	WG1654151
Carbon disulfide	U		0.0000962	0.00100	1	04/19/2021 05:03	WG1654151
Carbon tetrachloride	U		0.000128	0.00100	1	04/19/2021 05:03	WG1654151

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/19/2021 05:03	WG1654151
Chlorodibromomethane	U		0.000140	0.00100	1	04/19/2021 05:03	WG1654151
Chloroethane	U		0.000192	0.00500	1	04/19/2021 05:03	WG1654151
Chloroform	U		0.000111	0.00500	1	04/19/2021 05:03	WG1654151
Chloromethane	U		0.000960	0.00250	1	04/19/2021 05:03	WG1654151
1,2-Dibromoethane	U		0.000126	0.00100	1	04/19/2021 05:03	WG1654151
1,1-Dichloroethane	U		0.000100	0.00100	1	04/19/2021 05:03	WG1654151
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/19/2021 05:03	WG1654151
1,1-Dichloroethene	U		0.000188	0.00100	1	04/19/2021 05:03	WG1654151
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/19/2021 05:03	WG1654151
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/19/2021 05:03	WG1654151
1,2-Dichloropropane	U		0.000149	0.00100	1	04/19/2021 05:03	WG1654151
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/19/2021 05:03	WG1654151
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/19/2021 05:03	WG1654151
Ethylbenzene	U		0.000137	0.00100	1	04/23/2021 17:12	WG1657665
Isopropylbenzene	U		0.000105	0.00100	1	04/19/2021 05:03	WG1654151
p-Isopropyltoluene	U		0.000120	0.00100	1	04/19/2021 05:03	WG1654151
2-Butanone (MEK)	U		0.00119	0.0100	1	04/19/2021 05:03	WG1654151
2-Hexanone	U		0.000787	0.0100	1	04/19/2021 05:03	WG1654151
Methylene Chloride	U		0.000430	0.00500	1	04/19/2021 05:03	WG1654151
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/19/2021 05:03	WG1654151
Methyl tert-butyl ether	0.0113		0.000101	0.00100	1	04/19/2021 05:03	WG1654151
Naphthalene	U		0.00100	0.00500	1	04/19/2021 05:03	WG1654151
n-Propylbenzene	U		0.0000993	0.00100	1	04/23/2021 17:12	WG1657665
Styrene	U		0.000118	0.00100	1	04/19/2021 05:03	WG1654151
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/19/2021 05:03	WG1654151
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/19/2021 05:03	WG1654151
Tetrachloroethene	U		0.000300	0.00100	1	04/19/2021 05:03	WG1654151
Toluene	U		0.000278	0.00100	1	04/19/2021 05:03	WG1654151
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/19/2021 05:03	WG1654151
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/19/2021 05:03	WG1654151
Trichloroethene	U		0.000190	0.00100	1	04/19/2021 05:03	WG1654151
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/23/2021 17:12	WG1657665
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/19/2021 05:03	WG1654151
Vinyl chloride	U		0.000234	0.00100	1	04/19/2021 05:03	WG1654151
o-Xylene	U		0.000174	0.00100	1	04/19/2021 05:03	WG1654151
m&p-Xylene	U		0.000430	0.00200	1	04/19/2021 05:03	WG1654151
Xylenes, Total	U		0.000174	0.00300	1	04/19/2021 05:03	WG1654151
(S) Toluene-d8	*101*			*80.0-120*		*04/19/2021 05:03*	WG1654151
(S) Toluene-d8	*99.6*			*80.0-120*		*04/23/2021 17:12*	WG1657665
(S) 4-Bromofluorobenzene	*99.4*			*77.0-126*		*04/19/2021 05:03*	WG1654151
(S) 4-Bromofluorobenzene	*106*			*77.0-126*		*04/23/2021 17:12*	WG1657665
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*04/19/2021 05:03*	WG1654151
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*		*04/23/2021 17:12*	WG1657665

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.313		0.0247	0.100	1	04/23/2021 13:07	WG1656980
(S) o-Terphenyl	*84.0*			*31.0-160*		*04/23/2021 13:07*	WG1656980

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2960		20.0	1	04/21/2021 04:12	WG1655622

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.110		0.0500	0.100	1	04/22/2021 14:38	WG1656952

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	180	B	37.9	100	100	04/25/2021 05:25	WG1657223
Fluoride	1.98		0.0640	0.150	1	04/25/2021 04:35	WG1657223
Sulfate	1410		59.4	500	100	04/25/2021 05:25	WG1657223

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00459		0.000180	0.00200	1	04/28/2021 16:04	WG1659223
Arsenic,Dissolved	0.00460		0.000180	0.00200	1	04/27/2021 11:56	WG1656517
Barium	0.0148	J	0.000381	0.0200	1	04/28/2021 16:04	WG1659223
Barium,Dissolved	0.0131	J	0.000381	0.0200	1	04/27/2021 11:56	WG1656517
Calcium	532		0.0936	1.00	1	04/28/2021 16:04	WG1659223
Chromium	U		0.00124	0.00200	1	04/28/2021 16:04	WG1659223
Chromium,Dissolved	U		0.00124	0.00200	1	04/27/2021 11:56	WG1656517
Iron	0.340		0.0281	0.100	1	04/28/2021 16:04	WG1659223
Iron,Dissolved	U		0.0281	0.100	1	04/27/2021 11:56	WG1656517
Lead	U		0.000849	0.00200	1	04/28/2021 16:04	WG1659223
Lead,Dissolved	U		0.000849	0.00200	1	04/27/2021 11:56	WG1656517
Manganese	0.834		0.000704	0.00500	1	04/28/2021 16:04	WG1659223
Manganese,Dissolved	0.889		0.000704	0.00500	1	04/27/2021 11:56	WG1656517
Potassium	2.46		0.108	2.00	1	04/28/2021 16:04	WG1659223
Selenium	0.00440		0.000300	0.00200	1	04/28/2021 16:04	WG1659223
Selenium,Dissolved	0.00325		0.000300	0.00200	1	04/27/2021 11:56	WG1656517
Sodium	118		0.376	2.00	1	04/28/2021 16:04	WG1659223

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/24/2021 12:31	WG1657432
(S) a,a,a-Trifluorotoluene(FID)	*99.7*			*78.0-120*		*04/24/2021 12:31*	WG1657432

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/19/2021 05:22	WG1654151
Benzene	U		0.0000941	0.00100	1	04/23/2021 17:32	WG1657665
Bromodichloromethane	U		0.000136	0.00100	1	04/19/2021 05:22	WG1654151
Bromoform	U		0.000129	0.00100	1	04/19/2021 05:22	WG1654151
Bromomethane	U		0.000605	0.00500	1	04/19/2021 05:22	WG1654151
n-Butylbenzene	U		0.000157	0.00100	1	04/19/2021 05:22	WG1654151
sec-Butylbenzene	U		0.000125	0.00100	1	04/19/2021 05:22	WG1654151
Carbon disulfide	U		0.0000962	0.00100	1	04/19/2021 05:22	WG1654151
Carbon tetrachloride	U		0.000128	0.00100	1	04/19/2021 05:22	WG1654151

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/19/2021 05:22	WG1654151
Chlorodibromomethane	U		0.000140	0.00100	1	04/19/2021 05:22	WG1654151
Chloroethane	U		0.000192	0.00500	1	04/19/2021 05:22	WG1654151
Chloroform	U		0.000111	0.00500	1	04/19/2021 05:22	WG1654151
Chloromethane	U		0.000960	0.00250	1	04/19/2021 05:22	WG1654151
1,2-Dibromoethane	U		0.000126	0.00100	1	04/19/2021 05:22	WG1654151
1,1-Dichloroethane	U		0.000100	0.00100	1	04/19/2021 05:22	WG1654151
1,2-Dichloroethane	0.000160	J	0.0000819	0.00100	1	04/19/2021 05:22	WG1654151
1,1-Dichloroethene	U		0.000188	0.00100	1	04/19/2021 05:22	WG1654151
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/19/2021 05:22	WG1654151
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/19/2021 05:22	WG1654151
1,2-Dichloropropane	U		0.000149	0.00100	1	04/19/2021 05:22	WG1654151
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/19/2021 05:22	WG1654151
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/19/2021 05:22	WG1654151
Ethylbenzene	U		0.000137	0.00100	1	04/23/2021 17:32	WG1657665
Isopropylbenzene	U		0.000105	0.00100	1	04/19/2021 05:22	WG1654151
p-Isopropyltoluene	U		0.000120	0.00100	1	04/19/2021 05:22	WG1654151
2-Butanone (MEK)	U		0.00119	0.0100	1	04/19/2021 05:22	WG1654151
2-Hexanone	U		0.000787	0.0100	1	04/19/2021 05:22	WG1654151
Methylene Chloride	U		0.000430	0.00500	1	04/19/2021 05:22	WG1654151
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/19/2021 05:22	WG1654151
Methyl tert-butyl ether	0.0101		0.000101	0.00100	1	04/19/2021 05:22	WG1654151
Naphthalene	U		0.00100	0.00500	1	04/19/2021 05:22	WG1654151
n-Propylbenzene	U		0.0000993	0.00100	1	04/19/2021 05:22	WG1654151
Styrene	U		0.000118	0.00100	1	04/19/2021 05:22	WG1654151
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/19/2021 05:22	WG1654151
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/19/2021 05:22	WG1654151
Tetrachloroethene	U		0.000300	0.00100	1	04/19/2021 05:22	WG1654151
Toluene	U		0.000278	0.00100	1	04/19/2021 05:22	WG1654151
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/19/2021 05:22	WG1654151
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/19/2021 05:22	WG1654151
Trichloroethene	U		0.000190	0.00100	1	04/19/2021 05:22	WG1654151
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/19/2021 05:22	WG1654151
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/19/2021 05:22	WG1654151
Vinyl chloride	U		0.000234	0.00100	1	04/19/2021 05:22	WG1654151
o-Xylene	U		0.000174	0.00100	1	04/19/2021 05:22	WG1654151
m&p-Xylene	U		0.000430	0.00200	1	04/19/2021 05:22	WG1654151
Xylenes, Total	U		0.000174	0.00300	1	04/19/2021 05:22	WG1654151
(S) Toluene-d8	*101*			*80.0-120*		*04/19/2021 05:22*	WG1654151
(S) Toluene-d8	*98.3*			*80.0-120*		*04/23/2021 17:32*	WG1657665
(S) 4-Bromofluorobenzene	*99.5*			*77.0-126*		*04/19/2021 05:22*	WG1654151
(S) 4-Bromofluorobenzene	*107*			*77.0-126*		*04/23/2021 17:32*	WG1657665
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*04/19/2021 05:22*	WG1654151
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*		*04/23/2021 17:32*	WG1657665

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.736		0.0247	0.100	1	04/23/2021 13:25	WG1656980
(S) o-Terphenyl	*83.5*			*31.0-160*		*04/23/2021 13:25*	WG1656980

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1570		13.3	1	04/21/2021 06:17	WG1655624

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.0911	J	0.0500	0.100	1	04/22/2021 14:43	WG1656952

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	242	B	37.9	100	100	04/25/2021 05:58	WG1657223
Fluoride	0.823		0.0640	0.150	1	04/25/2021 05:41	WG1657223
Sulfate	39.6		0.594	5.00	1	04/25/2021 05:41	WG1657223

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0169		0.000180	0.00200	1	04/28/2021 16:07	WG1659223
Arsenic,Dissolved	0.0164		0.000180	0.00200	1	04/27/2021 11:59	WG1656517
Barium	8.02		0.000381	0.0200	1	04/28/2021 16:07	WG1659223
Barium,Dissolved	7.45		0.000381	0.0200	1	04/27/2021 11:59	WG1656517
Calcium	98.1		0.0936	1.00	1	04/28/2021 16:07	WG1659223
Chromium	0.00128	J	0.00124	0.00200	1	04/28/2021 16:07	WG1659223
Chromium,Dissolved	U		0.00124	0.00200	1	04/27/2021 11:59	WG1656517
Iron	0.131		0.0281	0.100	1	04/28/2021 16:07	WG1659223
Iron,Dissolved	0.0542	J	0.0281	0.100	1	04/27/2021 11:59	WG1656517
Lead	0.00328		0.000849	0.00200	1	04/28/2021 16:07	WG1659223
Lead,Dissolved	0.00246	B	0.000849	0.00200	1	04/27/2021 11:59	WG1656517
Manganese	0.0441		0.000704	0.00500	1	04/28/2021 16:07	WG1659223
Manganese,Dissolved	0.0432		0.000704	0.00500	1	04/27/2021 11:59	WG1656517
Potassium	0.435	J	0.108	2.00	1	04/28/2021 16:07	WG1659223
Selenium	U		0.000300	0.00200	1	04/28/2021 16:07	WG1659223
Selenium,Dissolved	U		0.000300	0.00200	1	04/27/2021 11:59	WG1656517
Sodium	430		0.376	2.00	1	04/28/2021 16:07	WG1659223

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	19.7		3.14	10.0	100	04/24/2021 13:58	WG1657432
(S) a,a,a-Trifluorotoluene(FID)	*99.7*			*78.0-120*		*04/24/2021 13:58*	WG1657432

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		1.13	5.00	100	04/19/2021 06:58	WG1654151
Benzene	7.61		0.00941	0.100	100	04/19/2021 06:58	WG1654151
Bromodichloromethane	U		0.0136	0.100	100	04/19/2021 06:58	WG1654151
Bromoform	U		0.0129	0.100	100	04/19/2021 06:58	WG1654151
Bromomethane	U		0.0605	0.500	100	04/19/2021 06:58	WG1654151
n-Butylbenzene	U		0.0157	0.100	100	04/19/2021 06:58	WG1654151
sec-Butylbenzene	U		0.0125	0.100	100	04/19/2021 06:58	WG1654151
Carbon disulfide	U		0.00962	0.100	100	04/19/2021 06:58	WG1654151
Carbon tetrachloride	U		0.0128	0.100	100	04/19/2021 06:58	WG1654151

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.0116	0.100	100	04/19/2021 06:58	WG1654151
Chlorodibromomethane	U		0.0140	0.100	100	04/19/2021 06:58	WG1654151
Chloroethane	U		0.0192	0.500	100	04/19/2021 06:58	WG1654151
Chloroform	U		0.0111	0.500	100	04/19/2021 06:58	WG1654151
Chloromethane	U		0.0960	0.250	100	04/19/2021 06:58	WG1654151
1,2-Dibromoethane	U		0.0126	0.100	100	04/19/2021 06:58	WG1654151
1,1-Dichloroethane	U		0.0100	0.100	100	04/19/2021 06:58	WG1654151
1,2-Dichloroethane	U		0.00819	0.100	100	04/19/2021 06:58	WG1654151
1,1-Dichloroethene	U		0.0188	0.100	100	04/19/2021 06:58	WG1654151
cis-1,2-Dichloroethene	U		0.0126	0.100	100	04/19/2021 06:58	WG1654151
trans-1,2-Dichloroethene	U		0.0149	0.100	100	04/19/2021 06:58	WG1654151
1,2-Dichloropropane	U		0.0149	0.100	100	04/19/2021 06:58	WG1654151
cis-1,3-Dichloropropene	U		0.0111	0.100	100	04/19/2021 06:58	WG1654151
trans-1,3-Dichloropropene	U		0.0118	0.100	100	04/19/2021 06:58	WG1654151
Ethylbenzene	0.418		0.0137	0.100	100	04/19/2021 06:58	WG1654151
Isopropylbenzene	0.0336	J	0.0105	0.100	100	04/19/2021 06:58	WG1654151
p-Isopropyltoluene	U		0.0120	0.100	100	04/19/2021 06:58	WG1654151
2-Butanone (MEK)	U		0.119	1.00	100	04/19/2021 06:58	WG1654151
2-Hexanone	U		0.0787	1.00	100	04/19/2021 06:58	WG1654151
Methylene Chloride	U		0.0430	0.500	100	04/19/2021 06:58	WG1654151
4-Methyl-2-pentanone (MIBK)	U		0.0478	1.00	100	04/19/2021 06:58	WG1654151
Methyl tert-butyl ether	1.23		0.0101	0.100	100	04/19/2021 06:58	WG1654151
Naphthalene	0.156	J	0.100	0.500	100	04/19/2021 06:58	WG1654151
n-Propylbenzene	0.0481	J	0.00993	0.100	100	04/19/2021 06:58	WG1654151
Styrene	U		0.0118	0.100	100	04/19/2021 06:58	WG1654151
1,1,1,2-Tetrachloroethane	U		0.0147	0.100	100	04/19/2021 06:58	WG1654151
1,1,2,2-Tetrachloroethane	U		0.0133	0.100	100	04/19/2021 06:58	WG1654151
Tetrachloroethene	U		0.0300	0.100	100	04/19/2021 06:58	WG1654151
Toluene	0.0385	J	0.0278	0.100	100	04/19/2021 06:58	WG1654151
1,1,1-Trichloroethane	U		0.0149	0.100	100	04/19/2021 06:58	WG1654151
1,1,2-Trichloroethane	U		0.0158	0.100	100	04/19/2021 06:58	WG1654151
Trichloroethene	U		0.0190	0.100	100	04/19/2021 06:58	WG1654151
1,2,4-Trimethylbenzene	0.114		0.0322	0.100	100	04/19/2021 06:58	WG1654151
1,3,5-Trimethylbenzene	U		0.0104	0.100	100	04/19/2021 06:58	WG1654151
Vinyl chloride	U		0.0234	0.100	100	04/19/2021 06:58	WG1654151
o-Xylene	U		0.0174	0.100	100	04/19/2021 06:58	WG1654151
m&p-Xylene	0.165	J	0.0430	0.200	100	04/19/2021 06:58	WG1654151
Xylenes, Total	0.165	J	0.0174	0.300	100	04/19/2021 06:58	WG1654151
(S) Toluene-d8	*102*			*80.0-120*		*04/19/2021 06:58*	WG1654151
(S) 4-Bromofluorobenzene	*102*			*77.0-126*		*04/19/2021 06:58*	WG1654151
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*04/19/2021 06:58*	WG1654151

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	12.6		0.123	0.500	5	04/27/2021 10:34	WG1656980
(S) o-Terphenyl	*115*			*31.0-160*		*04/27/2021 10:34*	WG1656980

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1230		13.3	1	04/21/2021 06:17	WG1655624

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.0769	J	0.0500	0.100	1	04/22/2021 14:45	WG1656952

Wet Chemistry by Method 4500CN E-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Cyanide	U		0.00180	0.00500	1	04/26/2021 14:31	WG1657212

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	257		7.58	20.0	20	04/25/2021 06:47	WG1657223
Fluoride	1.26		0.0640	0.150	1	04/25/2021 06:14	WG1657223
Sulfate	1.59	J	0.594	5.00	1	04/25/2021 06:14	WG1657223

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U		0.000100	0.000200	1	04/22/2021 10:19	WG1654193
Mercury,Dissolved	U		0.000100	0.000200	1	04/22/2021 14:42	WG1654201

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	0.294		0.0200	0.200	1	04/27/2021 10:20	WG1656882
Boron,Dissolved	0.306		0.0200	0.200	1	04/28/2021 09:34	WG1659249

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00481		0.000180	0.00200	1	04/28/2021 16:11	WG1659223
Arsenic,Dissolved	0.00298		0.000180	0.00200	1	04/27/2021 12:03	WG1656517
Barium	2.28		0.000381	0.0200	1	04/28/2021 16:11	WG1659223
Barium,Dissolved	2.09		0.000381	0.0200	1	04/27/2021 12:03	WG1656517
Cadmium	0.000184	J	0.000150	0.00100	1	04/28/2021 16:11	WG1659223
Cadmium,Dissolved	U		0.000150	0.00100	1	04/27/2021 12:03	WG1656517
Calcium	176		0.0936	1.00	1	04/28/2021 16:11	WG1659223
Chromium	0.00745		0.00124	0.00200	1	04/28/2021 16:11	WG1659223
Chromium,Dissolved	U		0.00124	0.00200	1	04/27/2021 12:03	WG1656517
Cobalt	0.00135	J	0.0000596	0.00200	1	04/28/2021 16:11	WG1659223
Cobalt,Dissolved	0.000148	J	0.0000596	0.00200	1	04/27/2021 12:03	WG1656517
Iron	3.81		0.0281	0.100	1	04/28/2021 16:11	WG1659223
Iron,Dissolved	0.0670	J	0.0281	0.100	1	04/27/2021 12:03	WG1656517
Lead	0.0176		0.000849	0.00200	1	04/28/2021 16:11	WG1659223
Lead,Dissolved	0.00119	B J	0.000849	0.00200	1	04/27/2021 12:03	WG1656517
Manganese	0.412		0.000704	0.00500	1	04/28/2021 16:11	WG1659223
Manganese,Dissolved	0.361		0.000704	0.00500	1	04/27/2021 12:03	WG1656517
Nickel	0.0133		0.000816	0.00200	1	04/28/2021 16:11	WG1659223
Nickel,Dissolved	0.0115		0.000816	0.00200	1	04/27/2021 12:03	WG1656517

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Potassium	2.12		0.108	2.00	1	04/28/2021 16:11	WG1659223
Selenium	0.000342	J	0.000300	0.00200	1	04/28/2021 16:11	WG1659223
Selenium,Dissolved	U		0.000300	0.00200	1	04/27/2021 12:03	WG1656517
Sodium	205		0.376	2.00	1	04/28/2021 16:11	WG1659223
Uranium	0.000188	J	0.0000700	0.0200	1	04/28/2021 16:11	WG1659223
Uranium,Dissolved	U		0.0000700	0.0200	1	04/27/2021 12:03	WG1656517
Vanadium	0.00606		0.000664	0.00500	1	04/28/2021 16:11	WG1659223
Vanadium,Dissolved	0.000757	J	0.000664	0.00500	1	04/27/2021 12:03	WG1656517

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	5.16		0.0314	0.100	1	04/24/2021 12:53	WG1657432
(S) a,a,a-Trifluorotoluene(FID)	*104*			*78.0-120*		*04/24/2021 12:53*	WG1657432

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.113	0.500	10	04/19/2021 07:17	WG1654151
Benzene	0.701		0.000941	0.0100	10	04/19/2021 07:17	WG1654151
Bromodichloromethane	U		0.00136	0.0100	10	04/19/2021 07:17	WG1654151
Bromoform	U		0.00129	0.0100	10	04/19/2021 07:17	WG1654151
Bromomethane	U		0.00605	0.0500	10	04/19/2021 07:17	WG1654151
n-Butylbenzene	0.00627	J	0.00157	0.0100	10	04/19/2021 07:17	WG1654151
sec-Butylbenzene	0.00711	J	0.00125	0.0100	10	04/19/2021 07:17	WG1654151
Carbon disulfide	U		0.000962	0.0100	10	04/19/2021 07:17	WG1654151
Carbon tetrachloride	U		0.00128	0.0100	10	04/19/2021 07:17	WG1654151
Chlorobenzene	U		0.00116	0.0100	10	04/19/2021 07:17	WG1654151
Chlorodibromomethane	U		0.00140	0.0100	10	04/19/2021 07:17	WG1654151
Chloroethane	U		0.00192	0.0500	10	04/19/2021 07:17	WG1654151
Chloroform	U		0.00111	0.0500	10	04/19/2021 07:17	WG1654151
Chloromethane	U		0.00960	0.0250	10	04/19/2021 07:17	WG1654151
1,2-Dibromoethane	U		0.00126	0.0100	10	04/19/2021 07:17	WG1654151
1,1-Dichloroethane	U		0.00100	0.0100	10	04/19/2021 07:17	WG1654151
1,2-Dichloroethane	U		0.000819	0.0100	10	04/19/2021 07:17	WG1654151
1,1-Dichloroethene	U		0.00188	0.0100	10	04/19/2021 07:17	WG1654151
cis-1,2-Dichloroethene	U		0.00126	0.0100	10	04/19/2021 07:17	WG1654151
trans-1,2-Dichloroethene	U		0.00149	0.0100	10	04/19/2021 07:17	WG1654151
1,2-Dichloropropane	U		0.00149	0.0100	10	04/19/2021 07:17	WG1654151
cis-1,3-Dichloropropene	U		0.00111	0.0100	10	04/19/2021 07:17	WG1654151
trans-1,3-Dichloropropene	U		0.00118	0.0100	10	04/19/2021 07:17	WG1654151
Ethylbenzene	0.0185		0.00137	0.0100	10	04/19/2021 07:17	WG1654151
Isopropylbenzene	0.0296		0.00105	0.0100	10	04/19/2021 07:17	WG1654151
p-Isopropyltoluene	U		0.00120	0.0100	10	04/19/2021 07:17	WG1654151
2-Butanone (MEK)	U		0.0119	0.100	10	04/19/2021 07:17	WG1654151
2-Hexanone	U		0.00787	0.100	10	04/19/2021 07:17	WG1654151
Methylene Chloride	U		0.00430	0.0500	10	04/19/2021 07:17	WG1654151
4-Methyl-2-pentanone (MIBK)	U		0.00478	0.100	10	04/19/2021 07:17	WG1654151
Methyl tert-butyl ether	3.15		0.0101	0.100	100	04/23/2021 17:51	WG1657665
Naphthalene	0.0620		0.0100	0.0500	10	04/19/2021 07:17	WG1654151
n-Propylbenzene	0.0447		0.000993	0.0100	10	04/19/2021 07:17	WG1654151
Styrene	U		0.00118	0.0100	10	04/19/2021 07:17	WG1654151
1,1,1,2-Tetrachloroethane	U		0.00147	0.0100	10	04/19/2021 07:17	WG1654151
1,1,2,2-Tetrachloroethane	U		0.00133	0.0100	10	04/19/2021 07:17	WG1654151
Tetrachloroethene	U		0.00300	0.0100	10	04/19/2021 07:17	WG1654151

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Toluene	0.0129		0.00278	0.0100	10	04/19/2021 07:17	WG1654151
1,1,1-Trichloroethane	U		0.00149	0.0100	10	04/19/2021 07:17	WG1654151
1,1,2-Trichloroethane	U		0.00158	0.0100	10	04/19/2021 07:17	WG1654151
Trichloroethene	U		0.00190	0.0100	10	04/19/2021 07:17	WG1654151
1,2,4-Trimethylbenzene	0.00570	J	0.00322	0.0100	10	04/19/2021 07:17	WG1654151
1,3,5-Trimethylbenzene	0.00114	J	0.00104	0.0100	10	04/19/2021 07:17	WG1654151
Vinyl chloride	U		0.00234	0.0100	10	04/19/2021 07:17	WG1654151
o-Xylene	0.00451	J	0.00174	0.0100	10	04/19/2021 07:17	WG1654151
m&p-Xylene	0.0223		0.00430	0.0200	10	04/19/2021 07:17	WG1654151
Xylenes, Total	0.0268	J	0.00174	0.0300	10	04/19/2021 07:17	WG1654151
(S) Toluene-d8	*101*			*80.0-120*		*04/19/2021 07:17*	WG1654151
(S) Toluene-d8	*97.8*			*80.0-120*		*04/23/2021 17:51*	WG1657665
(S) 4-Bromofluorobenzene	*101*			*77.0-126*		*04/19/2021 07:17*	WG1654151
(S) 4-Bromofluorobenzene	*107*			*77.0-126*		*04/23/2021 17:51*	WG1657665
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*04/19/2021 07:17*	WG1654151
(S) 1,2-Dichloroethane-d4	*114*			*70.0-130*		*04/23/2021 17:51*	WG1657665

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	3.52		0.0247	0.100	1	04/23/2021 13:59	WG1656980
(S) o-Terphenyl	*87.0*			*31.0-160*		*04/23/2021 13:59*	WG1656980

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4440		20.0	1	04/21/2021 06:17	WG1655624

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.155		0.0500	0.100	1	04/22/2021 14:46	WG1656952

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	261	B	37.9	100	100	04/25/2021 07:20	WG1657223
Fluoride	0.983		0.0640	0.150	1	04/25/2021 07:03	WG1657223
Sulfate	2300		59.4	500	100	04/25/2021 07:20	WG1657223

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00388		0.000180	0.00200	1	04/28/2021 16:14	WG1659223
Arsenic,Dissolved	0.00330		0.000180	0.00200	1	04/27/2021 13:07	WG1656521
Barium	0.00964	J	0.000381	0.0200	1	04/28/2021 16:14	WG1659223
Barium,Dissolved	0.00917	J	0.000381	0.0200	1	04/27/2021 13:07	WG1656521
Calcium	549		0.0936	1.00	1	04/28/2021 16:14	WG1659223
Chromium	U		0.00124	0.00200	1	04/28/2021 16:14	WG1659223
Chromium,Dissolved	U		0.00124	0.00200	1	04/27/2021 13:07	WG1656521
Iron	0.0682	J	0.0281	0.100	1	04/28/2021 16:14	WG1659223
Iron,Dissolved	U		0.0281	0.100	1	04/27/2021 13:07	WG1656521
Lead	U		0.000849	0.00200	1	04/28/2021 16:14	WG1659223
Lead,Dissolved	U		0.000849	0.00200	1	04/27/2021 13:07	WG1656521
Manganese	0.444		0.000704	0.00500	1	04/28/2021 16:14	WG1659223
Manganese,Dissolved	0.402		0.000704	0.00500	1	04/27/2021 13:07	WG1656521
Potassium	1.36	J	0.108	2.00	1	04/28/2021 16:14	WG1659223
Selenium	0.00128	J	0.000300	0.00200	1	04/28/2021 16:14	WG1659223
Selenium,Dissolved	0.00121	J	0.000300	0.00200	1	04/27/2021 13:07	WG1656521
Sodium	224		0.376	2.00	1	04/28/2021 16:14	WG1659223

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/24/2021 13:15	WG1657432
(S) a,a,a-Trifluorotoluene(FID)	*101*			*78.0-120*		*04/24/2021 13:15*	WG1657432

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/19/2021 05:41	WG1654151
Benzene	U		0.0000941	0.00100	1	04/19/2021 05:41	WG1654151
Bromodichloromethane	U		0.000136	0.00100	1	04/19/2021 05:41	WG1654151
Bromoform	U		0.000129	0.00100	1	04/19/2021 05:41	WG1654151
Bromomethane	U		0.000605	0.00500	1	04/19/2021 05:41	WG1654151
n-Butylbenzene	U		0.000157	0.00100	1	04/19/2021 05:41	WG1654151
sec-Butylbenzene	U		0.000125	0.00100	1	04/19/2021 05:41	WG1654151
Carbon disulfide	U		0.0000962	0.00100	1	04/19/2021 05:41	WG1654151
Carbon tetrachloride	U		0.000128	0.00100	1	04/19/2021 05:41	WG1654151

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/19/2021 05:41	WG1654151
Chlorodibromomethane	U		0.000140	0.00100	1	04/19/2021 05:41	WG1654151
Chloroethane	U		0.000192	0.00500	1	04/19/2021 05:41	WG1654151
Chloroform	U		0.000111	0.00500	1	04/19/2021 05:41	WG1654151
Chloromethane	U		0.000960	0.00250	1	04/19/2021 05:41	WG1654151
1,2-Dibromoethane	U		0.000126	0.00100	1	04/19/2021 05:41	WG1654151
1,1-Dichloroethane	U		0.000100	0.00100	1	04/19/2021 05:41	WG1654151
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/19/2021 05:41	WG1654151
1,1-Dichloroethene	U		0.000188	0.00100	1	04/19/2021 05:41	WG1654151
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/19/2021 05:41	WG1654151
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/19/2021 05:41	WG1654151
1,2-Dichloropropane	U		0.000149	0.00100	1	04/19/2021 05:41	WG1654151
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/19/2021 05:41	WG1654151
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/19/2021 05:41	WG1654151
Ethylbenzene	U		0.000137	0.00100	1	04/19/2021 05:41	WG1654151
Isopropylbenzene	U		0.000105	0.00100	1	04/19/2021 05:41	WG1654151
p-Isopropyltoluene	U		0.000120	0.00100	1	04/19/2021 05:41	WG1654151
2-Butanone (MEK)	U		0.00119	0.0100	1	04/19/2021 05:41	WG1654151
2-Hexanone	U		0.000787	0.0100	1	04/19/2021 05:41	WG1654151
Methylene Chloride	U		0.000430	0.00500	1	04/19/2021 05:41	WG1654151
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/19/2021 05:41	WG1654151
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/19/2021 05:41	WG1654151
Naphthalene	U		0.00100	0.00500	1	04/19/2021 05:41	WG1654151
n-Propylbenzene	U		0.0000993	0.00100	1	04/19/2021 05:41	WG1654151
Styrene	U		0.000118	0.00100	1	04/19/2021 05:41	WG1654151
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/19/2021 05:41	WG1654151
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/19/2021 05:41	WG1654151
Tetrachloroethene	U		0.000300	0.00100	1	04/19/2021 05:41	WG1654151
Toluene	U		0.000278	0.00100	1	04/19/2021 05:41	WG1654151
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/19/2021 05:41	WG1654151
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/19/2021 05:41	WG1654151
Trichloroethene	U		0.000190	0.00100	1	04/19/2021 05:41	WG1654151
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/19/2021 05:41	WG1654151
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/19/2021 05:41	WG1654151
Vinyl chloride	U		0.000234	0.00100	1	04/19/2021 05:41	WG1654151
o-Xylene	U		0.000174	0.00100	1	04/19/2021 05:41	WG1654151
m&p-Xylene	U		0.000430	0.00200	1	04/19/2021 05:41	WG1654151
Xylenes, Total	U		0.000174	0.00300	1	04/19/2021 05:41	WG1654151
(S) Toluene-d8	*101*			*80.0-120*		*04/19/2021 05:41*	WG1654151
(S) 4-Bromofluorobenzene	*100*			*77.0-126*		*04/19/2021 05:41*	WG1654151
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*04/19/2021 05:41*	WG1654151

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0654	J	0.0247	0.100	1	04/28/2021 05:36	WG1656980
(S) o-Terphenyl	*95.0*			*31.0-160*		*04/28/2021 05:36*	WG1656980

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	4000		20.0	1	04/21/2021 06:17	WG1655624

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.636		0.0500	0.100	1	04/22/2021 15:05	WG1656952

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	278	B	37.9	100	100	04/25/2021 07:53	WG1657223
Fluoride	1.52		0.0640	0.150	1	04/25/2021 07:36	WG1657223
Sulfate	2080		59.4	500	100	04/25/2021 07:53	WG1657223

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00289		0.000180	0.00200	1	04/28/2021 16:36	WG1659223
Arsenic,Dissolved	0.00311		0.000180	0.00200	1	04/27/2021 13:10	WG1656521
Barium	0.0144	J	0.000381	0.0200	1	04/28/2021 16:36	WG1659223
Barium,Dissolved	0.00975	J	0.000381	0.0200	1	04/27/2021 13:10	WG1656521
Calcium	588		0.0936	1.00	1	04/28/2021 16:36	WG1659223
Chromium	0.00169	J	0.00124	0.00200	1	04/28/2021 16:36	WG1659223
Chromium,Dissolved	U		0.00124	0.00200	1	04/27/2021 13:10	WG1656521
Iron	0.366		0.0281	0.100	1	04/28/2021 16:36	WG1659223
Iron,Dissolved	U		0.0281	0.100	1	04/27/2021 13:10	WG1656521
Lead	U		0.000849	0.00200	1	04/28/2021 16:36	WG1659223
Lead,Dissolved	U		0.000849	0.00200	1	04/27/2021 13:10	WG1656521
Manganese	0.0199		0.000704	0.00500	1	04/28/2021 16:36	WG1659223
Manganese,Dissolved	0.0105		0.000704	0.00500	1	04/27/2021 13:10	WG1656521
Potassium	1.39	J	0.108	2.00	1	04/28/2021 16:36	WG1659223
Selenium	0.00685		0.000300	0.00200	1	04/28/2021 16:36	WG1659223
Selenium,Dissolved	0.00608		0.000300	0.00200	1	04/27/2021 13:10	WG1656521
Sodium	186		0.376	2.00	1	04/28/2021 16:36	WG1659223

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/23/2021 15:07	WG1657492
(S) a,a,a-Trifluorotoluene(FID)	*99.1*			*78.0-120*		*04/23/2021 15:07*	WG1657492

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0113	0.0500	1	04/19/2021 06:01	WG1654151
Benzene	U		0.0000941	0.00100	1	04/19/2021 06:01	WG1654151
Bromodichloromethane	U		0.000136	0.00100	1	04/19/2021 06:01	WG1654151
Bromoform	U		0.000129	0.00100	1	04/19/2021 06:01	WG1654151
Bromomethane	U		0.000605	0.00500	1	04/19/2021 06:01	WG1654151
n-Butylbenzene	U		0.000157	0.00100	1	04/19/2021 06:01	WG1654151
sec-Butylbenzene	U		0.000125	0.00100	1	04/19/2021 06:01	WG1654151
Carbon disulfide	U		0.0000962	0.00100	1	04/19/2021 06:01	WG1654151
Carbon tetrachloride	U		0.000128	0.00100	1	04/19/2021 06:01	WG1654151

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/19/2021 06:01	WG1654151
Chlorodibromomethane	U		0.000140	0.00100	1	04/19/2021 06:01	WG1654151
Chloroethane	U		0.000192	0.00500	1	04/19/2021 06:01	WG1654151
Chloroform	U		0.000111	0.00500	1	04/19/2021 06:01	WG1654151
Chloromethane	U		0.000960	0.00250	1	04/19/2021 06:01	WG1654151
1,2-Dibromoethane	U		0.000126	0.00100	1	04/19/2021 06:01	WG1654151
1,1-Dichloroethane	U		0.000100	0.00100	1	04/19/2021 06:01	WG1654151
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/19/2021 06:01	WG1654151
1,1-Dichloroethene	U		0.000188	0.00100	1	04/19/2021 06:01	WG1654151
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/19/2021 06:01	WG1654151
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/19/2021 06:01	WG1654151
1,2-Dichloropropane	U		0.000149	0.00100	1	04/19/2021 06:01	WG1654151
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/19/2021 06:01	WG1654151
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/19/2021 06:01	WG1654151
Ethylbenzene	U		0.000137	0.00100	1	04/19/2021 06:01	WG1654151
Isopropylbenzene	U		0.000105	0.00100	1	04/19/2021 06:01	WG1654151
p-Isopropyltoluene	U		0.000120	0.00100	1	04/19/2021 06:01	WG1654151
2-Butanone (MEK)	U		0.00119	0.0100	1	04/19/2021 06:01	WG1654151
2-Hexanone	U		0.000787	0.0100	1	04/19/2021 06:01	WG1654151
Methylene Chloride	U		0.000430	0.00500	1	04/19/2021 06:01	WG1654151
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/19/2021 06:01	WG1654151
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/19/2021 06:01	WG1654151
Naphthalene	U		0.00100	0.00500	1	04/19/2021 06:01	WG1654151
n-Propylbenzene	U		0.0000993	0.00100	1	04/19/2021 06:01	WG1654151
Styrene	U		0.000118	0.00100	1	04/19/2021 06:01	WG1654151
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/19/2021 06:01	WG1654151
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/19/2021 06:01	WG1654151
Tetrachloroethene	U		0.000300	0.00100	1	04/19/2021 06:01	WG1654151
Toluene	U		0.000278	0.00100	1	04/19/2021 06:01	WG1654151
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/19/2021 06:01	WG1654151
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/19/2021 06:01	WG1654151
Trichloroethene	U		0.000190	0.00100	1	04/19/2021 06:01	WG1654151
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/19/2021 06:01	WG1654151
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/19/2021 06:01	WG1654151
Vinyl chloride	U		0.000234	0.00100	1	04/19/2021 06:01	WG1654151
o-Xylene	U		0.000174	0.00100	1	04/19/2021 06:01	WG1654151
m&p-Xylene	U		0.000430	0.00200	1	04/19/2021 06:01	WG1654151
Xylenes, Total	U		0.000174	0.00300	1	04/19/2021 06:01	WG1654151
(S) Toluene-d8	*100*			*80.0-120*		*04/19/2021 06:01*	WG1654151
(S) 4-Bromofluorobenzene	*101*			*77.0-126*		*04/19/2021 06:01*	WG1654151
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*04/19/2021 06:01*	WG1654151

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.231		0.0247	0.100	1	04/23/2021 14:33	WG1656980
(S) o-Terphenyl	*81.5*			*31.0-160*		*04/23/2021 14:33*	WG1656980

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	1250		10.0	1	04/21/2021 06:17	WG1655624

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.112		0.0500	0.100	1	04/22/2021 14:50	WG1656952

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	190		1.90	5.00	5	04/26/2021 11:43	WG1657223
Fluoride	0.839		0.0640	0.150	1	04/25/2021 08:42	WG1657223
Sulfate	150		2.97	25.0	5	04/26/2021 11:43	WG1657223

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00423		0.000180	0.00200	1	04/28/2021 16:40	WG1659223
Arsenic,Dissolved	0.00275		0.000180	0.00200	1	04/27/2021 13:14	WG1656521
Barium	0.168		0.000381	0.0200	1	04/28/2021 16:40	WG1659223
Barium,Dissolved	0.164		0.000381	0.0200	1	04/27/2021 13:14	WG1656521
Calcium	178		0.0936	1.00	1	04/28/2021 16:40	WG1659223
Chromium	0.00212		0.00124	0.00200	1	04/28/2021 16:40	WG1659223
Chromium,Dissolved	U		0.00124	0.00200	1	04/27/2021 13:14	WG1656521
Iron	0.337		0.0281	0.100	1	04/28/2021 16:40	WG1659223
Iron,Dissolved	0.0411	J	0.0281	0.100	1	04/27/2021 13:14	WG1656521
Lead	0.00181	J	0.000849	0.00200	1	04/28/2021 16:40	WG1659223
Lead,Dissolved	U		0.000849	0.00200	1	04/27/2021 13:14	WG1656521
Manganese	0.669		0.000704	0.00500	1	04/28/2021 16:40	WG1659223
Manganese,Dissolved	0.687		0.000704	0.00500	1	04/27/2021 13:14	WG1656521
Potassium	0.652	J	0.108	2.00	1	04/28/2021 16:40	WG1659223
Selenium	0.00102	J	0.000300	0.00200	1	04/28/2021 16:40	WG1659223
Selenium,Dissolved	U		0.000300	0.00200	1	04/27/2021 13:14	WG1656521
Sodium	149		0.376	2.00	1	04/28/2021 16:40	WG1659223

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	2.91		0.0314	0.100	1	04/23/2021 15:29	WG1657492
(S) a,a,a-Trifluorotoluene(FID)	*95.3*			*78.0-120*		*04/23/2021 15:29*	WG1657492

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.226	1.00	20	04/23/2021 18:10	WG1657665
Benzene	0.810		0.00188	0.0200	20	04/23/2021 18:10	WG1657665
Bromodichloromethane	U		0.00272	0.0200	20	04/23/2021 18:10	WG1657665
Bromoform	U		0.00258	0.0200	20	04/23/2021 18:10	WG1657665
Bromomethane	U		0.0121	0.100	20	04/23/2021 18:10	WG1657665
n-Butylbenzene	U		0.00314	0.0200	20	04/23/2021 18:10	WG1657665
sec-Butylbenzene	0.00320	J	0.00250	0.0200	20	04/23/2021 18:10	WG1657665
Carbon disulfide	U		0.00192	0.0200	20	04/23/2021 18:10	WG1657665
Carbon tetrachloride	U		0.00256	0.0200	20	04/23/2021 18:10	WG1657665

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.00232	0.0200	20	04/23/2021 18:10	WG1657665
Chlorodibromomethane	U		0.00280	0.0200	20	04/23/2021 18:10	WG1657665
Chloroethane	U		0.00384	0.100	20	04/23/2021 18:10	WG1657665
Chloroform	U		0.00222	0.100	20	04/23/2021 18:10	WG1657665
Chloromethane	U		0.0192	0.0500	20	04/23/2021 18:10	WG1657665
1,2-Dibromoethane	U		0.00252	0.0200	20	04/23/2021 18:10	WG1657665
1,1-Dichloroethane	U		0.00200	0.0200	20	04/23/2021 18:10	WG1657665
1,2-Dichloroethane	U		0.00164	0.0200	20	04/23/2021 18:10	WG1657665
1,1-Dichloroethene	U		0.00376	0.0200	20	04/23/2021 18:10	WG1657665
cis-1,2-Dichloroethene	U		0.00252	0.0200	20	04/23/2021 18:10	WG1657665
trans-1,2-Dichloroethene	U		0.00298	0.0200	20	04/23/2021 18:10	WG1657665
1,2-Dichloropropane	U		0.00298	0.0200	20	04/23/2021 18:10	WG1657665
cis-1,3-Dichloropropene	U		0.00222	0.0200	20	04/23/2021 18:10	WG1657665
trans-1,3-Dichloropropene	U		0.00236	0.0200	20	04/23/2021 18:10	WG1657665
Ethylbenzene	0.0141	J	0.00274	0.0200	20	04/23/2021 18:10	WG1657665
Isopropylbenzene	0.0155	J	0.00210	0.0200	20	04/23/2021 18:10	WG1657665
p-Isopropyltoluene	U		0.00240	0.0200	20	04/23/2021 18:10	WG1657665
2-Butanone (MEK)	U		0.0238	0.200	20	04/23/2021 18:10	WG1657665
2-Hexanone	U		0.0157	0.200	20	04/23/2021 18:10	WG1657665
Methylene Chloride	U		0.00860	0.100	20	04/23/2021 18:10	WG1657665
4-Methyl-2-pentanone (MIBK)	U		0.00956	0.200	20	04/23/2021 18:10	WG1657665
Methyl tert-butyl ether	0.0567		0.00202	0.0200	20	04/23/2021 18:10	WG1657665
Naphthalene	U		0.0200	0.100	20	04/23/2021 18:10	WG1657665
n-Propylbenzene	0.0142	J	0.00199	0.0200	20	04/23/2021 18:10	WG1657665
Styrene	U		0.00236	0.0200	20	04/23/2021 18:10	WG1657665
1,1,1,2-Tetrachloroethane	U		0.00294	0.0200	20	04/23/2021 18:10	WG1657665
1,1,2,2-Tetrachloroethane	U		0.00266	0.0200	20	04/23/2021 18:10	WG1657665
Tetrachloroethene	U		0.00600	0.0200	20	04/23/2021 18:10	WG1657665
Toluene	U		0.00556	0.0200	20	04/23/2021 18:10	WG1657665
1,1,1-Trichloroethane	U		0.00298	0.0200	20	04/23/2021 18:10	WG1657665
1,1,2-Trichloroethane	U		0.00316	0.0200	20	04/23/2021 18:10	WG1657665
Trichloroethene	U		0.00380	0.0200	20	04/23/2021 18:10	WG1657665
1,2,4-Trimethylbenzene	U		0.00644	0.0200	20	04/23/2021 18:10	WG1657665
1,3,5-Trimethylbenzene	U		0.00208	0.0200	20	04/23/2021 18:10	WG1657665
Vinyl chloride	U		0.00468	0.0200	20	04/23/2021 18:10	WG1657665
o-Xylene	U		0.00348	0.0200	20	04/23/2021 18:10	WG1657665
m&p-Xylene	U		0.00860	0.0400	20	04/23/2021 18:10	WG1657665
Xylenes, Total	U		0.00348	0.0600	20	04/23/2021 18:10	WG1657665
(S) Toluene-d8	*98.8*			*80.0-120*		*04/23/2021 18:10*	WG1657665
(S) 4-Bromofluorobenzene	*107*			*77.0-126*		*04/23/2021 18:10*	WG1657665
(S) 1,2-Dichloroethane-d4	*113*			*70.0-130*		*04/23/2021 18:10*	WG1657665

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	4.65		0.0247	0.100	1	04/23/2021 14:50	WG1656980
(S) o-Terphenyl	*102*			*31.0-160*		*04/23/2021 14:50*	WG1656980

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1910		13.3	1	04/21/2021 06:17	WG1655624

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0500	0.100	1	04/22/2021 15:30	WG1657027

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	119	B	37.9	100	100	04/25/2021 09:31	WG1657223
Fluoride	1.32		0.0640	0.150	1	04/25/2021 09:15	WG1657223
Sulfate	683		59.4	500	100	04/25/2021 09:31	WG1657223

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00487		0.000180	0.00200	1	04/28/2021 16:43	WG1659223
Arsenic,Dissolved	0.00629		0.000180	0.00200	1	04/27/2021 13:17	WG1656521
Barium	0.179		0.000381	0.0200	1	04/28/2021 16:43	WG1659223
Barium,Dissolved	0.160		0.000381	0.0200	1	04/27/2021 13:17	WG1656521
Calcium	325		0.0936	1.00	1	04/28/2021 16:43	WG1659223
Chromium	0.00274		0.00124	0.00200	1	04/28/2021 16:43	WG1659223
Chromium,Dissolved	0.00214	B	0.00124	0.00200	1	04/27/2021 13:17	WG1656521
Iron	2.48		0.0281	0.100	1	04/28/2021 16:43	WG1659223
Iron,Dissolved	1.16		0.0281	0.100	1	04/27/2021 13:17	WG1656521
Lead	U		0.000849	0.00200	1	04/28/2021 16:43	WG1659223
Lead,Dissolved	U		0.000849	0.00200	1	04/27/2021 13:17	WG1656521
Manganese	0.560		0.000704	0.00500	1	04/28/2021 16:43	WG1659223
Manganese,Dissolved	0.597		0.000704	0.00500	1	04/27/2021 13:17	WG1656521
Potassium	3.02		0.108	2.00	1	04/28/2021 16:43	WG1659223
Selenium	U		0.000300	0.00200	1	04/28/2021 16:43	WG1659223
Selenium,Dissolved	0.000310	J	0.000300	0.00200	1	04/27/2021 13:17	WG1656521
Sodium	94.8		0.376	2.00	1	04/28/2021 16:43	WG1659223

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	20.2		1.57	5.00	50	04/23/2021 18:00	WG1657492
(S) a,a,a-Trifluorotoluene(FID)	*97.2*			*78.0-120*		*04/23/2021 18:00*	WG1657492

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		1.13	5.00	100	04/23/2021 18:29	WG1657665
Benzene	7.07		0.00941	0.100	100	04/23/2021 18:29	WG1657665
Bromodichloromethane	U		0.0136	0.100	100	04/23/2021 18:29	WG1657665
Bromoform	U		0.0129	0.100	100	04/23/2021 18:29	WG1657665
Bromomethane	U		0.0605	0.500	100	04/23/2021 18:29	WG1657665
n-Butylbenzene	U		0.0157	0.100	100	04/23/2021 18:29	WG1657665
sec-Butylbenzene	U		0.0125	0.100	100	04/23/2021 18:29	WG1657665
Carbon disulfide	U		0.00962	0.100	100	04/23/2021 18:29	WG1657665
Carbon tetrachloride	U		0.0128	0.100	100	04/23/2021 18:29	WG1657665

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.0116	0.100	100	04/23/2021 18:29	WG1657665
Chlorodibromomethane	U		0.0140	0.100	100	04/23/2021 18:29	WG1657665
Chloroethane	U		0.0192	0.500	100	04/23/2021 18:29	WG1657665
Chloroform	U		0.0111	0.500	100	04/23/2021 18:29	WG1657665
Chloromethane	U		0.0960	0.250	100	04/23/2021 18:29	WG1657665
1,2-Dibromoethane	U		0.0126	0.100	100	04/23/2021 18:29	WG1657665
1,1-Dichloroethane	U		0.0100	0.100	100	04/23/2021 18:29	WG1657665
1,2-Dichloroethane	U		0.00819	0.100	100	04/23/2021 18:29	WG1657665
1,1-Dichloroethene	U		0.0188	0.100	100	04/23/2021 18:29	WG1657665
cis-1,2-Dichloroethene	U		0.0126	0.100	100	04/23/2021 18:29	WG1657665
trans-1,2-Dichloroethene	U		0.0149	0.100	100	04/23/2021 18:29	WG1657665
1,2-Dichloropropane	U		0.0149	0.100	100	04/23/2021 18:29	WG1657665
cis-1,3-Dichloropropene	U		0.0111	0.100	100	04/23/2021 18:29	WG1657665
trans-1,3-Dichloropropene	U		0.0118	0.100	100	04/23/2021 18:29	WG1657665
Ethylbenzene	0.0453	J	0.0137	0.100	100	04/23/2021 18:29	WG1657665
Isopropylbenzene	0.0498	J	0.0105	0.100	100	04/23/2021 18:29	WG1657665
p-Isopropyltoluene	U		0.0120	0.100	100	04/23/2021 18:29	WG1657665
2-Butanone (MEK)	U		0.119	1.00	100	04/23/2021 18:29	WG1657665
2-Hexanone	U		0.0787	1.00	100	04/23/2021 18:29	WG1657665
Methylene Chloride	U		0.0430	0.500	100	04/23/2021 18:29	WG1657665
4-Methyl-2-pentanone (MIBK)	U		0.0478	1.00	100	04/23/2021 18:29	WG1657665
Methyl tert-butyl ether	0.0296	J	0.0101	0.100	100	04/23/2021 18:29	WG1657665
Naphthalene	U		0.100	0.500	100	04/23/2021 18:29	WG1657665
n-Propylbenzene	0.0476	J	0.00993	0.100	100	04/23/2021 18:29	WG1657665
Styrene	U		0.0118	0.100	100	04/23/2021 18:29	WG1657665
1,1,1,2-Tetrachloroethane	U		0.0147	0.100	100	04/23/2021 18:29	WG1657665
1,1,2,2-Tetrachloroethane	U		0.0133	0.100	100	04/23/2021 18:29	WG1657665
Tetrachloroethene	U		0.0300	0.100	100	04/23/2021 18:29	WG1657665
Toluene	U		0.0278	0.100	100	04/23/2021 18:29	WG1657665
1,1,1-Trichloroethane	U		0.0149	0.100	100	04/23/2021 18:29	WG1657665
1,1,2-Trichloroethane	U		0.0158	0.100	100	04/23/2021 18:29	WG1657665
Trichloroethene	U		0.0190	0.100	100	04/23/2021 18:29	WG1657665
1,2,4-Trimethylbenzene	0.0594	J	0.0322	0.100	100	04/23/2021 18:29	WG1657665
1,3,5-Trimethylbenzene	U		0.0104	0.100	100	04/23/2021 18:29	WG1657665
Vinyl chloride	U		0.0234	0.100	100	04/23/2021 18:29	WG1657665
o-Xylene	U		0.0174	0.100	100	04/23/2021 18:29	WG1657665
m&p-Xylene	0.215		0.0430	0.200	100	04/23/2021 18:29	WG1657665
Xylenes, Total	0.215	J	0.0174	0.300	100	04/23/2021 18:29	WG1657665
(S) Toluene-d8	*98.9*			*80.0-120*		*04/23/2021 18:29*	WG1657665
(S) 4-Bromofluorobenzene	*108*			*77.0-126*		*04/23/2021 18:29*	WG1657665
(S) 1,2-Dichloroethane-d4	*113*			*70.0-130*		*04/23/2021 18:29*	WG1657665

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	12.8		0.123	0.500	5	04/27/2021 11:00	WG1656980
(S) o-Terphenyl	*86.0*			*31.0-160*		*04/27/2021 11:00*	WG1656980

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2140		13.3	1	04/21/2021 06:17	WG1655624

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.500	1.00	10	04/22/2021 16:25	WG1657027

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	339		3.79	10.0	10	04/25/2021 10:21	WG1657223
Fluoride	0.906		0.0640	0.150	1	04/25/2021 09:48	WG1657223
Sulfate	475		5.94	50.0	10	04/25/2021 10:21	WG1657223

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00352		0.000180	0.00200	1	04/28/2021 16:49	WG1659223
Arsenic,Dissolved	0.00413		0.000180	0.00200	1	04/27/2021 13:27	WG1656521
Barium	0.0469		0.000381	0.0200	1	04/28/2021 16:49	WG1659223
Barium,Dissolved	0.0451		0.000381	0.0200	1	04/27/2021 13:27	WG1656521
Calcium	250		0.0936	1.00	1	04/28/2021 16:49	WG1659223
Chromium	U		0.00124	0.00200	1	04/28/2021 16:49	WG1659223
Chromium,Dissolved	U		0.00124	0.00200	1	04/27/2021 13:27	WG1656521
Iron	0.0503	J	0.0281	0.100	1	04/28/2021 16:49	WG1659223
Iron,Dissolved	U		0.0281	0.100	1	04/27/2021 13:27	WG1656521
Lead	0.00322		0.000849	0.00200	1	04/28/2021 16:49	WG1659223
Lead,Dissolved	0.00204		0.000849	0.00200	1	04/27/2021 13:27	WG1656521
Manganese	0.0229		0.000704	0.00500	1	04/28/2021 16:49	WG1659223
Manganese,Dissolved	0.0239		0.000704	0.00500	1	04/27/2021 13:27	WG1656521
Potassium	0.637	J	0.108	2.00	1	04/28/2021 16:49	WG1659223
Selenium	U		0.000300	0.00200	1	04/28/2021 16:49	WG1659223
Selenium,Dissolved	U		0.000300	0.00200	1	04/27/2021 13:27	WG1656521
Sodium	273		0.376	2.00	1	04/28/2021 16:49	WG1659223

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	10.4		1.57	5.00	50	04/23/2021 18:21	WG1657492
(S) a,a,a-Trifluorotoluene(FID)	*97.5*			*78.0-120*		*04/23/2021 18:21*	WG1657492

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.565	2.50	50	04/19/2021 08:15	WG1654151
Benzene	1.29		0.00471	0.0500	50	04/19/2021 08:15	WG1654151
Bromodichloromethane	U		0.00680	0.0500	50	04/19/2021 08:15	WG1654151
Bromoform	U		0.00645	0.0500	50	04/19/2021 08:15	WG1654151
Bromomethane	U		0.0303	0.250	50	04/19/2021 08:15	WG1654151
n-Butylbenzene	U		0.00785	0.0500	50	04/19/2021 08:15	WG1654151
sec-Butylbenzene	0.00975	J	0.00625	0.0500	50	04/19/2021 08:15	WG1654151
Carbon disulfide	U		0.00481	0.0500	50	04/19/2021 08:15	WG1654151
Carbon tetrachloride	U		0.00640	0.0500	50	04/19/2021 08:15	WG1654151

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.00580	0.0500	50	04/19/2021 08:15	WG1654151
Chlorodibromomethane	U		0.00700	0.0500	50	04/19/2021 08:15	WG1654151
Chloroethane	U		0.00960	0.250	50	04/19/2021 08:15	WG1654151
Chloroform	U		0.00555	0.250	50	04/19/2021 08:15	WG1654151
Chloromethane	U		0.0480	0.125	50	04/19/2021 08:15	WG1654151
1,2-Dibromoethane	U		0.00630	0.0500	50	04/19/2021 08:15	WG1654151
1,1-Dichloroethane	U		0.00500	0.0500	50	04/19/2021 08:15	WG1654151
1,2-Dichloroethane	U		0.00409	0.0500	50	04/19/2021 08:15	WG1654151
1,1-Dichloroethene	U		0.00940	0.0500	50	04/19/2021 08:15	WG1654151
cis-1,2-Dichloroethene	U		0.00630	0.0500	50	04/19/2021 08:15	WG1654151
trans-1,2-Dichloroethene	U		0.00745	0.0500	50	04/19/2021 08:15	WG1654151
1,2-Dichloropropane	U		0.00745	0.0500	50	04/19/2021 08:15	WG1654151
cis-1,3-Dichloropropene	U		0.00555	0.0500	50	04/19/2021 08:15	WG1654151
trans-1,3-Dichloropropene	U		0.00590	0.0500	50	04/19/2021 08:15	WG1654151
Ethylbenzene	0.0587		0.00685	0.0500	50	04/19/2021 08:15	WG1654151
Isopropylbenzene	0.0757		0.00525	0.0500	50	04/19/2021 08:15	WG1654151
p-Isopropyltoluene	U		0.00600	0.0500	50	04/19/2021 08:15	WG1654151
2-Butanone (MEK)	U		0.0595	0.500	50	04/19/2021 08:15	WG1654151
2-Hexanone	U		0.0394	0.500	50	04/19/2021 08:15	WG1654151
Methylene Chloride	U		0.0215	0.250	50	04/19/2021 08:15	WG1654151
4-Methyl-2-pentanone (MIBK)	U		0.0239	0.500	50	04/19/2021 08:15	WG1654151
Methyl tert-butyl ether	0.00740	J	0.00505	0.0500	50	04/19/2021 08:15	WG1654151
Naphthalene	0.185	J	0.0500	0.250	50	04/19/2021 08:15	WG1654151
n-Propylbenzene	0.0999		0.00497	0.0500	50	04/19/2021 08:15	WG1654151
Styrene	U		0.00590	0.0500	50	04/19/2021 08:15	WG1654151
1,1,1,2-Tetrachloroethane	U		0.00735	0.0500	50	04/19/2021 08:15	WG1654151
1,1,2,2-Tetrachloroethane	U		0.00665	0.0500	50	04/19/2021 08:15	WG1654151
Tetrachloroethene	U		0.0150	0.0500	50	04/19/2021 08:15	WG1654151
Toluene	0.140		0.0139	0.0500	50	04/19/2021 08:15	WG1654151
1,1,1-Trichloroethane	U		0.00745	0.0500	50	04/19/2021 08:15	WG1654151
1,1,2-Trichloroethane	U		0.00790	0.0500	50	04/19/2021 08:15	WG1654151
Trichloroethene	U		0.00950	0.0500	50	04/19/2021 08:15	WG1654151
1,2,4-Trimethylbenzene	0.224		0.0161	0.0500	50	04/19/2021 08:15	WG1654151
1,3,5-Trimethylbenzene	0.0237	J	0.00520	0.0500	50	04/19/2021 08:15	WG1654151
Vinyl chloride	U		0.0117	0.0500	50	04/19/2021 08:15	WG1654151
o-Xylene	U		0.00870	0.0500	50	04/19/2021 08:15	WG1654151
m&p-Xylene	0.568		0.0215	0.100	50	04/19/2021 08:15	WG1654151
Xylenes, Total	0.568		0.00870	0.150	50	04/19/2021 08:15	WG1654151
(S) Toluene-d8	*103*			*80.0-120*		*04/19/2021 08:15*	WG1654151
(S) 4-Bromofluorobenzene	*101*			*77.0-126*		*04/19/2021 08:15*	WG1654151
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*04/19/2021 08:15*	WG1654151

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	4.79		0.0247	0.100	1	04/23/2021 15:24	WG1656980
(S) o-Terphenyl	*83.0*			*31.0-160*		*04/23/2021 15:24*	WG1656980

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	5010		50.0	1	04/21/2021 06:17	WG1655624

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.117		0.0500	0.100	1	04/22/2021 15:32	WG1657027

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	856		19.0	50.0	50	04/23/2021 15:24	WG1657224
Fluoride	1.02		0.0640	0.150	1	04/23/2021 15:06	WG1657224
Sulfate	1590		29.7	250	50	04/23/2021 15:24	WG1657224

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0240		0.000180	0.00200	1	04/28/2021 16:52	WG1659223
Arsenic,Dissolved	0.0207		0.000180	0.00200	1	04/27/2021 13:30	WG1656521
Barium	0.0205		0.000381	0.0200	1	04/28/2021 16:52	WG1659223
Barium,Dissolved	0.0219		0.000381	0.0200	1	04/27/2021 13:30	WG1656521
Calcium	274		0.0936	1.00	1	04/28/2021 16:52	WG1659223
Chromium	U		0.00124	0.00200	1	04/28/2021 16:52	WG1659223
Chromium,Dissolved	U		0.00124	0.00200	1	04/27/2021 13:30	WG1656521
Iron	0.0987	J	0.0281	0.100	1	04/28/2021 16:52	WG1659223
Iron,Dissolved	0.0325	J	0.0281	0.100	1	04/27/2021 13:30	WG1656521
Lead	U		0.000849	0.00200	1	04/28/2021 16:52	WG1659223
Lead,Dissolved	U		0.000849	0.00200	1	04/27/2021 13:30	WG1656521
Manganese	0.758		0.000704	0.00500	1	04/28/2021 16:52	WG1659223
Manganese,Dissolved	0.748		0.000704	0.00500	1	04/27/2021 13:30	WG1656521
Potassium	0.586	J	0.108	2.00	1	04/28/2021 16:52	WG1659223
Selenium	0.000626	J	0.000300	0.00200	1	04/28/2021 16:52	WG1659223
Selenium,Dissolved	0.000712	J	0.000300	0.00200	1	04/27/2021 13:30	WG1656521
Sodium	812		0.376	2.00	1	04/28/2021 16:52	WG1659223

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	0.245		0.0314	0.100	1	04/23/2021 15:50	WG1657492
(S) a,a,a-Trifluorotoluene(FID)	*96.5*			*78.0-120*		*04/23/2021 15:50*	WG1657492

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0113	0.0500	1	04/20/2021 01:34	WG1654740
Benzene	0.00922		0.0000941	0.00100	1	04/20/2021 01:34	WG1654740
Bromodichloromethane	U		0.000136	0.00100	1	04/20/2021 01:34	WG1654740
Bromoform	U	J4	0.000129	0.00100	1	04/20/2021 01:34	WG1654740
Bromomethane	U		0.000605	0.00500	1	04/20/2021 01:34	WG1654740
n-Butylbenzene	U		0.000157	0.00100	1	04/20/2021 01:34	WG1654740
sec-Butylbenzene	0.00140		0.000125	0.00100	1	04/20/2021 01:34	WG1654740
Carbon disulfide	0.000170	J	0.0000962	0.00100	1	04/20/2021 01:34	WG1654740
Carbon tetrachloride	U		0.000128	0.00100	1	04/20/2021 01:34	WG1654740

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/20/2021 01:34	WG1654740
Chlorodibromomethane	U		0.000140	0.00100	1	04/20/2021 01:34	WG1654740
Chloroethane	U	J4	0.000192	0.00500	1	04/20/2021 01:34	WG1654740
Chloroform	U		0.000111	0.00500	1	04/20/2021 01:34	WG1654740
Chloromethane	U		0.000960	0.00250	1	04/20/2021 01:34	WG1654740
1,2-Dibromoethane	U		0.000126	0.00100	1	04/20/2021 01:34	WG1654740
1,1-Dichloroethane	U		0.000100	0.00100	1	04/20/2021 01:34	WG1654740
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/20/2021 01:34	WG1654740
1,1-Dichloroethene	U		0.000188	0.00100	1	04/20/2021 01:34	WG1654740
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/20/2021 01:34	WG1654740
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/20/2021 01:34	WG1654740
1,2-Dichloropropane	0.00281		0.000149	0.00100	1	04/20/2021 01:34	WG1654740
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/20/2021 01:34	WG1654740
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/20/2021 01:34	WG1654740
Ethylbenzene	U		0.000137	0.00100	1	04/20/2021 01:34	WG1654740
Isopropylbenzene	0.00608		0.000105	0.00100	1	04/20/2021 01:34	WG1654740
p-Isopropyltoluene	U		0.000120	0.00100	1	04/20/2021 01:34	WG1654740
2-Butanone (MEK)	U		0.00119	0.0100	1	04/20/2021 01:34	WG1654740
2-Hexanone	U	J4	0.000787	0.0100	1	04/20/2021 01:34	WG1654740
Methylene Chloride	U		0.000430	0.00500	1	04/20/2021 01:34	WG1654740
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/20/2021 01:34	WG1654740
Methyl tert-butyl ether	0.0267		0.000101	0.00100	1	04/20/2021 01:34	WG1654740
Naphthalene	U		0.00100	0.00500	1	04/20/2021 18:45	WG1655241
n-Propylbenzene	0.00170		0.0000993	0.00100	1	04/20/2021 01:34	WG1654740
Styrene	U		0.000118	0.00100	1	04/20/2021 01:34	WG1654740
1,1,1,2-Tetrachloroethane	U	J4	0.000147	0.00100	1	04/20/2021 01:34	WG1654740
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/20/2021 01:34	WG1654740
Tetrachloroethene	U		0.000300	0.00100	1	04/20/2021 01:34	WG1654740
Toluene	0.000301	J	0.000278	0.00100	1	04/20/2021 01:34	WG1654740
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/20/2021 01:34	WG1654740
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/20/2021 01:34	WG1654740
Trichloroethene	U		0.000190	0.00100	1	04/20/2021 01:34	WG1654740
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/20/2021 01:34	WG1654740
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/20/2021 18:45	WG1655241
Vinyl chloride	U		0.000234	0.00100	1	04/20/2021 01:34	WG1654740
o-Xylene	U		0.000174	0.00100	1	04/20/2021 18:45	WG1655241
m&p-Xylene	U		0.000430	0.00200	1	04/20/2021 18:45	WG1655241
Xylenes, Total	U		0.000174	0.00300	1	04/20/2021 18:45	WG1655241
(S) Toluene-d8	*95.6*			*80.0-120*		*04/20/2021 01:34*	WG1654740
(S) Toluene-d8	*114*			*80.0-120*		*04/20/2021 18:45*	WG1655241
(S) 4-Bromofluorobenzene	*89.9*			*77.0-126*		*04/20/2021 01:34*	WG1654740
(S) 4-Bromofluorobenzene	*93.1*			*77.0-126*		*04/20/2021 18:45*	WG1655241
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*04/20/2021 01:34*	WG1654740
(S) 1,2-Dichloroethane-d4	*91.6*			*70.0-130*		*04/20/2021 18:45*	WG1655241

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	2.32		0.0247	0.100	1	04/23/2021 15:42	WG1656980
(S) o-Terphenyl	*59.5*			*31.0-160*		*04/23/2021 15:42*	WG1656980

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3560		20.0	1	04/21/2021 06:17	WG1655624

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.500	1.00	10	04/22/2021 16:26	WG1657027

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	556		7.58	20.0	20	04/23/2021 16:00	WG1657224
Fluoride	1.22		0.0640	0.150	1	04/23/2021 15:42	WG1657224
Sulfate	1180		11.9	100	20	04/23/2021 16:00	WG1657224

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00432		0.000180	0.00200	1	04/27/2021 20:33	WG1659224
Arsenic,Dissolved	0.00464		0.000180	0.00200	1	04/27/2021 13:34	WG1656521
Barium	0.0373		0.000381	0.0200	1	04/27/2021 20:33	WG1659224
Barium,Dissolved	0.0342		0.000381	0.0200	1	04/27/2021 13:34	WG1656521
Calcium	300		0.0936	1.00	1	04/27/2021 20:33	WG1659224
Chromium	U		0.00124	0.00200	1	04/27/2021 20:33	WG1659224
Chromium,Dissolved	U		0.00124	0.00200	1	04/27/2021 13:34	WG1656521
Iron	U		0.0281	0.100	1	04/27/2021 20:33	WG1659224
Iron,Dissolved	U		0.0281	0.100	1	04/27/2021 13:34	WG1656521
Lead	U		0.000849	0.00200	1	04/27/2021 20:33	WG1659224
Lead,Dissolved	U		0.000849	0.00200	1	04/27/2021 13:34	WG1656521
Manganese	0.320		0.000704	0.00500	1	04/27/2021 20:33	WG1659224
Manganese,Dissolved	0.327		0.000704	0.00500	1	04/27/2021 13:34	WG1656521
Potassium	1.27	J	0.108	2.00	1	04/27/2021 20:33	WG1659224
Selenium	0.000308	J	0.000300	0.00200	1	04/27/2021 20:33	WG1659224
Selenium,Dissolved	U		0.000300	0.00200	1	04/27/2021 13:34	WG1656521
Sodium	439		0.376	2.00	1	04/27/2021 20:33	WG1659224

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.903		0.0314	0.100	1	04/23/2021 16:12	WG1657492
(S) a,a,a-Trifluorotoluene(FID)	*97.6*			*78.0-120*		*04/23/2021 16:12*	WG1657492

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/20/2021 01:54	WG1654740
Benzene	0.000352	J	0.0000941	0.00100	1	04/20/2021 01:54	WG1654740
Bromodichloromethane	U		0.000136	0.00100	1	04/20/2021 01:54	WG1654740
Bromoform	U	J4	0.000129	0.00100	1	04/20/2021 01:54	WG1654740
Bromomethane	U		0.000605	0.00500	1	04/20/2021 01:54	WG1654740
n-Butylbenzene	U		0.000157	0.00100	1	04/20/2021 01:54	WG1654740
sec-Butylbenzene	0.0142		0.000125	0.00100	1	04/20/2021 01:54	WG1654740
Carbon disulfide	0.000609	J	0.0000962	0.00100	1	04/20/2021 01:54	WG1654740
Carbon tetrachloride	U		0.000128	0.00100	1	04/20/2021 01:54	WG1654740

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/20/2021 01:54	WG1654740
Chlorodibromomethane	U		0.000140	0.00100	1	04/20/2021 01:54	WG1654740
Chloroethane	U	J4	0.000192	0.00500	1	04/20/2021 01:54	WG1654740
Chloroform	U		0.000111	0.00500	1	04/20/2021 01:54	WG1654740
Chloromethane	U		0.000960	0.00250	1	04/20/2021 01:54	WG1654740
1,2-Dibromoethane	U		0.000126	0.00100	1	04/20/2021 01:54	WG1654740
1,1-Dichloroethane	U		0.000100	0.00100	1	04/20/2021 01:54	WG1654740
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/20/2021 01:54	WG1654740
1,1-Dichloroethene	U		0.000188	0.00100	1	04/20/2021 01:54	WG1654740
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/20/2021 01:54	WG1654740
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/20/2021 01:54	WG1654740
1,2-Dichloropropane	0.00106		0.000149	0.00100	1	04/20/2021 01:54	WG1654740
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/20/2021 01:54	WG1654740
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/20/2021 01:54	WG1654740
Ethylbenzene	0.000652	J	0.000137	0.00100	1	04/20/2021 01:54	WG1654740
Isopropylbenzene	0.0758		0.000105	0.00100	1	04/20/2021 01:54	WG1654740
p-Isopropyltoluene	U		0.000120	0.00100	1	04/20/2021 01:54	WG1654740
2-Butanone (MEK)	U		0.00119	0.0100	1	04/20/2021 01:54	WG1654740
2-Hexanone	U	J4	0.000787	0.0100	1	04/20/2021 01:54	WG1654740
Methylene Chloride	U		0.000430	0.00500	1	04/20/2021 01:54	WG1654740
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/20/2021 01:54	WG1654740
Methyl tert-butyl ether	0.219		0.00101	0.0100	10	04/20/2021 21:04	WG1655241
Naphthalene	0.00212	J	0.00100	0.00500	1	04/20/2021 01:54	WG1654740
n-Propylbenzene	0.00142		0.0000993	0.00100	1	04/20/2021 01:54	WG1654740
Styrene	U		0.000118	0.00100	1	04/20/2021 01:54	WG1654740
1,1,1,2-Tetrachloroethane	U	J4	0.000147	0.00100	1	04/20/2021 01:54	WG1654740
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/20/2021 01:54	WG1654740
Tetrachloroethene	U		0.000300	0.00100	1	04/20/2021 01:54	WG1654740
Toluene	0.000442	J	0.000278	0.00100	1	04/20/2021 01:54	WG1654740
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/20/2021 01:54	WG1654740
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/20/2021 01:54	WG1654740
Trichloroethene	U		0.000190	0.00100	1	04/20/2021 01:54	WG1654740
1,2,4-Trimethylbenzene	0.00294		0.000322	0.00100	1	04/20/2021 01:54	WG1654740
1,3,5-Trimethylbenzene	0.000584	J	0.000104	0.00100	1	04/20/2021 01:54	WG1654740
Vinyl chloride	U		0.000234	0.00100	1	04/20/2021 01:54	WG1654740
o-Xylene	0.000732	J	0.000174	0.00100	1	04/20/2021 01:54	WG1654740
m&p-Xylene	0.00127	J	0.000430	0.00200	1	04/20/2021 01:54	WG1654740
Xylenes, Total	0.00200	J	0.000174	0.00300	1	04/20/2021 01:54	WG1654740
(S) Toluene-d8	*95.6*			*80.0-120*		*04/20/2021 01:54*	WG1654740
(S) Toluene-d8	*118*			*80.0-120*		*04/20/2021 21:04*	WG1655241
(S) 4-Bromofluorobenzene	*89.4*			*77.0-126*		*04/20/2021 01:54*	WG1654740
(S) 4-Bromofluorobenzene	*95.2*			*77.0-126*		*04/20/2021 21:04*	WG1655241
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*04/20/2021 01:54*	WG1654740
(S) 1,2-Dichloroethane-d4	*92.9*			*70.0-130*		*04/20/2021 21:04*	WG1655241

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	3.37		0.0247	0.100	1	04/23/2021 15:59	WG1656980
(S) o-Terphenyl	*97.5*			*31.0-160*		*04/23/2021 15:59*	WG1656980

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3870		20.0	1	04/21/2021 06:17	WG1655624

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.0775	J	0.0500	0.100	1	04/22/2021 15:35	WG1657027

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	585		19.0	50.0	50	04/23/2021 16:18	WG1657224
Fluoride	0.869		0.0640	0.150	1	04/23/2021 17:11	WG1657224
Sulfate	1290		29.7	250	50	04/23/2021 16:18	WG1657224

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00948		0.000180	0.00200	1	04/27/2021 20:37	WG1659224
Arsenic,Dissolved	0.00879		0.000180	0.00200	1	04/27/2021 13:37	WG1656521
Barium	0.0200		0.000381	0.0200	1	04/27/2021 20:37	WG1659224
Barium,Dissolved	0.0186	J	0.000381	0.0200	1	04/27/2021 13:37	WG1656521
Calcium	314		0.0936	1.00	1	04/27/2021 20:37	WG1659224
Chromium	U		0.00124	0.00200	1	04/27/2021 20:37	WG1659224
Chromium,Dissolved	U		0.00124	0.00200	1	04/27/2021 13:37	WG1656521
Iron	0.715		0.0281	0.100	1	04/27/2021 20:37	WG1659224
Iron,Dissolved	0.0415	J	0.0281	0.100	1	04/27/2021 13:37	WG1656521
Lead	U		0.000849	0.00200	1	04/27/2021 20:37	WG1659224
Lead,Dissolved	U		0.000849	0.00200	1	04/27/2021 13:37	WG1656521
Manganese	0.335		0.000704	0.00500	1	04/27/2021 20:37	WG1659224
Manganese,Dissolved	0.340		0.000704	0.00500	1	04/27/2021 13:37	WG1656521
Potassium	0.397	J	0.108	2.00	1	04/27/2021 20:37	WG1659224
Selenium	U		0.000300	0.00200	1	04/27/2021 20:37	WG1659224
Selenium,Dissolved	U		0.000300	0.00200	1	04/27/2021 13:37	WG1656521
Sodium	452		0.376	2.00	1	04/27/2021 20:37	WG1659224

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.433		0.0314	0.100	1	04/26/2021 10:34	WG1658415
(S) a,a,a-Trifluorotoluene(FID)	*103*			*78.0-120*		*04/26/2021 10:34*	WG1658415

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0565	0.250	5	04/20/2021 02:56	WG1654740
Benzene	0.00740		0.000471	0.00500	5	04/20/2021 02:56	WG1654740
Bromodichloromethane	U		0.000680	0.00500	5	04/20/2021 02:56	WG1654740
Bromoform	U	J4	0.000645	0.00500	5	04/20/2021 02:56	WG1654740
Bromomethane	U		0.00303	0.0250	5	04/20/2021 02:56	WG1654740
n-Butylbenzene	U		0.000785	0.00500	5	04/20/2021 02:56	WG1654740
sec-Butylbenzene	0.00389	J	0.000625	0.00500	5	04/20/2021 02:56	WG1654740
Carbon disulfide	0.00127	J	0.000481	0.00500	5	04/20/2021 02:56	WG1654740
Carbon tetrachloride	U		0.000640	0.00500	5	04/20/2021 02:56	WG1654740

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000580	0.00500	5	04/20/2021 02:56	WG1654740
Chlorodibromomethane	U		0.000700	0.00500	5	04/20/2021 02:56	WG1654740
Chloroethane	U	J4	0.000960	0.0250	5	04/20/2021 02:56	WG1654740
Chloroform	U		0.000555	0.0250	5	04/20/2021 02:56	WG1654740
Chloromethane	U		0.00480	0.0125	5	04/20/2021 02:56	WG1654740
1,2-Dibromoethane	U		0.000630	0.00500	5	04/20/2021 02:56	WG1654740
1,1-Dichloroethane	U		0.000500	0.00500	5	04/20/2021 02:56	WG1654740
1,2-Dichloroethane	U		0.000409	0.00500	5	04/20/2021 02:56	WG1654740
1,1-Dichloroethene	U		0.000940	0.00500	5	04/20/2021 02:56	WG1654740
cis-1,2-Dichloroethene	U		0.000630	0.00500	5	04/20/2021 02:56	WG1654740
trans-1,2-Dichloroethene	U		0.000745	0.00500	5	04/20/2021 02:56	WG1654740
1,2-Dichloropropane	0.00220	J	0.000745	0.00500	5	04/20/2021 02:56	WG1654740
cis-1,3-Dichloropropene	U		0.000555	0.00500	5	04/20/2021 02:56	WG1654740
trans-1,3-Dichloropropene	U		0.000590	0.00500	5	04/20/2021 02:56	WG1654740
Ethylbenzene	U		0.000685	0.00500	5	04/20/2021 02:56	WG1654740
Isopropylbenzene	0.0186		0.000525	0.00500	5	04/20/2021 02:56	WG1654740
p-Isopropyltoluene	U		0.000600	0.00500	5	04/20/2021 02:56	WG1654740
2-Butanone (MEK)	U		0.00595	0.0500	5	04/20/2021 02:56	WG1654740
2-Hexanone	U	J4	0.00394	0.0500	5	04/20/2021 02:56	WG1654740
Methylene Chloride	U		0.00215	0.0250	5	04/20/2021 02:56	WG1654740
4-Methyl-2-pentanone (MIBK)	U		0.00239	0.0500	5	04/20/2021 02:56	WG1654740
Methyl tert-butyl ether	0.0180		0.000505	0.00500	5	04/20/2021 02:56	WG1654740
Naphthalene	U		0.00500	0.0250	5	04/20/2021 02:56	WG1654740
n-Propylbenzene	0.00361	J	0.000497	0.00500	5	04/20/2021 02:56	WG1654740
Styrene	U		0.000590	0.00500	5	04/20/2021 02:56	WG1654740
1,1,1,2-Tetrachloroethane	U	J4	0.000735	0.00500	5	04/20/2021 02:56	WG1654740
1,1,2,2-Tetrachloroethane	U		0.000665	0.00500	5	04/20/2021 02:56	WG1654740
Tetrachloroethene	U		0.00150	0.00500	5	04/20/2021 02:56	WG1654740
Toluene	U		0.00139	0.00500	5	04/20/2021 02:56	WG1654740
1,1,1-Trichloroethane	U		0.000745	0.00500	5	04/20/2021 02:56	WG1654740
1,1,2-Trichloroethane	U		0.000790	0.00500	5	04/20/2021 02:56	WG1654740
Trichloroethene	U		0.000950	0.00500	5	04/20/2021 02:56	WG1654740
1,2,4-Trimethylbenzene	0.00322	J	0.00161	0.00500	5	04/20/2021 02:56	WG1654740
1,3,5-Trimethylbenzene	U		0.000520	0.00500	5	04/20/2021 02:56	WG1654740
Vinyl chloride	U		0.00117	0.00500	5	04/20/2021 02:56	WG1654740
o-Xylene	U		0.000870	0.00500	5	04/20/2021 02:56	WG1654740
m&p-Xylene	0.00852	J	0.00215	0.0100	5	04/20/2021 02:56	WG1654740
Xylenes, Total	0.00852	J	0.000870	0.0150	5	04/20/2021 02:56	WG1654740
(S) Toluene-d8	*96.8*			*80.0-120*		*04/20/2021 02:56*	WG1654740
(S) 4-Bromofluorobenzene	*93.3*			*77.0-126*		*04/20/2021 02:56*	WG1654740
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*04/20/2021 02:56*	WG1654740

Sample Narrative:

L1340127-23 WG1654740: Dilution due to foam.

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	4.92		0.0247	0.100	1	04/23/2021 16:16	WG1656980
(S) o-Terphenyl	*109*			*31.0-160*		*04/23/2021 16:16*	WG1656980

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3730		20.0	1	04/21/2021 06:17	WG1655624

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.105		0.0500	0.100	1	04/22/2021 15:36	WG1657027

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	457		37.9	100	100	04/23/2021 17:47	WG1657224
Fluoride	1.83		0.0640	0.150	1	04/23/2021 17:29	WG1657224
Sulfate	1580		59.4	500	100	04/23/2021 17:47	WG1657224

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0433		0.000180	0.00200	1	04/27/2021 20:47	WG1659224
Arsenic,Dissolved	0.0165		0.000180	0.00200	1	04/27/2021 13:40	WG1656521
Barium	0.0232		0.000381	0.0200	1	04/27/2021 20:47	WG1659224
Barium,Dissolved	0.0204		0.000381	0.0200	1	04/27/2021 13:40	WG1656521
Calcium	379		0.0936	1.00	1	04/27/2021 20:47	WG1659224
Chromium	U		0.00124	0.00200	1	04/27/2021 20:47	WG1659224
Chromium,Dissolved	U		0.00124	0.00200	1	04/27/2021 13:40	WG1656521
Iron	1.62		0.0281	0.100	1	04/27/2021 20:47	WG1659224
Iron,Dissolved	0.217		0.0281	0.100	1	04/27/2021 13:40	WG1656521
Lead	0.00137	J	0.000849	0.00200	1	04/27/2021 20:47	WG1659224
Lead,Dissolved	U		0.000849	0.00200	1	04/27/2021 13:40	WG1656521
Manganese	0.414		0.000704	0.00500	1	04/27/2021 20:47	WG1659224
Manganese,Dissolved	0.456		0.000704	0.00500	1	04/27/2021 13:40	WG1656521
Potassium	2.06		0.108	2.00	1	04/27/2021 20:47	WG1659224
Selenium	0.00150	J	0.000300	0.00200	1	04/27/2021 20:47	WG1659224
Selenium,Dissolved	0.00192	J	0.000300	0.00200	1	04/27/2021 13:40	WG1656521
Sodium	330		0.376	2.00	1	04/27/2021 20:47	WG1659224

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.113		0.0314	0.100	1	04/23/2021 16:34	WG1657492
(S) a,a,a-Trifluorotoluene(FID)	*97.0*			*78.0-120*		*04/23/2021 16:34*	WG1657492

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/20/2021 02:15	WG1654740
Benzene	0.0000994	J	0.0000941	0.00100	1	04/20/2021 02:15	WG1654740
Bromodichloromethane	U		0.000136	0.00100	1	04/20/2021 02:15	WG1654740
Bromoform	U	J4	0.000129	0.00100	1	04/20/2021 02:15	WG1654740
Bromomethane	U		0.000605	0.00500	1	04/20/2021 02:15	WG1654740
n-Butylbenzene	U		0.000157	0.00100	1	04/20/2021 02:15	WG1654740
sec-Butylbenzene	0.000398	J	0.000125	0.00100	1	04/20/2021 02:15	WG1654740
Carbon disulfide	0.000267	J	0.0000962	0.00100	1	04/20/2021 02:15	WG1654740
Carbon tetrachloride	U		0.000128	0.00100	1	04/20/2021 02:15	WG1654740

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/20/2021 02:15	WG1654740
Chlorodibromomethane	U		0.000140	0.00100	1	04/20/2021 02:15	WG1654740
Chloroethane	U	J4	0.000192	0.00500	1	04/20/2021 02:15	WG1654740
Chloroform	U		0.000111	0.00500	1	04/20/2021 02:15	WG1654740
Chloromethane	U		0.000960	0.00250	1	04/20/2021 02:15	WG1654740
1,2-Dibromoethane	U		0.000126	0.00100	1	04/20/2021 02:15	WG1654740
1,1-Dichloroethane	U		0.000100	0.00100	1	04/20/2021 02:15	WG1654740
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/20/2021 02:15	WG1654740
1,1-Dichloroethene	U		0.000188	0.00100	1	04/20/2021 02:15	WG1654740
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/20/2021 02:15	WG1654740
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/20/2021 02:15	WG1654740
1,2-Dichloropropane	U		0.000149	0.00100	1	04/20/2021 02:15	WG1654740
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/20/2021 02:15	WG1654740
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/20/2021 02:15	WG1654740
Ethylbenzene	U		0.000137	0.00100	1	04/20/2021 02:15	WG1654740
Isopropylbenzene	0.000701	J	0.000105	0.00100	1	04/20/2021 02:15	WG1654740
p-Isopropyltoluene	U		0.000120	0.00100	1	04/20/2021 02:15	WG1654740
2-Butanone (MEK)	U		0.00119	0.0100	1	04/20/2021 02:15	WG1654740
2-Hexanone	U	J4	0.000787	0.0100	1	04/20/2021 02:15	WG1654740
Methylene Chloride	U		0.000430	0.00500	1	04/20/2021 02:15	WG1654740
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/20/2021 02:15	WG1654740
Methyl tert-butyl ether	0.00190		0.000101	0.00100	1	04/20/2021 19:05	WG1655241
Naphthalene	U		0.00100	0.00500	1	04/20/2021 02:15	WG1654740
n-Propylbenzene	U		0.0000993	0.00100	1	04/20/2021 02:15	WG1654740
Styrene	U		0.000118	0.00100	1	04/20/2021 02:15	WG1654740
1,1,1,2-Tetrachloroethane	U	J4	0.000147	0.00100	1	04/20/2021 02:15	WG1654740
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/20/2021 02:15	WG1654740
Tetrachloroethene	U		0.000300	0.00100	1	04/20/2021 02:15	WG1654740
Toluene	U		0.000278	0.00100	1	04/20/2021 02:15	WG1654740
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/20/2021 02:15	WG1654740
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/20/2021 02:15	WG1654740
Trichloroethene	U		0.000190	0.00100	1	04/20/2021 02:15	WG1654740
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/20/2021 02:15	WG1654740
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/20/2021 02:15	WG1654740
Vinyl chloride	U		0.000234	0.00100	1	04/20/2021 02:15	WG1654740
o-Xylene	U		0.000174	0.00100	1	04/20/2021 02:15	WG1654740
m&p-Xylene	U		0.000430	0.00200	1	04/20/2021 02:15	WG1654740
Xylenes, Total	U		0.000174	0.00300	1	04/20/2021 02:15	WG1654740
(S) Toluene-d8	*98.9*			*80.0-120*		*04/20/2021 02:15*	WG1654740
(S) Toluene-d8	*117*			*80.0-120*		*04/20/2021 19:05*	WG1655241
(S) 4-Bromofluorobenzene	*95.3*			*77.0-126*		*04/20/2021 02:15*	WG1654740
(S) 4-Bromofluorobenzene	*95.9*			*77.0-126*		*04/20/2021 19:05*	WG1655241
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*04/20/2021 02:15*	WG1654740
(S) 1,2-Dichloroethane-d4	*94.8*			*70.0-130*		*04/20/2021 19:05*	WG1655241

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	3.66		0.0247	0.100	1	04/23/2021 16:33	WG1656980
(S) o-Terphenyl	*95.0*			*31.0-160*		*04/23/2021 16:33*	WG1656980

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2480		20.0	1	04/21/2021 06:17	WG1655624

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0500	0.100	1	05/03/2021 19:47	WG1661755

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	185		7.58	20.0	20	04/23/2021 19:17	WG1657224
Fluoride	0.554		0.0640	0.150	1	04/23/2021 18:05	WG1657224
Sulfate	1130		11.9	100	20	04/23/2021 19:17	WG1657224

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00106	J	0.000180	0.00200	1	04/27/2021 20:51	WG1659224
Arsenic,Dissolved	0.000800	J	0.000180	0.00200	1	04/27/2021 13:44	WG1656521
Barium	0.0251		0.000381	0.0200	1	04/27/2021 20:51	WG1659224
Barium,Dissolved	0.0208		0.000381	0.0200	1	04/27/2021 13:44	WG1656521
Calcium	318		0.0936	1.00	1	04/27/2021 20:51	WG1659224
Chromium	U		0.00124	0.00200	1	04/27/2021 20:51	WG1659224
Chromium,Dissolved	U		0.00124	0.00200	1	04/27/2021 13:44	WG1656521
Iron	0.776		0.0281	0.100	1	04/27/2021 20:51	WG1659224
Iron,Dissolved	U		0.0281	0.100	1	04/27/2021 13:44	WG1656521
Lead	U		0.000849	0.00200	1	04/27/2021 20:51	WG1659224
Lead,Dissolved	U		0.000849	0.00200	1	04/27/2021 13:44	WG1656521
Manganese	1.32		0.000704	0.00500	1	04/27/2021 20:51	WG1659224
Manganese,Dissolved	1.39		0.000704	0.00500	1	04/27/2021 13:44	WG1656521
Potassium	0.519	J	0.108	2.00	1	04/27/2021 20:51	WG1659224
Selenium	U		0.000300	0.00200	1	04/27/2021 20:51	WG1659224
Selenium,Dissolved	U		0.000300	0.00200	1	04/27/2021 13:44	WG1656521
Sodium	155		0.376	2.00	1	04/27/2021 20:51	WG1659224

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	4.52		0.0314	0.100	1	04/23/2021 16:55	WG1657492
(S) a,a,a-Trifluorotoluene(FID)	*102*			*78.0-120*		*04/23/2021 16:55*	WG1657492

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/20/2021 04:39	WG1654740
Benzene	0.0417		0.0000941	0.00100	1	04/20/2021 04:39	WG1654740
Bromodichloromethane	U		0.000136	0.00100	1	04/20/2021 04:39	WG1654740
Bromoform	U	J4	0.000129	0.00100	1	04/20/2021 04:39	WG1654740
Bromomethane	U		0.000605	0.00500	1	04/20/2021 04:39	WG1654740
n-Butylbenzene	U		0.000157	0.00100	1	04/20/2021 04:39	WG1654740
sec-Butylbenzene	0.00148		0.000125	0.00100	1	04/20/2021 04:39	WG1654740
Carbon disulfide	0.000140	J	0.0000962	0.00100	1	04/20/2021 04:39	WG1654740
Carbon tetrachloride	U		0.000128	0.00100	1	04/20/2021 04:39	WG1654740

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/20/2021 04:39	WG1654740
Chlorodibromomethane	U		0.000140	0.00100	1	04/20/2021 04:39	WG1654740
Chloroethane	U	J4	0.000192	0.00500	1	04/20/2021 04:39	WG1654740
Chloroform	U		0.000111	0.00500	1	04/20/2021 04:39	WG1654740
Chloromethane	U		0.000960	0.00250	1	04/20/2021 04:39	WG1654740
1,2-Dibromoethane	U		0.000126	0.00100	1	04/20/2021 04:39	WG1654740
1,1-Dichloroethane	U		0.000100	0.00100	1	04/20/2021 04:39	WG1654740
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/20/2021 04:39	WG1654740
1,1-Dichloroethene	U		0.000188	0.00100	1	04/20/2021 04:39	WG1654740
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/20/2021 04:39	WG1654740
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/20/2021 04:39	WG1654740
1,2-Dichloropropane	U		0.000149	0.00100	1	04/20/2021 04:39	WG1654740
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/20/2021 04:39	WG1654740
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/20/2021 04:39	WG1654740
Ethylbenzene	0.0183		0.000137	0.00100	1	04/20/2021 04:39	WG1654740
Isopropylbenzene	0.00231		0.000105	0.00100	1	04/20/2021 04:39	WG1654740
p-Isopropyltoluene	0.00382		0.000120	0.00100	1	04/20/2021 04:39	WG1654740
2-Butanone (MEK)	U		0.00119	0.0100	1	04/20/2021 04:39	WG1654740
2-Hexanone	U	J4	0.000787	0.0100	1	04/20/2021 04:39	WG1654740
Methylene Chloride	U		0.000430	0.00500	1	04/20/2021 04:39	WG1654740
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/20/2021 04:39	WG1654740
Methyl tert-butyl ether	0.00823		0.000101	0.00100	1	04/20/2021 19:25	WG1655241
Naphthalene	0.00507		0.00100	0.00500	1	04/20/2021 19:25	WG1655241
n-Propylbenzene	0.00273		0.0000993	0.00100	1	04/20/2021 04:39	WG1654740
Styrene	U		0.000118	0.00100	1	04/20/2021 04:39	WG1654740
1,1,1,2-Tetrachloroethane	U	J4	0.000147	0.00100	1	04/20/2021 04:39	WG1654740
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/20/2021 04:39	WG1654740
Tetrachloroethene	U		0.000300	0.00100	1	04/20/2021 04:39	WG1654740
Toluene	0.00120		0.000278	0.00100	1	04/20/2021 04:39	WG1654740
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/20/2021 04:39	WG1654740
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/20/2021 04:39	WG1654740
Trichloroethene	U		0.000190	0.00100	1	04/20/2021 04:39	WG1654740
1,2,4-Trimethylbenzene	0.0519		0.000322	0.00100	1	04/20/2021 04:39	WG1654740
1,3,5-Trimethylbenzene	0.00345		0.000104	0.00100	1	04/20/2021 04:39	WG1654740
Vinyl chloride	U		0.000234	0.00100	1	04/20/2021 04:39	WG1654740
o-Xylene	0.00222		0.000174	0.00100	1	04/20/2021 04:39	WG1654740
m&p-Xylene	0.0569		0.000430	0.00200	1	04/20/2021 04:39	WG1654740
Xylenes, Total	0.0591		0.000174	0.00300	1	04/20/2021 04:39	WG1654740
(S) Toluene-d8	*104*			*80.0-120*		*04/20/2021 04:39*	WG1654740
(S) Toluene-d8	*117*			*80.0-120*		*04/20/2021 19:25*	WG1655241
(S) 4-Bromofluorobenzene	*91.8*			*77.0-126*		*04/20/2021 04:39*	WG1654740
(S) 4-Bromofluorobenzene	*92.4*			*77.0-126*		*04/20/2021 19:25*	WG1655241
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*04/20/2021 04:39*	WG1654740
(S) 1,2-Dichloroethane-d4	*96.3*			*70.0-130*		*04/20/2021 19:25*	WG1655241

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.405		0.0247	0.100	1	04/23/2021 18:03	WG1657280
(S) o-Terphenyl	*89.0*			*31.0-160*		*04/23/2021 18:03*	WG1657280

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4820		20.0	1	04/21/2021 06:17	WG1655624

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	1.09		0.0500	0.100	1	05/03/2021 19:48	WG1661755

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	335		3.79	10.0	10	04/23/2021 20:46	WG1657224
Fluoride	1.45	J	0.640	1.50	10	04/23/2021 20:46	WG1657224
Sulfate	2780		59.4	500	100	04/23/2021 19:53	WG1657224

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00344		0.000180	0.00200	1	04/27/2021 20:54	WG1659224
Arsenic,Dissolved	0.00366		0.000180	0.00200	1	04/27/2021 13:47	WG1656521
Barium	0.0103	J	0.000381	0.0200	1	04/27/2021 20:54	WG1659224
Barium,Dissolved	0.00935	J	0.000381	0.0200	1	04/27/2021 13:47	WG1656521
Calcium	513		0.0936	1.00	1	04/27/2021 20:54	WG1659224
Chromium	U		0.00124	0.00200	1	04/27/2021 20:54	WG1659224
Chromium,Dissolved	U		0.00124	0.00200	1	04/27/2021 13:47	WG1656521
Iron	U		0.0281	0.100	1	04/27/2021 20:54	WG1659224
Iron,Dissolved	U		0.0281	0.100	1	04/27/2021 13:47	WG1656521
Lead	U		0.000849	0.00200	1	04/27/2021 20:54	WG1659224
Lead,Dissolved	U		0.000849	0.00200	1	04/27/2021 13:47	WG1656521
Manganese	0.0165		0.000704	0.00500	1	04/27/2021 20:54	WG1659224
Manganese,Dissolved	0.0185		0.000704	0.00500	1	04/27/2021 13:47	WG1656521
Potassium	1.64	J	0.108	2.00	1	04/27/2021 20:54	WG1659224
Selenium	0.00500		0.000300	0.00200	1	04/27/2021 20:54	WG1659224
Selenium,Dissolved	0.00492		0.000300	0.00200	1	04/27/2021 13:47	WG1656521
Sodium	241		0.376	2.00	1	04/27/2021 20:54	WG1659224

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.101		0.0314	0.100	1	04/23/2021 17:17	WG1657492
(S) a,a,a-Trifluorotoluene(FID)	*98.9*			*78.0-120*		*04/23/2021 17:17*	WG1657492

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/20/2021 02:35	WG1654740
Benzene	0.000102	J	0.0000941	0.00100	1	04/20/2021 02:35	WG1654740
Bromodichloromethane	U		0.000136	0.00100	1	04/20/2021 02:35	WG1654740
Bromoform	U	J4	0.000129	0.00100	1	04/20/2021 02:35	WG1654740
Bromomethane	U		0.000605	0.00500	1	04/20/2021 02:35	WG1654740
n-Butylbenzene	U		0.000157	0.00100	1	04/20/2021 02:35	WG1654740
sec-Butylbenzene	U		0.000125	0.00100	1	04/20/2021 02:35	WG1654740
Carbon disulfide	0.000147	J	0.0000962	0.00100	1	04/20/2021 02:35	WG1654740
Carbon tetrachloride	U		0.000128	0.00100	1	04/20/2021 02:35	WG1654740

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/20/2021 02:35	WG1654740
Chlorodibromomethane	U		0.000140	0.00100	1	04/20/2021 02:35	WG1654740
Chloroethane	U	J4	0.000192	0.00500	1	04/20/2021 02:35	WG1654740
Chloroform	U		0.000111	0.00500	1	04/20/2021 02:35	WG1654740
Chloromethane	U		0.000960	0.00250	1	04/20/2021 02:35	WG1654740
1,2-Dibromoethane	U		0.000126	0.00100	1	04/20/2021 02:35	WG1654740
1,1-Dichloroethane	U		0.000100	0.00100	1	04/20/2021 02:35	WG1654740
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/20/2021 02:35	WG1654740
1,1-Dichloroethene	U		0.000188	0.00100	1	04/20/2021 02:35	WG1654740
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/20/2021 02:35	WG1654740
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/20/2021 02:35	WG1654740
1,2-Dichloropropane	U		0.000149	0.00100	1	04/20/2021 02:35	WG1654740
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/20/2021 02:35	WG1654740
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/20/2021 02:35	WG1654740
Ethylbenzene	U		0.000137	0.00100	1	04/20/2021 02:35	WG1654740
Isopropylbenzene	U		0.000105	0.00100	1	04/20/2021 02:35	WG1654740
p-Isopropyltoluene	U		0.000120	0.00100	1	04/20/2021 02:35	WG1654740
2-Butanone (MEK)	U		0.00119	0.0100	1	04/20/2021 02:35	WG1654740
2-Hexanone	U	J4	0.000787	0.0100	1	04/20/2021 02:35	WG1654740
Methylene Chloride	U		0.000430	0.00500	1	04/20/2021 02:35	WG1654740
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/20/2021 02:35	WG1654740
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/20/2021 02:35	WG1654740
Naphthalene	U		0.00100	0.00500	1	04/20/2021 02:35	WG1654740
n-Propylbenzene	U		0.0000993	0.00100	1	04/20/2021 02:35	WG1654740
Styrene	U		0.000118	0.00100	1	04/20/2021 02:35	WG1654740
1,1,1,2-Tetrachloroethane	U	J4	0.000147	0.00100	1	04/20/2021 02:35	WG1654740
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/20/2021 02:35	WG1654740
Tetrachloroethene	U		0.000300	0.00100	1	04/20/2021 02:35	WG1654740
Toluene	U		0.000278	0.00100	1	04/20/2021 02:35	WG1654740
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/20/2021 02:35	WG1654740
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/20/2021 02:35	WG1654740
Trichloroethene	U		0.000190	0.00100	1	04/20/2021 02:35	WG1654740
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/20/2021 02:35	WG1654740
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/20/2021 02:35	WG1654740
Vinyl chloride	U		0.000234	0.00100	1	04/20/2021 02:35	WG1654740
o-Xylene	U		0.000174	0.00100	1	04/20/2021 02:35	WG1654740
m&p-Xylene	U		0.000430	0.00200	1	04/20/2021 02:35	WG1654740
Xylenes, Total	U		0.000174	0.00300	1	04/20/2021 02:35	WG1654740
(S) Toluene-d8	*102*			*80.0-120*		*04/20/2021 02:35*	WG1654740
(S) 4-Bromofluorobenzene	*96.1*			*77.0-126*		*04/20/2021 02:35*	WG1654740
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*04/20/2021 02:35*	WG1654740

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0992	J	0.0247	0.100	1	04/23/2021 18:24	WG1657280
(S) o-Terphenyl	*87.0*			*31.0-160*		*04/23/2021 18:24*	WG1657280

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	ND		10.0	1	04/21/2021 06:17	WG1655624

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0500	0.100	1	05/03/2021 19:50	WG1661755

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	U		0.379	1.00	1	04/23/2021 21:04	WG1657224
Fluoride	U		0.0640	0.150	1	04/23/2021 21:04	WG1657224
Sulfate	U		0.594	5.00	1	04/23/2021 21:04	WG1657224

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	U		0.000180	0.00200	1	04/27/2021 20:57	WG1659224
Arsenic,Dissolved	U		0.000180	0.00200	1	04/27/2021 13:50	WG1656521
Barium	0.000503	J	0.000381	0.0200	1	04/27/2021 20:57	WG1659224
Barium,Dissolved	0.000626	B J	0.000381	0.0200	1	04/27/2021 13:50	WG1656521
Calcium	0.135	J	0.0936	1.00	1	04/27/2021 20:57	WG1659224
Chromium	U		0.00124	0.00200	1	04/27/2021 20:57	WG1659224
Chromium,Dissolved	U		0.00124	0.00200	1	04/27/2021 13:50	WG1656521
Iron	U		0.0281	0.100	1	04/27/2021 20:57	WG1659224
Iron,Dissolved	U		0.0281	0.100	1	04/27/2021 13:50	WG1656521
Lead	U		0.000849	0.00200	1	04/27/2021 20:57	WG1659224
Lead,Dissolved	U		0.000849	0.00200	1	04/27/2021 13:50	WG1656521
Manganese	U		0.000704	0.00500	1	04/27/2021 20:57	WG1659224
Manganese,Dissolved	U		0.000704	0.00500	1	04/27/2021 13:50	WG1656521
Potassium	U		0.108	2.00	1	04/27/2021 20:57	WG1659224
Selenium	U		0.000300	0.00200	1	04/27/2021 20:57	WG1659224
Selenium,Dissolved	U		0.000300	0.00200	1	04/27/2021 13:50	WG1656521
Sodium	U		0.376	2.00	1	04/27/2021 20:57	WG1659224

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0367	J	0.0314	0.100	1	04/23/2021 14:24	WG1657492
(S) a,a,a-Trifluorotoluene(FID)	*97.9*			*78.0-120*		*04/23/2021 14:24*	WG1657492

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/19/2021 22:49	WG1654740
Benzene	U		0.0000941	0.00100	1	04/19/2021 22:49	WG1654740
Bromodichloromethane	U		0.000136	0.00100	1	04/19/2021 22:49	WG1654740
Bromoform	U	J4	0.000129	0.00100	1	04/19/2021 22:49	WG1654740
Bromomethane	U		0.000605	0.00500	1	04/19/2021 22:49	WG1654740
n-Butylbenzene	U		0.000157	0.00100	1	04/19/2021 22:49	WG1654740
sec-Butylbenzene	U		0.000125	0.00100	1	04/19/2021 22:49	WG1654740
Carbon disulfide	U		0.0000962	0.00100	1	04/19/2021 22:49	WG1654740
Carbon tetrachloride	U		0.000128	0.00100	1	04/19/2021 22:49	WG1654740

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/19/2021 22:49	WG1654740
Chlorodibromomethane	U		0.000140	0.00100	1	04/19/2021 22:49	WG1654740
Chloroethane	U	J4	0.000192	0.00500	1	04/19/2021 22:49	WG1654740
Chloroform	U		0.000111	0.00500	1	04/19/2021 22:49	WG1654740
Chloromethane	U		0.000960	0.00250	1	04/19/2021 22:49	WG1654740
1,2-Dibromoethane	U		0.000126	0.00100	1	04/19/2021 22:49	WG1654740
1,1-Dichloroethane	U		0.000100	0.00100	1	04/19/2021 22:49	WG1654740
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/19/2021 22:49	WG1654740
1,1-Dichloroethene	U		0.000188	0.00100	1	04/19/2021 22:49	WG1654740
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/19/2021 22:49	WG1654740
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/19/2021 22:49	WG1654740
1,2-Dichloropropane	U		0.000149	0.00100	1	04/19/2021 22:49	WG1654740
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/19/2021 22:49	WG1654740
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/19/2021 22:49	WG1654740
Ethylbenzene	U		0.000137	0.00100	1	04/19/2021 22:49	WG1654740
Isopropylbenzene	U		0.000105	0.00100	1	04/19/2021 22:49	WG1654740
p-Isopropyltoluene	U		0.000120	0.00100	1	04/19/2021 22:49	WG1654740
2-Butanone (MEK)	U		0.00119	0.0100	1	04/19/2021 22:49	WG1654740
2-Hexanone	U	J4	0.000787	0.0100	1	04/19/2021 22:49	WG1654740
Methylene Chloride	U		0.000430	0.00500	1	04/19/2021 22:49	WG1654740
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/19/2021 22:49	WG1654740
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/19/2021 22:49	WG1654740
Naphthalene	U		0.00100	0.00500	1	04/19/2021 22:49	WG1654740
n-Propylbenzene	U		0.0000993	0.00100	1	04/19/2021 22:49	WG1654740
Styrene	U		0.000118	0.00100	1	04/19/2021 22:49	WG1654740
1,1,1,2-Tetrachloroethane	U	J4	0.000147	0.00100	1	04/19/2021 22:49	WG1654740
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/19/2021 22:49	WG1654740
Tetrachloroethene	U		0.000300	0.00100	1	04/19/2021 22:49	WG1654740
Toluene	U		0.000278	0.00100	1	04/19/2021 22:49	WG1654740
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/19/2021 22:49	WG1654740
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/19/2021 22:49	WG1654740
Trichloroethene	U		0.000190	0.00100	1	04/19/2021 22:49	WG1654740
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/19/2021 22:49	WG1654740
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/19/2021 22:49	WG1654740
Vinyl chloride	U		0.000234	0.00100	1	04/19/2021 22:49	WG1654740
o-Xylene	U		0.000174	0.00100	1	04/19/2021 22:49	WG1654740
m&p-Xylene	U		0.000430	0.00200	1	04/19/2021 22:49	WG1654740
Xylenes, Total	U		0.000174	0.00300	1	04/19/2021 22:49	WG1654740
(S) Toluene-d8	*99.4*			*80.0-120*		*04/19/2021 22:49*	WG1654740
(S) 4-Bromofluorobenzene	*85.0*			*77.0-126*		*04/19/2021 22:49*	WG1654740
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*04/19/2021 22:49*	WG1654740

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	U		0.0247	0.100	1	04/23/2021 18:44	WG1657280
(S) o-Terphenyl	*88.5*			*31.0-160*		*04/23/2021 18:44*	WG1657280

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	ND		10.0	1	04/21/2021 06:17	WG1655624

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0500	0.100	1	05/03/2021 19:51	WG1661755

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	U		0.379	1.00	1	04/23/2021 21:22	WG1657224
Fluoride	U		0.0640	0.150	1	04/23/2021 21:22	WG1657224
Sulfate	U		0.594	5.00	1	04/23/2021 21:22	WG1657224

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	U		0.000180	0.00200	1	04/27/2021 21:01	WG1659224
Arsenic,Dissolved	U		0.000180	0.00200	1	04/27/2021 13:54	WG1656521
Barium	0.000429	J	0.000381	0.0200	1	04/27/2021 21:01	WG1659224
Barium,Dissolved	U		0.000381	0.0200	1	04/27/2021 13:54	WG1656521
Calcium	0.0989	J	0.0936	1.00	1	04/27/2021 21:01	WG1659224
Chromium	U		0.00124	0.00200	1	04/27/2021 21:01	WG1659224
Chromium,Dissolved	U		0.00124	0.00200	1	04/27/2021 13:54	WG1656521
Iron	U		0.0281	0.100	1	04/27/2021 21:01	WG1659224
Iron,Dissolved	U		0.0281	0.100	1	04/27/2021 13:54	WG1656521
Lead	U		0.000849	0.00200	1	04/27/2021 21:01	WG1659224
Lead,Dissolved	U		0.000849	0.00200	1	04/27/2021 13:54	WG1656521
Manganese	U		0.000704	0.00500	1	04/27/2021 21:01	WG1659224
Manganese,Dissolved	U		0.000704	0.00500	1	04/27/2021 13:54	WG1656521
Potassium	U		0.108	2.00	1	04/27/2021 21:01	WG1659224
Selenium	U		0.000300	0.00200	1	04/27/2021 21:01	WG1659224
Selenium,Dissolved	U		0.000300	0.00200	1	04/27/2021 13:54	WG1656521
Sodium	U		0.376	2.00	1	04/27/2021 21:01	WG1659224

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/23/2021 14:45	WG1657492
(S) a,a,a-Trifluorotoluene(FID)	*98.9*			*78.0-120*		*04/23/2021 14:45*	WG1657492

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/19/2021 23:10	WG1654740
Benzene	U		0.0000941	0.00100	1	04/19/2021 23:10	WG1654740
Bromodichloromethane	U		0.000136	0.00100	1	04/19/2021 23:10	WG1654740
Bromoform	U	J4	0.000129	0.00100	1	04/19/2021 23:10	WG1654740
Bromomethane	U		0.000605	0.00500	1	04/19/2021 23:10	WG1654740
n-Butylbenzene	U		0.000157	0.00100	1	04/19/2021 23:10	WG1654740
sec-Butylbenzene	U		0.000125	0.00100	1	04/19/2021 23:10	WG1654740
Carbon disulfide	U		0.0000962	0.00100	1	04/19/2021 23:10	WG1654740
Carbon tetrachloride	U		0.000128	0.00100	1	04/19/2021 23:10	WG1654740

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000116	0.00100	1	04/19/2021 23:10	WG1654740
Chlorodibromomethane	U		0.000140	0.00100	1	04/19/2021 23:10	WG1654740
Chloroethane	U	J4	0.000192	0.00500	1	04/19/2021 23:10	WG1654740
Chloroform	U		0.000111	0.00500	1	04/19/2021 23:10	WG1654740
Chloromethane	U		0.000960	0.00250	1	04/19/2021 23:10	WG1654740
1,2-Dibromoethane	U		0.000126	0.00100	1	04/19/2021 23:10	WG1654740
1,1-Dichloroethane	U		0.000100	0.00100	1	04/19/2021 23:10	WG1654740
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/19/2021 23:10	WG1654740
1,1-Dichloroethene	U		0.000188	0.00100	1	04/19/2021 23:10	WG1654740
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/19/2021 23:10	WG1654740
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/19/2021 23:10	WG1654740
1,2-Dichloropropane	U		0.000149	0.00100	1	04/19/2021 23:10	WG1654740
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/19/2021 23:10	WG1654740
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/19/2021 23:10	WG1654740
Ethylbenzene	U		0.000137	0.00100	1	04/19/2021 23:10	WG1654740
Isopropylbenzene	U		0.000105	0.00100	1	04/19/2021 23:10	WG1654740
p-Isopropyltoluene	U		0.000120	0.00100	1	04/19/2021 23:10	WG1654740
2-Butanone (MEK)	U		0.00119	0.0100	1	04/19/2021 23:10	WG1654740
2-Hexanone	U	J4	0.000787	0.0100	1	04/19/2021 23:10	WG1654740
Methylene Chloride	U		0.000430	0.00500	1	04/19/2021 23:10	WG1654740
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/19/2021 23:10	WG1654740
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/19/2021 23:10	WG1654740
Naphthalene	U		0.00100	0.00500	1	04/19/2021 23:10	WG1654740
n-Propylbenzene	U		0.0000993	0.00100	1	04/19/2021 23:10	WG1654740
Styrene	U		0.000118	0.00100	1	04/19/2021 23:10	WG1654740
1,1,1,2-Tetrachloroethane	U	J4	0.000147	0.00100	1	04/19/2021 23:10	WG1654740
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/19/2021 23:10	WG1654740
Tetrachloroethene	U		0.000300	0.00100	1	04/19/2021 23:10	WG1654740
Toluene	U		0.000278	0.00100	1	04/19/2021 23:10	WG1654740
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/19/2021 23:10	WG1654740
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/19/2021 23:10	WG1654740
Trichloroethene	U		0.000190	0.00100	1	04/19/2021 23:10	WG1654740
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/19/2021 23:10	WG1654740
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/19/2021 23:10	WG1654740
Vinyl chloride	U		0.000234	0.00100	1	04/19/2021 23:10	WG1654740
o-Xylene	U		0.000174	0.00100	1	04/19/2021 23:10	WG1654740
m&p-Xylene	U		0.000430	0.00200	1	04/19/2021 23:10	WG1654740
Xylenes, Total	U		0.000174	0.00300	1	04/19/2021 23:10	WG1654740
(S) Toluene-d8	*99.2*			*80.0-120*		*04/19/2021 23:10*	WG1654740
(S) 4-Bromofluorobenzene	*87.1*			*77.0-126*		*04/19/2021 23:10*	WG1654740
(S) 1,2-Dichloroethane-d4	*117*			*70.0-130*		*04/19/2021 23:10*	WG1654740

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	U		0.0247	0.100	1	04/23/2021 19:04	WG1657280
(S) o-Terphenyl	*80.0*			*31.0-160*		*04/23/2021 19:04*	WG1657280

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/20/2021 04:12	WG1654745
Benzene	U		0.0000941	0.00100	1	04/20/2021 04:12	WG1654745
Bromodichloromethane	U		0.000136	0.00100	1	04/20/2021 04:12	WG1654745
Bromoform	U		0.000129	0.00100	1	04/20/2021 04:12	WG1654745
Bromomethane	U		0.000605	0.00500	1	04/20/2021 04:12	WG1654745
n-Butylbenzene	U		0.000157	0.00100	1	04/20/2021 04:12	WG1654745
sec-Butylbenzene	U		0.000125	0.00100	1	04/20/2021 04:12	WG1654745
Carbon disulfide	U		0.0000962	0.00100	1	04/20/2021 04:12	WG1654745
Carbon tetrachloride	U		0.000128	0.00100	1	04/20/2021 04:12	WG1654745
Chlorobenzene	U		0.000116	0.00100	1	04/20/2021 04:12	WG1654745
Chlorodibromomethane	U		0.000140	0.00100	1	04/20/2021 04:12	WG1654745
Chloroethane	U		0.000192	0.00500	1	04/20/2021 04:12	WG1654745
Chloroform	U		0.000111	0.00500	1	04/20/2021 04:12	WG1654745
Chloromethane	U		0.000960	0.00250	1	04/20/2021 04:12	WG1654745
1,2-Dibromoethane	U		0.000126	0.00100	1	04/20/2021 04:12	WG1654745
1,1-Dichloroethane	U		0.000100	0.00100	1	04/20/2021 04:12	WG1654745
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/20/2021 04:12	WG1654745
1,1-Dichloroethene	U		0.000188	0.00100	1	04/20/2021 04:12	WG1654745
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/20/2021 04:12	WG1654745
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/20/2021 04:12	WG1654745
1,2-Dichloropropane	U		0.000149	0.00100	1	04/20/2021 04:12	WG1654745
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/20/2021 04:12	WG1654745
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/20/2021 04:12	WG1654745
Ethylbenzene	U		0.000137	0.00100	1	04/20/2021 04:12	WG1654745
Isopropylbenzene	U		0.000105	0.00100	1	04/20/2021 04:12	WG1654745
p-Isopropyltoluene	U		0.000120	0.00100	1	04/20/2021 04:12	WG1654745
2-Butanone (MEK)	U		0.00119	0.0100	1	04/20/2021 04:12	WG1654745
2-Hexanone	U		0.000787	0.0100	1	04/20/2021 04:12	WG1654745
Methylene Chloride	U		0.000430	0.00500	1	04/20/2021 04:12	WG1654745
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/20/2021 04:12	WG1654745
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/20/2021 04:12	WG1654745
Naphthalene	U		0.00100	0.00500	1	04/20/2021 04:12	WG1654745
n-Propylbenzene	U		0.0000993	0.00100	1	04/20/2021 04:12	WG1654745
Styrene	U		0.000118	0.00100	1	04/20/2021 04:12	WG1654745
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/20/2021 04:12	WG1654745
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/20/2021 04:12	WG1654745
Tetrachloroethene	U		0.000300	0.00100	1	04/20/2021 04:12	WG1654745
Toluene	U		0.000278	0.00100	1	04/20/2021 04:12	WG1654745
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/20/2021 04:12	WG1654745
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/20/2021 04:12	WG1654745
Trichloroethene	U		0.000190	0.00100	1	04/20/2021 04:12	WG1654745
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/20/2021 04:12	WG1654745
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/20/2021 04:12	WG1654745
Vinyl chloride	U		0.000234	0.00100	1	04/20/2021 04:12	WG1654745
o-Xylene	U		0.000174	0.00100	1	04/20/2021 04:12	WG1654745
m&p-Xylene	U		0.000430	0.00200	1	04/20/2021 04:12	WG1654745
Xylenes, Total	U		0.000174	0.00300	1	04/20/2021 04:12	WG1654745
(S) Toluene-d8	*111*			*80.0-120*		*04/20/2021 04:12*	WG1654745
(S) 4-Bromofluorobenzene	*94.6*			*77.0-126*		*04/20/2021 04:12*	WG1654745
(S) 1,2-Dichloroethane-d4	*92.4*			*70.0-130*		*04/20/2021 04:12*	WG1654745

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/20/2021 04:32	WG1654745
Benzene	U		0.0000941	0.00100	1	04/20/2021 04:32	WG1654745
Bromodichloromethane	U		0.000136	0.00100	1	04/20/2021 04:32	WG1654745
Bromoform	U		0.000129	0.00100	1	04/20/2021 04:32	WG1654745
Bromomethane	U		0.000605	0.00500	1	04/20/2021 04:32	WG1654745
n-Butylbenzene	U		0.000157	0.00100	1	04/20/2021 04:32	WG1654745
sec-Butylbenzene	U		0.000125	0.00100	1	04/20/2021 04:32	WG1654745
Carbon disulfide	U		0.0000962	0.00100	1	04/20/2021 04:32	WG1654745
Carbon tetrachloride	U		0.000128	0.00100	1	04/20/2021 04:32	WG1654745
Chlorobenzene	U		0.000116	0.00100	1	04/20/2021 04:32	WG1654745
Chlorodibromomethane	U		0.000140	0.00100	1	04/20/2021 04:32	WG1654745
Chloroethane	U		0.000192	0.00500	1	04/20/2021 04:32	WG1654745
Chloroform	U		0.000111	0.00500	1	04/20/2021 04:32	WG1654745
Chloromethane	U		0.000960	0.00250	1	04/20/2021 04:32	WG1654745
1,2-Dibromoethane	U		0.000126	0.00100	1	04/20/2021 04:32	WG1654745
1,1-Dichloroethane	U		0.000100	0.00100	1	04/20/2021 04:32	WG1654745
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/20/2021 04:32	WG1654745
1,1-Dichloroethene	U		0.000188	0.00100	1	04/20/2021 04:32	WG1654745
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/20/2021 04:32	WG1654745
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/20/2021 04:32	WG1654745
1,2-Dichloropropane	U		0.000149	0.00100	1	04/20/2021 04:32	WG1654745
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/20/2021 04:32	WG1654745
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/20/2021 04:32	WG1654745
Ethylbenzene	U		0.000137	0.00100	1	04/20/2021 04:32	WG1654745
Isopropylbenzene	U		0.000105	0.00100	1	04/20/2021 04:32	WG1654745
p-Isopropyltoluene	U		0.000120	0.00100	1	04/20/2021 04:32	WG1654745
2-Butanone (MEK)	U		0.00119	0.0100	1	04/20/2021 04:32	WG1654745
2-Hexanone	U		0.000787	0.0100	1	04/20/2021 04:32	WG1654745
Methylene Chloride	U		0.000430	0.00500	1	04/20/2021 04:32	WG1654745
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/20/2021 04:32	WG1654745
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/20/2021 04:32	WG1654745
Naphthalene	U		0.00100	0.00500	1	04/20/2021 04:32	WG1654745
n-Propylbenzene	U		0.0000993	0.00100	1	04/20/2021 04:32	WG1654745
Styrene	U		0.000118	0.00100	1	04/20/2021 04:32	WG1654745
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/20/2021 04:32	WG1654745
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/20/2021 04:32	WG1654745
Tetrachloroethene	U		0.000300	0.00100	1	04/20/2021 04:32	WG1654745
Toluene	U		0.000278	0.00100	1	04/20/2021 04:32	WG1654745
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/20/2021 04:32	WG1654745
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/20/2021 04:32	WG1654745
Trichloroethene	U		0.000190	0.00100	1	04/20/2021 04:32	WG1654745
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/20/2021 04:32	WG1654745
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/20/2021 04:32	WG1654745
Vinyl chloride	U		0.000234	0.00100	1	04/20/2021 04:32	WG1654745
o-Xylene	U		0.000174	0.00100	1	04/20/2021 04:32	WG1654745
m&p-Xylene	U		0.000430	0.00200	1	04/20/2021 04:32	WG1654745
Xylenes, Total	U		0.000174	0.00300	1	04/20/2021 04:32	WG1654745
(S) Toluene-d8	*117*			*80.0-120*		*04/20/2021 04:32*	WG1654745
(S) 4-Bromofluorobenzene	*95.9*			*77.0-126*		*04/20/2021 04:32*	WG1654745
(S) 1,2-Dichloroethane-d4	*93.3*			*70.0-130*		*04/20/2021 04:32*	WG1654745

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	04/20/2021 04:53	WG1654745
Benzene	U		0.0000941	0.00100	1	04/20/2021 04:53	WG1654745
Bromodichloromethane	U		0.000136	0.00100	1	04/20/2021 04:53	WG1654745
Bromoform	U		0.000129	0.00100	1	04/20/2021 04:53	WG1654745
Bromomethane	U		0.000605	0.00500	1	04/20/2021 04:53	WG1654745
n-Butylbenzene	U		0.000157	0.00100	1	04/20/2021 04:53	WG1654745
sec-Butylbenzene	U		0.000125	0.00100	1	04/20/2021 04:53	WG1654745
Carbon disulfide	U		0.0000962	0.00100	1	04/20/2021 04:53	WG1654745
Carbon tetrachloride	U		0.000128	0.00100	1	04/20/2021 04:53	WG1654745
Chlorobenzene	U		0.000116	0.00100	1	04/20/2021 04:53	WG1654745
Chlorodibromomethane	U		0.000140	0.00100	1	04/20/2021 04:53	WG1654745
Chloroethane	U		0.000192	0.00500	1	04/20/2021 04:53	WG1654745
Chloroform	U		0.000111	0.00500	1	04/20/2021 04:53	WG1654745
Chloromethane	U		0.000960	0.00250	1	04/20/2021 04:53	WG1654745
1,2-Dibromoethane	U		0.000126	0.00100	1	04/20/2021 04:53	WG1654745
1,1-Dichloroethane	U		0.000100	0.00100	1	04/20/2021 04:53	WG1654745
1,2-Dichloroethane	U		0.0000819	0.00100	1	04/20/2021 04:53	WG1654745
1,1-Dichloroethene	U		0.000188	0.00100	1	04/20/2021 04:53	WG1654745
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	04/20/2021 04:53	WG1654745
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	04/20/2021 04:53	WG1654745
1,2-Dichloropropane	U		0.000149	0.00100	1	04/20/2021 04:53	WG1654745
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	04/20/2021 04:53	WG1654745
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	04/20/2021 04:53	WG1654745
Ethylbenzene	U		0.000137	0.00100	1	04/20/2021 04:53	WG1654745
Isopropylbenzene	U		0.000105	0.00100	1	04/20/2021 04:53	WG1654745
p-Isopropyltoluene	U		0.000120	0.00100	1	04/20/2021 04:53	WG1654745
2-Butanone (MEK)	U		0.00119	0.0100	1	04/20/2021 04:53	WG1654745
2-Hexanone	U		0.000787	0.0100	1	04/20/2021 04:53	WG1654745
Methylene Chloride	U		0.000430	0.00500	1	04/20/2021 04:53	WG1654745
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	04/20/2021 04:53	WG1654745
Methyl tert-butyl ether	U		0.000101	0.00100	1	04/20/2021 04:53	WG1654745
Naphthalene	U		0.00100	0.00500	1	04/20/2021 04:53	WG1654745
n-Propylbenzene	U		0.0000993	0.00100	1	04/20/2021 04:53	WG1654745
Styrene	U		0.000118	0.00100	1	04/20/2021 04:53	WG1654745
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	04/20/2021 04:53	WG1654745
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	04/20/2021 04:53	WG1654745
Tetrachloroethene	U		0.000300	0.00100	1	04/20/2021 04:53	WG1654745
Toluene	U		0.000278	0.00100	1	04/20/2021 04:53	WG1654745
1,1,1-Trichloroethane	U		0.000149	0.00100	1	04/20/2021 04:53	WG1654745
1,1,2-Trichloroethane	U		0.000158	0.00100	1	04/20/2021 04:53	WG1654745
Trichloroethene	U		0.000190	0.00100	1	04/20/2021 04:53	WG1654745
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	04/20/2021 04:53	WG1654745
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	04/20/2021 04:53	WG1654745
Vinyl chloride	U		0.000234	0.00100	1	04/20/2021 04:53	WG1654745
o-Xylene	U		0.000174	0.00100	1	04/20/2021 04:53	WG1654745
m&p-Xylene	U		0.000430	0.00200	1	04/20/2021 04:53	WG1654745
Xylenes, Total	U		0.000174	0.00300	1	04/20/2021 04:53	WG1654745
(S) Toluene-d8	*111*			*80.0-120*		*04/20/2021 04:53*	WG1654745
(S) 4-Bromofluorobenzene	*91.6*			*77.0-126*		*04/20/2021 04:53*	WG1654745
(S) 1,2-Dichloroethane-d4	*91.6*			*70.0-130*		*04/20/2021 04:53*	WG1654745

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1340		10.0	1	04/21/2021 06:17	WG1655624

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0500	0.100	1	05/03/2021 19:57	WG1661755

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	280		3.79	10.0	10	04/23/2021 21:58	WG1657224
Fluoride	1.02		0.0640	0.150	1	04/23/2021 21:40	WG1657224
Sulfate	2.65	J	0.594	5.00	1	04/23/2021 21:40	WG1657224

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0449		0.000180	0.00200	1	04/27/2021 21:04	WG1659224
Arsenic,Dissolved	0.0593		0.000180	0.00200	1	04/27/2021 13:57	WG1656521
Barium	3.61		0.00190	0.100	5	04/27/2021 21:53	WG1659224
Barium,Dissolved	3.66		0.000381	0.0200	1	04/27/2021 13:57	WG1656521
Calcium	183		0.0936	1.00	1	04/27/2021 21:04	WG1659224
Chromium	U		0.00124	0.00200	1	04/27/2021 21:04	WG1659224
Chromium,Dissolved	U		0.00124	0.00200	1	04/27/2021 13:57	WG1656521
Iron	4.03		0.0281	0.100	1	04/27/2021 21:04	WG1659224
Iron,Dissolved	0.0788	J	0.0281	0.100	1	04/27/2021 13:57	WG1656521
Lead	U		0.000849	0.00200	1	04/27/2021 21:04	WG1659224
Lead,Dissolved	U		0.000849	0.00200	1	04/27/2021 13:57	WG1656521
Manganese	0.245		0.000704	0.00500	1	04/27/2021 21:04	WG1659224
Manganese,Dissolved	0.232		0.000704	0.00500	1	04/27/2021 13:57	WG1656521
Potassium	1.00	J	0.108	2.00	1	04/27/2021 21:04	WG1659224
Selenium	U		0.000300	0.00200	1	04/27/2021 21:04	WG1659224
Selenium,Dissolved	U		0.000300	0.00200	1	04/27/2021 13:57	WG1656521
Sodium	116		0.376	2.00	1	04/27/2021 21:04	WG1659224

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	2.40		0.0314	0.100	1	04/23/2021 17:38	WG1657492
(S) a,a,a-Trifluorotoluene(FID)	*97.6*			*78.0-120*		*04/23/2021 17:38*	WG1657492

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.565	2.50	50	04/20/2021 09:23	WG1654745
Benzene	0.451		0.00471	0.0500	50	04/20/2021 09:23	WG1654745
Bromodichloromethane	U		0.00680	0.0500	50	04/20/2021 09:23	WG1654745
Bromoform	U		0.00645	0.0500	50	04/20/2021 09:23	WG1654745
Bromomethane	U		0.0303	0.250	50	04/20/2021 09:23	WG1654745
n-Butylbenzene	U		0.00785	0.0500	50	04/20/2021 09:23	WG1654745
sec-Butylbenzene	0.0215	J	0.00625	0.0500	50	04/20/2021 09:23	WG1654745
Carbon disulfide	U		0.00481	0.0500	50	04/20/2021 09:23	WG1654745
Carbon tetrachloride	U		0.00640	0.0500	50	04/20/2021 09:23	WG1654745

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.00580	0.0500	50	04/20/2021 09:23	WG1654745
Chlorodibromomethane	U		0.00700	0.0500	50	04/20/2021 09:23	WG1654745
Chloroethane	U		0.00960	0.250	50	04/20/2021 09:23	WG1654745
Chloroform	U		0.00555	0.250	50	04/20/2021 09:23	WG1654745
Chloromethane	U		0.0480	0.125	50	04/20/2021 09:23	WG1654745
1,2-Dibromoethane	U		0.00630	0.0500	50	04/20/2021 09:23	WG1654745
1,1-Dichloroethane	U		0.00500	0.0500	50	04/20/2021 09:23	WG1654745
1,2-Dichloroethane	U		0.00409	0.0500	50	04/20/2021 09:23	WG1654745
1,1-Dichloroethene	U		0.00940	0.0500	50	04/20/2021 09:23	WG1654745
cis-1,2-Dichloroethene	U		0.00630	0.0500	50	04/20/2021 09:23	WG1654745
trans-1,2-Dichloroethene	U		0.00745	0.0500	50	04/20/2021 09:23	WG1654745
1,2-Dichloropropane	U		0.00745	0.0500	50	04/20/2021 09:23	WG1654745
cis-1,3-Dichloropropene	U		0.00555	0.0500	50	04/20/2021 09:23	WG1654745
trans-1,3-Dichloropropene	U		0.00590	0.0500	50	04/20/2021 09:23	WG1654745
Ethylbenzene	0.0287	J	0.00685	0.0500	50	04/20/2021 09:23	WG1654745
Isopropylbenzene	0.136		0.00525	0.0500	50	04/20/2021 09:23	WG1654745
p-Isopropyltoluene	U		0.00600	0.0500	50	04/20/2021 09:23	WG1654745
2-Butanone (MEK)	U		0.0595	0.500	50	04/20/2021 09:23	WG1654745
2-Hexanone	U		0.0394	0.500	50	04/20/2021 09:23	WG1654745
Methylene Chloride	U		0.0215	0.250	50	04/20/2021 09:23	WG1654745
4-Methyl-2-pentanone (MIBK)	U		0.0239	0.500	50	04/20/2021 09:23	WG1654745
Methyl tert-butyl ether	0.00545	J	0.00505	0.0500	50	04/20/2021 09:23	WG1654745
Naphthalene	U		0.0500	0.250	50	04/20/2021 09:23	WG1654745
n-Propylbenzene	0.186		0.00497	0.0500	50	04/20/2021 09:23	WG1654745
Styrene	U		0.00590	0.0500	50	04/20/2021 09:23	WG1654745
1,1,1,2-Tetrachloroethane	U		0.00735	0.0500	50	04/20/2021 09:23	WG1654745
1,1,2,2-Tetrachloroethane	U		0.00665	0.0500	50	04/20/2021 09:23	WG1654745
Tetrachloroethene	U		0.0150	0.0500	50	04/20/2021 09:23	WG1654745
Toluene	U		0.0139	0.0500	50	04/20/2021 09:23	WG1654745
1,1,1-Trichloroethane	U		0.00745	0.0500	50	04/20/2021 09:23	WG1654745
1,1,2-Trichloroethane	U		0.00790	0.0500	50	04/20/2021 09:23	WG1654745
Trichloroethene	U		0.00950	0.0500	50	04/20/2021 09:23	WG1654745
1,2,4-Trimethylbenzene	0.0469	J	0.0161	0.0500	50	04/20/2021 09:23	WG1654745
1,3,5-Trimethylbenzene	U		0.00520	0.0500	50	04/20/2021 09:23	WG1654745
Vinyl chloride	U		0.0117	0.0500	50	04/20/2021 09:23	WG1654745
o-Xylene	U		0.00870	0.0500	50	04/20/2021 09:23	WG1654745
m&p-Xylene	U		0.0215	0.100	50	04/20/2021 09:23	WG1654745
Xylenes, Total	U		0.00870	0.150	50	04/20/2021 09:23	WG1654745
(S) Toluene-d8	*116*			*80.0-120*		*04/20/2021 09:23*	WG1654745
(S) 4-Bromofluorobenzene	*101*			*77.0-126*		*04/20/2021 09:23*	WG1654745
(S) 1,2-Dichloroethane-d4	*89.9*			*70.0-130*		*04/20/2021 09:23*	WG1654745

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	9.88		0.0247	0.100	1	04/23/2021 19:24	WG1657280
(S) o-Terphenyl	*145*			*31.0-160*		*04/23/2021 19:24*	WG1657280

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Method Blank (MB)

(MB) R3645405-1 04/21/21 04:12

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1340127-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1340127-03 04/21/21 04:12 • (DUP) R3645405-3 04/21/21 04:12

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	2530	2580	1	1.64		5

L1340127-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1340127-13 04/21/21 04:12 • (DUP) R3645405-4 04/21/21 04:12

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	2960	2960	1	0.0675		5

Laboratory Control Sample (LCS)

(LCS) R3645405-2 04/21/21 04:12

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8870	101	77.4-123	

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QUALITY CONTROL SUMMARY

L1340127-14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,32

Method Blank (MB)

(MB) R3645413-1 04/21/21 06:17

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1340127-22 Original Sample (OS) • Duplicate (DUP)

(OS) L1340127-22 04/21/21 06:17 • (DUP) R3645413-3 04/21/21 06:17

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	3560	3600	1	1.12		5

L1340566-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1340566-05 04/21/21 06:17 • (DUP) R3645413-4 04/21/21 06:17

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	2360	2320	1	1.37		5

Laboratory Control Sample (LCS)

(LCS) R3645413-2 04/21/21 06:17

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8890	101	77.4-123	

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Method Blank (MB)

(MB) R3645257-1 04/22/21 14:05

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Nitrate-Nitrite	U		0.0500	0.100

L1340101-23 Original Sample (OS) • Duplicate (DUP)

(OS) L1340101-23 04/22/21 14:07 • (DUP) R3645257-3 04/22/21 14:08

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Nitrate-Nitrite	7.35	7.40	5	0.678		20

L1340127-17 Original Sample (OS) • Duplicate (DUP)

(OS) L1340127-17 04/22/21 15:05 • (DUP) R3645257-8 04/22/21 15:07

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Nitrate-Nitrite	0.636	0.635	1	0.157		20

Laboratory Control Sample (LCS)

(LCS) R3645257-2 04/22/21 14:06

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/l	mg/l	%	%	
Nitrate-Nitrite	2.50	2.63	105	90.0-110	

L1340101-24 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1340101-24 04/22/21 14:10 • (MS) R3645257-4 04/22/21 14:11 • (MSD) R3645257-5 04/22/21 14:12

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Nitrate-Nitrite	12.5	7.55	18.2	18.1	85.2	84.4	5	90.0-110	J6	J6	0.551	20

L1340127-18 Original Sample (OS) • Matrix Spike (MS)

(OS) L1340127-18 04/22/21 14:50 • (MS) R3645257-6 04/22/21 14:51

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
	mg/l	mg/l	mg/l	%		%	
Nitrate-Nitrite	2.50	0.112	2.62	100	1	90.0-110	

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Method Blank (MB)

(MB) R3645330-1 04/22/21 15:27

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Nitrate-Nitrite	U		0.0500	0.100

L1340127-28 Original Sample (OS) • Duplicate (DUP)

(OS) L1340127-28 04/22/21 15:45 • (DUP) R3645330-3 04/22/21 15:46

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Nitrate-Nitrite	7.10	7.00	5	1.42		20

L1340159-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1340159-08 04/22/21 16:03 • (DUP) R3645330-5 04/22/21 16:04

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Nitrate-Nitrite	6.90	6.85	5	0.727		20

Laboratory Control Sample (LCS)

(LCS) R3645330-2 04/22/21 15:29

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/l	mg/l	%	%	
Nitrate-Nitrite	2.50	2.57	103	90.0-110	

L1340127-32 Original Sample (OS) • Matrix Spike (MS)

(OS) L1340127-32 04/22/21 15:48 • (MS) R3645330-4 04/22/21 15:49

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
	mg/l	mg/l	mg/l	%		%	
Nitrate-Nitrite	2.50	6.50	9.30	112	5	90.0-110	J5

L1340159-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1340159-09 04/22/21 16:06 • (MS) R3645330-6 04/22/21 16:07 • (MSD) R3645330-7 04/22/21 16:08

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Nitrate-Nitrite	2.50	7.02	8.24	7.91	48.8	35.6	1	90.0-110	E J6	E J6	4.09	20

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Method Blank (MB)

(MB) R3649812-1 05/03/21 19:25

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Nitrate-Nitrite	U		0.0500	0.100

L1340049-21 Original Sample (OS) • Duplicate (DUP)

(OS) L1340049-21 05/03/21 19:28 • (DUP) R3649812-3 05/03/21 19:29

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate-Nitrite	0.149	0.149	1	0.000		20

L1340127-28 Original Sample (OS) • Duplicate (DUP)

(OS) L1340127-28 05/03/21 19:51 • (DUP) R3649812-6 05/03/21 19:52

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate-Nitrite	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3649812-2 05/03/21 19:27

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Nitrate-Nitrite	2.50	2.71	108	90.0-110	

L1340049-22 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1340049-22 05/03/21 19:30 • (MS) R3649812-4 05/03/21 19:32 • (MSD) R3649812-5 05/03/21 19:33

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Nitrate-Nitrite	2.50	0.0991	2.78	2.67	107	103	1	90.0-110			4.04	20

L1340127-32 Original Sample (OS) • Matrix Spike (MS)

(OS) L1340127-32 05/03/21 19:57 • (MS) R3649812-7 05/03/21 19:59

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Nitrate-Nitrite	2.50	U	2.45	98.0	1	90.0-110	

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Method Blank (MB)

(MB) R3646710-1 04/26/21 14:04

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Cyanide	U		0.00180	0.00500

L1338910-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1338910-04 04/26/21 14:11 • (DUP) R3646710-5 04/26/21 14:12

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	U	U	1	0.000		20

L1340140-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1340140-01 04/26/21 14:32 • (DUP) R3646710-8 04/26/21 14:33

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	0.00326	0.00321	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3646710-2 04/26/21 14:05

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Cyanide	0.100	0.102	102	87.1-120	

L1338910-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1338910-02 04/26/21 14:08 • (MS) R3646710-3 04/26/21 14:09 • (MSD) R3646710-4 04/26/21 14:10

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Cyanide	0.100	U	0.0947	0.0905	94.7	90.5	1	90.0-110			4.54	20

L1340127-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1340127-03 04/26/21 14:25 • (MS) R3646710-6 04/26/21 14:26 • (MSD) R3646710-7 04/26/21 14:29

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Cyanide	0.100	U	0.0982	0.0975	98.2	97.5	1	90.0-110			0.715	20

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Method Blank (MB)

(MB) R3646557-1 04/24/21 19:07

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	0.385	J	0.379	1.00
Fluoride	U		0.0640	0.150
Sulfate	U		0.594	5.00

L1340127-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1340127-09 04/25/21 01:18 • (DUP) R3646557-5 04/25/21 02:07

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Fluoride	0.587	0.581	1	0.993		15

L1340127-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1340127-09 04/25/21 02:24 • (DUP) R3646557-6 04/25/21 02:40

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	533	531	20	0.496		15
Sulfate	1340	1340	20	0.597		15

L1340127-20 Original Sample (OS) • Duplicate (DUP)

(OS) L1340127-20 04/25/21 09:48 • (DUP) R3646557-8 04/25/21 10:04

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Fluoride	0.906	0.898	1	0.865		15

L1340127-20 Original Sample (OS) • Duplicate (DUP)

(OS) L1340127-20 04/25/21 10:21 • (DUP) R3646557-9 04/25/21 10:37

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	339	332	10	2.17		15
Sulfate	475	475	10	0.0296		15

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Laboratory Control Sample (LCS)

(LCS) R3646557-2 04/24/21 19:24

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	38.7	96.8	80.0-120	
Fluoride	8.00	7.94	99.3	80.0-120	
Sulfate	40.0	38.4	96.1	80.0-120	

L1340127-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1340127-08 04/25/21 00:12 • (MS) R3646557-3 04/25/21 00:29 • (MSD) R3646557-4 04/25/21 00:45

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50.0	138	183	183	89.3	90.4	1	80.0-120	E	E	0.309	15
Fluoride	5.00	0.347	4.89	4.95	90.8	92.0	1	80.0-120			1.24	15
Sulfate	50.0	1450	1460	1460	25.3	24.0	1	80.0-120	E V	E V	0.0428	15

L1340127-15 Original Sample (OS) • Matrix Spike (MS)

(OS) L1340127-15 04/25/21 06:14 • (MS) R3646557-7 04/25/21 06:30

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	274	311	74.2	1	80.0-120	E V
Fluoride	5.00	1.26	6.12	97.3	1	80.0-120	
Sulfate	50.0	1.59	50.3	97.4	1	80.0-120	

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Method Blank (MB)

(MB) R3646699-1 04/23/21 13:11

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.379	1.00
Fluoride	U		0.0640	0.150
Sulfate	U		0.594	5.00

L1340127-25 Original Sample (OS) • Duplicate (DUP)

(OS) L1340127-25 04/23/21 18:05 • (DUP) R3646699-3 04/23/21 18:23

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	186	186	1	0.202	E	15
Fluoride	0.554	0.561	1	1.27		15
Sulfate	1090	1090	1	0.346	E	15

L1340127-25 Original Sample (OS) • Duplicate (DUP)

(OS) L1340127-25 04/23/21 19:17 • (DUP) R3646699-6 04/23/21 19:35

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	185	181	20	2.09		15
Sulfate	1130	1090	20	3.58		15

L1340241-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1340241-08 04/24/21 00:57 • (DUP) R3646699-7 04/24/21 01:15

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	0.827	0.824	1	0.376	J	15
Fluoride	0.290	0.287	1	1.08		15
Sulfate	U	U	1	0.000		15

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QUALITY CONTROL SUMMARY

L1340127-21,22,23,24,25,26,27,28,32

Laboratory Control Sample (LCS)

(LCS) R3646699-2 04/23/21 13:29

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	40.3	101	80.0-120	
Fluoride	8.00	8.47	106	80.0-120	
Sulfate	40.0	39.7	99.3	80.0-120	

L1340127-25 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1340127-25 04/23/21 18:05 • (MS) R3646699-4 04/23/21 18:41 • (MSD) R3646699-5 04/23/21 18:59

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50.0	186	226	226	81.1	80.8	1	80.0-120	E	E	0.0606	15
Fluoride	5.00	0.554	5.33	5.34	95.5	95.8	1	80.0-120			0.266	15
Sulfate	50.0	1090	1120	1110	54.7	47.1	1	80.0-120	E V	E V	0.343	15

L1340241-08 Original Sample (OS) • Matrix Spike (MS)

(OS) L1340241-08 04/24/21 00:57 • (MS) R3646699-8 04/24/21 01:33

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	0.827	52.2	103	1	80.0-120	
Fluoride	5.00	0.290	5.55	105	1	80.0-120	
Sulfate	50.0	U	50.8	102	1	80.0-120	

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QUALITY CONTROL SUMMARY

L1340127-03,11,15

Method Blank (MB)

(MB) R3645086-1 04/22/21 09:36

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury	U		0.000100	0.000200

Laboratory Control Sample (LCS)

(LCS) R3645086-2 04/22/21 09:38

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.00300	0.00315	105	80.0-120	

L1340101-17 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1340101-17 04/22/21 09:39 • (MS) R3645086-3 04/22/21 09:45 • (MSD) R3645086-4 04/22/21 09:47

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.00300	U	0.00220	0.00203	73.3	67.6	1	75.0-125	J6	J6	8.10	20

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QUALITY CONTROL SUMMARY

L1340127-03,11,15

Method Blank (MB)

(MB) R3645286-1 04/22/21 13:51

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury,Dissolved	U		0.000100	0.000200

Laboratory Control Sample (LCS)

(LCS) R3645286-2 04/22/21 13:53

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury,Dissolved	0.00300	0.00320	107	80.0-120	

L1340241-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1340241-03 04/22/21 13:55 • (MS) R3645286-3 04/22/21 13:57 • (MSD) R3645286-4 04/22/21 13:59

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury,Dissolved	0.00300	U	0.00315	0.00315	105	105	1	75.0-125			0.0349	20

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QUALITY CONTROL SUMMARY

L1340127-03,11,15

Method Blank (MB)

(MB) R3647123-1 04/27/21 09:36

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Boron	U		0.0200	0.200

Laboratory Control Sample (LCS)

(LCS) R3647123-2 04/27/21 09:39

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron	1.00	0.946	94.6	80.0-120	

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Method Blank (MB)

(MB) R3647589-1 04/28/21 08:55

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Boron,Dissolved	U		0.0200	0.200

Laboratory Control Sample (LCS)

(LCS) R3647589-2 04/28/21 08:58

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron,Dissolved	1.00	0.945	94.5	80.0-120	

L1340467-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1340467-02 04/28/21 09:01 • (MS) R3647589-4 04/28/21 09:06 • (MSD) R3647589-5 04/28/21 09:09

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Boron,Dissolved	1.00	1.15	2.08	2.09	92.5	94.2	1	75.0-125			0.824	20

L1340467-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1340467-05 04/28/21 09:11 • (MS) R3647589-6 04/28/21 09:14 • (MSD) R3647589-7 04/28/21 09:17

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Boron,Dissolved	1.00	5.98	6.86	6.77	88.4	79.2	1	75.0-125			1.34	20

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Method Blank (MB)

(MB) R3647041-1 04/27/21 10:19

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic,Dissolved	U		0.000180	0.00200
Barium,Dissolved	0.000626	J	0.000381	0.0200
Cadmium,Dissolved	U		0.000150	0.00100
Chromium,Dissolved	0.00154	J	0.00124	0.00200
Cobalt,Dissolved	U		0.0000596	0.00200
Iron,Dissolved	U		0.0281	0.100
Lead,Dissolved	0.00116	J	0.000849	0.00200
Manganese,Dissolved	U		0.000704	0.00500
Nickel,Dissolved	U		0.000816	0.00200
Selenium,Dissolved	U		0.000300	0.00200
Uranium,Dissolved	U		0.0000700	0.0200
Vanadium,Dissolved	U		0.000664	0.00500

Laboratory Control Sample (LCS)

(LCS) R3647041-2 04/27/21 10:22

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic,Dissolved	0.0500	0.0489	97.9	80.0-120	
Barium,Dissolved	0.0500	0.0486	97.2	80.0-120	
Cadmium,Dissolved	0.0500	0.0526	105	80.0-120	
Chromium,Dissolved	0.0500	0.0507	101	80.0-120	
Cobalt,Dissolved	0.0500	0.0517	103	80.0-120	
Iron,Dissolved	5.00	5.08	102	80.0-120	
Lead,Dissolved	0.0500	0.0497	99.3	80.0-120	
Manganese,Dissolved	0.0500	0.0505	101	80.0-120	
Nickel,Dissolved	0.0500	0.0511	102	80.0-120	
Selenium,Dissolved	0.0500	0.0512	102	80.0-120	
Uranium,Dissolved	0.0500	0.0504	101	80.0-120	
Vanadium,Dissolved	0.0500	0.0494	98.7	80.0-120	

L1340101-18 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1340101-18 04/27/21 10:26 • (MS) R3647041-4 04/27/21 10:32 • (MSD) R3647041-5 04/27/21 10:36

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic,Dissolved	0.0500	0.00634	0.0562	0.0558	99.8	98.8	1	75.0-125			0.885	20
Barium,Dissolved	0.0500	0.106	0.154	0.151	96.8	90.5	1	75.0-125			2.06	20
Cadmium,Dissolved	0.0500	U	0.0513	0.0525	103	105	1	75.0-125			2.24	20

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L1340101-18 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1340101-18 04/27/21 10:26 • (MS) R3647041-4 04/27/21 10:32 • (MSD) R3647041-5 04/27/21 10:36

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chromium,Dissolved	0.0500	0.00227	0.0544	0.0533	104	102	1	75.0-125			2.02	20
Cobalt,Dissolved	0.0500	0.000115	0.0522	0.0509	104	102	1	75.0-125			2.60	20
Iron,Dissolved	5.00	U	5.22	5.03	104	101	1	75.0-125			3.71	20
Lead,Dissolved	0.0500	0.00354	0.0532	0.0535	99.3	100	1	75.0-125			0.696	20
Manganese,Dissolved	0.0500	0.000746	0.0522	0.0497	103	97.9	1	75.0-125			4.94	20
Nickel,Dissolved	0.0500	0.00231	0.0551	0.0529	106	101	1	75.0-125			4.12	20
Selenium,Dissolved	0.0500	0.00462	0.0545	0.0541	99.9	99.0	1	75.0-125			0.831	20
Uranium,Dissolved	0.0500	0.00161	0.0525	0.0526	102	102	1	75.0-125			0.321	20
Vanadium,Dissolved	0.0500	0.0302	0.0827	0.0814	105	102	1	75.0-125			1.49	20

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Method Blank (MB)

(MB) R3647163-1 04/27/21 12:47

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic,Dissolved	U		0.000180	0.00200
Barium,Dissolved	0.000892	J	0.000381	0.0200
Chromium,Dissolved	0.00183	J	0.00124	0.00200
Iron,Dissolved	U		0.0281	0.100
Lead,Dissolved	U		0.000849	0.00200
Manganese,Dissolved	U		0.000704	0.00500
Selenium,Dissolved	U		0.000300	0.00200

Laboratory Control Sample (LCS)

(LCS) R3647163-2 04/27/21 12:50

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic,Dissolved	0.0500	0.0486	97.1	80.0-120	
Barium,Dissolved	0.0500	0.0497	99.5	80.0-120	
Chromium,Dissolved	0.0500	0.0525	105	80.0-120	
Iron,Dissolved	5.00	5.11	102	80.0-120	
Lead,Dissolved	0.0500	0.0486	97.2	80.0-120	
Manganese,Dissolved	0.0500	0.0485	97.1	80.0-120	
Selenium,Dissolved	0.0500	0.0504	101	80.0-120	

L1340241-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1340241-01 04/27/21 12:54 • (MS) R3647163-4 04/27/21 13:00 • (MSD) R3647163-5 04/27/21 13:04

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic,Dissolved	0.0500	U	0.0463	0.0445	92.7	89.0	1	75.0-125			4.04	20
Barium,Dissolved	0.0500	0.0200	0.0690	0.0650	98.0	89.9	1	75.0-125			6.09	20
Chromium,Dissolved	0.0500	U	0.0500	0.0488	100	97.7	1	75.0-125			2.29	20
Iron,Dissolved	5.00	U	4.81	4.75	96.2	95.0	1	75.0-125			1.18	20
Lead,Dissolved	0.0500	0.00130	0.0504	0.0491	98.1	95.7	1	75.0-125			2.47	20
Manganese,Dissolved	0.0500	0.620	0.655	0.652	69.6	63.4	1	75.0-125	V	V	0.476	20
Selenium,Dissolved	0.0500	U	0.0480	0.0489	95.9	97.7	1	75.0-125			1.86	20

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Method Blank (MB)

(MB) R3647827-1 04/28/21 14:44

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic	U		0.000180	0.00200
Barium	U		0.000381	0.0200
Cadmium	U		0.000150	0.00100
Calcium	U		0.0936	1.00
Chromium	U		0.00124	0.00200
Cobalt	U		0.0000596	0.00200
Iron	U		0.0281	0.100
Lead	U		0.000849	0.00200
Manganese	U		0.000704	0.00500
Nickel	U		0.000816	0.00200
Potassium	U		0.108	2.00
Sodium	U		0.376	2.00
Uranium	U		0.0000700	0.0200
Vanadium	U		0.000664	0.00500

Method Blank (MB)

(MB) R3647827-6 04/28/21 18:12

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Selenium	U		0.000300	0.00200

Laboratory Control Sample (LCS)

(LCS) R3647827-2 04/28/21 14:47

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	0.0500	0.0521	104	80.0-120	
Barium	0.0500	0.0523	105	80.0-120	
Cadmium	0.0500	0.0549	110	80.0-120	
Calcium	5.00	5.29	106	80.0-120	
Chromium	0.0500	0.0536	107	80.0-120	
Cobalt	0.0500	0.0536	107	80.0-120	
Iron	5.00	5.37	107	80.0-120	
Lead	0.0500	0.0523	105	80.0-120	
Manganese	0.0500	0.0528	106	80.0-120	
Nickel	0.0500	0.0554	111	80.0-120	
Potassium	5.00	5.18	104	80.0-120	
Sodium	5.00	5.26	105	80.0-120	

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Laboratory Control Sample (LCS)

(LCS) R3647827-2 04/28/21 14:47

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Uranium	0.0500	0.0501	100	80.0-120	
Vanadium	0.0500	0.0538	108	80.0-120	

Laboratory Control Sample (LCS)

(LCS) R3647827-7 04/28/21 18:15

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Selenium	0.0500	0.0558	112	80.0-120	

L1340127-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1340127-10 04/28/21 14:51 • (MS) R3647827-4 04/28/21 14:57 • (MSD) R3647827-5 04/28/21 15:01

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	0.0500	0.000322	0.0518	0.0511	103	102	1	75.0-125			1.36	20
Barium	0.0500	0.0265	0.0772	0.0786	101	104	1	75.0-125			1.78	20
Cadmium	0.0500	U	0.0523	0.0536	105	107	1	75.0-125			2.36	20
Calcium	5.00	214	215	222	6.25	143	1	75.0-125	V	V	3.14	20
Chromium	0.0500	U	0.0523	0.0521	105	104	1	75.0-125			0.295	20
Cobalt	0.0500	0.0000812	0.0500	0.0511	99.9	102	1	75.0-125			2.19	20
Potassium	5.00	1.50	6.52	6.69	100	104	1	75.0-125			2.60	20
Iron	5.00	0.0970	5.15	5.16	101	101	1	75.0-125			0.227	20
Lead	0.0500	U	0.0524	0.0518	105	104	1	75.0-125			1.19	20
Manganese	0.0500	0.00241	0.0511	0.0527	97.4	101	1	75.0-125			3.00	20
Nickel	0.0500	U	0.0498	0.0510	99.7	102	1	75.0-125			2.29	20
Sodium	5.00	99.8	105	108	99.4	159	1	75.0-125		V	2.79	20
Uranium	0.0500	0.00184	0.0528	0.0544	102	105	1	75.0-125			2.97	20
Vanadium	0.0500	0.00344	0.0531	0.0536	99.3	100	1	75.0-125			0.978	20

L1340127-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1340127-10 04/28/21 18:18 • (MS) R3647827-9 04/28/21 18:25 • (MSD) R3647827-10 04/28/21 18:28

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Selenium	0.0500	0.00200	0.0572	0.0616	110	119	1	75.0-125			7.45	20

QUALITY CONTROL SUMMARY

L1340127-22,23,24,25,26,27,28,32

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Method Blank (MB)

(MB) R3647335-1 04/27/21 20:06

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic	U		0.000180	0.00200
Barium	U		0.000381	0.0200
Calcium	U		0.0936	1.00
Chromium	U		0.00124	0.00200
Iron	U		0.0281	0.100
Lead	U		0.000849	0.00200
Manganese	U		0.000704	0.00500
Potassium	U		0.108	2.00
Selenium	U		0.000300	0.00200
Sodium	U		0.376	2.00

Laboratory Control Sample (LCS)

(LCS) R3647335-2 04/27/21 20:09

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	0.0500	0.0513	103	80.0-120	
Barium	0.0500	0.0520	104	80.0-120	
Calcium	5.00	5.34	107	80.0-120	
Chromium	0.0500	0.0514	103	80.0-120	
Iron	5.00	5.55	111	80.0-120	
Lead	0.0500	0.0514	103	80.0-120	
Manganese	0.0500	0.0504	101	80.0-120	
Potassium	5.00	5.07	101	80.0-120	
Selenium	0.0500	0.0510	102	80.0-120	
Sodium	5.00	5.04	101	80.0-120	

L1339012-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339012-01 04/27/21 20:13 • (MS) R3647335-4 04/27/21 20:20 • (MSD) R3647335-5 04/27/21 20:23

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	0.0500	U	0.0505	0.0503	101	101	1	75.0-125			0.309	20
Barium	0.0500	0.0133	0.0670	0.0668	107	107	1	75.0-125			0.243	20
Calcium	5.00	2.92	8.25	8.28	107	107	1	75.0-125			0.448	20
Chromium	0.0500	0.0168	0.0669	0.0667	100	99.7	1	75.0-125			0.263	20
Potassium	5.00	0.530	5.73	5.62	104	102	1	75.0-125			2.04	20
Iron	5.00	U	5.50	5.47	110	109	1	75.0-125			0.540	20
Lead	0.0500	0.00198	0.0545	0.0545	105	105	1	75.0-125			0.0103	20

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QUALITY CONTROL SUMMARY

L1340127-22,23,24,25,26,27,28,32

L1339012-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339012-01 04/27/21 20:13 • (MS) R3647335-4 04/27/21 20:20 • (MSD) R3647335-5 04/27/21 20:23

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Manganese	0.0500	0.000926	0.0511	0.0520	100	102	1	75.0-125			1.72	20
Selenium	0.0500	U	0.0489	0.0526	97.7	105	1	75.0-125			7.32	20
Sodium	5.00	7.03	12.2	11.9	103	96.9	1	75.0-125			2.61	20

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Method Blank (MB)

(MB) R3646156-2 04/24/21 06:42

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*100*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R3646156-1 04/24/21 05:49

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.15	93.6	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*110*	*78.0-120*	

L1340101-17 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1340101-17 04/24/21 07:25 • (MS) R3646156-3 04/24/21 14:20 • (MSD) R3646156-4 04/24/21 14:42

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	0.0501	0.742	0.836	12.6	14.3	1	10.0-160			11.9	22
(S) a,a,a-Trifluorotoluene(FID)					*102*	*102*		*78.0-120*				

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Method Blank (MB)

(MB) R3645682-2 04/23/21 09:48

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*99.0*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R3645682-1 04/23/21 08:14

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	4.69	85.3	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*105*	*78.0-120*	

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Method Blank (MB)

(MB) R3646735-2 04/26/21 00:14

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*101*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R3646735-1 04/25/21 23:07

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.61	102	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*107*	*78.0-120*	

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Method Blank (MB)

(MB) R3645683-2 04/19/21 01:33

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0113	0.0500
Benzene	U		0.0000941	0.00100
Bromodichloromethane	U		0.000136	0.00100
Bromoform	U		0.000129	0.00100
Bromomethane	U		0.000605	0.00500
n-Butylbenzene	U		0.000157	0.00100
sec-Butylbenzene	U		0.000125	0.00100
Carbon disulfide	U		0.0000962	0.00100
Carbon tetrachloride	U		0.000128	0.00100
Chlorobenzene	U		0.000116	0.00100
Chlorodibromomethane	U		0.000140	0.00100
Chloroethane	U		0.000192	0.00500
Chloroform	U		0.000111	0.00500
Chloromethane	U		0.000960	0.00250
1,2-Dibromoethane	U		0.000126	0.00100
1,1-Dichloroethane	U		0.000100	0.00100
1,2-Dichloroethane	U		0.0000819	0.00100
1,1-Dichloroethene	U		0.000188	0.00100
cis-1,2-Dichloroethene	U		0.000126	0.00100
trans-1,2-Dichloroethene	U		0.000149	0.00100
1,2-Dichloropropane	U		0.000149	0.00100
cis-1,3-Dichloropropene	U		0.000111	0.00100
trans-1,3-Dichloropropene	U		0.000118	0.00100
Ethylbenzene	U		0.000137	0.00100
2-Hexanone	U		0.000787	0.0100
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
Methylene Chloride	U		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100
Methyl tert-butyl ether	U		0.000101	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.0000993	0.00100
Styrene	U		0.000118	0.00100
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100
Tetrachloroethene	U		0.000300	0.00100
Toluene	U		0.000278	0.00100
1,1,1-Trichloroethane	U		0.000149	0.00100
1,1,2-Trichloroethane	U		0.000158	0.00100

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Method Blank (MB)

(MB) R3645683-2 04/19/21 01:33

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Trichloroethene	U		0.000190	0.00100
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
Vinyl chloride	U		0.000234	0.00100
Xylenes, Total	U		0.000174	0.00300
o-Xylene	U		0.000174	0.00100
m&p-Xylenes	U		0.000430	0.00200
(S) Toluene-d8	*101*			*80.0-120*
(S) 4-Bromofluorobenzene	*101*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3645683-1 04/19/21 00:55

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.0250	0.0309	124	19.0-160	
Benzene	0.00500	0.00527	105	70.0-123	
Bromodichloromethane	0.00500	0.00514	103	75.0-120	
Bromoform	0.00500	0.00477	95.4	68.0-132	
Bromomethane	0.00500	0.00518	104	10.0-160	
n-Butylbenzene	0.00500	0.00481	96.2	73.0-125	
sec-Butylbenzene	0.00500	0.00508	102	75.0-125	
Carbon disulfide	0.00500	0.00487	97.4	61.0-128	
Carbon tetrachloride	0.00500	0.00490	98.0	68.0-126	
Chlorobenzene	0.00500	0.00484	96.8	80.0-121	
Chlorodibromomethane	0.00500	0.00501	100	77.0-125	
Chloroethane	0.00500	0.00486	97.2	47.0-150	
Chloroform	0.00500	0.00551	110	73.0-120	
Chloromethane	0.00500	0.00496	99.2	41.0-142	
1,2-Dibromoethane	0.00500	0.00492	98.4	80.0-122	
1,1-Dichloroethane	0.00500	0.00542	108	70.0-126	
1,2-Dichloroethane	0.00500	0.00609	122	70.0-128	
1,1-Dichloroethene	0.00500	0.00486	97.2	71.0-124	
cis-1,2-Dichloroethene	0.00500	0.00526	105	73.0-120	
trans-1,2-Dichloroethene	0.00500	0.00519	104	73.0-120	
1,2-Dichloropropane	0.00500	0.00537	107	77.0-125	
cis-1,3-Dichloropropene	0.00500	0.00574	115	80.0-123	
trans-1,3-Dichloropropene	0.00500	0.00531	106	78.0-124	

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Laboratory Control Sample (LCS)

(LCS) R3645683-1 04/19/21 00:55

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ethylbenzene	0.00500	0.00481	96.2	79.0-123	
2-Hexanone	0.0250	0.0249	99.6	67.0-149	
Isopropylbenzene	0.00500	0.00471	94.2	76.0-127	
p-Isopropyltoluene	0.00500	0.00525	105	76.0-125	
2-Butanone (MEK)	0.0250	0.0293	117	44.0-160	
Methylene Chloride	0.00500	0.00499	99.8	67.0-120	
4-Methyl-2-pentanone (MIBK)	0.0250	0.0249	99.6	68.0-142	
Methyl tert-butyl ether	0.00500	0.00509	102	68.0-125	
Naphthalene	0.00500	0.00467	93.4	54.0-135	
n-Propylbenzene	0.00500	0.00503	101	77.0-124	
Styrene	0.00500	0.00486	97.2	73.0-130	
1,1,1,2-Tetrachloroethane	0.00500	0.00470	94.0	75.0-125	
1,1,2,2-Tetrachloroethane	0.00500	0.00457	91.4	65.0-130	
Tetrachloroethene	0.00500	0.00490	98.0	72.0-132	
Toluene	0.00500	0.00482	96.4	79.0-120	
1,1,1-Trichloroethane	0.00500	0.00511	102	73.0-124	
1,1,2-Trichloroethane	0.00500	0.00505	101	80.0-120	
Trichloroethene	0.00500	0.00566	113	78.0-124	
1,2,4-Trimethylbenzene	0.00500	0.00500	100	76.0-121	
1,3,5-Trimethylbenzene	0.00500	0.00522	104	76.0-122	
Vinyl chloride	0.00500	0.00505	101	67.0-131	
Xylenes, Total	0.0150	0.0143	95.3	79.0-123	
o-Xylene	0.00500	0.00487	97.4	80.0-122	
m&p-Xylenes	0.0100	0.00946	94.6	80.0-122	
(S) Toluene-d8			*99.6*	*80.0-120*	
(S) 4-Bromofluorobenzene			*100*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*107*	*70.0-130*	

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QUALITY CONTROL SUMMARY

L1340127-21,22,23,24,25,26,27,28

Method Blank (MB)

(MB) R3644076-3 04/19/21 20:50

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0113	0.0500
Benzene	U		0.0000941	0.00100
Bromodichloromethane	U		0.000136	0.00100
Bromoform	U		0.000129	0.00100
Bromomethane	U		0.000605	0.00500
n-Butylbenzene	U		0.000157	0.00100
sec-Butylbenzene	U		0.000125	0.00100
Carbon disulfide	U		0.0000962	0.00100
Carbon tetrachloride	U		0.000128	0.00100
Chlorobenzene	U		0.000116	0.00100
Chlorodibromomethane	U		0.000140	0.00100
Chloroethane	U		0.000192	0.00500
Chloroform	U		0.000111	0.00500
Chloromethane	U		0.000960	0.00250
1,2-Dibromoethane	U		0.000126	0.00100
1,1-Dichloroethane	U		0.000100	0.00100
1,2-Dichloroethane	U		0.0000819	0.00100
1,1-Dichloroethene	U		0.000188	0.00100
cis-1,2-Dichloroethene	U		0.000126	0.00100
trans-1,2-Dichloroethene	U		0.000149	0.00100
1,2-Dichloropropane	U		0.000149	0.00100
cis-1,3-Dichloropropene	U		0.000111	0.00100
trans-1,3-Dichloropropene	U		0.000118	0.00100
Ethylbenzene	U		0.000137	0.00100
2-Hexanone	U		0.000787	0.0100
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
Methylene Chloride	U		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100
Methyl tert-butyl ether	U		0.000101	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.0000993	0.00100
Styrene	U		0.000118	0.00100
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100
Tetrachloroethene	U		0.000300	0.00100
Toluene	U		0.000278	0.00100
1,1,1-Trichloroethane	U		0.000149	0.00100
1,1,2-Trichloroethane	U		0.000158	0.00100

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Method Blank (MB)

(MB) R3644076-3 04/19/21 20:50

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Trichloroethene	U		0.000190	0.00100
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
Vinyl chloride	U		0.000234	0.00100
Xylenes, Total	U		0.000174	0.00300
o-Xylene	U		0.000174	0.00100
m&p-Xylenes	U		0.000430	0.00200
(S) Toluene-d8	*102*			*80.0-120*
(S) 4-Bromofluorobenzene	*86.8*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*111*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3644076-1 04/19/21 19:48 • (LCSD) R3644076-2 04/19/21 20:08

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.0250	0.0135	0.0161	54.0	64.4	19.0-160			17.6	27
Benzene	0.00500	0.00516	0.00569	103	114	70.0-123			9.77	20
Bromodichloromethane	0.00500	0.00502	0.00512	100	102	75.0-120			1.97	20
Bromoform	0.00500	0.00320	0.00358	64.0	71.6	68.0-132	J4		11.2	20
Bromomethane	0.00500	0.00593	0.00540	119	108	10.0-160			9.36	25
n-Butylbenzene	0.00500	0.00469	0.00528	93.8	106	73.0-125			11.8	20
sec-Butylbenzene	0.00500	0.00505	0.00521	101	104	75.0-125			3.12	20
Carbon disulfide	0.00500	0.00511	0.00544	102	109	61.0-128			6.26	20
Carbon tetrachloride	0.00500	0.00462	0.00547	92.4	109	68.0-126			16.8	20
Chlorobenzene	0.00500	0.00418	0.00492	83.6	98.4	80.0-121			16.3	20
Chlorodibromomethane	0.00500	0.00389	0.00471	77.8	94.2	77.0-125			19.1	20
Chloroethane	0.00500	0.00887	0.00914	177	183	47.0-150	J4	J4	3.00	20
Chloroform	0.00500	0.00490	0.00520	98.0	104	73.0-120			5.94	20
Chloromethane	0.00500	0.00503	0.00557	101	111	41.0-142			10.2	20
1,2-Dibromoethane	0.00500	0.00467	0.00484	93.4	96.8	80.0-122			3.58	20
1,1-Dichloroethane	0.00500	0.00571	0.00621	114	124	70.0-126			8.39	20
1,2-Dichloroethane	0.00500	0.00522	0.00549	104	110	70.0-128			5.04	20
1,1-Dichloroethene	0.00500	0.00445	0.00527	89.0	105	71.0-124			16.9	20
cis-1,2-Dichloroethene	0.00500	0.00455	0.00481	91.0	96.2	73.0-120			5.56	20
trans-1,2-Dichloroethene	0.00500	0.00489	0.00463	97.8	92.6	73.0-120			5.46	20
1,2-Dichloropropane	0.00500	0.00573	0.00569	115	114	77.0-125			0.701	20
cis-1,3-Dichloropropene	0.00500	0.00472	0.00481	94.4	96.2	80.0-123			1.89	20
trans-1,3-Dichloropropene	0.00500	0.00484	0.00511	96.8	102	78.0-124			5.43	20

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Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3644076-1 04/19/21 19:48 • (LCSD) R3644076-2 04/19/21 20:08

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethylbenzene	0.00500	0.00443	0.00530	88.6	106	79.0-123			17.9	20
2-Hexanone	0.0250	0.0166	0.0179	66.4	71.6	67.0-149	J4		7.54	20
Isopropylbenzene	0.00500	0.00428	0.00506	85.6	101	76.0-127			16.7	20
p-Isopropyltoluene	0.00500	0.00433	0.00498	86.6	99.6	76.0-125			14.0	20
2-Butanone (MEK)	0.0250	0.0166	0.0180	66.4	72.0	44.0-160			8.09	20
Methylene Chloride	0.00500	0.00510	0.00559	102	112	67.0-120			9.17	20
4-Methyl-2-pentanone (MIBK)	0.0250	0.0200	0.0224	80.0	89.6	68.0-142			11.3	20
Methyl tert-butyl ether	0.00500	0.00496	0.00512	99.2	102	68.0-125			3.17	20
Naphthalene	0.00500	0.00405	0.00426	81.0	85.2	54.0-135			5.05	20
n-Propylbenzene	0.00500	0.00445	0.00483	89.0	96.6	77.0-124			8.19	20
Styrene	0.00500	0.00405	0.00455	81.0	91.0	73.0-130			11.6	20
1,1,1,2-Tetrachloroethane	0.00500	0.00369	0.00426	73.8	85.2	75.0-125	J4		14.3	20
1,1,2,2-Tetrachloroethane	0.00500	0.00446	0.00481	89.2	96.2	65.0-130			7.55	20
Tetrachloroethene	0.00500	0.00452	0.00517	90.4	103	72.0-132			13.4	20
Toluene	0.00500	0.00467	0.00522	93.4	104	79.0-120			11.1	20
1,1,1-Trichloroethane	0.00500	0.00489	0.00520	97.8	104	73.0-124			6.14	20
1,1,2-Trichloroethane	0.00500	0.00432	0.00486	86.4	97.2	80.0-120			11.8	20
Trichloroethene	0.00500	0.00488	0.00501	97.6	100	78.0-124			2.63	20
1,2,4-Trimethylbenzene	0.00500	0.00448	0.00509	89.6	102	76.0-121			12.7	20
1,3,5-Trimethylbenzene	0.00500	0.00421	0.00450	84.2	90.0	76.0-122			6.66	20
Vinyl chloride	0.00500	0.00590	0.00609	118	122	67.0-131			3.17	20
Xylenes, Total	0.0150	0.0127	0.0148	84.7	98.7	79.0-123			15.3	20
o-Xylene	0.00500	0.00430	0.00485	86.0	97.0	80.0-122			12.0	20
m&p-Xylenes	0.0100	0.00839	0.00999	83.9	99.9	80.0-122			17.4	20
(S) Toluene-d8				*95.3*	*99.7*	*80.0-120*				
(S) 4-Bromofluorobenzene				*83.4*	*89.8*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*108*	*108*	*70.0-130*				

L1339799-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339799-03 04/20/21 00:11 • (MS) R3644076-4 04/20/21 04:59 • (MSD) R3644076-5 04/20/21 05:20

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	0.0250	U	0.0980	0.0700	392	280	1	10.0-160	J5	J5	33.3	35
Benzene	0.00500	0.686	0.608	0.579	0.000	0.000	1	17.0-158	E V	E V	4.89	27
Bromodichloromethane	0.00500	U	0.00488	0.00470	97.6	94.0	1	31.0-150			3.76	27
Bromoform	0.00500	U	0.00478	0.00401	95.6	80.2	1	29.0-150			17.5	29
Bromomethane	0.00500	U	0.00178	0.00134	35.6	26.8	1	10.0-160			28.2	38
n-Butylbenzene	0.00500	U	0.0549	0.0570	1100	1140	1	31.0-150	J5	J5	3.75	30

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QUALITY CONTROL SUMMARY

L1340127-21,22,23,24,25,26,27,28

L1339799-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339799-03 04/20/21 00:11 • (MS) R3644076-4 04/20/21 04:59 • (MSD) R3644076-5 04/20/21 05:20

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
sec-Butylbenzene	0.00500	0.00145	0.00640	0.00611	99.0	93.2	1	33.0-155			4.64	29
Carbon disulfide	0.00500	0.000198	0.00460	0.00406	88.0	77.2	1	10.0-156			12.5	28
Carbon tetrachloride	0.00500	U	0.00491	0.00419	98.2	83.8	1	23.0-159			15.8	28
Chlorobenzene	0.00500	U	0.00565	0.00476	113	95.2	1	33.0-152			17.1	27
Chlorodibromomethane	0.00500	U	0.00575	0.00491	115	98.2	1	37.0-149			15.8	27
Chloroethane	0.00500	U	0.0310	0.00980	620	196	1	10.0-160	J5	J3 J5	104	30
Chloroform	0.00500	U	0.00734	0.00675	147	135	1	29.0-154			8.37	28
Chloromethane	0.00500	U	0.00635	0.00581	127	116	1	10.0-160			8.88	29
1,2-Dibromoethane	0.00500	U	0.00533	0.00447	107	89.4	1	34.0-147			17.6	27
1,1-Dichloroethane	0.00500	U	0.00538	0.00460	108	92.0	1	25.0-158			15.6	27
1,2-Dichloroethane	0.00500	U	0.00672	0.00557	134	111	1	29.0-151			18.7	27
1,1-Dichloroethene	0.00500	U	0.00425	0.00374	85.0	74.8	1	11.0-160			12.8	29
cis-1,2-Dichloroethene	0.00500	U	0.00521	0.00456	104	91.2	1	10.0-160			13.3	27
trans-1,2-Dichloroethene	0.00500	U	0.00435	0.00378	87.0	75.6	1	17.0-153			14.0	27
1,2-Dichloropropane	0.00500	U	0.00636	0.00519	127	104	1	30.0-156			20.3	27
cis-1,3-Dichloropropene	0.00500	U	0.00432	0.00374	86.4	74.8	1	34.0-149			14.4	28
trans-1,3-Dichloropropene	0.00500	U	0.00504	0.00454	101	90.8	1	32.0-149			10.4	28
Ethylbenzene	0.00500	0.00723	0.0111	0.0116	77.4	87.4	1	30.0-155			4.41	27
2-Hexanone	0.0250	U	0.0179	0.0136	71.6	54.4	1	21.0-160			27.3	29
Isopropylbenzene	0.00500	0.00364	0.00865	0.00800	100	87.2	1	28.0-157			7.81	27
p-Isopropyltoluene	0.00500	U	0.0145	0.0147	290	294	1	30.0-154	J5	J5	1.37	29
2-Butanone (MEK)	0.0250	U	0.0192	0.0143	76.8	57.2	1	10.0-160			29.3	32
Methylene Chloride	0.00500	U	0.00521	0.00434	104	86.8	1	23.0-144			18.2	28
4-Methyl-2-pentanone (MIBK)	0.0250	U	0.0201	0.0142	80.4	56.8	1	29.0-160		J3	34.4	29
Methyl tert-butyl ether	0.00500	0.796	0.718	0.657	0.000	0.000	1	28.0-150	E V	E V	8.87	29
Naphthalene	0.00500	0.209	0.151	0.116	0.000	0.000	1	12.0-156	V	V	26.2	35
n-Propylbenzene	0.00500	0.00112	0.00518	0.00524	81.2	82.4	1	31.0-154			1.15	28
Styrene	0.00500	U	0.0192	0.0183	384	366	1	33.0-155	J5	J5	4.80	28
1,1,1,2-Tetrachloroethane	0.00500	U	0.00523	0.00436	105	87.2	1	36.0-151			18.1	29
1,1,2,2-Tetrachloroethane	0.00500	U	0.000748	0.000498	15.0	9.96	1	33.0-150	J6	J3 J6	40.1	28
Tetrachloroethene	0.00500	U	0.00560	0.00464	112	92.8	1	10.0-160			18.7	27
Toluene	0.00500	0.298	0.282	0.281	0.000	0.000	1	26.0-154	E V	E V	0.355	28
1,1,1-Trichloroethane	0.00500	U	0.00508	0.00412	102	82.4	1	23.0-160			20.9	28
1,1,2-Trichloroethane	0.00500	U	0.00641	0.00545	128	109	1	35.0-147			16.2	27
Trichloroethene	0.00500	U	0.00805	0.00769	161	154	1	10.0-160	J5		4.57	25
1,2,4-Trimethylbenzene	0.00500	U	0.00407	0.00302	81.4	60.4	1	26.0-154		J3	29.6	27
1,3,5-Trimethylbenzene	0.00500	0.150	0.162	0.174	240	480	1	28.0-153	V	V	7.14	27
Vinyl chloride	0.00500	U	0.00481	0.00431	96.2	86.2	1	10.0-160			11.0	27
Xylenes, Total	0.0150	0.517	0.506	0.505	0.000	0.000	1	29.0-154	V	V	0.198	28
o-Xylene	0.00500	0.505	0.483	0.483	0.000	0.000	1	45.0-144	E V	E V	0.000	26

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L1339799-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1339799-03 04/20/21 00:11 • (MS) R3644076-4 04/20/21 04:59 • (MSD) R3644076-5 04/20/21 05:20

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
m&p-Xylenes	0.0100	0.0119	0.0229	0.0218	110	99.0	1	43.0-146			4.92	26
(S) Toluene-d8					*92.8*	*94.4*		*80.0-120*				
(S) 4-Bromofluorobenzene					*87.4*	*89.9*		*77.0-126*				
(S) 1,2-Dichloroethane-d4					*98.1*	*90.7*		*70.0-130*				

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QUALITY CONTROL SUMMARY

L1340127-29,30,31,32

Method Blank (MB)

(MB) R3644835-2 04/20/21 03:51

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0113	0.0500
Benzene	U		0.0000941	0.00100
Bromodichloromethane	U		0.000136	0.00100
Bromoform	U		0.000129	0.00100
Bromomethane	U		0.000605	0.00500
n-Butylbenzene	U		0.000157	0.00100
sec-Butylbenzene	U		0.000125	0.00100
Carbon disulfide	U		0.0000962	0.00100
Carbon tetrachloride	U		0.000128	0.00100
Chlorobenzene	U		0.000116	0.00100
Chlorodibromomethane	U		0.000140	0.00100
Chloroethane	U		0.000192	0.00500
Chloroform	U		0.000111	0.00500
Chloromethane	U		0.000960	0.00250
1,2-Dibromoethane	U		0.000126	0.00100
1,1-Dichloroethane	U		0.000100	0.00100
1,2-Dichloroethane	U		0.0000819	0.00100
1,1-Dichloroethene	U		0.000188	0.00100
cis-1,2-Dichloroethene	U		0.000126	0.00100
trans-1,2-Dichloroethene	U		0.000149	0.00100
1,2-Dichloropropane	U		0.000149	0.00100
cis-1,3-Dichloropropene	U		0.000111	0.00100
trans-1,3-Dichloropropene	U		0.000118	0.00100
Ethylbenzene	U		0.000137	0.00100
2-Hexanone	U		0.000787	0.0100
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
Methylene Chloride	U		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100
Methyl tert-butyl ether	U		0.000101	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.0000993	0.00100
Styrene	U		0.000118	0.00100
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100
Tetrachloroethene	U		0.000300	0.00100
Toluene	U		0.000278	0.00100
1,1,1-Trichloroethane	U		0.000149	0.00100
1,1,2-Trichloroethane	U		0.000158	0.00100

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Method Blank (MB)

(MB) R3644835-2 04/20/21 03:51

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Trichloroethene	U		0.000190	0.00100
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
Vinyl chloride	U		0.000234	0.00100
Xylenes, Total	U		0.000174	0.00300
o-Xylene	U		0.000174	0.00100
m&p-Xylenes	U		0.000430	0.00200
(S) Toluene-d8	*116*			*80.0-120*
(S) 4-Bromofluorobenzene	*94.5*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*93.9*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3644835-1 04/20/21 03:09

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.0250	0.0240	96.0	19.0-160	
Benzene	0.00500	0.00462	92.4	70.0-123	
Bromodichloromethane	0.00500	0.00466	93.2	75.0-120	
Bromoform	0.00500	0.00473	94.6	68.0-132	
Bromomethane	0.00500	0.00490	98.0	10.0-160	
n-Butylbenzene	0.00500	0.00452	90.4	73.0-125	
sec-Butylbenzene	0.00500	0.00499	99.8	75.0-125	
Carbon disulfide	0.00500	0.00465	93.0	61.0-128	
Carbon tetrachloride	0.00500	0.00461	92.2	68.0-126	
Chlorobenzene	0.00500	0.00533	107	80.0-121	
Chlorodibromomethane	0.00500	0.00481	96.2	77.0-125	
Chloroethane	0.00500	0.00437	87.4	47.0-150	
Chloroform	0.00500	0.00487	97.4	73.0-120	
Chloromethane	0.00500	0.00484	96.8	41.0-142	
1,2-Dibromoethane	0.00500	0.00531	106	80.0-122	
1,1-Dichloroethane	0.00500	0.00478	95.6	70.0-126	
1,2-Dichloroethane	0.00500	0.00463	92.6	70.0-128	
1,1-Dichloroethene	0.00500	0.00447	89.4	71.0-124	
cis-1,2-Dichloroethene	0.00500	0.00439	87.8	73.0-120	
trans-1,2-Dichloroethene	0.00500	0.00489	97.8	73.0-120	
1,2-Dichloropropane	0.00500	0.00496	99.2	77.0-125	
cis-1,3-Dichloropropene	0.00500	0.00457	91.4	80.0-123	
trans-1,3-Dichloropropene	0.00500	0.00470	94.0	78.0-124	

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Laboratory Control Sample (LCS)

(LCS) R3644835-1 04/20/21 03:09

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ethylbenzene	0.00500	0.00508	102	79.0-123	
2-Hexanone	0.0250	0.0255	102	67.0-149	
Isopropylbenzene	0.00500	0.00480	96.0	76.0-127	
p-Isopropyltoluene	0.00500	0.00495	99.0	76.0-125	
2-Butanone (MEK)	0.0250	0.0246	98.4	44.0-160	
Methylene Chloride	0.00500	0.00453	90.6	67.0-120	
4-Methyl-2-pentanone (MIBK)	0.0250	0.0258	103	68.0-142	
Methyl tert-butyl ether	0.00500	0.00465	93.0	68.0-125	
Naphthalene	0.00500	0.00566	113	54.0-135	
n-Propylbenzene	0.00500	0.00500	100	77.0-124	
Styrene	0.00500	0.00519	104	73.0-130	
1,1,1,2-Tetrachloroethane	0.00500	0.00469	93.8	75.0-125	
1,1,2,2-Tetrachloroethane	0.00500	0.00491	98.2	65.0-130	
Tetrachloroethene	0.00500	0.00566	113	72.0-132	
Toluene	0.00500	0.00497	99.4	79.0-120	
1,1,1-Trichloroethane	0.00500	0.00469	93.8	73.0-124	
1,1,2-Trichloroethane	0.00500	0.00509	102	80.0-120	
Trichloroethene	0.00500	0.00518	104	78.0-124	
1,2,4-Trimethylbenzene	0.00500	0.00489	97.8	76.0-121	
1,3,5-Trimethylbenzene	0.00500	0.00476	95.2	76.0-122	
Vinyl chloride	0.00500	0.00502	100	67.0-131	
Xylenes, Total	0.0150	0.0150	100	79.0-123	
o-Xylene	0.00500	0.00461	92.2	80.0-122	
m&p-Xylenes	0.0100	0.0104	104	80.0-122	
(S) Toluene-d8			*110*	*80.0-120*	
(S) 4-Bromofluorobenzene			*98.1*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*94.9*	*70.0-130*	

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Method Blank (MB)

(MB) R3644733-3 04/20/21 17:32

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Methyl tert-butyl ether	U		0.000101	0.00100
Naphthalene	U		0.00100	0.00500
1,3,5-Trimethylbenzene	U		0.000104	0.00100
Xylenes, Total	U		0.000174	0.00300
o-Xylene	U		0.000174	0.00100
m&p-Xylenes	U		0.000430	0.00200
(S) Toluene-d8	*119*			*80.0-120*
(S) 4-Bromofluorobenzene	*93.9*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*93.8*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3644733-1 04/20/21 16:12 • (LCSD) R3644733-2 04/20/21 16:32

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Methyl tert-butyl ether	0.00500	0.00440	0.00423	88.0	84.6	68.0-125			3.94	20
Naphthalene	0.00500	0.00472	0.00472	94.4	94.4	54.0-135			0.000	20
1,3,5-Trimethylbenzene	0.00500	0.00497	0.00470	99.4	94.0	76.0-122			5.58	20
Xylenes, Total	0.0150	0.0147	0.0140	98.0	93.3	79.0-123			4.88	20
o-Xylene	0.00500	0.00493	0.00461	98.6	92.2	80.0-122			6.71	20
m&p-Xylenes	0.0100	0.00974	0.00940	97.4	94.0	80.0-122			3.55	20
(S) Toluene-d8				*113*	*114*	*80.0-120*				
(S) 4-Bromofluorobenzene				*94.4*	*94.8*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*93.9*	*92.3*	*70.0-130*				

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Method Blank (MB)

(MB) R3646112-2 04/23/21 09:28

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0113	0.0500
Benzene	U		0.0000941	0.00100
Bromodichloromethane	U		0.000136	0.00100
Bromoform	U		0.000129	0.00100
Bromomethane	U		0.000605	0.00500
n-Butylbenzene	U		0.000157	0.00100
sec-Butylbenzene	U		0.000125	0.00100
Carbon disulfide	U		0.0000962	0.00100
Carbon tetrachloride	U		0.000128	0.00100
Chlorobenzene	U		0.000116	0.00100
Chlorodibromomethane	U		0.000140	0.00100
Chloroethane	U		0.000192	0.00500
Chloroform	U		0.000111	0.00500
Chloromethane	U		0.000960	0.00250
1,2-Dibromoethane	U		0.000126	0.00100
1,1-Dichloroethane	U		0.000100	0.00100
1,2-Dichloroethane	U		0.0000819	0.00100
1,1-Dichloroethene	U		0.000188	0.00100
cis-1,2-Dichloroethene	U		0.000126	0.00100
trans-1,2-Dichloroethene	U		0.000149	0.00100
1,2-Dichloropropane	U		0.000149	0.00100
cis-1,3-Dichloropropene	U		0.000111	0.00100
trans-1,3-Dichloropropene	U		0.000118	0.00100
Ethylbenzene	U		0.000137	0.00100
2-Hexanone	U		0.000787	0.0100
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
Methylene Chloride	U		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100
Methyl tert-butyl ether	U		0.000101	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.0000993	0.00100
Styrene	U		0.000118	0.00100
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100
Tetrachloroethene	U		0.000300	0.00100
Toluene	U		0.000278	0.00100
1,1,1-Trichloroethane	U		0.000149	0.00100
1,1,2-Trichloroethane	U		0.000158	0.00100

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Method Blank (MB)

(MB) R3646112-2 04/23/21 09:28

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Trichloroethene	U		0.000190	0.00100
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
Vinyl chloride	U		0.000234	0.00100
Xylenes, Total	U		0.000174	0.00300
o-Xylene	U		0.000174	0.00100
m&p-Xylenes	U		0.000430	0.00200
(S) Toluene-d8	*99.0*			*80.0-120*
(S) 4-Bromofluorobenzene	*106*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3646112-1 04/23/21 08:49

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.0250	0.0327	131	19.0-160	
Benzene	0.00500	0.00520	104	70.0-123	
Bromodichloromethane	0.00500	0.00564	113	75.0-120	
Bromoform	0.00500	0.00513	103	68.0-132	
Bromomethane	0.00500	0.00535	107	10.0-160	
n-Butylbenzene	0.00500	0.00437	87.4	73.0-125	
sec-Butylbenzene	0.00500	0.00459	91.8	75.0-125	
Carbon disulfide	0.00500	0.00480	96.0	61.0-128	
Carbon tetrachloride	0.00500	0.00589	118	68.0-126	
Chlorobenzene	0.00500	0.00504	101	80.0-121	
Chlorodibromomethane	0.00500	0.00517	103	77.0-125	
Chloroethane	0.00500	0.00543	109	47.0-150	
Chloroform	0.00500	0.00572	114	73.0-120	
Chloromethane	0.00500	0.00490	98.0	41.0-142	
1,2-Dibromoethane	0.00500	0.00530	106	80.0-122	
1,1-Dichloroethane	0.00500	0.00571	114	70.0-126	
1,2-Dichloroethane	0.00500	0.00610	122	70.0-128	
1,1-Dichloroethene	0.00500	0.00585	117	71.0-124	
cis-1,2-Dichloroethene	0.00500	0.00523	105	73.0-120	
trans-1,2-Dichloroethene	0.00500	0.00520	104	73.0-120	
1,2-Dichloropropane	0.00500	0.00540	108	77.0-125	
cis-1,3-Dichloropropene	0.00500	0.00523	105	80.0-123	
trans-1,3-Dichloropropene	0.00500	0.00502	100	78.0-124	

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Laboratory Control Sample (LCS)

(LCS) R3646112-1 04/23/21 08:49

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ethylbenzene	0.00500	0.00492	98.4	79.0-123	
2-Hexanone	0.0250	0.0275	110	67.0-149	
Isopropylbenzene	0.00500	0.00509	102	76.0-127	
p-Isopropyltoluene	0.00500	0.00463	92.6	76.0-125	
2-Butanone (MEK)	0.0250	0.0297	119	44.0-160	
Methylene Chloride	0.00500	0.00590	118	67.0-120	
4-Methyl-2-pentanone (MIBK)	0.0250	0.0284	114	68.0-142	
Methyl tert-butyl ether	0.00500	0.00566	113	68.0-125	
Naphthalene	0.00500	0.00512	102	54.0-135	
n-Propylbenzene	0.00500	0.00479	95.8	77.0-124	
Styrene	0.00500	0.00499	99.8	73.0-130	
1,1,1,2-Tetrachloroethane	0.00500	0.00535	107	75.0-125	
1,1,2,2-Tetrachloroethane	0.00500	0.00538	108	65.0-130	
Tetrachloroethene	0.00500	0.00488	97.6	72.0-132	
Toluene	0.00500	0.00484	96.8	79.0-120	
1,1,1-Trichloroethane	0.00500	0.00583	117	73.0-124	
1,1,2-Trichloroethane	0.00500	0.00522	104	80.0-120	
Trichloroethene	0.00500	0.00547	109	78.0-124	
1,2,4-Trimethylbenzene	0.00500	0.00469	93.8	76.0-121	
1,3,5-Trimethylbenzene	0.00500	0.00485	97.0	76.0-122	
Vinyl chloride	0.00500	0.00558	112	67.0-131	
Xylenes, Total	0.0150	0.0149	99.3	79.0-123	
o-Xylene	0.00500	0.00509	102	80.0-122	
m&p-Xylenes	0.0100	0.00985	98.5	80.0-122	
(S) Toluene-d8			*95.3*	*80.0-120*	
(S) 4-Bromofluorobenzene			*107*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*117*	*70.0-130*	

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Method Blank (MB)

(MB) R3646673-1 04/23/21 10:17

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) High Fraction	U		0.0247	0.100
(S) o-Terphenyl	*91.0*			*31.0-160*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3646673-2 04/23/21 10:34 • (LCSD) R3646673-3 04/23/21 10:51

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) High Fraction	1.50	1.24	1.14	82.7	76.0	50.0-150			8.40	20
(S) o-Terphenyl				*97.5*	*85.5*	*31.0-160*				

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Method Blank (MB)

(MB) R3646876-1 04/23/21 10:19

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) High Fraction	U		0.0247	0.100
(S) o-Terphenyl	*96.0*			*31.0-160*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3646876-2 04/23/21 10:39 • (LCSD) R3646876-3 04/23/21 11:00

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) High Fraction	1.50	1.66	1.67	111	111	50.0-150			0.601	20
(S) o-Terphenyl				*127*	*129*	*31.0-160*				

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Method Blank (MB)

(MB) R3646904-1 04/27/21 02:43

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) High Fraction	U		0.0247	0.100
(S) o-Terphenyl	*91.5*			*31.0-160*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3646904-2 04/27/21 03:03 • (LCSD) R3646904-3 04/27/21 03:23

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) High Fraction	1.50	1.51	1.56	101	104	50.0-150			3.26	20
(S) o-Terphenyl				*120*	*133*	*31.0-160*				

L1340101-17 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1340101-17 04/27/21 21:40 • (MS) R3646904-6 04/27/21 22:00 • (MSD) R3646904-7 04/27/21 22:20

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) High Fraction	1.50	0.161	1.79	1.83	109	111	1	50.0-150			2.21	20
(S) o-Terphenyl					*114*	*114*		*31.0-160*				

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Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

B	The same analyte is found in the associated blank.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
V	The sample concentration is too high to evaluate accurate spike recoveries.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

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Shipment #3

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Pres Chk

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com; dhelbert@trccompanies.com**

Project Description: **REST Spring 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **330538.0000.0000**

Lab Project # **TRCATX-REST**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **REST (Navajo - Artesia)**

P.O. #

Collected by (signature):

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Immediately Packed on ice N___ Y ✓

Analysis / Container / Preservative

Chain of Custody Page 1 of 14

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Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 1340127

J076

Acctnum: TRCATX
Template: T121997
Prelogin: P835518
TSR: 526
PB:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions,NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Remarks	Sample # (lab only)
RW-#15C LNAPL	Grab	GW				8	X	X		X	X	X						
MW-48 Well destroyed	Grab	GW				10	X	X	X	X	X	X						
MW-130	Grab	GW		4/14/21	1520	10	X	X	X	X	X	X						-01
KWB-4 LNAPL	Grab	GW				8	X	X		X	X	X						
RW-19 LNAPL	Grab	GW				8	X	X		X	X	X						
KWB-P4	Grab	GW		4/14/21	1430	4	X	X										-02
MW-52	Grab	GW		4/14/21	1530	11	X	X	X		X	X	X	X				-03
MW-109	Grab	GW		4/14/21	1520	10	X	X	X	X	X	X						-04
MW-110	Grab	GW		4/14/21	1425	10	X	X	X	X	X	X						-05
RW-12R LNAPL	Grab	GW		~~4/15/21~~		8	X	X		X	X	X						

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:
Dissolved metals field-filtered.

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__UPS ✓FedEx __Courier _____

Tracking # atte.

Sample Receipt Checklist
COC Seal Present/Intact: NP ✓ N
COC Signed/Accurate: ✓ N
Bottles arrive intact: ✓ N
Correct bottles used: ✓ N
Sufficient volume sent: ✓ N
If Applicable
VOA Zero Headspace: ✓ N
Preservation Correct/Checked: ✓ N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/15/21	1200	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: Yes / No
KH HCL / MeoH
TBR

Temp 4.3 °C Bottles Received: 269+418
0.1+3.2=4

If preservation required by Login: Date/Time

Date: 4/16/21 Time: 0930

Hold:

Condition: NCF / OK

Released to Imaging: 2/7/2025 11:08:22 AM
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Shipment #3

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com; dhalbert@trccompanies.com**

Project Description: **REST Spring 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **330538.0000.0000**

Lab Project # **TRCATX-REST**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **REST (Navajo - Artesia)**

P.O. #

Collected by (signature):

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Immediately Packed on ice N___ Y✓

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page 2 of 14

Pace Analytical®
National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 134027

Table #

Acctnum: TRCATX

Template: T121997

Prelogin: P835518

TSR: 526

PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions,NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Remarks	Sample # (lab only)
MW-113	Grab	GW		4/14/21	1225	10	X	X	X	X	X	X						-06
KWB-8 LNAPL	Grab	GW				9	X	X			X	X	X	X				
RW-22 LNAPL	Grab	GW				8	X	X		X	X	X						
RW-20A DRY	Grab	GW				8	X	X		X	X	X						
RW-20B DRY	Grab	GW				8	X	X		X	X	X						
RW-13R LNAPL	Grab	GW				8	X	X		X	X	X						
RW-14R LNAPL	Grab	GW				8	X	X		X	X	X						
MW-133 LNAPL	Grab	GW				10	X	X	X	X	X	X						
MW-134	Grab	GW		4/14/21	1120	10	X	X	X	X	X	X						-07
RA-4798	Grab	GW		4/14/21	1305	5	X				X	X						-08

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:
Dissolved metals field-filtered.

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS ✓FedEx __ Courier _____

Tracking #

Sample Receipt Checklist

COC Seal Present/Intact:	NP	✓ N
COC Signed/Accurate:		✓ N
Bottles arrive intact:		✓ N
Correct bottles used:		✓ N
Sufficient volume sent:		✓ N
If Applicable		
VOA Zero Headspace:		✓ N
Preservation Correct/Checked:		✓ N

Relinquished by: (Signature) Scott Ude	Date: 4/15/21	Time: 1200	Received by: (Signature)	Trip Blank Received: Yes / No HCl / MeoH TSR x4
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4.3 °C Bottles Received: 26+4TB If preservation required by Login: Date/Time
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4/16/21 Time: 0930 Hold: Condition: NCF / OK

Released to Imaging: 2/7/2025 11:08:22 AM
Received by OCD: 1/9/2025 2:41:44 PM

Shipment #3

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Pres Chk

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com; dhelbert@trccompanies.com**

Project Description: **REST Spring 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **330538.0000.0000**

Lab Project # **TRCATX-REST**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **REST (Navajo - Artesia)**

P.O. #

Collected by (signature):

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Immediately Packed on ice N ___ Y ✓

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions,NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Remarks	Sample # (lab only)
RA-4196 Not sampled; electrical problem per Samp. Form	Grab	GW		4/14/21	Not Sampled	5	X				X	X						
RA-3156	Grab	GW		4/14/21	830	5	X				X	X						-09
RA-313	Grab	GW		4/14/21	1335	5	X				X	X						-10
KWB-7	Grab	GW		4/14/21	1220	9	X	X			X	X	X	X				-11
~~MW-135~~	Grab	GW		~~4/13/21~~	~~1635~~	~~10~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~						
~~KWB-11A~~ LNAPL	Grab	GW				~~11~~	~~X~~	~~X~~	~~X~~		~~X~~	~~X~~	~~X~~	~~X~~				
~~KWB-11B~~	Grab	GW		~~4/13/21~~	~~1010~~	~~11~~	~~X~~	~~X~~	~~X~~		~~X~~	~~X~~	~~X~~	~~X~~				
MW-115	Grab	GW		4/14/21	1610	10	X	X	X	X	X	X						-12
MW-114	Grab	GW		4/14/21	1515	10	X	X	X	X	X	X						-13

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:
Dissolved metals field-filtered.

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Chain of Custody Page 3 of 14

Pace Analytical*
National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 340127

Table #

Acctnum: TRCATX

Template: T121997

Prelogin: P835518

TSR: 526

PB:

Shipped Via:

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y N
COC Signed/Accurate:		Y N
Bottles arrive intact:		Y N
Correct bottles used:		Y N
Sufficient volume sent:		Y N
If Applicable		
VOA Zero Headspace:		Y N
Preservation Correct/Checked:		Y N

4/16

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/15/21	1200	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: Yes / No HCL / MeoH TBR x4

Temp: 4.8 °C Bottles Received: 01-03a4 26g+4TB

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Date: 4/16/21 Time: 0930

Page 934 of 1716

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Shipment #3

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Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com;** dhelbert@trccompanies.com

Project Description: **REST Spring 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **330538.0000.0000**

Lab Project # **TRCATX-REST**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **REST (Navajo - Artesia)**

P.O. #

Collected by (signature):

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Immediately Packed on Ice N___ Y✓

Chain of Custody Page 1 of 14

Pace Analytical® National Center for Testing & Innovation

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Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

Lab # 340127

Table #

Acctnum: TRCATX

Template: T121997

Prelogin: P835518

TSR: 526

PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions,NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Remarks	Sample # (lab only)
MW-117	Grab	GW		4/13/21	1405	10	X	X	X	X	X	X						
MW-118	Grab	GW		4/13/21	1320	10	X	X	X	X	X	X						
MW-119	Grab	GW		4/13/21	1230	10	X	X	X	X	X	X						
NP-5	Grab	GW		4/13/21	1005	8	X	X		X	X	X						
MW-136	Grab	GW		4/13/21	1100	11	X	X	X		X	X	X	X				
MW-126A LNAPL	Grab	GW				10	X	X	X	X	X	X						
MW-126B	Grab	GW		4/13/21	905	10	X	X	X	X	X	X						
MW-127 LNAPL	Grab	GW				10	X	X	X	X	X	X						
MW-129 LNAPL	Grab	GW				10	X	X	X	X	X	X						
RW-#18A DRY	Grab	GW				6	X			X	X	X						

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:
Dissolved metals field-filtered.

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS ✓FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist

COC Seal Present/Intact:	NP	✓ N
COC Signed/Accurate:		✓ N
Bottles arrive intact:		✓ N
Correct bottles used:		✓ N
Sufficient volume sent:		✓ N
If Applicable		
VOA Zero Headspace:		✓ N
Preservation Correct/Checked:		✓ N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No / MeOH / TBR	If preservation required by Login: Date/Time
Scott Ude	4/15/21	1200		✓4	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 0.3 °C Bottles Received: 0,1,1+3=4	26+4+3
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4/16/21 Time: 0930	Hold: Condition: NCF / OK

Page 935 of 1716

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Shipment #3

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505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com; dhelbert@trccompanies.com**

Project Description: **REST Spring 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **330538.0000.0000**

Lab Project # **TRCATX-REST**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **REST (Navajo - Artesia)**

P.O. #

Collected by (signature):

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Immediately Packed on Ice N ___ Y ✓

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page 5 of 14

Pace Analytical®
National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

Lab # 1340127

Table #

Acctnum: TRCATX

Template: T121997

Prelogin: P835518

TSR: 526

PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions,NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Remarks	Sample # (lab only)
KWB-1A LNAPL	Grab	GW				9	X	X			X	X	X	X				
KWB-1C	Grab	GW		4/13/21	1415	8	X	X		X	X	X						
KWB-10R LNAPL	Grab	GW				8	X	X		X	X	X						
MW-131 LNAPL	Grab	GW				10	X	X	X	X	X	X						
KWB-5 LNAPL	Grab	GW				8	X	X		X	X	X						
MW-111 LNAPL	Grab	GW				10	X	X	X	X	X	X						
KWB-6 LNAPL	Grab	GW				11	X	X		X	X	X				X		
MW-112 LNAPL	Grab	GW				10	X	X	X	X	X	X						
MW-132 LNAPL	Grab	GW				10	X	X	X	X	X	X						
MW-57	Grab	GW		4/13/21	1115	10	X	X	X	X	X	X						

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:
Dissolved metals field-filtered.

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
___ UPS ✓ FedEx ___ Courier ___

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: ___NP ✓Y ___N
COC Signed/Accurate: ✓Y ___N
Bottles arrive intact: ✓Y ___N
Correct bottles used: ✓Y ___N
Sufficient volume sent: ✓Y ___N
If Applicable
VOA Zero Headspace: ✓Y ___N
Preservation Correct/Checked: ✓Y ___N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/15/21	1200	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: Yes / No
HCl / MeoH
TBR

Temp: 1.3+3=4.3°C Bottles Received: 2,1+3=4 269+4TB

Date: 4/16/21 Time: 0930

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Page 936 of 1716

Released to Imaging: 2/7/2025 11:08:22 AM

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Shipment #3

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Pres Chk

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com; dhelbert@trccompanies.com**

Project Description: **REST Spring 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **330538.0000.0000**

Lab Project # **TRCATX-REST**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **REST (Navajo - Artesia)**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page 6 of 14

Pace Analytical®
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Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 1390127

Table #

Acctnum: TRCATX

Template: T121997

Prelogin: P835518

TSR: 526

PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions,NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Remarks	Sample # (lab only)
RW-#11-0 DRY	Grab	GW				8	X	X		X	X	X						
KWB-12A DRY	Grab	GW				11	X	X	X		X	X	X	X				
KWB-12B	Grab	GW		4/13/21	1005	11	X	X	X		X	X	X	X				
KWB-2R LNAPL	Grab	GW				8	X	X		X	X	X						
MW-58 LNAPL	Grab	GW				9	X	X			X	X	X	X				
KWB-13	Grab	GW		4/13/21	1210	9	X	X			X	X	X	X				
MW-103	Grab	GW		4/13/21	1410	10	X	X	X	X	X	X						
MW-104	Grab	GW		4/13/21	1300	10	X	X	X	X	X	X						
MW-64	Grab	GW		4/13/21	1500	10	X	X	X	X	X	X						
MW-65 LNAPL	Grab	GW				10	X	X	X	X	X	X						

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:
Dissolved metals field-filtered.

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y N
COC Signed/Accurate:		Y N
Bottles arrive intact:		Y N
Correct bottles used:		Y N
Sufficient volume sent:		Y N
If Applicable		
VOA Zero Headspace:		Y N
Preservation Correct/Checked:		Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/15/21	1200	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: Yes / No
HCL / MeoH
TBR
x4

Temp: 0.1+0.3=0.4 °C Bottles Received: 269+478

Date: 4/14/21 Time: 0930

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Page 937 of 1716

Released to Imaging: 2/7/2025 11:08:22 AM
Received by OCD: 1/9/2025 2:41:44 PM

Shipment #3

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505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Pres Chk:

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com; dholbert@trccompanies.com**

Project Description: **REST Spring 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **330538.0000.0000**

Lab Project # **TRCATX-REST**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **REST (Navajo - Artesia)**

P.O. #

Collected by (signature):

Immediately Packed on ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page 7 of 14

Pace Analytical®
National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L # 1346127

Table #

Acctnum: TRCATX

Template: T121997

Prelogin: P835518

TSR: 526

PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions,NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Remarks	Sample # (lab only)
RW-5R LNAPL	Grab	GW				8	X	X		X	X	X						
MW-102	Grab	GW		4/14/21	1630	10	X	X	X	X	X	X						-14
RW-4 LNAPL	Grab	GW				8	X	X		X	X	X						
RW-6 LNAPL	Grab	GW				8	X	X		X	X	X						
MW-99 LNAPL	Grab	GW				10	X	X	X	X	X	X						
MW-66	Grab	GW		4/14/21	1535	11	X	X	X		X	X	X	X				-15
MW-28 LNAPL	Grab	GW				11	X	X	X		X	X	X	X				
MW-59 LNAPL	Grab	GW				10	X	X	X	X	X	X						
MW-60 LNAPL	Grab	GW				11	X	X	X		X	X	X	X				
MW-107 LNAPL	Grab	GW				10	X	X	X	X	X	X						

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:
Dissolved metals field-filtered.

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP ✓ N
COC Signed/Accurate: ✓ N
Bottles arrive intact: ✓ N
Correct bottles used: ✓ N
Sufficient volume sent: ✓ N
If Applicable
VOA Zero Headspace: ✓ N
Preservation Correct/Checked: ✓ N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes (HCl / MeoH / TSR) No	If preservation required by Login: Date/Time
Scott Ude	4/15/21	1200		✓4	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: #3°C Bottles Received: 0.1+3=0.4 24g+4TB	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4/16/21 Time: 0930	Hold: Condition: NCF / OK

Released to Imaging: 2/7/2025 11:08:22 AM

Received by OCD: 1/9/2025 2:41:44 PM

Shipment #3

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com; dhelbert@trccompanies.com**

Project Description: **REST Spring 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170** Fax:

Client Project # **330538.0000.0000**

Lab Project # **TRCATX-REST**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **REST (Navajo - Artesia)**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page 8 of 14

Pace Analytical® National Center for Testing & Innovation
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 630127
Table #
Acctnum: TRCATX
Template: T121997
Prelogin: P835518
TSR: 526
PB:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions,NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Remarks	Sample # (lab only)
MW-128 LNAPL	Grab	GW				10	X	X	X	X	X	X						
MW-125	Grab	GW		4/14/21	1425	10	X	X	X	X	X	X						-16
MW-116	Grab	GW		4/14/21	1525	10	X	X	X	X	X	X						-17
UG-3R	Grab	GW				11	X	X	X		X	X	X	X				
UG-4	Grab	GW				11	X	X	X		X	X	X	X				
UG-1	Grab	GW				11	X	X	X		X	X	X	X				
UG-2	Grab	GW				11	X	X	X		X	X	X	X				
MW-101	Grab	GW		4/14/21	1320	10	X	X	X	X	X	X						-18
MW-105	Grab	GW		4/14/21	825	10	X	X	X	X	X	X						-19
RW-2 LNAPL	Grab	GW				12	X	X	X	X	X	X			X			

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks:
Dissolved metals field-filtered.

pH ___ Temp ___
Flow ___ Other ___

Samples returned via:
__ UPS __ FedEx __ Courier ___

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/15/21	1200	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: Yes / No
HCL / MeOH
TBR

Temp: 4.3 °C Bottles Received: 269+4TB
0/+,3=94

Date: 4/16/21 Time: 0930

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Released to Imaging: 2/7/2025 11:08:22 AM
Received by OCD: 1/9/2025 2:41:44 PM

Shipment #3

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
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21 Griffin Road North
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apinvoiceapproval@trcsolutions.com

Pres Chk

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com;** dbelbeet@trccompanies.com

Project Description: **REST Spring 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170** Fax:

Client Project # **330538.0000.0000**

Lab Project # **TRCATX-REST**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **REST (Navajo - Artesia)**

P.O. #

Collected by (signature):

Rush? (Lab MUST Be Notified) ___ Same Day ___ Five Day ___ Next Day ___ 5 Day (Rad Only) ___ Two Day ___ 10 Day (Rad Only) ___ Three Day

Quote #

Date Results Needed

Immediately Packed on Ice N ___ Y ✓

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions,NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Remarks	Sample # (lab only)
MW-61	Grab	GW		4/14/21	1235	10	X	X	X	X	X	X						-20
MW-62 LNAPL	Grab	GW				10	X	X	X	X	X	X						
MW-93 covered by gravel; not located	Grab	GW				10	X	X	X	X	X	X						
MW-43 LNAPL	Grab	GW				11	X	X	X		X	X	X	X				
MW-137 LNAPL	Grab	GW				13	X	X	X		X	X	X	X	X			
MW-138 LNAPL	Grab	GW				13	X	X	X		X	X	X	X	X			
MW-23 LNAPL	Grab	GW				10	X	X	X	X	X	X						
MW-39 LNAPL	Grab	GW				10	X	X	X	X	X	X						
MW-98	Grab	GW		4/13/21	1255	10	X	X	X	X	X	X						
RW-10	Grab	GW		4/13/21	1105	10	X	X	X	X	X	X						

Immediately Packed on Ice N ___ Y ✓

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:
Dissolved metals field-filtered.

pH _____ Temp _____

Flow _____ Other _____

Samples returned via: __ UPS ✓ FedEx __ Courier _____

Tracking #

Trip Blank Received: Yes / No (HCl / MeoH) TBR

Temp: 1.3 °C Bottles Received: 6, 17, 3, 2, 4 269+4TB

If preservation required by Login: Date/Time

Hold:

Conditions: NCF / ⊘

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/15/21	1200	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			4/16/21 0930

Sample Receipt Checklist
COC Seal Present/Intact: __NP ✓Y __N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: ✓Y __N
Correct bottles used: ✓Y __N
Sufficient volume sent: ✓Y __N
If Applicable
VOA Zero Headspace: ✓Y __N
Preservation Correct/Checked: __Y __N

Chain of Custody Page 9 of 14

Pace Analytical
National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 134027

Table #

Acctnum: TRCATX

Template: T121997

Prelogin: P835518

TSR: 526

PB:

Shipped Via:

Page 940 of 1716

Released to Imaging: 2/7/2025 11:08:22 AM
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Shipment # 3

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
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apinvoiceapproval@trcsolutions.com

Pres Chk

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com; dhelbert@trccompanies.com**

Project Description: **REST Spring 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170** Fax:

Client Project # **330538.0000.0000**

Lab Project # **TRCATX-REST**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **REST (Navajo - Artesia)**

P.O. #

Collected by (signature):

Rush? (Lab MUST Be Notified) ___ Same Day ___ Five Day ___ Next Day ___ 5 Day (Rad Only) ___ Two Day ___ 10 Day (Rad Only) ___ Three Day

Quote #

Date Results Needed

Immediately Packed on Ice N ___ Y ✓

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions,NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Remarks	Sample # (lab only)
~~MW-40~~ LNAPL	~~Grab~~	~~GW~~				~~10~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~						
MW-41	Grab	GW		4/14/21	1000	10	X	X	X	X	X	X						-21
RW-9	Grab	GW		4/14/21	1100	10	X	X	X	X	X	X						-22
MW-42	Grab	GW		4/14/21	1325	10	X	X	X	X	X	X						-23
MW-29	Grab	GW		4/14/21	1225	10	X	X	X	X	X	X						-24
~~RW-#16B~~ DRY	~~Grab~~	~~GW~~				~~8~~	~~X~~	~~X~~		~~X~~	~~X~~	~~X~~						
~~MW-106~~	~~Grab~~	~~GW~~		~~4/13/21~~	~~1155~~	~~10~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~						
~~MW-50~~	~~Grab~~	~~GW~~		~~4/13/21~~	~~1000~~	~~8~~	~~X~~	~~X~~		~~X~~	~~X~~	~~X~~						
~~MW-97~~ missing; covered by playa gravel	~~Grab~~	~~GW~~				~~12~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~			~~X~~			
~~MW-92~~ LNAPL	~~Grab~~	~~GW~~				~~10~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~						

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks:
Dissolved metals field-filtered.

pH ___ Temp ___
Flow ___ Other ___

Samples returned via: __ UPS ✓ FedEx __ Courier

Tracking #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/15/21	1200	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: (Yes) No HCl / MeoH TBR

Temp: 0.1 / 3.0 / 4 °C Bottles Received: 26 9+4 TB

Date: 4/16/21 Time: 0930

If preservation required by Login: Date/Time

HCl

Hold:

Condition: NCF 1 (2)

Sample Receipt Checklist
COC Seal Present/Intact: __NP ✓Y __N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: ✓Y __N
Correct bottles used: ✓Y __N
Sufficient volume sent: ✓Y __N
If Applicable
VOA Zero Headspace: ✓Y __N
Preservation Correct/Checked: ✓Y __N

Chain of Custody Page 10 of 14

Pace Analytical
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 1340127
Table #
Acctnum: TRCATX
Template: T121997
Prelogin: P835518
TSR: 526
PB:
Shipped Via:

Page 941 of 1716

Released to Imaging: 2/7/2025 11:08:22 AM

Received by OCD: 1/9/2025 2:41:44 PM

Shipment #3

TRC Solutions - Austin, TX **505 E. Huntland Dr, Ste 250** **Austin, TX 78752**	Billing Information: **Accounts Payable** **21 Griffin Road North** **Windsor, CT 06095** **apinvoiceapproval@trcsolutions.com**
Report to: **Julie Speer**	Email To: **jspeer@trccompanies.com; dholbert@trccompanies.com**
Project Description: **REST Spring 2021**	City/State Collected: **Artesia, NM**
Phone: **512-684-3170** Fax:	Client Project # **330538.0000.0000**
Collected by (print): **Scott Ude/HMI Team**	Site/Facility ID # **REST (Navajo - Artesia)**
Collected by (signature):	Rush? (Lab MUST Be Notified) ___ Same Day ___ Five Day ___ Next Day ___ 5 Day (Rad Only) ___ Two Day ___ 10 Day (Rad Only) ___ Three Day
Immediately Packed on Ice N___ Y✓	Date Results Needed

Lab Project #: **TRCATX-REST**

P.O. #:

Quote #:

Chain of Custody Page 11 of 14

Pace Analytical® National Center for Testing & Innovation
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 1340127

Table #:

Acctnum: **TRCATX**

Template: **T121997**

Prelogin: **P835518**

TSR: **526**

PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions,NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Remarks	Sample # (lab only)
RW-1 LNAPL	Grab	GW				10	X	X	X	X	X	X						
MW-91 LNAPL	Grab	GW				10	X	X	X	X	X	X						
MW-90	Grab	GW		4/15/21	1100	10	X	X	X	X	X	X						
MW-96 LNAPL	Grab	GW				10	X	X	X	X	X	X						
MW-94 LNAPL	Grab	GW				10	X	X	X	X	X	X						
RW-8 LNAPL	Grab	GW				8	X	X		X	X	X						
MW-67 LNAPL	Grab	GW				11	X	X	X		X	X	X	X				
MW-95 LNAPL	Grab	GW				10	X	X	X	X	X	X						
RW-7 LNAPL	Grab	GW				10	X	X	X	X	X	X						
RW-#17A DRY	Grab	GW				10	X	X	X	X	X	X						

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:
Dissolved metals field-filtered.

pH _____ Temp _____

Flow _____ Other _____

Samples returned via: __ UPS ✓ FedEx __ Courier __ _____

Tracking #:

Sample Receipt Checklist:
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

Relinquished by : (Signature) Scott Ude	Date: 4/15/21	Time: 1200	Received by: (Signature)	Trip Blank Received: Yes (2) No HCl / MeoH TBR x4
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 1.3 °C Bottles Received: 269+403
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4/16/21 Time: 0900

If preservation required by Login: Date/Time

Hold: Condition: NCF / OK

Released to Imaging: 2/7/2025 11:08:22 AM
Received by OCD: 1/9/2025 2:41:44 PM

Shipment #3

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

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21 Griffin Road North
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Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com; dhelbert@trccompanies.com**

Project Description: **REST Spring 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **330538.0000.0000**

Lab Project # **TRCATX-REST**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **REST (Navajo - Artesia)**

P.O. #

Collected by (signature):

Quote #

Immediately Packed on Ice N___ Y✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page 12 of 14

Pace Analytical*
National Center for Testing & Innovation

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L# 1340127

Table #

Acctnum: TRCATX

Template: T121997

Prelogin: P835518

TSR: 526

PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions,NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Remarks	Sample # (lab only)
DUP-REST-01	Grab	GW		4/14/21	1000	10	X	X	X	X	X	X						-25
DUP-REST-02	Grab	GW		4/13/21	1200	10	X	X	X	X	X	X						
DUP-REST-03	Grab	GW		4/14/21	900	10	X	X	X	X	X	X						-26
DUP-REST-04 - LNAPL	Grab	GW				11	X	X	X		X	X	X	X				
DUP-REST-05	Grab	GW		4/13/21	1200	11	X	X	X		X	X	X	X				
EB-REST-01	Grab	GW		4/14/21	1240	10	X	X	X	X	X	X						-27
EB-REST-02	Grab	GW		4/13/21	1305	10	X	X	X	X	X	X						
EB-REST-03	Grab	GW		4/14/21	1135	10	X	X	X	X	X	X						-28
EB-REST-04 LNAPL related	Grab	GW				11	X	X	X		X	X	X	X				
EB-REST-05	Grab	GW		4/13/21	1025	11	X	X	X		X	X	X	X				

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other:

Remarks:
Dissolved metals field-filtered.

pH ____ Temp ____
Flow ____ Other ____

Samples returned via:
__ UPS ✓FedEx __ Courier ____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP ✓Y __N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: ✓Y __N
Correct bottles used: ✓Y __N
Sufficient volume sent: ✓Y __N
If Applicable
VOA Zero Headspace: ✓Y __N
Preservation Correct/Checked: ✓Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/15/21	1200	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: ✓Yes No
HCl / MeoH
TBR
X4

Temp: 4.3 °C Bottles Received: 269+4TB

Date: 4/16/21 Time: 0900

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Released to Imaging: 2/7/2025 11:08:22 AM
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Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com; dhelbert@trccompanies.com**

Project Description: **REST Spring 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170** Fax:

Client Project # **330538.0000.0000**

Lab Project # **TRCATX-REST**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **REST (Navajo - Artesia)**

P.O. #

Collected by (signature):

Quote #

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified) ___ Same Day ___ Five Day ___ Next Day ___ 5 Day (Rad Only) ___ Two Day ___ 10 Day (Rad Only) ___ Three Day

Date Results Needed

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page 13 of 14

Pace Analytical® National Center for Testing & Innovation

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L# 1340127

Table #

Acctnum: TRCATX

Template: T121997

Prelogin: P835518

TSR: 526

PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions,NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Remarks	Sample # (lab only)
Trip Blank-REST-01	Grab	GW		4/14/21	—	1	X											-29
~~Trip Blank-REST-02~~	Grab	GW		~~4/15/21~~	~~—~~	1	X											
Trip Blank-REST-03	Grab	GW		4/14/21	—	1	X											-30
Trip Blank-REST-04	Grab	GW		4/14/21	—	1	X											-31
Trip Blank-REST-05	Grab	GW				1	X										(Not requested)	

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks:
Dissolved metals field-filtered.

pH ___ Temp ___
Flow ___ Other ___

Samples returned via: ___ UPS ✓ FedEx ___ Courier ___

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Scott Ude	4/15/21	1200		X4
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.1 / 3.4 °C Bottles Received: 269+4TB
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4/16/21 Time: 0930

If preservation required by Login: Date/Time

Hold: Condition: NCF / 0

Page 944 of 1716

Released to Imaging: 2/7/2025 11:08:22 AM
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Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com; dbelbert@trccompanies.com**

Project Description: **REST Spring 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **330538.0000.0000**

Lab Project # **TRCATX-REST**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **REST (Navajo - Artesia)**

P.O. #

Collected by (signature):

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Immediately Packed on Ice N ___ Y ✓

Analysis / Container / Preservative

Chain of Custody Page 14 of 14

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L# 1340127
Table #
Acctnum: TRCATX
Template: T121997
Prelogin: P835518
TSR: 526
PB:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC - 40mlAmb HCl	DRO - 40mlAmb-HCl-BT	GRO - 40mlAmb HCl	Total Short List Metals 250mlHDPE-HNO3	Cations (from "total metals" bottle)	Anions, TDS - 250mlHDPE-NoPres	NO2NO3 - 250mlHDPE-H2SO4	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	SVOCs - 8270	Remarks	Sample # (lab only)
MW-62R	Grab	GW		4/14/21	1025	9	X	X	X	X	X	X	X					-32
~~MW-137A~~ DRY	Grab	GW				11	~~X~~	~~X~~	~~X~~		~~X~~	~~X~~	~~X~~	~~X~~	~~X~~			
~~MW-138A~~ DRY	Grab	GW				11	~~X~~	~~X~~	~~X~~		~~X~~	~~X~~	~~X~~	~~X~~	~~X~~			
~~MW-139~~	Grab	GW		~~4/13/21~~	~~1630~~	10	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~					
~~MW-145~~	Grab	GW		~~4/13/21~~	~~1200~~	8	~~X~~	~~X~~	~~X~~	~~X~~		~~X~~						
~~MW-146~~	Grab	GW		~~4/13/21~~	~~1115~~	8	~~X~~	~~X~~	~~X~~	~~X~~		~~X~~						
~~MW-147~~	Grab	GW		~~4/13/21~~	~~910~~	8	~~X~~	~~X~~	~~X~~	~~X~~		~~X~~						
~~MW-148~~	Grab	GW		~~4/13/21~~	~~1020~~	8	~~X~~	~~X~~	~~X~~	~~X~~		~~X~~						
	Grab	GW																

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Scott Ude	4/15/21	1200		XK
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 1.3 °C Bottles Received: 26
				dft 0.3=0.4
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4/16/21 Time: 0930

If preservation required by Login: Date/Time

Hold: Condition: NCF / OK

L1340

FedEx Tracking #:			Corresponding Temp:		
5016	1217	2116	0.1 + .3 = 0.4	A3	PM
9517	5769	8834	0.3 + .3 = 0.6		
	5771	3106	0.1 + .3 = 0.4		
		3047	0.2 + .3 = 0.5		
	5769	8878	0.1 + .3 = 0.4		
	5771	0493	0.4 + .3 = 0.7		
	5769	8845	0.1 + .3 = 0.4		
	5771	3014	3.8 + .1 = 3.9	A6	OT
		0450	3.6 + .1 = 3.7	A2	BB
5016	1220	5876	3.4 + .1 = 3.5	A6	OT
9517	5769	8856	0.4 + .1 = 0.5	A2	BB
	5771	0482	2.6 + .1 = 2.7	A2	BB
		0460	0.3 + .1 = 0.4	A6	OT
		3025	0.1 + .3 = 0.4	A3	PM
		0471	0.2 + .3 = 0.5		
		0449	2.6 + .1 = 2.7	A6	OT
5016	1220	5865	3.5 + .1 = 3.6	A2	BB
9517	5769	8867	2.7 - .3 = 2.4	A7	KI

ANALYTICAL REPORT

January 11, 2022

Revised Report

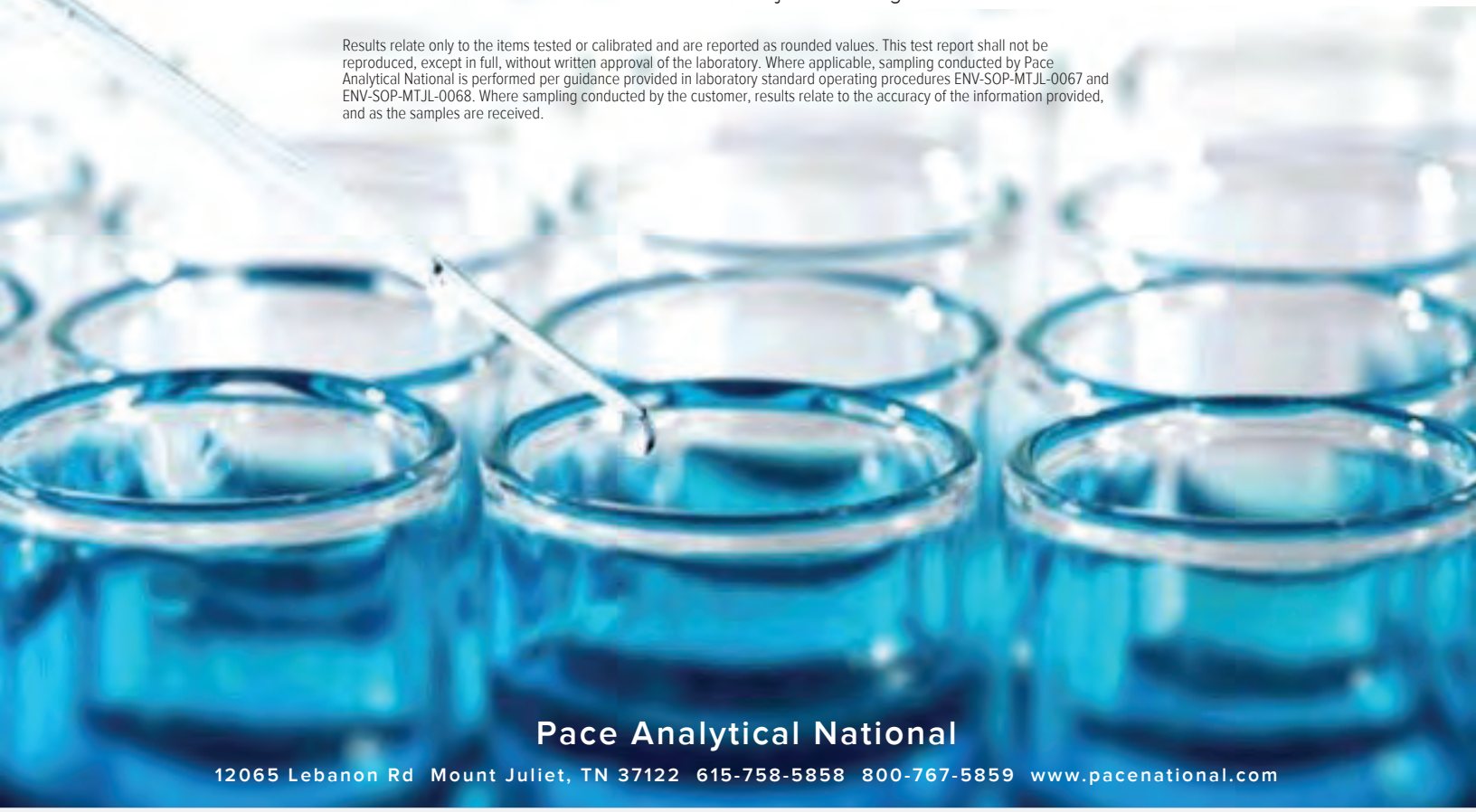
TRC Solutions - Austin, TX

Sample Delivery Group:	L1404404
Samples Received:	09/16/2021
Project Number:	425135.0000.0000.
Description:	Artesia Fall 2021
Site:	(NAVAJO-ARTESIA)
Report To:	Julie Speer
	505 E. Huntland Dr, Ste 250
	Austin, TX 78752

Entire Report Reviewed By:

Chris McCord
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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MW-120 L1404404-01 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 09:50 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1742557	1	09/18/21 21:54	09/19/21 00:24	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1743859	1	09/23/21 15:17	09/23/21 15:17	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743529	1	09/21/21 11:06	09/21/21 11:06	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743529	100	09/21/21 11:38	09/21/21 11:38	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742029	1	09/22/21 10:56	09/23/21 02:40	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742029	5	09/22/21 10:56	09/23/21 13:08	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1745686	1	09/24/21 04:48	09/24/21 04:48	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742353	1	09/19/21 05:59	09/19/21 05:59	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1743064	1	09/20/21 23:02	09/21/21 12:48	WCR	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod	WG1742046	1	09/17/21 23:12	09/18/21 15:14	AMG	Mt. Juliet, TN

MW-121 L1404404-02 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 10:35 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1742557	1	09/18/21 21:54	09/19/21 00:24	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1743859	1	09/23/21 15:18	09/23/21 15:18	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743529	1	09/21/21 12:11	09/21/21 12:11	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743529	100	09/21/21 12:27	09/21/21 12:27	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742029	1	09/22/21 10:56	09/23/21 02:59	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742029	1	09/22/21 10:56	09/23/21 13:11	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744155	1	09/23/21 06:05	09/23/21 06:05	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1743064	1	09/20/21 23:02	09/21/21 13:14	WCR	Mt. Juliet, TN

MW-84 L1404404-03 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 16:50 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1742557	1	09/18/21 21:54	09/19/21 00:24	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1743859	1	09/23/21 15:23	09/23/21 15:23	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743529	10	09/21/21 12:44	09/21/21 12:44	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743529	100	09/21/21 13:00	09/21/21 13:00	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742029	1	09/22/21 10:56	09/23/21 13:14	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742029	5	09/22/21 10:56	09/23/21 13:18	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744155	10	09/23/21 09:20	09/23/21 09:20	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1743064	20	09/20/21 23:02	09/21/21 20:08	WCR	Mt. Juliet, TN

MW-122 L1404404-04 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 12:15 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1742557	1	09/18/21 21:54	09/19/21 00:24	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1743859	1	09/23/21 15:25	09/23/21 15:25	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743529	1	09/21/21 13:49	09/21/21 13:49	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743529	100	09/21/21 14:06	09/21/21 14:06	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742029	1	09/22/21 10:56	09/23/21 03:05	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742029	1	09/22/21 10:56	09/23/21 13:21	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744155	1	09/23/21 06:27	09/23/21 06:27	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1743064	1	09/20/21 23:02	09/21/21 13:40	WCR	Mt. Juliet, TN

MW-79 L1404404-05 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 11:25 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1742557	1	09/18/21 21:54	09/19/21 00:24	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1743859	1	09/23/21 15:26	09/23/21 15:26	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743529	1	09/21/21 14:22	09/21/21 14:22	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743529	100	09/21/21 14:39	09/21/21 14:39	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742029	1	09/22/21 10:56	09/23/21 03:09	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742029	1	09/22/21 10:56	09/23/21 13:24	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742029	5	09/22/21 10:56	09/23/21 13:27	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744155	1	09/23/21 06:49	09/23/21 06:49	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1743064	1	09/20/21 23:02	09/21/21 14:06	WCR	Mt. Juliet, TN

MW-74 L1404404-06 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 15:35 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1742557	1	09/18/21 21:54	09/19/21 00:24	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1743859	1	09/23/21 15:27	09/23/21 15:27	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743529	1	09/21/21 14:55	09/21/21 14:55	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743529	100	09/21/21 15:11	09/21/21 15:11	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742029	1	09/22/21 10:56	09/23/21 03:12	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742029	1	09/22/21 10:56	09/23/21 13:30	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742029	5	09/22/21 10:56	09/23/21 13:34	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744155	1	09/23/21 07:10	09/23/21 07:10	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1743064	1	09/20/21 23:02	09/22/21 00:11	LEA	Mt. Juliet, TN

MW-2A L1404404-07 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 13:00 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1742557	1	09/18/21 21:54	09/19/21 00:24	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1743859	1	09/23/21 15:28	09/23/21 15:28	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743529	1	09/21/21 15:28	09/21/21 15:28	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743529	100	09/21/21 15:44	09/21/21 15:44	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742029	1	09/22/21 10:56	09/23/21 03:15	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742029	1	09/22/21 10:56	09/23/21 13:58	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742029	10	09/22/21 10:56	09/23/21 14:02	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744155	1	09/23/21 07:32	09/23/21 07:32	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1743064	1	09/20/21 23:02	09/21/21 14:58	WCR	Mt. Juliet, TN

OCD-6 L1404404-08 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 14:00 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1742557	1	09/18/21 21:54	09/19/21 00:24	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1743859	1	09/23/21 15:30	09/23/21 15:30	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743529	1	09/21/21 16:01	09/21/21 16:01	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743529	100	09/21/21 16:17	09/21/21 16:17	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742029	1	09/22/21 10:56	09/23/21 03:18	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742029	1	09/22/21 10:56	09/23/21 14:05	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742029	10	09/22/21 10:56	09/23/21 14:08	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744155	1	09/23/21 07:54	09/23/21 07:54	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1743064	1	09/20/21 23:02	09/21/21 15:24	WCR	Mt. Juliet, TN

OCD-7AR L1404404-09 GW

Collected by	Collected date/time	Received date/time
Scott Ude/HMI Team	09/14/21 14:40	09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1742557	1	09/18/21 21:54	09/19/21 00:24	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1743859	1	09/23/21 15:31	09/23/21 15:31	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743529	1	09/21/21 17:09	09/21/21 17:09	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743529	100	09/21/21 17:25	09/21/21 17:25	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742029	1	09/22/21 10:56	09/23/21 03:22	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742029	1	09/22/21 10:56	09/23/21 14:11	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742029	10	09/22/21 10:56	09/23/21 14:15	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744155	1	09/23/21 08:15	09/23/21 08:15	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1743064	1	09/20/21 23:02	09/21/21 15:49	WCR	Mt. Juliet, TN

MW-130 L1404404-10 GW

Collected by	Collected date/time	Received date/time
Scott Ude/HMI Team	09/14/21 08:25	09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1742557	1	09/18/21 21:54	09/19/21 00:24	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1743859	1	09/23/21 15:32	09/23/21 15:32	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743529	1	09/21/21 17:42	09/21/21 17:42	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743529	10	09/21/21 18:31	09/21/21 18:31	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742029	1	09/22/21 10:56	09/23/21 03:25	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742029	1	09/22/21 10:56	09/23/21 14:18	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744155	1	09/23/21 08:37	09/23/21 08:37	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742353	1	09/19/21 06:19	09/19/21 06:19	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1743064	1	09/20/21 23:02	09/21/21 16:15	WCR	Mt. Juliet, TN

EB-EP-01 L1404404-11 GW

Collected by	Collected date/time	Received date/time
Scott Ude/HMI Team	09/14/21 15:50	09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1742557	1	09/18/21 21:54	09/19/21 00:24	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1743859	1	09/23/21 15:33	09/23/21 15:33	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743529	1	09/21/21 18:47	09/21/21 18:47	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742029	1	09/22/21 10:56	09/23/21 03:28	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742029	1	09/22/21 10:56	09/23/21 14:21	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744164	1	09/23/21 01:16	09/23/21 01:16	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1743797	1	09/21/21 19:18	09/22/21 13:26	WCR	Mt. Juliet, TN

EB-EP-04 L1404404-12 GW

Collected by	Collected date/time	Received date/time
Scott Ude/HMI Team	09/14/21 11:40	09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1742560	1	09/18/21 21:56	09/19/21 02:55	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1743859	1	09/23/21 15:35	09/23/21 15:35	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743529	1	09/21/21 19:20	09/21/21 19:20	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742029	1	09/22/21 10:56	09/23/21 03:38	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742029	1	09/22/21 10:56	09/23/21 14:24	JDG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744164	1	09/23/21 01:38	09/23/21 01:38	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1743797	1	09/21/21 19:18	09/22/21 16:28	WCR	Mt. Juliet, TN

TRIP BLANK-EP-01 L1404404-13 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 00:00 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742363	1	09/18/21 12:03	09/18/21 12:03	JCP	Mt. Juliet, TN

MW-76 L1404404-14 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 17:10 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1742560	1	09/18/21 21:56	09/19/21 02:55	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1743859	1	09/23/21 15:40	09/23/21 15:40	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743529	1	09/21/21 20:26	09/21/21 20:26	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743529	100	09/21/21 20:42	09/21/21 20:42	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742029	1	09/22/21 10:56	09/23/21 03:41	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742029	1	09/22/21 10:56	09/23/21 14:28	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744164	10	09/23/21 07:29	09/23/21 07:29	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1743797	10	09/21/21 19:18	09/22/21 19:31	WCR	Mt. Juliet, TN

MW-75 L1404404-15 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 18:05 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1742560	1	09/18/21 21:56	09/19/21 02:55	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1743859	1	09/23/21 15:41	09/23/21 15:41	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743529	1	09/21/21 20:59	09/21/21 20:59	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743529	100	09/21/21 21:15	09/21/21 21:15	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742029	1	09/22/21 10:56	09/23/21 03:44	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742029	1	09/22/21 10:56	09/23/21 14:52	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742029	5	09/22/21 10:56	09/23/21 14:55	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744164	10	09/23/21 07:51	09/23/21 07:51	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1743797	10	09/21/21 19:18	09/22/21 19:57	WCR	Mt. Juliet, TN

MW-83 L1404404-16 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 16:25 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1742560	1	09/18/21 21:56	09/19/21 02:55	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1743859	10	09/23/21 15:42	09/23/21 15:42	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743529	1	09/21/21 21:31	09/21/21 21:31	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743529	100	09/21/21 21:48	09/21/21 21:48	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742029	1	09/22/21 10:56	09/23/21 14:59	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744164	1	09/23/21 02:22	09/23/21 02:22	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1743797	10	09/21/21 19:18	09/22/21 20:23	WCR	Mt. Juliet, TN

MW-3 L1404404-17 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 15:35 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1742560	1	09/18/21 21:56	09/19/21 02:55	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1743859	1	09/23/21 15:44	09/23/21 15:44	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743529	1	09/21/21 22:04	09/21/21 22:04	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743529	100	09/21/21 22:21	09/21/21 22:21	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742029	1	09/22/21 10:56	09/23/21 03:51	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742029	1	09/22/21 10:56	09/23/21 15:02	JPD	Mt. Juliet, TN

MW-3 L1404404-17 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 15:35 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744164	1	09/23/21 02:44	09/23/21 02:44	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1743797	10	09/21/21 19:18	09/22/21 18:39	WCR	Mt. Juliet, TN

MW-88 L1404404-18 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 12:20 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICPMS) by Method 6020	WG1742029	1	09/22/21 10:56	09/23/21 03:54	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742029	1	09/22/21 10:56	09/23/21 15:05	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744164	1	09/23/21 03:06	09/23/21 03:06	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1743797	1	09/21/21 19:18	09/22/21 16:54	WCR	Mt. Juliet, TN

MW-22A L1404404-19 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 13:00 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1742560	1	09/18/21 21:56	09/19/21 02:55	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1743859	1	09/23/21 15:45	09/23/21 15:45	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743529	1	09/21/21 22:37	09/21/21 22:37	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743529	100	09/21/21 22:53	09/21/21 22:53	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743529	500	09/22/21 17:44	09/22/21 17:44	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742029	1	09/22/21 10:56	09/23/21 03:57	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742029	1	09/22/21 10:56	09/23/21 15:08	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742029	10	09/22/21 10:56	09/23/21 15:12	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744164	1	09/23/21 03:28	09/23/21 03:28	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1743797	1	09/21/21 19:18	09/22/21 17:20	WCR	Mt. Juliet, TN

MW-10 L1404404-20 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 14:00 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1742560	1	09/18/21 21:56	09/19/21 02:55	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1743859	1	09/23/21 15:47	09/23/21 15:47	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743529	1	09/21/21 23:43	09/21/21 23:43	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743529	100	09/21/21 23:59	09/21/21 23:59	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742029	1	09/22/21 10:56	09/23/21 04:01	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742029	1	09/22/21 10:56	09/23/21 15:15	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742029	5	09/22/21 10:56	09/23/21 15:18	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744164	1	09/23/21 03:50	09/23/21 03:50	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1743797	1	09/21/21 19:18	09/22/21 17:46	WCR	Mt. Juliet, TN

MW-123 L1404404-21 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 14:45 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1742560	1	09/18/21 21:56	09/19/21 02:55	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745429	1	09/24/21 16:14	09/24/21 16:14	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743529	1	09/22/21 00:15	09/22/21 00:15	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743529	100	09/22/21 00:32	09/22/21 00:32	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742029	1	09/22/21 10:56	09/23/21 04:04	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742029	1	09/22/21 10:56	09/23/21 15:21	JPD	Mt. Juliet, TN

MW-123 L1404404-21 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 14:45 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744164	1	09/23/21 04:12	09/23/21 04:12	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1745154	1	09/28/21 09:08	09/28/21 16:20	DMG	Mt. Juliet, TN

MW-4A L1404404-22 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 11:25 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1742560	1	09/18/21 21:56	09/19/21 02:55	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745429	1	09/24/21 16:18	09/24/21 16:18	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743529	1	09/22/21 00:48	09/22/21 00:48	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743529	100	09/22/21 01:05	09/22/21 01:05	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742031	1	09/22/21 11:07	09/23/21 00:59	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744164	1	09/23/21 04:33	09/23/21 04:33	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1745154	1	09/28/21 09:08	09/28/21 16:46	DMG	Mt. Juliet, TN

MW-5A L1404404-23 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 10:20 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1742560	1	09/18/21 21:56	09/19/21 02:55	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745429	1	09/24/21 16:20	09/24/21 16:20	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743532	1	09/21/21 11:50	09/21/21 11:50	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743532	100	09/21/21 12:05	09/21/21 12:05	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742031	1	09/22/21 11:07	09/23/21 01:18	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742031	10	09/22/21 11:07	09/23/21 13:47	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744164	5	09/23/21 08:12	09/23/21 08:12	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1745154	1	09/28/21 09:08	09/28/21 17:12	DMG	Mt. Juliet, TN

MW-7A L1404404-24 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 09:20 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1742560	1	09/18/21 21:56	09/19/21 02:55	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745429	1	09/24/21 16:22	09/24/21 16:22	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743532	1	09/21/21 12:21	09/21/21 12:21	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743532	100	09/21/21 12:37	09/21/21 12:37	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742031	1	09/22/21 11:07	09/23/21 01:22	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742031	5	09/22/21 11:07	09/23/21 13:50	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744164	1	09/23/21 04:55	09/23/21 04:55	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742363	1	09/18/21 15:50	09/18/21 15:50	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1745154	1	09/28/21 09:08	09/28/21 17:38	DMG	Mt. Juliet, TN

OCD-8A L1404404-25 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 08:35 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1742560	1	09/18/21 21:56	09/19/21 02:55	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745429	1	09/24/21 16:27	09/24/21 16:27	JER	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG1745026	1	09/23/21 09:26	09/23/21 16:53	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743532	1	09/21/21 12:53	09/21/21 12:53	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743532	100	09/21/21 13:09	09/21/21 13:09	ELN	Mt. Juliet, TN

OCD-8A L1404404-25 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 08:35 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Mercury by Method 7470A	WG1741778	1	09/22/21 10:26	09/22/21 15:05	BMF	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1742039	1	09/22/21 06:46	09/23/21 04:00	EL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742031	1	09/22/21 11:07	09/23/21 01:25	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742031	10	09/22/21 11:07	09/23/21 13:53	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744164	1	09/23/21 05:17	09/23/21 05:17	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1745154	1	09/28/21 09:08	09/28/21 18:03	DMG	Mt. Juliet, TN

DUP-EP-01 L1404404-26 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 09:00 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1742560	1	09/18/21 21:56	09/19/21 02:55	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745429	1	09/24/21 16:28	09/24/21 16:28	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743532	1	09/21/21 13:25	09/21/21 13:25	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743532	100	09/21/21 13:41	09/21/21 13:41	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742031	1	09/22/21 11:07	09/23/21 01:28	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742031	5	09/22/21 11:07	09/23/21 13:57	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744164	1	09/23/21 05:39	09/23/21 05:39	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742363	1	09/18/21 16:11	09/18/21 16:11	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1745154	1	09/28/21 09:08	09/28/21 18:29	DMG	Mt. Juliet, TN

DUP-EP-02 L1404404-27 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 12:00 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1742560	1	09/18/21 21:56	09/19/21 02:55	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745429	1	09/24/21 16:29	09/24/21 16:29	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743532	1	09/21/21 14:29	09/21/21 14:29	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743532	100	09/21/21 14:45	09/21/21 14:45	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743532	500	09/21/21 16:53	09/21/21 16:53	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742031	1	09/22/21 11:07	09/23/21 01:31	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742031	10	09/22/21 11:07	09/23/21 14:00	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744164	1	09/23/21 06:01	09/23/21 06:01	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1745154	1	09/28/21 09:08	09/28/21 18:55	DMG	Mt. Juliet, TN

DUP-EP-03 L1404404-28 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 13:00 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1742560	1	09/18/21 21:56	09/19/21 02:55	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745429	1	09/24/21 16:31	09/24/21 16:31	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743532	1	09/21/21 15:01	09/21/21 15:01	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743532	100	09/21/21 15:32	09/21/21 15:32	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742031	1	09/22/21 11:07	09/23/21 01:35	JDG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744164	1	09/23/21 06:23	09/23/21 06:23	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1745154	1	09/28/21 09:08	09/28/21 19:33	DMG	Mt. Juliet, TN

EB-EP-03 L1404404-29 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 10:35 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1742560	1	09/18/21 21:56	09/19/21 02:55	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745429	1	09/24/21 16:32	09/24/21 16:32	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743532	1	09/21/21 16:04	09/21/21 16:04	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742031	1	09/22/21 11:07	09/23/21 01:38	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744164	1	09/23/21 02:00	09/23/21 02:00	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1745154	1	09/28/21 09:08	09/28/21 19:59	DMG	Mt. Juliet, TN

TRIP BLANK-EP-02 L1404404-30 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 00:00 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742363	1	09/18/21 12:24	09/18/21 12:24	JCP	Mt. Juliet, TN

OCD-1R L1404404-31 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 16:10 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1742560	1	09/18/21 21:56	09/19/21 02:55	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745429	1	09/24/21 16:33	09/24/21 16:33	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743532	1	09/21/21 17:40	09/21/21 17:40	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743532	100	09/21/21 17:56	09/21/21 17:56	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742031	1	09/22/21 11:07	09/23/21 01:41	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742031	5	09/22/21 11:07	09/23/21 14:04	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744164	1	09/23/21 06:45	09/23/21 06:45	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1745154	1	09/28/21 09:08	09/28/21 20:25	DMG	Mt. Juliet, TN

OCD-2A L1404404-32 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 12:20 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICPMS) by Method 6020	WG1742031	1	09/22/21 11:07	09/23/21 01:44	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744164	1	09/23/21 07:07	09/23/21 07:07	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1745154	1	09/28/21 09:08	09/28/21 20:51	DMG	Mt. Juliet, TN

OCD-3 L1404404-33 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 13:05 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICPMS) by Method 6020	WG1742031	1	09/22/21 11:07	09/23/21 01:48	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744681	1	09/23/21 03:21	09/23/21 03:21	MGF	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1745154	1	09/28/21 09:08	09/28/21 21:17	DMG	Mt. Juliet, TN

OCD-4 L1404404-34 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 13:45 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICPMS) by Method 6020	WG1742031	1	09/22/21 11:07	09/23/21 01:57	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744681	1	09/23/21 03:43	09/23/21 03:43	MGF	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1745154	1	09/28/21 09:08	09/28/21 21:43	DMG	Mt. Juliet, TN

MW-11A L1404404-35 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 15:10 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1742563	1	09/18/21 21:39	09/19/21 05:03	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745429	1	09/24/21 16:34	09/24/21 16:34	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743532	1	09/21/21 18:12	09/21/21 18:12	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743532	100	09/21/21 18:28	09/21/21 18:28	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742031	1	09/22/21 11:07	09/23/21 02:01	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742031	10	09/22/21 11:07	09/23/21 14:07	JPD	Mt. Juliet, TN

OCD-5 L1404404-36 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 14:30 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1742563	1	09/18/21 21:39	09/19/21 05:03	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745429	1	09/24/21 16:37	09/24/21 16:37	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743532	1	09/21/21 18:44	09/21/21 18:44	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743532	100	09/21/21 19:00	09/21/21 19:00	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742031	1	09/22/21 11:07	09/23/21 02:04	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742031	10	09/22/21 11:07	09/23/21 14:11	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744681	1	09/23/21 04:04	09/23/21 04:04	MGF	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1745154	1	09/28/21 09:08	09/28/21 22:09	DMG	Mt. Juliet, TN

MW-87 L1404404-37 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 08:40 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICPMS) by Method 6020	WG1742031	1	09/22/21 11:07	09/23/21 02:07	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744684	1	09/25/21 07:09	09/25/21 07:09	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1745154	1	09/28/21 09:08	09/28/21 22:34	DMG	Mt. Juliet, TN

MW-18A L1404404-38 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 09:25 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1742563	1	09/18/21 21:39	09/19/21 05:03	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745429	1	09/24/21 16:43	09/24/21 16:43	JER	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG1745026	1	09/23/21 09:26	09/23/21 16:54	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743532	1	09/21/21 19:16	09/21/21 19:16	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743532	100	09/21/21 19:32	09/21/21 19:32	ELN	Mt. Juliet, TN
Mercury by Method 7470A	WG1741778	1	09/22/21 10:26	09/22/21 15:07	BMF	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1742039	1	09/22/21 06:46	09/23/21 04:04	EL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742031	1	09/22/21 11:07	09/23/21 02:10	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742031	10	09/22/21 11:07	09/23/21 14:14	JPD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1745154	1	09/28/21 09:08	09/28/21 23:00	DMG	Mt. Juliet, TN

MW-70 L1404404-39 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 10:20 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICPMS) by Method 6020	WG1742031	1	09/22/21 11:07	09/23/21 02:14	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744684	1	09/25/21 07:37	09/25/21 07:37	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1745154	1	09/28/21 09:08	09/28/21 23:26	DMG	Mt. Juliet, TN

MW-124 L1404404-40 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 11:10 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1742563	1	09/18/21 21:39	09/19/21 05:03	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745429	1	09/24/21 16:45	09/24/21 16:45	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743532	1	09/21/21 19:48	09/21/21 19:48	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743532	100	09/21/21 20:04	09/21/21 20:04	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742031	1	09/22/21 11:07	09/23/21 02:17	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742031	5	09/22/21 11:07	09/23/21 14:18	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744684	1	09/25/21 08:05	09/25/21 08:05	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1745154	1	09/28/21 09:08	09/28/21 23:52	DMG	Mt. Juliet, TN

MW-52 L1404404-41 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/15/21 09:50 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1742563	1	09/18/21 21:39	09/19/21 05:03	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745429	10	09/24/21 16:46	09/24/21 16:46	JER	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG1745026	1	09/23/21 09:26	09/23/21 16:55	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743532	1	09/21/21 20:51	09/21/21 20:51	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743532	20	09/21/21 21:07	09/21/21 21:07	ELN	Mt. Juliet, TN
Mercury by Method 7470A	WG1741778	1	09/22/21 10:26	09/22/21 15:08	BMF	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1742039	1	09/22/21 06:46	09/23/21 04:07	EL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742031	1	09/22/21 11:07	09/23/21 02:20	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744684	1	09/25/21 08:33	09/25/21 08:33	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742363	1	09/18/21 16:31	09/18/21 16:31	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1746820	1	09/27/21 14:15	09/30/21 10:03	CAG	Mt. Juliet, TN

MW-109 L1404404-42 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/15/21 08:30 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1742563	1	09/18/21 21:39	09/19/21 05:03	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745429	10	09/24/21 16:47	09/24/21 16:47	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743532	1	09/21/21 21:23	09/21/21 21:23	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743532	10	09/21/21 21:39	09/21/21 21:39	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742031	1	09/22/21 11:07	09/23/21 02:23	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1746586	25	09/26/21 22:45	09/26/21 22:45	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742363	25	09/18/21 17:53	09/18/21 17:53	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1746820	1	09/27/21 14:15	09/30/21 10:31	CAG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod	WG1742046	1	09/17/21 23:12	09/18/21 10:44	AMG	Mt. Juliet, TN

MW-110 L1404404-43 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/15/21 09:10 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1742563	1	09/18/21 21:39	09/19/21 05:03	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745429	1	09/24/21 16:48	09/24/21 16:48	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743532	1	09/21/21 21:55	09/21/21 21:55	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743532	5	09/21/21 22:27	09/21/21 22:27	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742033	1	09/22/21 11:10	09/23/21 03:19	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744684	1	09/25/21 09:01	09/25/21 09:01	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742363	1	09/18/21 16:52	09/18/21 16:52	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1746820	1	09/27/21 14:15	09/30/21 10:59	CAG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod	WG1742046	1	09/17/21 23:12	09/18/21 11:03	AMG	Mt. Juliet, TN

EB-EP-02 L1404404-44 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 11:25 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1742563	1	09/18/21 21:39	09/19/21 05:03	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745429	1	09/24/21 16:50	09/24/21 16:50	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743532	1	09/21/21 22:43	09/21/21 22:43	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742033	1	09/22/21 11:10	09/23/21 03:40	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744684	1	09/25/21 09:29	09/25/21 09:29	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1745154	1	09/28/21 09:08	09/29/21 00:18	DMG	Mt. Juliet, TN

TRIP BLANK-EP-03 L1404404-45 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 00:00 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742363	1	09/18/21 12:44	09/18/21 12:44	JCP	Mt. Juliet, TN

MW-113 L1404404-46 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 15:30 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1742563	1	09/18/21 21:39	09/19/21 05:03	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745429	1	09/24/21 16:51	09/24/21 16:51	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743532	1	09/21/21 23:15	09/21/21 23:15	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743532	10	09/22/21 00:02	09/22/21 00:02	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742033	1	09/22/21 11:10	09/23/21 03:43	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1746586	50	09/26/21 23:14	09/26/21 23:14	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742363	50	09/18/21 18:14	09/18/21 18:14	JCP	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1743427	1	09/21/21 08:42	09/21/21 17:35	HMH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1745154	1	09/28/21 09:08	09/29/21 00:44	DMG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod	WG1742046	1	09/17/21 23:12	09/18/21 11:23	AMG	Mt. Juliet, TN

MW-134 L1404404-47 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/15/21 08:40 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1742563	1	09/18/21 21:39	09/19/21 05:03	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745429	10	09/24/21 16:52	09/24/21 16:52	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743532	1	09/22/21 00:18	09/22/21 00:18	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743532	100	09/22/21 00:34	09/22/21 00:34	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742033	1	09/22/21 11:10	09/23/21 03:47	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744684	1	09/25/21 09:57	09/25/21 09:57	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742363	1	09/18/21 17:12	09/18/21 17:12	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1746820	1	09/27/21 14:15	09/30/21 11:26	CAG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod	WG1742899	1	09/20/21 14:24	09/20/21 21:33	AGW	Mt. Juliet, TN

RA-4798 L1404404-48 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 17:45 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1742563	1	09/18/21 21:39	09/19/21 05:03	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745430	1	09/25/21 21:28	09/25/21 21:28	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743532	1	09/22/21 00:50	09/22/21 00:50	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743532	100	09/22/21 01:06	09/22/21 01:06	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742033	1	09/22/21 11:10	09/23/21 03:50	JPD	Mt. Juliet, TN

RA-4798 L1404404-48 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 17:45 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742732	1	09/19/21 16:27	09/19/21 16:27	ACG	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1743427	1	09/21/21 08:42	09/21/21 17:47	AO	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod	WG1742046	1	09/17/21 23:12	09/18/21 11:42	AMG	Mt. Juliet, TN

KWB-7 L1404404-49 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 14:35 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1742563	1	09/18/21 21:39	09/19/21 05:03	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745430	5	09/25/21 21:31	09/25/21 21:31	SDL	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG1745026	10	09/23/21 09:26	09/23/21 16:57	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743532	1	09/22/21 01:22	09/22/21 01:22	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743532	100	09/22/21 01:38	09/22/21 01:38	ELN	Mt. Juliet, TN
Mercury by Method 7470A	WG1741778	1	09/22/21 10:26	09/22/21 15:10	BMF	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1742039	1	09/22/21 06:46	09/23/21 04:10	EL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742033	1	09/22/21 11:10	09/23/21 03:54	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742732	1	09/19/21 16:48	09/19/21 16:48	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1747403	10	09/28/21 01:29	09/28/21 01:29	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1745179	1	09/28/21 09:10	09/29/21 08:00	WCR	Mt. Juliet, TN

MW-135 L1404404-50 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 16:55 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1742563	1	09/18/21 21:39	09/19/21 05:03	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745430	5	09/25/21 21:33	09/25/21 21:33	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743622	1	09/21/21 22:07	09/21/21 22:07	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743622	100	09/21/21 22:23	09/21/21 22:23	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742033	1	09/22/21 11:10	09/23/21 03:57	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744684	1	09/25/21 10:25	09/25/21 10:25	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742732	1	09/19/21 17:08	09/19/21 17:08	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1747403	1	09/28/21 00:26	09/28/21 00:26	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1745179	1	09/28/21 09:10	09/29/21 08:22	WCR	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod	WG1742189	1	09/18/21 04:09	09/19/21 12:38	JNJ	Mt. Juliet, TN

NP-1 L1404404-51 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/15/21 09:55 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742732	1	09/19/21 17:29	09/19/21 17:29	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1747403	25	09/28/21 01:49	09/28/21 01:49	ACG	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1743427	1	09/21/21 08:42	09/21/21 18:00	HMH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod	WG1742899	1	09/20/21 14:24	09/20/21 21:52	AGW	Mt. Juliet, TN

MW-21 L1404404-52 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/15/21 10:45 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1742563	1	09/18/21 21:39	09/19/21 05:03	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745430	5	09/25/21 21:35	09/25/21 21:35	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743622	1	09/21/21 22:39	09/21/21 22:39	MCG	Mt. Juliet, TN

MW-21 L1404404-52 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/15/21 10:45 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1743622	100	09/21/21 22:55	09/21/21 22:55	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742033	1	09/22/21 11:10	09/23/21 04:00	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744684	1	09/25/21 10:53	09/25/21 10:53	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742732	1	09/19/21 17:49	09/19/21 17:49	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1747403	10	09/28/21 02:10	09/28/21 02:10	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1746820	1	09/27/21 14:15	09/30/21 11:54	CAG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod	WG1742899	1	09/20/21 14:24	09/20/21 22:12	AGW	Mt. Juliet, TN

KWB-11A L1404404-53 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 12:00 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1742563	1	09/18/21 21:39	09/19/21 05:03	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745430	1	09/25/21 21:36	09/25/21 21:36	SDL	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG1745026	1	09/23/21 09:26	09/23/21 17:00	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743622	1	09/21/21 23:42	09/21/21 23:42	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743622	100	09/21/21 23:58	09/21/21 23:58	MCG	Mt. Juliet, TN
Mercury by Method 7470A	WG1741778	1	09/22/21 10:26	09/22/21 15:12	BMF	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1742039	1	09/22/21 06:46	09/23/21 04:20	EL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742033	1	09/22/21 11:10	09/23/21 04:04	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1746586	1	09/26/21 15:45	09/26/21 15:45	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742732	1	09/19/21 18:10	09/19/21 18:10	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1747403	1	09/28/21 00:47	09/28/21 00:47	ACG	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1743427	1	09/21/21 08:42	09/21/21 18:12	HMH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1745179	1	09/28/21 09:10	09/29/21 08:44	WCR	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod	WG1742189	1	09/18/21 04:09	09/19/21 12:57	JNJ	Mt. Juliet, TN

KWB-11B L1404404-54 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 12:45 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1742563	1	09/18/21 21:39	09/19/21 05:03	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745430	1	09/25/21 21:37	09/25/21 21:37	SDL	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG1745026	1	09/23/21 09:26	09/23/21 17:01	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743622	1	09/22/21 00:14	09/22/21 00:14	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743622	100	09/22/21 00:30	09/22/21 00:30	MCG	Mt. Juliet, TN
Mercury by Method 7470A	WG1741778	1	09/22/21 10:26	09/22/21 15:14	BMF	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1742039	1	09/22/21 06:46	09/23/21 04:23	EL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742033	1	09/22/21 11:10	09/23/21 04:07	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1746586	1	09/26/21 16:13	09/26/21 16:13	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742732	1	09/19/21 18:30	09/19/21 18:30	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1747403	1	09/28/21 01:08	09/28/21 01:08	ACG	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1743427	1	09/21/21 08:42	09/21/21 18:25	HMH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1745179	1	09/28/21 09:10	09/29/21 09:07	WCR	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod	WG1742189	1	09/18/21 04:09	09/19/21 13:16	JNJ	Mt. Juliet, TN

MW-115 L1404404-55 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 11:00 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1742563	1	09/18/21 21:39	09/19/21 05:03	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745430	1	09/25/21 20:59	09/25/21 20:59	SDL	Mt. Juliet, TN

MW-115 L1404404-55 GW

Collected by	Collected date/time	Received date/time
Scott Ude/HMI Team	09/14/21 11:00	09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1743622	1	09/22/21 00:46	09/22/21 00:46	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743622	100	09/22/21 01:02	09/22/21 01:02	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742033	1	09/22/21 11:10	09/23/21 04:18	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1746586	1	09/26/21 16:41	09/26/21 16:41	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742732	1	09/19/21 18:50	09/19/21 18:50	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1745179	1	09/28/21 09:10	09/29/21 09:29	WCR	Mt. Juliet, TN

MW-114 L1404404-56 GW

Collected by	Collected date/time	Received date/time
Scott Ude/HMI Team	09/14/21 10:15	09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1743653	1	09/21/21 11:58	09/21/21 13:31	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745430	1	09/25/21 21:00	09/25/21 21:00	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743622	1	09/22/21 01:18	09/22/21 01:18	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743622	100	09/22/21 01:34	09/22/21 01:34	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742033	1	09/22/21 11:10	09/23/21 04:21	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1746586	1	09/26/21 17:09	09/26/21 17:09	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742732	1	09/19/21 19:11	09/19/21 19:11	ACG	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1743427	1	09/21/21 08:42	09/21/21 18:37	HMH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1745179	1	09/28/21 09:10	09/29/21 09:52	WCR	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod	WG1742189	1	09/18/21 04:09	09/19/21 13:35	JNJ	Mt. Juliet, TN

MW-125 L1404404-57 GW

Collected by	Collected date/time	Received date/time
Scott Ude/HMI Team	09/14/21 09:30	09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1743653	1	09/21/21 11:58	09/21/21 13:31	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745430	1	09/25/21 21:02	09/25/21 21:02	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743625	1	09/21/21 16:29	09/21/21 16:29	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743625	100	09/21/21 16:43	09/21/21 16:43	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742033	1	09/22/21 11:10	09/23/21 04:25	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1746586	1	09/26/21 17:37	09/26/21 17:37	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742732	1	09/19/21 19:31	09/19/21 19:31	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1745179	1	09/28/21 09:10	09/29/21 10:14	WCR	Mt. Juliet, TN

DUP-REST-01 L1404404-58 GW

Collected by	Collected date/time	Received date/time
Scott Ude/HMI Team	09/14/21 12:00	09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1743653	1	09/21/21 11:58	09/21/21 13:31	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745430	10	09/25/21 21:03	09/25/21 21:03	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743625	1	09/21/21 16:58	09/21/21 16:58	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743625	100	09/21/21 17:15	09/21/21 17:15	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742033	1	09/22/21 11:10	09/23/21 04:28	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1747133	25	09/27/21 18:05	09/27/21 18:05	MGF	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742732	25	09/19/21 22:15	09/19/21 22:15	ACG	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1743427	1	09/21/21 08:42	09/21/21 18:49	HMH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1745179	1	09/28/21 09:10	09/29/21 10:36	WCR	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod	WG1742899	1.02	09/20/21 14:24	09/20/21 22:31	AGW	Mt. Juliet, TN

EB-REST-01 L1404404-59 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 15:50 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1743653	1	09/21/21 11:58	09/21/21 13:31	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745430	1	09/25/21 21:04	09/25/21 21:04	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743625	1	09/21/21 17:29	09/21/21 17:29	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742033	1	09/22/21 11:10	09/23/21 04:31	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1746586	1	09/26/21 18:05	09/26/21 18:05	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742732	1	09/19/21 19:52	09/19/21 19:52	ACG	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1743427	1	09/21/21 08:42	09/21/21 19:01	HMH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1745179	1	09/28/21 09:10	09/29/21 10:59	WCR	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod	WG1742189	1	09/18/21 04:09	09/19/21 14:14	JNJ	Mt. Juliet, TN

DUP-REST-03 L1404404-60 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/15/21 08:00 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1743658	1	09/21/21 14:37	09/21/21 16:36	VRP	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745430	1	09/25/21 21:05	09/25/21 21:05	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743625	1	09/21/21 18:59	09/21/21 18:59	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743625	100	09/21/21 19:14	09/21/21 19:14	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742033	1	09/22/21 11:10	09/23/21 04:35	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1746586	1	09/26/21 18:33	09/26/21 18:33	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742732	1	09/19/21 20:12	09/19/21 20:12	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1746820	1	09/27/21 14:15	09/30/21 12:22	CAG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod	WG1742899	1	09/20/21 14:24	09/20/21 22:50	AGW	Mt. Juliet, TN

EB-REST-03 L1404404-61 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/15/21 09:00 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1743658	1	09/21/21 14:37	09/21/21 16:36	VRP	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745430	1	09/25/21 21:07	09/25/21 21:07	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743625	1	09/21/21 19:29	09/21/21 19:29	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742033	1	09/22/21 11:10	09/23/21 04:38	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744684	1	09/25/21 06:41	09/25/21 06:41	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742732	1	09/19/21 16:07	09/19/21 16:07	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1746820	1	09/27/21 14:15	09/30/21 12:49	CAG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod	WG1742899	1	09/20/21 14:24	09/20/21 23:10	AGW	Mt. Juliet, TN

TRIP BLANK-REST-01 L1404404-62 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/15/21 00:00 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742732	1	09/19/21 15:47	09/19/21 15:47	ACG	Mt. Juliet, TN

TRIP BLANK-TMD-01 L1404404-63 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/15/21 00:00 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1743349	1	09/20/21 22:17	09/20/21 22:17	JCP	Mt. Juliet, TN

MW-117 L1404404-64 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 13:50 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1743653	1	09/21/21 11:58	09/21/21 13:31	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745430	1	09/25/21 21:08	09/25/21 21:08	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743625	1	09/21/21 19:44	09/21/21 19:44	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743625	100	09/21/21 19:59	09/21/21 19:59	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742033	1	09/22/21 11:10	09/23/21 04:42	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744685	1	09/23/21 13:26	09/23/21 13:26	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742732	1	09/19/21 20:33	09/19/21 20:33	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1745179	1	09/28/21 09:10	09/29/21 11:21	WCR	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod	WG1742189	1	09/18/21 04:09	09/19/21 14:33	JNJ	Mt. Juliet, TN

MW-118 L1404404-65 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 13:05 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1743653	1	09/21/21 11:58	09/21/21 13:31	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745430	1	09/25/21 21:13	09/25/21 21:13	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743625	1	09/21/21 20:14	09/21/21 20:14	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743625	100	09/21/21 20:29	09/21/21 20:29	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742033	1	09/22/21 11:10	09/23/21 04:45	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744685	1	09/23/21 13:48	09/23/21 13:48	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742732	1	09/19/21 20:53	09/19/21 20:53	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1745179	1	09/28/21 09:10	09/29/21 11:43	WCR	Mt. Juliet, TN

MW-119 L1404404-66 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 12:15 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1743653	1	09/21/21 11:58	09/21/21 13:31	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745430	1	09/25/21 21:14	09/25/21 21:14	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743625	1	09/21/21 20:44	09/21/21 20:44	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743625	100	09/21/21 20:59	09/21/21 20:59	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742033	1	09/22/21 11:10	09/23/21 04:49	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744685	1	09/23/21 14:10	09/23/21 14:10	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742732	1	09/19/21 21:14	09/19/21 21:14	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1745179	1	09/28/21 09:10	09/29/21 12:06	WCR	Mt. Juliet, TN

MW-136 L1404404-67 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 08:55 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1743653	1	09/21/21 11:58	09/21/21 13:31	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745430	5	09/25/21 21:50	09/25/21 21:50	SDL	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG1745026	1	09/23/21 09:26	09/23/21 17:04	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743625	1	09/21/21 21:44	09/21/21 21:44	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743625	100	09/21/21 21:58	09/21/21 21:58	MCG	Mt. Juliet, TN
Mercury by Method 7470A	WG1741778	1	09/22/21 10:26	09/22/21 15:16	BMF	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1742039	1	09/22/21 06:46	09/23/21 04:26	EL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742034	1	09/22/21 11:14	09/22/21 21:48	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744685	1	09/23/21 14:32	09/23/21 14:32	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742732	1	09/19/21 21:34	09/19/21 21:34	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1745179	1	09/28/21 09:10	09/29/21 12:28	WCR	Mt. Juliet, TN

MW-126B L1404404-68 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 10:00 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1743653	1	09/21/21 11:58	09/21/21 13:31	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745430	1	09/25/21 21:59	09/25/21 21:59	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743625	1	09/21/21 22:13	09/21/21 22:13	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743625	100	09/21/21 22:28	09/21/21 22:28	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742034	1	09/22/21 11:14	09/22/21 22:13	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744685	1	09/23/21 14:53	09/23/21 14:53	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742732	1	09/19/21 21:55	09/19/21 21:55	ACG	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1743427	1	09/21/21 08:42	09/21/21 19:50	HMH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1745179	1	09/28/21 09:10	09/29/21 12:51	WCR	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod	WG1742189	1	09/18/21 04:09	09/19/21 14:53	JNJ	Mt. Juliet, TN

MW-57 L1404404-69 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 10:55 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1743653	1	09/21/21 11:58	09/21/21 13:31	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745430	10	09/25/21 21:53	09/25/21 21:53	SDL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743625	1	09/21/21 22:43	09/21/21 22:43	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743625	100	09/21/21 22:58	09/21/21 22:58	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742034	1	09/22/21 11:14	09/22/21 22:17	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744685	1	09/23/21 15:15	09/23/21 15:15	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742740	1	09/19/21 18:41	09/19/21 18:41	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1745179	1	09/28/21 09:10	09/29/21 13:13	WCR	Mt. Juliet, TN

KWB-12A L1404404-70 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 10:00 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1743653	1	09/21/21 11:58	09/21/21 13:31	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745430	5	09/25/21 21:55	09/25/21 21:55	SDL	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG1745026	1	09/23/21 09:26	09/23/21 17:05	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743625	1	09/21/21 23:13	09/21/21 23:13	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743625	100	09/21/21 23:28	09/21/21 23:28	MCG	Mt. Juliet, TN
Mercury by Method 7470A	WG1741778	1	09/22/21 10:26	09/22/21 15:18	BMF	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1742039	1	09/22/21 06:46	09/23/21 04:30	EL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742034	1	09/22/21 11:14	09/22/21 22:21	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744685	1	09/23/21 15:37	09/23/21 15:37	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742740	1	09/19/21 19:03	09/19/21 19:03	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1745179	1	09/28/21 09:10	09/29/21 13:35	WCR	Mt. Juliet, TN

KWB-12B L1404404-71 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 09:05 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1743653	1	09/21/21 11:58	09/21/21 13:31	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745434	10	09/23/21 17:09	09/23/21 17:09	JER	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG1745026	1	09/23/21 09:26	09/23/21 17:06	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743625	1	09/21/21 23:43	09/21/21 23:43	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743625	100	09/21/21 23:58	09/21/21 23:58	MCG	Mt. Juliet, TN
Mercury by Method 7470A	WG1741778	1	09/22/21 10:26	09/22/21 15:20	BMF	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1742039	1	09/22/21 06:46	09/23/21 04:33	EL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742034	1	09/22/21 11:14	09/22/21 22:24	LD	Mt. Juliet, TN

KWB-12B L1404404-71 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 09:05 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744685	1	09/23/21 15:58	09/23/21 15:58	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742740	1	09/19/21 19:24	09/19/21 19:24	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1745179	1	09/28/21 09:10	09/29/21 13:58	WCR	Mt. Juliet, TN

DUP-REST-05 L1404404-72 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 12:00 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1743653	1	09/21/21 11:58	09/21/21 13:31	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745608	5	09/27/21 14:35	09/27/21 14:35	JER	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG1745026	1	09/23/21 09:26	09/23/21 17:07	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743625	1	09/22/21 00:43	09/22/21 00:43	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743625	100	09/22/21 00:58	09/22/21 00:58	MCG	Mt. Juliet, TN
Mercury by Method 7470A	WG1741778	1	09/22/21 10:26	09/22/21 15:26	BMF	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1742039	1	09/22/21 06:46	09/23/21 04:37	EL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742034	1	09/22/21 11:14	09/22/21 22:28	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744685	1	09/23/21 16:20	09/23/21 16:20	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742740	1	09/19/21 19:45	09/19/21 19:45	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1745179	1	09/28/21 09:10	09/29/21 14:20	WCR	Mt. Juliet, TN

EB-REST-05 L1404404-73 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 09:25 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1743653	1	09/21/21 11:58	09/21/21 13:31	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745434	1	09/23/21 17:10	09/23/21 17:10	JER	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG1745026	1	09/23/21 09:26	09/23/21 17:17	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743625	1	09/22/21 01:13	09/22/21 01:13	MCG	Mt. Juliet, TN
Mercury by Method 7470A	WG1741778	1	09/22/21 10:26	09/22/21 15:28	BMF	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1742039	1	09/22/21 06:46	09/23/21 04:40	EL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742034	1	09/22/21 11:14	09/22/21 22:31	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744685	1	09/23/21 12:43	09/23/21 12:43	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742740	1	09/19/21 18:20	09/19/21 18:20	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1745179	1	09/28/21 09:10	09/29/21 14:43	WCR	Mt. Juliet, TN

TRIP BLANK-REST-02 L1404404-74 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 00:00 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742740	1	09/19/21 17:59	09/19/21 17:59	DWR	Mt. Juliet, TN

MW-104 L1404404-75 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 13:15 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1743653	1	09/21/21 11:58	09/21/21 13:31	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745434	50	09/23/21 17:11	09/23/21 17:11	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743625	1	09/22/21 01:58	09/22/21 01:58	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743625	100	09/22/21 02:13	09/22/21 02:13	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742034	1	09/22/21 11:14	09/22/21 22:35	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1747218	1	09/27/21 18:33	09/27/21 18:33	MGF	Mt. Juliet, TN

MW-104 L1404404-75 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 13:15 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1745631	5	09/23/21 20:48	09/23/21 20:48	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1745179	1	09/28/21 09:10	09/29/21 15:05	WCR	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod	WG1742189	1	09/18/21 04:09	09/19/21 15:12	JNJ	Mt. Juliet, TN

MW-64 L1404404-76 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 14:00 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1743653	1	09/21/21 11:58	09/21/21 13:31	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745434	50	09/23/21 17:13	09/23/21 17:13	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743625	1	09/22/21 02:28	09/22/21 02:28	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743625	100	09/22/21 02:42	09/22/21 02:42	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742034	1	09/22/21 11:14	09/22/21 22:55	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744685	50	09/23/21 20:02	09/23/21 20:02	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742740	50	09/19/21 22:36	09/19/21 22:36	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1745364	250	09/23/21 22:23	09/23/21 22:23	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1745180	1	09/28/21 09:12	09/29/21 15:38	DMG	Mt. Juliet, TN

MW-102 L1404404-77 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 15:05 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1743653	1	09/21/21 11:58	09/21/21 13:31	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745434	50	09/23/21 17:14	09/23/21 17:14	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743625	1	09/22/21 03:27	09/22/21 03:27	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743625	100	09/22/21 03:42	09/22/21 03:42	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742034	1	09/22/21 11:14	09/22/21 22:58	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744685	100	09/23/21 20:24	09/23/21 20:24	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742740	50	09/19/21 22:58	09/19/21 22:58	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1745364	200	09/23/21 22:43	09/23/21 22:43	ACG	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1743427	1	09/21/21 08:42	09/21/21 20:03	HMH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1745180	2	09/28/21 09:12	09/30/21 12:12	DMG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod	WG1742189	1	09/18/21 04:09	09/19/21 15:31	JNJ	Mt. Juliet, TN

MW-116 L1404404-78 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 10:25 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1743653	1	09/21/21 11:58	09/21/21 13:31	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745434	1	09/23/21 17:15	09/23/21 17:15	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743625	1	09/22/21 03:57	09/22/21 03:57	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743625	100	09/22/21 04:12	09/22/21 04:12	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742034	1	09/22/21 11:14	09/22/21 23:02	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744685	1	09/23/21 16:41	09/23/21 16:41	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742740	1	09/19/21 20:07	09/19/21 20:07	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1745180	1	09/28/21 09:12	09/29/21 16:30	DMG	Mt. Juliet, TN

MW-46R L1404404-79 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/15/21 10:45 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1743658	1	09/21/21 14:37	09/21/21 16:36	VRP	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745434	1	09/23/21 17:22	09/23/21 17:22	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743625	1	09/22/21 04:27	09/22/21 04:27	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743625	100	09/22/21 04:42	09/22/21 04:42	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742034	1	09/22/21 11:14	09/22/21 23:05	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742740	1	09/19/21 20:28	09/19/21 20:28	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1746820	1	09/27/21 14:15	09/30/21 13:17	CAG	Mt. Juliet, TN

MW-145 L1404404-80 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 11:30 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1743653	1	09/21/21 11:58	09/21/21 13:31	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743971	1	09/22/21 02:36	09/22/21 02:36	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743971	100	09/22/21 02:52	09/22/21 02:52	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742034	1	09/22/21 11:14	09/22/21 23:09	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744685	1	09/23/21 17:03	09/23/21 17:03	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742740	1	09/19/21 20:50	09/19/21 20:50	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1745180	1	09/28/21 09:12	09/29/21 16:56	DMG	Mt. Juliet, TN

MW-146 L1404404-81 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 10:20 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1743653	1	09/21/21 11:58	09/21/21 13:31	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743971	1	09/22/21 03:09	09/22/21 03:09	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743971	100	09/22/21 03:25	09/22/21 03:25	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742034	1	09/22/21 11:14	09/22/21 23:12	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744685	1	09/23/21 17:25	09/23/21 17:25	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742740	1	09/19/21 21:11	09/19/21 21:11	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1745180	1	09/28/21 09:12	09/29/21 17:21	DMG	Mt. Juliet, TN

MW-147 L1404404-82 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 08:55 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1743658	1	09/21/21 14:37	09/21/21 16:36	VRP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743971	1	09/22/21 03:42	09/22/21 03:42	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743971	100	09/22/21 03:58	09/22/21 03:58	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742034	1	09/22/21 11:14	09/22/21 23:16	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744685	1	09/23/21 17:47	09/23/21 17:47	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742740	1	09/19/21 21:32	09/19/21 21:32	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1745180	1	09/28/21 09:12	09/29/21 17:47	DMG	Mt. Juliet, TN

MW-148 L1404404-83 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 09:30 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1743658	1	09/21/21 14:37	09/21/21 16:36	VRP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743971	1	09/22/21 04:15	09/22/21 04:15	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743971	100	09/22/21 04:39	09/22/21 04:39	ELN	Mt. Juliet, TN

MW-148 L1404404-83 GW

Collected by	Collected date/time	Received date/time
Scott Ude/HMI Team	09/14/21 09:30	09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICPMS) by Method 6020	WG1742034	1	09/22/21 11:14	09/22/21 23:32	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744685	1	09/23/21 18:08	09/23/21 18:08	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742740	1	09/19/21 21:54	09/19/21 21:54	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1745180	1	09/28/21 09:12	09/29/21 18:13	DMG	Mt. Juliet, TN

DUP-REST-02 L1404404-84 GW

Collected by	Collected date/time	Received date/time
Scott Ude/HMI Team	09/14/21 13:20	09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1743658	1	09/21/21 14:37	09/21/21 16:36	VRP	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745434	50	09/23/21 17:25	09/23/21 17:25	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743971	1	09/22/21 05:28	09/22/21 05:28	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743971	5	09/22/21 05:45	09/22/21 05:45	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742034	1	09/22/21 11:14	09/22/21 23:36	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744685	50	09/23/21 20:45	09/23/21 20:45	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742740	50	09/19/21 23:19	09/19/21 23:19	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1745364	200	09/23/21 23:04	09/23/21 23:04	ACG	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1743427	1	09/21/21 08:42	09/21/21 20:15	HMH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1745180	2	09/28/21 09:12	09/30/21 11:46	DMG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod	WG1742189	1	09/18/21 04:09	09/19/21 15:50	JNJ	Mt. Juliet, TN

EB-REST-02 L1404404-85 GW

Collected by	Collected date/time	Received date/time
Scott Ude/HMI Team	09/14/21 15:20	09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1743658	1	09/21/21 14:37	09/21/21 16:36	VRP	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745434	1	09/23/21 17:27	09/23/21 17:27	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743971	1	09/22/21 06:01	09/22/21 06:01	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742034	1	09/22/21 11:14	09/22/21 23:39	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744685	1	09/23/21 13:05	09/23/21 13:05	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742742	1	09/19/21 16:46	09/19/21 16:46	BMB	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1743427	1	09/21/21 08:42	09/21/21 20:27	HMH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1745180	1	09/28/21 09:12	09/30/21 10:04	DMG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod	WG1742899	1	09/20/21 14:24	09/20/21 23:29	AGW	Mt. Juliet, TN

DUP-REST-04 L1404404-86 GW

Collected by	Collected date/time	Received date/time
Scott Ude/HMI Team	09/14/21 09:00	09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1743658	1	09/21/21 14:37	09/21/21 16:36	VRP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743971	1	09/22/21 06:34	09/22/21 06:34	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743971	100	09/22/21 06:50	09/22/21 06:50	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742034	1	09/22/21 11:14	09/22/21 23:43	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744965	1	09/24/21 02:08	09/24/21 02:08	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742742	1	09/19/21 17:07	09/19/21 17:07	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1745180	1	09/28/21 09:12	09/29/21 19:30	DMG	Mt. Juliet, TN

EB-REST-04 L1404404-87 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 10:35 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1743658	1	09/21/21 14:37	09/21/21 16:36	VRP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743971	1	09/22/21 07:07	09/22/21 07:07	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742034	1	09/22/21 11:14	09/22/21 23:46	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744965	1	09/24/21 02:30	09/24/21 02:30	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742742	1	09/19/21 17:28	09/19/21 17:28	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1745180	1	09/28/21 09:12	09/29/21 19:56	DMG	Mt. Juliet, TN

TRIP BLANK-REST-03 L1404404-88 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/15/21 00:00 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742742	1	09/19/21 16:26	09/19/21 16:26	BMB	Mt. Juliet, TN

MW-101 L1404404-89 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/15/21 09:25 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1744419	1	09/22/21 15:16	09/22/21 16:04	BRG	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745434	50	09/23/21 17:28	09/23/21 17:28	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743971	1	09/22/21 07:56	09/22/21 07:56	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743971	5	09/22/21 18:00	09/22/21 18:00	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742035	1	09/22/21 11:20	09/23/21 02:31	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744965	1	09/24/21 02:51	09/24/21 02:51	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742742	1	09/19/21 17:48	09/19/21 17:48	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1747420	20	09/28/21 02:31	09/28/21 02:31	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1746820	10	09/27/21 14:15	09/30/21 14:20	DMG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod	WG1742899	1	09/20/21 14:24	09/20/21 23:48	AGW	Mt. Juliet, TN

MW-61 L1404404-90 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 11:55 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1743639	1	09/21/21 11:51	09/21/21 14:21	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745434	50	09/23/21 17:29	09/23/21 17:29	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743971	1	09/22/21 09:02	09/22/21 09:02	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743971	50	09/22/21 18:16	09/22/21 18:16	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742035	1	09/22/21 11:20	09/23/21 02:34	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1747485	20	09/28/21 05:50	09/28/21 05:50	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1747420	50	09/28/21 02:51	09/28/21 02:51	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1745180	1	09/28/21 09:12	09/29/21 20:22	DMG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod	WG1742899	1	09/20/21 14:24	09/21/21 00:08	AGW	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG1743177	1	09/20/21 16:31	09/21/21 02:39	ADF	Mt. Juliet, TN

MW-62 L1404404-91 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 12:40 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1743639	1	09/21/21 11:51	09/21/21 14:21	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745434	50	09/23/21 17:31	09/23/21 17:31	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743971	1	09/22/21 09:34	09/22/21 09:34	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743971	10	09/22/21 18:32	09/22/21 18:32	ELN	Mt. Juliet, TN

MW-62 L1404404-91 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 12:40 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICPMS) by Method 6020	WG1742035	1	09/22/21 11:20	09/23/21 02:38	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744965	100	09/24/21 07:28	09/24/21 07:28	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742742	50	09/19/21 21:54	09/19/21 21:54	BMB	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1743427	1	09/21/21 08:42	09/21/21 20:40	HMH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1745180	2	09/28/21 09:12	09/30/21 11:21	DMG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod	WG1742899	1	09/20/21 14:24	09/21/21 00:27	AGW	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG1743177	5	09/20/21 16:31	09/21/21 05:11	AGW	Mt. Juliet, TN

TEL-4 L1404404-93 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 08:25 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1743639	1	09/21/21 11:51	09/21/21 14:21	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745434	1	09/23/21 17:32	09/23/21 17:32	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743971	1	09/22/21 10:07	09/22/21 10:07	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743971	100	09/22/21 18:49	09/22/21 18:49	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742035	1	09/22/21 11:24	09/23/21 02:41	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744965	1	09/24/21 03:13	09/24/21 03:13	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742742	1	09/19/21 18:29	09/19/21 18:29	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1745180	1	09/28/21 09:12	09/29/21 21:14	DMG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod	WG1742899	1	09/20/21 14:24	09/21/21 00:46	AGW	Mt. Juliet, TN

MW-98 L1404404-94 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 10:55 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1743639	1	09/21/21 11:51	09/21/21 14:21	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745434	50	09/23/21 17:33	09/23/21 17:33	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743971	1	09/22/21 10:40	09/22/21 10:40	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743971	100	09/22/21 19:05	09/22/21 19:05	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742035	1	09/22/21 11:24	09/23/21 02:44	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1747485	20	09/28/21 06:12	09/28/21 06:12	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1747420	50	09/28/21 03:12	09/28/21 03:12	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1745180	1	09/28/21 09:12	09/29/21 21:40	DMG	Mt. Juliet, TN

MW-49 L1404404-95 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/15/21 08:40 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1744419	1	09/22/21 15:16	09/22/21 16:04	BRG	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745434	50	09/23/21 17:38	09/23/21 17:38	JER	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG1745026	50	09/23/21 09:26	09/23/21 17:09	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743971	1	09/22/21 11:13	09/22/21 11:13	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743971	10	09/22/21 19:22	09/22/21 19:22	ELN	Mt. Juliet, TN
Mercury by Method 7470A	WG1741778	1	09/22/21 10:26	09/22/21 15:30	BMF	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1742039	1	09/22/21 06:46	09/23/21 04:43	EL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742035	1	09/22/21 11:24	09/23/21 02:48	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1747485	5	09/28/21 05:28	09/28/21 05:28	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1747420	10	09/28/21 03:32	09/28/21 03:32	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1746820	10	09/27/21 14:15	09/30/21 13:29	DMG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod	WG1742899	1	09/20/21 14:24	09/21/21 01:06	AGW	Mt. Juliet, TN

MW-45 L1404404-96 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/15/21 09:30 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1744419	1	09/22/21 15:16	09/22/21 16:04	BRG	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745434	1	09/23/21 17:39	09/23/21 17:39	JER	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG1745027	1	09/23/21 10:46	09/24/21 12:01	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743971	1	09/22/21 12:19	09/22/21 12:19	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743971	100	09/22/21 19:38	09/22/21 19:38	ELN	Mt. Juliet, TN
Mercury by Method 7470A	WG1741778	1	09/22/21 10:26	09/22/21 15:32	BMF	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1742039	1	09/22/21 06:46	09/23/21 04:46	EL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742035	1	09/22/21 11:24	09/23/21 02:51	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742742	1	09/19/21 18:49	09/19/21 18:49	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1746820	1	09/27/21 14:15	09/30/21 10:55	DMG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod	WG1742899	1	09/20/21 14:24	09/21/21 01:25	AGW	Mt. Juliet, TN

MW-29 L1404404-97 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/15/21 10:25 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1744419	1	09/22/21 15:16	09/22/21 16:04	BRG	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745434	1	09/23/21 17:41	09/23/21 17:41	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743971	1	09/22/21 12:51	09/22/21 12:51	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743971	100	09/22/21 19:54	09/22/21 19:54	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742035	1	09/22/21 11:24	09/23/21 02:55	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744965	1	09/24/21 03:34	09/24/21 03:34	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742742	1	09/19/21 19:10	09/19/21 19:10	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1746820	10	09/27/21 14:15	09/30/21 14:46	DMG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod	WG1742899	1	09/20/21 14:24	09/21/21 01:45	AGW	Mt. Juliet, TN

DUP-TEL-01 L1404404-98 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 09:00 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1743639	1	09/21/21 11:51	09/21/21 14:21	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745434	1	09/23/21 17:42	09/23/21 17:42	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743971	1	09/22/21 13:24	09/22/21 13:24	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743971	100	09/22/21 20:11	09/22/21 20:11	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742035	1	09/22/21 11:24	09/23/21 02:58	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744965	1	09/24/21 03:56	09/24/21 03:56	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742742	1	09/19/21 19:30	09/19/21 19:30	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1745180	1	09/28/21 09:12	09/29/21 22:06	DMG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod	WG1742899	1	09/20/21 14:24	09/21/21 02:04	AGW	Mt. Juliet, TN

EB-TEL-01 L1404404-99 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 08:40 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1743639	1	09/21/21 11:51	09/21/21 14:21	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745434	1	09/23/21 17:43	09/23/21 17:43	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743971	1	09/22/21 21:00	09/22/21 21:00	ELN	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742035	1	09/22/21 11:24	09/23/21 03:02	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744965	1	09/24/21 04:18	09/24/21 04:18	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742742	1	09/19/21 19:51	09/19/21 19:51	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1745180	1	09/28/21 09:12	09/30/21 10:30	DMG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod	WG1742899	1	09/20/21 14:24	09/21/21 02:23	AGW	Mt. Juliet, TN

TRIP BLANK-REST-04 L1404404-100 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/15/21 00:00 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742353	1	09/19/21 02:55	09/19/21 02:55	ACG	Mt. Juliet, TN

TRIP BLANK-TEL-01 L1404404-101 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 00:00 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742353	1	09/19/21 03:15	09/19/21 03:15	ACG	Mt. Juliet, TN

MW-139 L1404404-102 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 16:00 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1743639	1	09/21/21 11:51	09/21/21 14:21	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745422	1	09/24/21 15:35	09/24/21 15:35	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743622	1	09/21/21 11:46	09/21/21 11:46	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743622	100	09/21/21 12:01	09/21/21 12:01	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742035	1	09/22/21 11:20	09/23/21 01:36	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744155	1	09/23/21 08:59	09/23/21 08:59	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742353	1	09/19/21 06:39	09/19/21 06:39	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1743064	1	09/20/21 23:02	09/21/21 16:41	WCR	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod	WG1742189	1	09/18/21 04:09	09/19/21 10:23	JNJ	Mt. Juliet, TN

MW-50 L1404404-103 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 09:40 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1743639	1	09/21/21 11:51	09/21/21 14:21	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745422	100	09/24/21 15:37	09/24/21 15:37	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743622	1	09/21/21 12:17	09/21/21 12:17	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743622	100	09/21/21 12:33	09/21/21 12:33	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742035	1	09/22/21 11:20	09/23/21 01:56	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742353	1	09/19/21 07:00	09/19/21 07:00	ACG	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1742964	1	09/20/21 09:45	09/21/21 05:14	HMH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1743064	1	09/20/21 23:02	09/21/21 17:07	WCR	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod	WG1742189	1	09/18/21 04:09	09/19/21 16:10	JNJ	Mt. Juliet, TN

MW-90 L1404404-104 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 11:00 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1743639	1	09/21/21 11:51	09/21/21 14:21	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745422	20	09/24/21 15:38	09/24/21 15:38	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743622	1	09/21/21 12:49	09/21/21 12:49	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743622	100	09/21/21 13:05	09/21/21 13:05	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742035	1	09/22/21 11:20	09/23/21 02:00	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1745490	1	09/23/21 18:30	09/23/21 18:30	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1743286	10	09/20/21 19:53	09/20/21 19:53	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1745489	10	09/23/21 23:46	09/23/21 23:46	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1743064	1	09/20/21 23:02	09/21/21 17:32	WCR	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod	WG1742189	1	09/18/21 04:09	09/19/21 10:42	JNJ	Mt. Juliet, TN

MW-96 L1404404-105 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 12:00 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1743639	1	09/21/21 11:51	09/21/21 14:21	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745422	10	09/24/21 15:39	09/24/21 15:39	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743622	1	09/21/21 14:24	09/21/21 14:24	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743622	10	09/21/21 15:29	09/21/21 15:29	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742035	1	09/22/21 11:20	09/23/21 02:03	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744681	10	09/23/21 09:59	09/23/21 09:59	MGF	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742353	10	09/19/21 09:22	09/19/21 09:22	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1743286	500	09/20/21 20:13	09/20/21 20:13	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1743064	1	09/20/21 23:02	09/21/21 17:58	WCR	Mt. Juliet, TN

MW-55 L1404404-106 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 14:20 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1743639	1	09/21/21 11:51	09/21/21 14:21	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745422	1	09/24/21 15:40	09/24/21 15:40	JER	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG1745026	1	09/23/21 09:26	09/23/21 16:52	KEG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743622	1	09/21/21 13:20	09/21/21 13:20	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743622	100	09/21/21 13:36	09/21/21 13:36	MCG	Mt. Juliet, TN
Mercury by Method 7470A	WG1741778	1	09/22/21 10:26	09/22/21 15:03	BMF	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1742039	1	09/22/21 06:46	09/23/21 03:48	EL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742035	1	09/22/21 11:20	09/23/21 02:07	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1744681	1	09/23/21 09:16	09/23/21 09:16	MGF	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742353	1	09/19/21 07:20	09/19/21 07:20	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1743286	10	09/20/21 20:33	09/20/21 20:33	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1743064	1	09/20/21 23:02	09/21/21 18:24	WCR	Mt. Juliet, TN

NCL-33 L1404404-107 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 10:30 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1743639	1	09/21/21 11:51	09/21/21 14:21	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745422	1	09/24/21 15:42	09/24/21 15:42	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743622	1	09/21/21 16:01	09/21/21 16:01	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743622	100	09/21/21 16:17	09/21/21 16:17	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742035	1	09/22/21 11:20	09/23/21 02:10	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742363	1	09/18/21 13:05	09/18/21 13:05	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1743064	2	09/20/21 23:02	09/21/21 23:45	LEA	Mt. Juliet, TN

NCL-44 L1404404-108 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 09/14/21 09:50 | Received date/time: 09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1743639	1	09/21/21 11:51	09/21/21 14:21	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745422	1	09/24/21 15:43	09/24/21 15:43	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743622	1	09/21/21 16:33	09/21/21 16:33	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743622	100	09/21/21 16:49	09/21/21 16:49	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742035	1	09/22/21 11:20	09/23/21 02:13	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742363	1	09/18/21 13:25	09/18/21 13:25	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1743797	10	09/21/21 19:18	09/22/21 19:05	WCR	Mt. Juliet, TN

NCL-32 L1404404-109 GW

Collected by	Collected date/time	Received date/time
Scott Ude/HMI Team	09/14/21 09:10	09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1743639	1	09/21/21 11:51	09/21/21 14:21	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745422	1	09/24/21 15:44	09/24/21 15:44	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743622	1	09/21/21 17:36	09/21/21 17:36	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743622	100	09/21/21 17:52	09/21/21 17:52	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742035	1	09/22/21 11:20	09/23/21 02:17	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742363	1	09/18/21 13:46	09/18/21 13:46	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1743797	1	09/21/21 19:18	09/22/21 13:00	WCR	Mt. Juliet, TN

MW-108 L1404404-110 GW

Collected by	Collected date/time	Received date/time
Scott Ude/HMI Team	09/14/21 13:00	09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1743639	1	09/21/21 11:51	09/21/21 14:21	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745422	50	09/24/21 15:46	09/24/21 15:46	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743622	1	09/21/21 18:08	09/21/21 18:08	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743622	100	09/21/21 18:24	09/21/21 18:24	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742035	1	09/22/21 11:20	09/23/21 02:20	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742363	10	09/18/21 17:32	09/18/21 17:32	JCP	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1743427	1	09/21/21 08:42	09/21/21 17:23	HMH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1743797	1	09/21/21 19:18	09/22/21 13:52	WCR	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod	WG1742189	1	09/18/21 04:09	09/19/21 11:01	JNJ	Mt. Juliet, TN

NCL-31 L1404404-111 GW

Collected by	Collected date/time	Received date/time
Scott Ude/HMI Team	09/14/21 11:30	09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1743639	1	09/21/21 11:51	09/21/21 14:21	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745422	1	09/24/21 15:51	09/24/21 15:51	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743622	1	09/21/21 18:40	09/21/21 18:40	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743622	100	09/21/21 18:56	09/21/21 18:56	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742413	1	09/18/21 12:14	09/19/21 11:37	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742363	1	09/18/21 14:07	09/18/21 14:07	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1743797	1	09/21/21 19:18	09/22/21 14:18	WCR	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod	WG1742189	1	09/18/21 04:09	09/19/21 16:29	JNJ	Mt. Juliet, TN

MW-54A L1404404-112 GW

Collected by	Collected date/time	Received date/time
Scott Ude/HMI Team	09/14/21 14:05	09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1743639	1	09/21/21 11:51	09/21/21 14:21	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745422	1	09/24/21 15:52	09/24/21 15:52	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743622	1	09/21/21 19:12	09/21/21 19:12	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743622	100	09/21/21 19:28	09/21/21 19:28	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742413	1	09/18/21 12:14	09/19/21 11:40	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742363	1	09/18/21 14:27	09/18/21 14:27	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1745180	1	09/28/21 09:12	09/29/21 14:47	DMG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod	WG1742189	1	09/18/21 04:09	09/19/21 11:21	JNJ	Mt. Juliet, TN

NCL-49 L1404404-113 GW

Collected by	Collected date/time	Received date/time
Scott Ude/HMI Team	09/14/21 12:40	09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1743639	1	09/21/21 11:51	09/21/21 14:21	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745422	5	09/24/21 15:53	09/24/21 15:53	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743622	1	09/21/21 19:44	09/21/21 19:44	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743622	100	09/21/21 20:00	09/21/21 20:00	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742413	1	09/18/21 12:14	09/19/21 11:44	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742363	1	09/18/21 14:48	09/18/21 14:48	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1743797	1	09/21/21 19:18	09/23/21 13:30	DMG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod	WG1742189	1	09/18/21 04:09	09/19/21 11:40	JNJ	Mt. Juliet, TN

DUP-NCL-01 L1404404-114 GW

Collected by	Collected date/time	Received date/time
Scott Ude/HMI Team	09/14/21 10:00	09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1743639	1	09/21/21 11:51	09/21/21 14:21	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745422	5	09/24/21 15:54	09/24/21 15:54	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743622	1	09/21/21 20:47	09/21/21 20:47	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743622	100	09/21/21 21:03	09/21/21 21:03	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742413	1	09/18/21 12:14	09/19/21 11:47	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742363	1	09/18/21 15:08	09/18/21 15:08	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1743797	1	09/21/21 19:18	09/22/21 15:36	WCR	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod	WG1742189	1	09/18/21 04:09	09/19/21 11:59	JNJ	Mt. Juliet, TN

EB-NCL-01 L1404404-115 GW

Collected by	Collected date/time	Received date/time
Scott Ude/HMI Team	09/14/21 12:55	09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1743639	1	09/21/21 11:51	09/21/21 14:21	MMF	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1745422	1	09/24/21 15:56	09/24/21 15:56	JER	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1743622	1	09/21/21 21:19	09/21/21 21:19	MCG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1742413	1	09/18/21 12:14	09/19/21 11:50	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1742363	1	09/18/21 15:29	09/18/21 15:29	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1743797	1	09/21/21 19:18	09/22/21 16:02	WCR	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod	WG1742189	1	09/18/21 04:09	09/19/21 12:18	JNJ	Mt. Juliet, TN

TRIP BLANK-NCL-01 L1404404-116 GW

Collected by	Collected date/time	Received date/time
Scott Ude/HMI Team	09/14/21 00:00	09/16/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1747354	1	09/28/21 00:05	09/28/21 00:05	ACG	Mt. Juliet, TN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Chris McCord
Project Manager

Report Revision History

Level II Report - Version 1: 10/01/21 21:30

Project Narrative

Revised to add Ca, Mg, Na to two samples.

Sample Delivery Group (SDG) Narrative

pH outside of method requirement.

Lab Sample ID	Project Sample ID	Method
L1404404-42	MW-109	8015D/GRO, 3511/8015
L1404404-46	MW-113	8015D/GRO, 3511/8015
L1404404-58	DUP-REST-01	3511/8015
L1404404-84	DUP-REST-02	3511/8015
L1404404-89	MW-101	3511/8015
L1404404-91	MW-62	3511/8015
L1404404-93	TEL-4	3511/8015

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	7220		50.0	1	09/19/2021 00:24	WG1742557

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.276		0.0500	0.100	1	09/23/2021 15:17	WG1743859

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1330		37.9	100	100	09/21/2021 11:38	WG1743529
Fluoride	3.75		0.0640	0.150	1	09/21/2021 11:06	WG1743529
Sulfate	3010		59.4	500	100	09/21/2021 11:38	WG1743529

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00561		0.000180	0.00200	1	09/23/2021 02:40	WG1742029
Barium	0.0104		0.000381	0.00200	1	09/23/2021 02:40	WG1742029
Calcium	607		0.0936	1.00	1	09/23/2021 02:40	WG1742029
Chromium	U		0.00124	0.00200	1	09/23/2021 02:40	WG1742029
Iron	4.29		0.0281	0.100	1	09/23/2021 02:40	WG1742029
Lead	U		0.000849	0.00200	1	09/23/2021 02:40	WG1742029
Manganese	1.36	O1 V	0.000704	0.00500	1	09/23/2021 02:40	WG1742029
Potassium	2.23		0.108	2.00	1	09/23/2021 02:40	WG1742029
Selenium	0.000527	J	0.000300	0.00200	1	09/23/2021 02:40	WG1742029
Sodium	1300		1.88	10.0	5	09/23/2021 13:08	WG1742029

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0867	J	0.0314	0.100	1	09/24/2021 04:48	WG1745686
(S) a,a,a-Trifluorotoluene(FID)	*96.4*			*78.0-120*		*09/24/2021 04:48*	WG1745686

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	09/19/2021 05:59	WG1742353
Benzene	U		0.0000941	0.00100	1	09/19/2021 05:59	WG1742353
Bromodichloromethane	U		0.000136	0.00100	1	09/19/2021 05:59	WG1742353
Bromoform	U		0.000129	0.00100	1	09/19/2021 05:59	WG1742353
Bromomethane	U		0.000605	0.00500	1	09/19/2021 05:59	WG1742353
n-Butylbenzene	U		0.000157	0.00100	1	09/19/2021 05:59	WG1742353
sec-Butylbenzene	U		0.000125	0.00100	1	09/19/2021 05:59	WG1742353
Carbon disulfide	U		0.0000962	0.00100	1	09/19/2021 05:59	WG1742353
Carbon tetrachloride	U		0.000128	0.00100	1	09/19/2021 05:59	WG1742353
Chlorobenzene	U		0.000116	0.00100	1	09/19/2021 05:59	WG1742353
Chlorodibromomethane	U		0.000140	0.00100	1	09/19/2021 05:59	WG1742353
Chloroethane	U		0.000192	0.00500	1	09/19/2021 05:59	WG1742353
Chloroform	U		0.000111	0.00500	1	09/19/2021 05:59	WG1742353
Chloromethane	U		0.000960	0.00250	1	09/19/2021 05:59	WG1742353
1,2-Dibromoethane	U		0.000126	0.00100	1	09/19/2021 05:59	WG1742353
1,1-Dichloroethane	U		0.000100	0.00100	1	09/19/2021 05:59	WG1742353

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.0000819	0.00100	1	09/19/2021 05:59	WG1742353
1,1-Dichloroethene	U		0.000188	0.00100	1	09/19/2021 05:59	WG1742353
cis-1,2-Dichloroethene	0.000173	B J	0.000126	0.00100	1	09/19/2021 05:59	WG1742353
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	09/19/2021 05:59	WG1742353
1,2-Dichloropropane	U		0.000149	0.00100	1	09/19/2021 05:59	WG1742353
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	09/19/2021 05:59	WG1742353
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	09/19/2021 05:59	WG1742353
Ethylbenzene	U		0.000137	0.00100	1	09/19/2021 05:59	WG1742353
Isopropylbenzene	U		0.000105	0.00100	1	09/19/2021 05:59	WG1742353
p-Isopropyltoluene	U		0.000120	0.00100	1	09/19/2021 05:59	WG1742353
2-Butanone (MEK)	U		0.00119	0.0100	1	09/19/2021 05:59	WG1742353
2-Hexanone	U		0.000787	0.0100	1	09/19/2021 05:59	WG1742353
Methylene Chloride	U		0.000430	0.00500	1	09/19/2021 05:59	WG1742353
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	09/19/2021 05:59	WG1742353
Methyl tert-butyl ether	U		0.000101	0.00100	1	09/19/2021 05:59	WG1742353
Naphthalene	U		0.00100	0.00500	1	09/19/2021 05:59	WG1742353
n-Propylbenzene	U		0.0000993	0.00100	1	09/19/2021 05:59	WG1742353
Styrene	U		0.000118	0.00100	1	09/19/2021 05:59	WG1742353
tert-Butyl alcohol	U		0.00406	0.00500	1	09/19/2021 05:59	WG1742353
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	09/19/2021 05:59	WG1742353
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	09/19/2021 05:59	WG1742353
Tetrachloroethene	U		0.000300	0.00100	1	09/19/2021 05:59	WG1742353
Toluene	U		0.000278	0.00100	1	09/19/2021 05:59	WG1742353
1,1,1-Trichloroethane	U		0.000149	0.00100	1	09/19/2021 05:59	WG1742353
1,1,2-Trichloroethane	U		0.000158	0.00100	1	09/19/2021 05:59	WG1742353
Trichloroethene	U		0.000190	0.00100	1	09/19/2021 05:59	WG1742353
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/19/2021 05:59	WG1742353
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/19/2021 05:59	WG1742353
Vinyl chloride	U		0.000234	0.00100	1	09/19/2021 05:59	WG1742353
o-Xylene	U		0.000174	0.00100	1	09/19/2021 05:59	WG1742353
m&p-Xylene	U		0.000430	0.00200	1	09/19/2021 05:59	WG1742353
Xylenes, Total	U		0.000174	0.00300	1	09/19/2021 05:59	WG1742353
(S) Toluene-d8	*109*			*80.0-120*		*09/19/2021 05:59*	WG1742353
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*09/19/2021 05:59*	WG1742353
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*09/19/2021 05:59*	WG1742353

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.346		0.0247	0.100	1	09/21/2021 12:48	WG1743064
(S) o-Terphenyl	*104*			*31.0-160*		*09/21/2021 12:48*	WG1743064

Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	U		0.0000447	0.000400	1	09/18/2021 15:14	WG1742046
(S) Nitrobenzene-d5	*47.5*			*10.0-120*		*09/18/2021 15:14*	WG1742046

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	5430		50.0	1	09/19/2021 00:24	WG1742557

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.638		0.0500	0.100	1	09/23/2021 15:18	WG1743859

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	987		37.9	100	100	09/21/2021 12:27	WG1743529
Fluoride	4.75		0.0640	0.150	1	09/21/2021 12:11	WG1743529
Sulfate	2290		59.4	500	100	09/21/2021 12:27	WG1743529

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0251		0.000180	0.00200	1	09/23/2021 02:59	WG1742029
Barium	0.0120		0.000381	0.00200	1	09/23/2021 02:59	WG1742029
Calcium	671		0.0936	1.00	1	09/23/2021 02:59	WG1742029
Chromium	U		0.00124	0.00200	1	09/23/2021 02:59	WG1742029
Iron	0.0384	J	0.0281	0.100	1	09/23/2021 02:59	WG1742029
Lead	U		0.000849	0.00200	1	09/23/2021 13:11	WG1742029
Manganese	1.94		0.000704	0.00500	1	09/23/2021 02:59	WG1742029
Potassium	3.06		0.108	2.00	1	09/23/2021 02:59	WG1742029
Selenium	0.0108		0.000300	0.00200	1	09/23/2021 02:59	WG1742029
Sodium	617		0.376	2.00	1	09/23/2021 02:59	WG1742029

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	09/23/2021 06:05	WG1744155
(S) a,a,a-Trifluorotoluene(FID)	*98.9*			*78.0-120*		*09/23/2021 06:05*	WG1744155

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.212		0.0247	0.100	1	09/21/2021 13:14	WG1743064
(S) o-Terphenyl	*97.0*			*31.0-160*		*09/21/2021 13:14*	WG1743064

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	10600		50.0	1	09/19/2021 00:24	WG1742557

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.0500	0.100	1	09/23/2021 15:23	WG1743859

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	1360		37.9	100	100	09/21/2021 13:00	WG1743529
Fluoride	5.54		0.640	1.50	10	09/21/2021 12:44	WG1743529
Sulfate	5100		59.4	500	100	09/21/2021 13:00	WG1743529

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.218		0.000180	0.00200	1	09/23/2021 13:14	WG1742029
Barium	0.0158		0.000381	0.00200	1	09/23/2021 13:14	WG1742029
Calcium	602		0.0936	1.00	1	09/23/2021 13:14	WG1742029
Chromium	0.0103		0.00124	0.00200	1	09/23/2021 13:14	WG1742029
Iron	9.62		0.0281	0.100	1	09/23/2021 13:14	WG1742029
Lead	0.00101	J	0.000849	0.00200	1	09/23/2021 13:14	WG1742029
Manganese	2.24		0.000704	0.00500	1	09/23/2021 13:14	WG1742029
Potassium	8.18		0.108	2.00	1	09/23/2021 13:14	WG1742029
Selenium	0.0112		0.000300	0.00200	1	09/23/2021 13:14	WG1742029
Sodium	1660		1.88	10.0	5	09/23/2021 13:18	WG1742029

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	1.37		0.314	1.00	10	09/23/2021 09:20	WG1744155
(S) a,a,a-Trifluorotoluene(FID)	*97.1*			*78.0-120*		*09/23/2021 09:20*	WG1744155

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) High Fraction	74.6		0.494	2.00	20	09/21/2021 20:08	WG1743064
(S) o-Terphenyl	*0.000*	J7		*31.0-160*		*09/21/2021 20:08*	WG1743064

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	4240		20.0	1	09/19/2021 00:24	WG1742557

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.0500	0.100	1	09/23/2021 15:25	WG1743859

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	1450		37.9	100	100	09/21/2021 14:06	WG1743529
Fluoride	1.74		0.0640	0.150	1	09/21/2021 13:49	WG1743529
Sulfate	2250		59.4	500	100	09/21/2021 14:06	WG1743529

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00393		0.000180	0.00200	1	09/23/2021 03:05	WG1742029
Barium	0.0221		0.000381	0.00200	1	09/23/2021 03:05	WG1742029
Calcium	395		0.0936	1.00	1	09/23/2021 03:05	WG1742029
Chromium	U		0.00124	0.00200	1	09/23/2021 03:05	WG1742029
Iron	5.22		0.0281	0.100	1	09/23/2021 03:05	WG1742029
Lead	U		0.000849	0.00200	1	09/23/2021 13:21	WG1742029
Manganese	1.16		0.000704	0.00500	1	09/23/2021 03:05	WG1742029
Potassium	3.32		0.108	2.00	1	09/23/2021 03:05	WG1742029
Selenium	U		0.000300	0.00200	1	09/23/2021 03:05	WG1742029
Sodium	673		0.376	2.00	1	09/23/2021 03:05	WG1742029

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	09/23/2021 06:27	WG1744155
(S) a,a,a-Trifluorotoluene(FID)	*98.6*			*78.0-120*		*09/23/2021 06:27*	WG1744155

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) High Fraction	0.0810	J	0.0247	0.100	1	09/21/2021 13:40	WG1743064
(S) o-Terphenyl	*99.0*			*31.0-160*		*09/21/2021 13:40*	WG1743064

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	6100		50.0	1	09/19/2021 00:24	WG1742557

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.708		0.0500	0.100	1	09/23/2021 15:26	WG1743859

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	1500		37.9	100	100	09/21/2021 14:39	WG1743529
Fluoride	5.24		0.0640	0.150	1	09/21/2021 14:22	WG1743529
Sulfate	2070		59.4	500	100	09/21/2021 14:39	WG1743529

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00371		0.000180	0.00200	1	09/23/2021 03:09	WG1742029
Barium	0.0155		0.000381	0.00200	1	09/23/2021 03:09	WG1742029
Calcium	615		0.0936	1.00	1	09/23/2021 03:09	WG1742029
Chromium	U		0.00124	0.00200	1	09/23/2021 03:09	WG1742029
Iron	0.318		0.0281	0.100	1	09/23/2021 03:09	WG1742029
Lead	U		0.000849	0.00200	1	09/23/2021 13:24	WG1742029
Manganese	2.88		0.000704	0.00500	1	09/23/2021 03:09	WG1742029
Potassium	5.86		0.108	2.00	1	09/23/2021 03:09	WG1742029
Selenium	0.000333	J	0.000300	0.00200	1	09/23/2021 03:09	WG1742029
Sodium	1180		1.88	10.0	5	09/23/2021 13:27	WG1742029

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	0.0338	J	0.0314	0.100	1	09/23/2021 06:49	WG1744155
(S) a,a,a-Trifluorotoluene(FID)	*97.0*			*78.0-120*		*09/23/2021 06:49*	WG1744155

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) High Fraction	0.255		0.0247	0.100	1	09/21/2021 14:06	WG1743064
(S) o-Terphenyl	*92.0*			*31.0-160*		*09/21/2021 14:06*	WG1743064

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	8640		50.0	1	09/19/2021 00:24	WG1742557

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.0500	0.100	1	09/23/2021 15:27	WG1743859

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	1780		37.9	100	100	09/21/2021 15:11	WG1743529
Fluoride	6.32		0.0640	0.150	1	09/21/2021 14:55	WG1743529
Sulfate	3190		59.4	500	100	09/21/2021 15:11	WG1743529

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.101		0.000180	0.00200	1	09/23/2021 03:12	WG1742029
Barium	0.0151		0.000381	0.00200	1	09/23/2021 03:12	WG1742029
Calcium	607		0.0936	1.00	1	09/23/2021 03:12	WG1742029
Chromium	U		0.00124	0.00200	1	09/23/2021 03:12	WG1742029
Iron	1.49		0.0281	0.100	1	09/23/2021 03:12	WG1742029
Lead	0.00121	J	0.000849	0.00200	1	09/23/2021 13:30	WG1742029
Manganese	2.03		0.000704	0.00500	1	09/23/2021 03:12	WG1742029
Potassium	29.6		0.108	2.00	1	09/23/2021 03:12	WG1742029
Selenium	0.0132		0.000300	0.00200	1	09/23/2021 03:12	WG1742029
Sodium	2100		1.88	10.0	5	09/23/2021 13:34	WG1742029

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	3.56		0.0314	0.100	1	09/23/2021 07:10	WG1744155
(S) a,a,a-Trifluorotoluene(FID)	*97.3*			*78.0-120*		*09/23/2021 07:10*	WG1744155

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) High Fraction	8.38		0.0247	0.100	1	09/22/2021 00:11	WG1743064
(S) o-Terphenyl	*41.1*			*31.0-160*		*09/22/2021 00:11*	WG1743064

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	13100		100	1	09/19/2021 00:24	WG1742557

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.0500	0.100	1	09/23/2021 15:28	WG1743859

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	3360		37.9	100	100	09/21/2021 15:44	WG1743529
Fluoride	1.93		0.0640	0.150	1	09/21/2021 15:28	WG1743529
Sulfate	4730		59.4	500	100	09/21/2021 15:44	WG1743529

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00921		0.000180	0.00200	1	09/23/2021 03:15	WG1742029
Barium	0.0322		0.000381	0.00200	1	09/23/2021 03:15	WG1742029
Calcium	637		0.0936	1.00	1	09/23/2021 03:15	WG1742029
Chromium	0.00135	J	0.00124	0.00200	1	09/23/2021 03:15	WG1742029
Iron	0.375		0.0281	0.100	1	09/23/2021 03:15	WG1742029
Lead	U		0.000849	0.00200	1	09/23/2021 13:58	WG1742029
Manganese	1.17		0.000704	0.00500	1	09/23/2021 03:15	WG1742029
Potassium	4.43		0.108	2.00	1	09/23/2021 03:15	WG1742029
Selenium	0.00287		0.000300	0.00200	1	09/23/2021 03:15	WG1742029
Sodium	3220		3.76	20.0	10	09/23/2021 14:02	WG1742029

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	0.0423	J	0.0314	0.100	1	09/23/2021 07:32	WG1744155
(S) a,a,a-Trifluorotoluene(FID)	*96.1*			*78.0-120*		*09/23/2021 07:32*	WG1744155

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) High Fraction	0.181		0.0247	0.100	1	09/21/2021 14:58	WG1743064
(S) o-Terphenyl	*104*			*31.0-160*		*09/21/2021 14:58*	WG1743064

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	12000		100	1	09/19/2021 00:24	WG1742557

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0500	0.100	1	09/23/2021 15:30	WG1743859

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	4590		37.9	100	100	09/21/2021 16:17	WG1743529
Fluoride	2.06		0.0640	0.150	1	09/21/2021 16:01	WG1743529
Sulfate	2720		59.4	500	100	09/21/2021 16:17	WG1743529

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00808		0.000180	0.00200	1	09/23/2021 03:18	WG1742029
Barium	0.0255		0.000381	0.00200	1	09/23/2021 03:18	WG1742029
Calcium	979		0.0936	1.00	1	09/23/2021 03:18	WG1742029
Chromium	U		0.00124	0.00200	1	09/23/2021 03:18	WG1742029
Iron	3.86		0.0281	0.100	1	09/23/2021 03:18	WG1742029
Lead	U		0.000849	0.00200	1	09/23/2021 14:05	WG1742029
Manganese	1.92		0.000704	0.00500	1	09/23/2021 03:18	WG1742029
Potassium	15.8		0.108	2.00	1	09/23/2021 03:18	WG1742029
Selenium	0.000818	J	0.000300	0.00200	1	09/23/2021 03:18	WG1742029
Sodium	2910		3.76	20.0	10	09/23/2021 14:08	WG1742029

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.361		0.0314	0.100	1	09/23/2021 07:54	WG1744155
(S) a,a,a-Trifluorotoluene(FID)	*97.2*			*78.0-120*		*09/23/2021 07:54*	WG1744155

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.677		0.0247	0.100	1	09/21/2021 15:24	WG1743064
(S) o-Terphenyl	*103*			*31.0-160*		*09/21/2021 15:24*	WG1743064

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	10600		100	1	09/19/2021 00:24	WG1742557

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.0500	0.100	1	09/23/2021 15:31	WG1743859

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	2650		37.9	100	100	09/21/2021 17:25	WG1743529
Fluoride	2.70		0.0640	0.150	1	09/21/2021 17:09	WG1743529
Sulfate	3700		59.4	500	100	09/21/2021 17:25	WG1743529

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0915		0.000180	0.00200	1	09/23/2021 03:22	WG1742029
Barium	0.0155		0.000381	0.00200	1	09/23/2021 03:22	WG1742029
Calcium	639		0.0936	1.00	1	09/23/2021 03:22	WG1742029
Chromium	U		0.00124	0.00200	1	09/23/2021 03:22	WG1742029
Iron	11.8		0.0281	0.100	1	09/23/2021 03:22	WG1742029
Lead	U		0.000849	0.00200	1	09/23/2021 14:11	WG1742029
Manganese	3.07		0.000704	0.00500	1	09/23/2021 03:22	WG1742029
Potassium	5.57		0.108	2.00	1	09/23/2021 03:22	WG1742029
Selenium	0.00163	J	0.000300	0.00200	1	09/23/2021 03:22	WG1742029
Sodium	2650		3.76	20.0	10	09/23/2021 14:15	WG1742029

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	1.72		0.0314	0.100	1	09/23/2021 08:15	WG1744155
(S) a,a,a-Trifluorotoluene(FID)	*95.9*			*78.0-120*		*09/23/2021 08:15*	WG1744155

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) High Fraction	4.00		0.0247	0.100	1	09/21/2021 15:49	WG1743064
(S) o-Terphenyl	*106*			*31.0-160*		*09/21/2021 15:49*	WG1743064

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2350		10.0	1	09/19/2021 00:24	WG1742557

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.813		0.0500	0.100	1	09/23/2021 15:32	WG1743859

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	136		3.79	10.0	10	09/21/2021 18:31	WG1743529
Fluoride	0.710		0.0640	0.150	1	09/21/2021 17:42	WG1743529
Sulfate	877		5.94	50.0	10	09/21/2021 18:31	WG1743529

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00432		0.000180	0.00200	1	09/23/2021 03:25	WG1742029
Barium	0.0318		0.000381	0.00200	1	09/23/2021 03:25	WG1742029
Calcium	278		0.0936	1.00	1	09/23/2021 03:25	WG1742029
Chromium	0.00557		0.00124	0.00200	1	09/23/2021 03:25	WG1742029
Iron	3.73		0.0281	0.100	1	09/23/2021 03:25	WG1742029
Lead	0.00438		0.000849	0.00200	1	09/23/2021 14:18	WG1742029
Manganese	0.138		0.000704	0.00500	1	09/23/2021 03:25	WG1742029
Potassium	1.44	J	0.108	2.00	1	09/23/2021 03:25	WG1742029
Selenium	0.00421		0.000300	0.00200	1	09/23/2021 03:25	WG1742029
Sodium	271		0.376	2.00	1	09/23/2021 03:25	WG1742029

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0326	J	0.0314	0.100	1	09/23/2021 08:37	WG1744155
(S) a,a,a-Trifluorotoluene(FID)	*98.8*			*78.0-120*		*09/23/2021 08:37*	WG1744155

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	09/19/2021 06:19	WG1742353
Benzene	U		0.0000941	0.00100	1	09/19/2021 06:19	WG1742353
Bromodichloromethane	U		0.000136	0.00100	1	09/19/2021 06:19	WG1742353
Bromoform	U		0.000129	0.00100	1	09/19/2021 06:19	WG1742353
Bromomethane	U		0.000605	0.00500	1	09/19/2021 06:19	WG1742353
n-Butylbenzene	U		0.000157	0.00100	1	09/19/2021 06:19	WG1742353
sec-Butylbenzene	U		0.000125	0.00100	1	09/19/2021 06:19	WG1742353
Carbon disulfide	U		0.0000962	0.00100	1	09/19/2021 06:19	WG1742353
Carbon tetrachloride	U		0.000128	0.00100	1	09/19/2021 06:19	WG1742353
Chlorobenzene	U		0.000116	0.00100	1	09/19/2021 06:19	WG1742353
Chlorodibromomethane	U		0.000140	0.00100	1	09/19/2021 06:19	WG1742353
Chloroethane	U		0.000192	0.00500	1	09/19/2021 06:19	WG1742353
Chloroform	U		0.000111	0.00500	1	09/19/2021 06:19	WG1742353
Chloromethane	U		0.000960	0.00250	1	09/19/2021 06:19	WG1742353
1,2-Dibromoethane	U		0.000126	0.00100	1	09/19/2021 06:19	WG1742353
1,1-Dichloroethane	U		0.000100	0.00100	1	09/19/2021 06:19	WG1742353

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.0000819	0.00100	1	09/19/2021 06:19	WG1742353
1,1-Dichloroethene	U		0.000188	0.00100	1	09/19/2021 06:19	WG1742353
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	09/19/2021 06:19	WG1742353
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	09/19/2021 06:19	WG1742353
1,2-Dichloropropane	U		0.000149	0.00100	1	09/19/2021 06:19	WG1742353
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	09/19/2021 06:19	WG1742353
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	09/19/2021 06:19	WG1742353
Ethylbenzene	U		0.000137	0.00100	1	09/19/2021 06:19	WG1742353
Isopropylbenzene	U		0.000105	0.00100	1	09/19/2021 06:19	WG1742353
p-Isopropyltoluene	U		0.000120	0.00100	1	09/19/2021 06:19	WG1742353
2-Butanone (MEK)	U		0.00119	0.0100	1	09/19/2021 06:19	WG1742353
2-Hexanone	U		0.000787	0.0100	1	09/19/2021 06:19	WG1742353
Methylene Chloride	U		0.000430	0.00500	1	09/19/2021 06:19	WG1742353
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	09/19/2021 06:19	WG1742353
Methyl tert-butyl ether	0.00205		0.000101	0.00100	1	09/19/2021 06:19	WG1742353
Naphthalene	U		0.00100	0.00500	1	09/19/2021 06:19	WG1742353
n-Propylbenzene	U		0.0000993	0.00100	1	09/19/2021 06:19	WG1742353
Styrene	U		0.000118	0.00100	1	09/19/2021 06:19	WG1742353
tert-Butyl alcohol	U		0.00406	0.00500	1	09/19/2021 06:19	WG1742353
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	09/19/2021 06:19	WG1742353
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	09/19/2021 06:19	WG1742353
Tetrachloroethene	U		0.000300	0.00100	1	09/19/2021 06:19	WG1742353
Toluene	U		0.000278	0.00100	1	09/19/2021 06:19	WG1742353
1,1,1-Trichloroethane	U		0.000149	0.00100	1	09/19/2021 06:19	WG1742353
1,1,2-Trichloroethane	U		0.000158	0.00100	1	09/19/2021 06:19	WG1742353
Trichloroethene	U		0.000190	0.00100	1	09/19/2021 06:19	WG1742353
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/19/2021 06:19	WG1742353
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/19/2021 06:19	WG1742353
Vinyl chloride	U		0.000234	0.00100	1	09/19/2021 06:19	WG1742353
o-Xylene	U		0.000174	0.00100	1	09/19/2021 06:19	WG1742353
m&p-Xylene	U		0.000430	0.00200	1	09/19/2021 06:19	WG1742353
Xylenes, Total	U		0.000174	0.00300	1	09/19/2021 06:19	WG1742353
(S) Toluene-d8	*108*			*80.0-120*		*09/19/2021 06:19*	WG1742353
(S) 4-Bromofluorobenzene	*102*			*77.0-126*		*09/19/2021 06:19*	WG1742353
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*09/19/2021 06:19*	WG1742353

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.387		0.0247	0.100	1	09/21/2021 16:15	WG1743064
(S) o-Terphenyl	*47.1*			*31.0-160*		*09/21/2021 16:15*	WG1743064

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	15.0		10.0	1	09/19/2021 00:24	WG1742557

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0500	0.100	1	09/23/2021 15:33	WG1743859

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	U		0.379	1.00	1	09/21/2021 18:47	WG1743529
Fluoride	U		0.0640	0.150	1	09/21/2021 18:47	WG1743529
Sulfate	0.702	J P1	0.594	5.00	1	09/21/2021 18:47	WG1743529

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	U		0.000180	0.00200	1	09/23/2021 03:28	WG1742029
Barium	0.000452	J	0.000381	0.00200	1	09/23/2021 03:28	WG1742029
Calcium	0.210	J	0.0936	1.00	1	09/23/2021 03:28	WG1742029
Chromium	U		0.00124	0.00200	1	09/23/2021 03:28	WG1742029
Iron	U		0.0281	0.100	1	09/23/2021 03:28	WG1742029
Lead	U		0.000849	0.00200	1	09/23/2021 14:21	WG1742029
Manganese	U		0.000704	0.00500	1	09/23/2021 03:28	WG1742029
Potassium	U		0.108	2.00	1	09/23/2021 03:28	WG1742029
Selenium	U		0.000300	0.00200	1	09/23/2021 03:28	WG1742029
Sodium	0.965	B J	0.376	2.00	1	09/23/2021 03:28	WG1742029

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	09/23/2021 01:16	WG1744164
(S) a,a,a-Trifluorotoluene(FID)	*99.6*			*78.0-120*		*09/23/2021 01:16*	WG1744164

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0512	B J	0.0247	0.100	1	09/22/2021 13:26	WG1743797
(S) o-Terphenyl	*62.1*			*31.0-160*		*09/22/2021 13:26*	WG1743797

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	ND		10.0	1	09/19/2021 02:55	WG1742560

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0500	0.100	1	09/23/2021 15:35	WG1743859

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	0.696	J	0.379	1.00	1	09/21/2021 19:20	WG1743529
Fluoride	U		0.0640	0.150	1	09/21/2021 19:20	WG1743529
Sulfate	U		0.594	5.00	1	09/21/2021 19:20	WG1743529

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	U		0.000180	0.00200	1	09/23/2021 03:38	WG1742029
Barium	U		0.000381	0.00200	1	09/23/2021 03:38	WG1742029
Calcium	0.123	J	0.0936	1.00	1	09/23/2021 14:24	WG1742029
Chromium	U		0.00124	0.00200	1	09/23/2021 03:38	WG1742029
Iron	U		0.0281	0.100	1	09/23/2021 03:38	WG1742029
Lead	U		0.000849	0.00200	1	09/23/2021 14:24	WG1742029
Manganese	U		0.000704	0.00500	1	09/23/2021 03:38	WG1742029
Potassium	U		0.108	2.00	1	09/23/2021 14:24	WG1742029
Selenium	U		0.000300	0.00200	1	09/23/2021 03:38	WG1742029
Sodium	0.803	B J	0.376	2.00	1	09/23/2021 14:24	WG1742029

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	09/23/2021 01:38	WG1744164
(S) a,a,a-Trifluorotoluene(FID)	*99.6*			*78.0-120*		*09/23/2021 01:38*	WG1744164

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0529	B J	0.0247	0.100	1	09/22/2021 16:28	WG1743797
(S) o-Terphenyl	*38.2*			*31.0-160*		*09/22/2021 16:28*	WG1743797

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Collected date/time: 09/14/21 00:00
L1404404

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	09/18/2021 12:03	WG1742363
Benzene	U		0.0000941	0.00100	1	09/18/2021 12:03	WG1742363
Bromodichloromethane	U		0.000136	0.00100	1	09/18/2021 12:03	WG1742363
Bromoform	U		0.000129	0.00100	1	09/18/2021 12:03	WG1742363
Bromomethane	U		0.000605	0.00500	1	09/18/2021 12:03	WG1742363
n-Butylbenzene	U		0.000157	0.00100	1	09/18/2021 12:03	WG1742363
sec-Butylbenzene	U		0.000125	0.00100	1	09/18/2021 12:03	WG1742363
Carbon disulfide	U		0.0000962	0.00100	1	09/18/2021 12:03	WG1742363
Carbon tetrachloride	U		0.000128	0.00100	1	09/18/2021 12:03	WG1742363
Chlorobenzene	U		0.000116	0.00100	1	09/18/2021 12:03	WG1742363
Chlorodibromomethane	U		0.000140	0.00100	1	09/18/2021 12:03	WG1742363
Chloroethane	U		0.000192	0.00500	1	09/18/2021 12:03	WG1742363
Chloroform	U		0.000111	0.00500	1	09/18/2021 12:03	WG1742363
Chloromethane	U		0.000960	0.00250	1	09/18/2021 12:03	WG1742363
1,2-Dibromoethane	U		0.000126	0.00100	1	09/18/2021 12:03	WG1742363
1,1-Dichloroethane	U		0.000100	0.00100	1	09/18/2021 12:03	WG1742363
1,2-Dichloroethane	U		0.0000819	0.00100	1	09/18/2021 12:03	WG1742363
1,1-Dichloroethene	U		0.000188	0.00100	1	09/18/2021 12:03	WG1742363
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	09/18/2021 12:03	WG1742363
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	09/18/2021 12:03	WG1742363
1,2-Dichloropropane	U		0.000149	0.00100	1	09/18/2021 12:03	WG1742363
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	09/18/2021 12:03	WG1742363
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	09/18/2021 12:03	WG1742363
Ethylbenzene	U		0.000137	0.00100	1	09/18/2021 12:03	WG1742363
Isopropylbenzene	U		0.000105	0.00100	1	09/18/2021 12:03	WG1742363
p-Isopropyltoluene	U		0.000120	0.00100	1	09/18/2021 12:03	WG1742363
2-Butanone (MEK)	U		0.00119	0.0100	1	09/18/2021 12:03	WG1742363
2-Hexanone	U		0.000787	0.0100	1	09/18/2021 12:03	WG1742363
Methylene Chloride	U		0.000430	0.00500	1	09/18/2021 12:03	WG1742363
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	09/18/2021 12:03	WG1742363
Methyl tert-butyl ether	U		0.000101	0.00100	1	09/18/2021 12:03	WG1742363
Naphthalene	U		0.00100	0.00500	1	09/18/2021 12:03	WG1742363
n-Propylbenzene	U		0.0000993	0.00100	1	09/18/2021 12:03	WG1742363
Styrene	U		0.000118	0.00100	1	09/18/2021 12:03	WG1742363
tert-Butyl alcohol	U		0.00406	0.00500	1	09/18/2021 12:03	WG1742363
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	09/18/2021 12:03	WG1742363
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	09/18/2021 12:03	WG1742363
Tetrachloroethene	U		0.000300	0.00100	1	09/18/2021 12:03	WG1742363
Toluene	U		0.000278	0.00100	1	09/18/2021 12:03	WG1742363
1,1,1-Trichloroethane	U		0.000149	0.00100	1	09/18/2021 12:03	WG1742363
1,1,2-Trichloroethane	U		0.000158	0.00100	1	09/18/2021 12:03	WG1742363
Trichloroethene	U		0.000190	0.00100	1	09/18/2021 12:03	WG1742363
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/18/2021 12:03	WG1742363
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/18/2021 12:03	WG1742363
Vinyl chloride	U		0.000234	0.00100	1	09/18/2021 12:03	WG1742363
o-Xylene	U		0.000174	0.00100	1	09/18/2021 12:03	WG1742363
m&p-Xylene	U		0.000430	0.00200	1	09/18/2021 12:03	WG1742363
Xylenes, Total	U		0.000174	0.00300	1	09/18/2021 12:03	WG1742363
(S) Toluene-d8	*103*			*80.0-120*		*09/18/2021 12:03*	WG1742363
(S) 4-Bromofluorobenzene	*97.0*			*77.0-126*		*09/18/2021 12:03*	WG1742363
(S) 1,2-Dichloroethane-d4	*92.8*			*70.0-130*		*09/18/2021 12:03*	WG1742363

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	5420		50.0	1	09/19/2021 02:55	WG1742560

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0500	0.100	1	09/23/2021 15:40	WG1743859

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1130		37.9	100	100	09/21/2021 20:42	WG1743529
Fluoride	2.94		0.0640	0.150	1	09/21/2021 20:26	WG1743529
Sulfate	1940		59.4	500	100	09/21/2021 20:42	WG1743529

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0325		0.000180	0.00200	1	09/23/2021 03:41	WG1742029
Barium	0.0135		0.000381	0.00200	1	09/23/2021 03:41	WG1742029
Calcium	490		0.0936	1.00	1	09/23/2021 03:41	WG1742029
Chromium	U		0.00124	0.00200	1	09/23/2021 03:41	WG1742029
Iron	3.27		0.0281	0.100	1	09/23/2021 03:41	WG1742029
Lead	U		0.000849	0.00200	1	09/23/2021 14:28	WG1742029
Manganese	1.15		0.000704	0.00500	1	09/23/2021 03:41	WG1742029
Potassium	26.4		0.108	2.00	1	09/23/2021 03:41	WG1742029
Selenium	0.00192	J	0.000300	0.00200	1	09/23/2021 03:41	WG1742029
Sodium	940		0.376	2.00	1	09/23/2021 03:41	WG1742029

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.790	J	0.314	1.00	10	09/23/2021 07:29	WG1744164
(S) a,a,a-Trifluorotoluene(FID)	*102*			*78.0-120*		*09/23/2021 07:29*	WG1744164

Sample Narrative:

L1404404-14 WG1744164: Lowest possible dilution due to sample foaming.

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	11.1		0.247	1.00	10	09/22/2021 19:31	WG1743797
(S) o-Terphenyl	*94.7*			*31.0-160*		*09/22/2021 19:31*	WG1743797

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	5720		50.0	1	09/19/2021 02:55	WG1742560

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0500	0.100	1	09/23/2021 15:41	WG1743859

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1400		37.9	100	100	09/21/2021 21:15	WG1743529
Fluoride	7.43		0.0640	0.150	1	09/21/2021 20:59	WG1743529
Sulfate	1910		59.4	500	100	09/21/2021 21:15	WG1743529

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.372		0.000180	0.00200	1	09/23/2021 03:44	WG1742029
Barium	0.0142		0.000381	0.00200	1	09/23/2021 03:44	WG1742029
Calcium	381		0.0936	1.00	1	09/23/2021 03:44	WG1742029
Chromium	0.00140	J	0.00124	0.00200	1	09/23/2021 03:44	WG1742029
Iron	7.31		0.0281	0.100	1	09/23/2021 03:44	WG1742029
Lead	U		0.000849	0.00200	1	09/23/2021 14:52	WG1742029
Manganese	1.11		0.000704	0.00500	1	09/23/2021 03:44	WG1742029
Potassium	18.2		0.108	2.00	1	09/23/2021 03:44	WG1742029
Selenium	0.00209		0.000300	0.00200	1	09/23/2021 03:44	WG1742029
Sodium	1460		1.88	10.0	5	09/23/2021 14:55	WG1742029

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	2.89		0.314	1.00	10	09/23/2021 07:51	WG1744164
(S) a,a,a-Trifluorotoluene(FID)	*102*			*78.0-120*		*09/23/2021 07:51*	WG1744164

Sample Narrative:

L1404404-15 WG1744164: Lowest possible dilution due to sample foaming.

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	13.3		0.247	1.00	10	09/22/2021 19:57	WG1743797
(S) o-Terphenyl	*95.3*			*31.0-160*		*09/22/2021 19:57*	WG1743797

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	8160		50.0	1	09/19/2021 02:55	WG1742560

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	21.4		0.500	1.00	10	09/23/2021 15:42	WG1743859

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	126		37.9	100	100	09/21/2021 21:48	WG1743529
Fluoride	5.11		0.0640	0.150	1	09/21/2021 21:31	WG1743529
Sulfate	4840		59.4	500	100	09/21/2021 21:48	WG1743529

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0456		0.000180	0.00200	1	09/23/2021 14:59	WG1742029
Barium	0.0164		0.000381	0.00200	1	09/23/2021 14:59	WG1742029
Calcium	552		0.0936	1.00	1	09/23/2021 14:59	WG1742029
Chromium	0.00337		0.00124	0.00200	1	09/23/2021 14:59	WG1742029
Iron	0.192		0.0281	0.100	1	09/23/2021 14:59	WG1742029
Lead	U		0.000849	0.00200	1	09/23/2021 14:59	WG1742029
Manganese	0.0963		0.000704	0.00500	1	09/23/2021 14:59	WG1742029
Potassium	94.1		0.108	2.00	1	09/23/2021 14:59	WG1742029
Selenium	0.0111		0.000300	0.00200	1	09/23/2021 14:59	WG1742029
Sodium	220		0.376	2.00	1	09/23/2021 14:59	WG1742029

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.288		0.0314	0.100	1	09/23/2021 02:22	WG1744164
(S) a,a,a-Trifluorotoluene(FID)	*98.1*			*78.0-120*		*09/23/2021 02:22*	WG1744164

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	23.0		0.247	1.00	10	09/22/2021 20:23	WG1743797
(S) o-Terphenyl	*91.1*			*31.0-160*		*09/22/2021 20:23*	WG1743797

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	6070		50.0	1	09/19/2021 02:55	WG1742560

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	1.45		0.0500	0.100	1	09/23/2021 15:44	WG1743859

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	1510		37.9	100	100	09/21/2021 22:21	WG1743529
Fluoride	1.80		0.0640	0.150	1	09/21/2021 22:04	WG1743529
Sulfate	2300		59.4	500	100	09/21/2021 22:21	WG1743529

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0275		0.000180	0.00200	1	09/23/2021 03:51	WG1742029
Barium	0.0150		0.000381	0.00200	1	09/23/2021 03:51	WG1742029
Calcium	680		0.0936	1.00	1	09/23/2021 03:51	WG1742029
Chromium	U		0.00124	0.00200	1	09/23/2021 03:51	WG1742029
Iron	0.0896	J	0.0281	0.100	1	09/23/2021 03:51	WG1742029
Lead	U		0.000849	0.00200	1	09/23/2021 15:02	WG1742029
Manganese	0.764		0.000704	0.00500	1	09/23/2021 03:51	WG1742029
Potassium	5.14		0.108	2.00	1	09/23/2021 03:51	WG1742029
Selenium	0.0167		0.000300	0.00200	1	09/23/2021 03:51	WG1742029
Sodium	897		0.376	2.00	1	09/23/2021 03:51	WG1742029

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	0.242		0.0314	0.100	1	09/23/2021 02:44	WG1744164
(S) a,a,a-Trifluorotoluene(FID)	*98.6*			*78.0-120*		*09/23/2021 02:44*	WG1744164

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) High Fraction	6.28		0.247	1.00	10	09/22/2021 18:39	WG1743797
(S) o-Terphenyl	*85.3*			*31.0-160*		*09/22/2021 18:39*	WG1743797

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00750		0.000180	0.00200	1	09/23/2021 03:54	WG1742029
Barium	0.0103		0.000381	0.00200	1	09/23/2021 03:54	WG1742029
Chromium	U		0.00124	0.00200	1	09/23/2021 03:54	WG1742029
Iron	0.0347	J	0.0281	0.100	1	09/23/2021 03:54	WG1742029
Lead	U		0.000849	0.00200	1	09/23/2021 15:05	WG1742029
Manganese	0.982		0.000704	0.00500	1	09/23/2021 03:54	WG1742029
Selenium	U		0.000300	0.00200	1	09/23/2021 03:54	WG1742029

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0602	J	0.0314	0.100	1	09/23/2021 03:06	WG1744164
(S) a,a,a-Trifluorotoluene(FID)	*99.6*			*78.0-120*		*09/23/2021 03:06*	WG1744164

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.421		0.0247	0.100	1	09/22/2021 16:54	WG1743797
(S) o-Terphenyl	*81.6*			*31.0-160*		*09/22/2021 16:54*	WG1743797

MW-22A
Collected date/time: 09/14/21 13:00
L1404404

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	29300		1000	1	09/19/2021 02:55	WG1742560

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	1.76		0.0500	0.100	1	09/23/2021 15:45	WG1743859

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	12200		190	500	500	09/22/2021 17:44	WG1743529
Fluoride	0.447		0.0640	0.150	1	09/21/2021 22:37	WG1743529
Sulfate	6680		59.4	500	100	09/21/2021 22:53	WG1743529

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0335		0.000180	0.00200	1	09/23/2021 03:57	WG1742029
Barium	0.0268		0.000381	0.00200	1	09/23/2021 03:57	WG1742029
Calcium	947		0.0936	1.00	1	09/23/2021 03:57	WG1742029
Chromium	U		0.00124	0.00200	1	09/23/2021 03:57	WG1742029
Iron	0.195		0.0281	0.100	1	09/23/2021 03:57	WG1742029
Lead	U		0.000849	0.00200	1	09/23/2021 15:08	WG1742029
Manganese	0.849		0.000704	0.00500	1	09/23/2021 03:57	WG1742029
Potassium	8.27		0.108	2.00	1	09/23/2021 03:57	WG1742029
Selenium	0.0279		0.000300	0.00200	1	09/23/2021 03:57	WG1742029
Sodium	7360		3.76	20.0	10	09/23/2021 15:12	WG1742029

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.539		0.0314	0.100	1	09/23/2021 03:28	WG1744164
(S) a,a,a-Trifluorotoluene(FID)	*97.9*			*78.0-120*		*09/23/2021 03:28*	WG1744164

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	1.16		0.0247	0.100	1	09/22/2021 17:20	WG1743797
(S) o-Terphenyl	*80.5*			*31.0-160*		*09/22/2021 17:20*	WG1743797

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	6630		50.0	1	09/19/2021 02:55	WG1742560

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0500	0.100	1	09/23/2021 15:47	WG1743859

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1640		37.9	100	100	09/21/2021 23:59	WG1743529
Fluoride	1.11		0.0640	0.150	1	09/21/2021 23:43	WG1743529
Sulfate	2270		59.4	500	100	09/21/2021 23:59	WG1743529

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0194		0.000180	0.00200	1	09/23/2021 04:01	WG1742029
Barium	0.0184		0.000381	0.00200	1	09/23/2021 04:01	WG1742029
Calcium	612		0.0936	1.00	1	09/23/2021 04:01	WG1742029
Chromium	U		0.00124	0.00200	1	09/23/2021 04:01	WG1742029
Iron	0.809		0.0281	0.100	1	09/23/2021 04:01	WG1742029
Lead	U		0.000849	0.00200	1	09/23/2021 15:15	WG1742029
Manganese	2.45		0.000704	0.00500	1	09/23/2021 04:01	WG1742029
Potassium	3.22		0.108	2.00	1	09/23/2021 04:01	WG1742029
Selenium	0.000515	J	0.000300	0.00200	1	09/23/2021 04:01	WG1742029
Sodium	1330		1.88	10.0	5	09/23/2021 15:18	WG1742029

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.849		0.0314	0.100	1	09/23/2021 03:50	WG1744164
(S) a,a,a-Trifluorotoluene(FID)	*99.9*			*78.0-120*		*09/23/2021 03:50*	WG1744164

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	1.81		0.0247	0.100	1	09/22/2021 17:46	WG1743797
(S) o-Terphenyl	*86.3*			*31.0-160*		*09/22/2021 17:46*	WG1743797

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	5540		50.0	1	09/19/2021 02:55	WG1742560

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0500	0.100	1	09/24/2021 16:14	WG1745429

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1350		37.9	100	100	09/22/2021 00:32	WG1743529
Fluoride	0.968		0.0640	0.150	1	09/22/2021 00:15	WG1743529
Sulfate	1820		59.4	500	100	09/22/2021 00:32	WG1743529

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0182		0.000180	0.00200	1	09/23/2021 04:04	WG1742029
Barium	0.0305		0.000381	0.00200	1	09/23/2021 04:04	WG1742029
Calcium	554		0.0936	1.00	1	09/23/2021 04:04	WG1742029
Chromium	U		0.00124	0.00200	1	09/23/2021 04:04	WG1742029
Iron	0.0900	J	0.0281	0.100	1	09/23/2021 04:04	WG1742029
Lead	U		0.000849	0.00200	1	09/23/2021 15:21	WG1742029
Manganese	3.44		0.000704	0.00500	1	09/23/2021 04:04	WG1742029
Potassium	3.16		0.108	2.00	1	09/23/2021 04:04	WG1742029
Selenium	U		0.000300	0.00200	1	09/23/2021 04:04	WG1742029
Sodium	981		0.376	2.00	1	09/23/2021 04:04	WG1742029

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.989		0.0314	0.100	1	09/23/2021 04:12	WG1744164
(S) a,a,a-Trifluorotoluene(FID)	*99.7*			*78.0-120*		*09/23/2021 04:12*	WG1744164

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	2.35		0.0247	0.100	1	09/28/2021 16:20	WG1745154
(S) o-Terphenyl	*96.3*			*31.0-160*		*09/28/2021 16:20*	WG1745154

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	5680		50.0	1	09/19/2021 02:55	WG1742560

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	1.35		0.0500	0.100	1	09/24/2021 16:18	WG1745429

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1390		37.9	100	100	09/22/2021 01:05	WG1743529
Fluoride	1.90		0.0640	0.150	1	09/22/2021 00:48	WG1743529
Sulfate	2060		59.4	500	100	09/22/2021 01:05	WG1743529

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0304		0.000180	0.00200	1	09/23/2021 00:59	WG1742031
Barium	0.0130		0.000381	0.00200	1	09/23/2021 00:59	WG1742031
Calcium	505		0.0936	1.00	1	09/23/2021 00:59	WG1742031
Chromium	U		0.00124	0.00200	1	09/23/2021 00:59	WG1742031
Iron	0.465		0.0281	0.100	1	09/23/2021 00:59	WG1742031
Lead	U		0.000849	0.00200	1	09/23/2021 00:59	WG1742031
Manganese	2.17		0.000704	0.00500	1	09/23/2021 00:59	WG1742031
Potassium	5.14		0.108	2.00	1	09/23/2021 00:59	WG1742031
Selenium	0.000490	J	0.000300	0.00200	1	09/23/2021 00:59	WG1742031
Sodium	924		0.376	2.00	1	09/23/2021 00:59	WG1742031

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.291		0.0314	0.100	1	09/23/2021 04:33	WG1744164
(S) a,a,a-Trifluorotoluene(FID)	*100*			*78.0-120*		*09/23/2021 04:33*	WG1744164

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	4.50		0.0247	0.100	1	09/28/2021 16:46	WG1745154
(S) o-Terphenyl	*118*			*31.0-160*		*09/28/2021 16:46*	WG1745154

MW-3A
Collected date/time: 09/14/21 10:20
L1404404

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	15400		100	1	09/19/2021 02:55	WG1742560

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0500	0.100	1	09/24/2021 16:20	WG1745429

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	3210		37.9	100	100	09/21/2021 12:05	WG1743532
Fluoride	3.45		0.0640	0.150	1	09/21/2021 11:50	WG1743532
Sulfate	7090		59.4	500	100	09/21/2021 12:05	WG1743532

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.116		0.000180	0.00200	1	09/23/2021 01:18	WG1742031
Barium	0.0143		0.000381	0.00200	1	09/23/2021 01:18	WG1742031
Calcium	549		0.0936	1.00	1	09/23/2021 01:18	WG1742031
Chromium	U		0.00124	0.00200	1	09/23/2021 01:18	WG1742031
Iron	4.84		0.0281	0.100	1	09/23/2021 01:18	WG1742031
Lead	U		0.000849	0.00200	1	09/23/2021 01:18	WG1742031
Manganese	1.69		0.000704	0.00500	1	09/23/2021 01:18	WG1742031
Potassium	7.37		0.108	2.00	1	09/23/2021 01:18	WG1742031
Selenium	0.000862	J	0.000300	0.00200	1	09/23/2021 01:18	WG1742031
Sodium	3540		3.76	20.0	10	09/23/2021 13:47	WG1742031

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	1.31		0.157	0.500	5	09/23/2021 08:12	WG1744164
(S) a,a,a-Trifluorotoluene(FID)	*101*			*78.0-120*		*09/23/2021 08:12*	WG1744164

Sample Narrative:

L1404404-23 WG1744164: Lowest possible dilution due to sample foaming.

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	3.76		0.0247	0.100	1	09/28/2021 17:12	WG1745154
(S) o-Terphenyl	*109*			*31.0-160*		*09/28/2021 17:12*	WG1745154

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	8170		50.0	1	09/19/2021 02:55	WG1742560

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0500	0.100	1	09/24/2021 16:22	WG1745429

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	2190		37.9	100	100	09/21/2021 12:37	WG1743532
Fluoride	1.16		0.0640	0.150	1	09/21/2021 12:21	WG1743532
Sulfate	3060		59.4	500	100	09/21/2021 12:37	WG1743532

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0118		0.000180	0.00200	1	09/23/2021 01:22	WG1742031
Barium	0.0166		0.000381	0.00200	1	09/23/2021 01:22	WG1742031
Calcium	484		0.0936	1.00	1	09/23/2021 01:22	WG1742031
Chromium	U		0.00124	0.00200	1	09/23/2021 01:22	WG1742031
Iron	0.869		0.0281	0.100	1	09/23/2021 01:22	WG1742031
Lead	U		0.000849	0.00200	1	09/23/2021 01:22	WG1742031
Manganese	0.557		0.000704	0.00500	1	09/23/2021 01:22	WG1742031
Potassium	3.92		0.108	2.00	1	09/23/2021 01:22	WG1742031
Selenium	0.000622	J	0.000300	0.00200	1	09/23/2021 01:22	WG1742031
Sodium	1750		1.88	10.0	5	09/23/2021 13:50	WG1742031

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.299		0.0314	0.100	1	09/23/2021 04:55	WG1744164
(S) a,a,a-Trifluorotoluene(FID)	*99.9*			*78.0-120*		*09/23/2021 04:55*	WG1744164

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	09/18/2021 15:50	WG1742363
Benzene	U		0.0000941	0.00100	1	09/18/2021 15:50	WG1742363
Bromodichloromethane	U		0.000136	0.00100	1	09/18/2021 15:50	WG1742363
Bromoform	U		0.000129	0.00100	1	09/18/2021 15:50	WG1742363
Bromomethane	U		0.000605	0.00500	1	09/18/2021 15:50	WG1742363
n-Butylbenzene	U		0.000157	0.00100	1	09/18/2021 15:50	WG1742363
sec-Butylbenzene	U		0.000125	0.00100	1	09/18/2021 15:50	WG1742363
Carbon disulfide	U		0.0000962	0.00100	1	09/18/2021 15:50	WG1742363
Carbon tetrachloride	U		0.000128	0.00100	1	09/18/2021 15:50	WG1742363
Chlorobenzene	U		0.000116	0.00100	1	09/18/2021 15:50	WG1742363
Chlorodibromomethane	U		0.000140	0.00100	1	09/18/2021 15:50	WG1742363
Chloroethane	U		0.000192	0.00500	1	09/18/2021 15:50	WG1742363
Chloroform	U		0.000111	0.00500	1	09/18/2021 15:50	WG1742363
Chloromethane	U		0.000960	0.00250	1	09/18/2021 15:50	WG1742363
1,2-Dibromoethane	U		0.000126	0.00100	1	09/18/2021 15:50	WG1742363
1,1-Dichloroethane	U		0.000100	0.00100	1	09/18/2021 15:50	WG1742363

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.0000819	0.00100	1	09/18/2021 15:50	WG1742363
1,1-Dichloroethene	U		0.000188	0.00100	1	09/18/2021 15:50	WG1742363
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	09/18/2021 15:50	WG1742363
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	09/18/2021 15:50	WG1742363
1,2-Dichloropropane	U		0.000149	0.00100	1	09/18/2021 15:50	WG1742363
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	09/18/2021 15:50	WG1742363
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	09/18/2021 15:50	WG1742363
Ethylbenzene	U		0.000137	0.00100	1	09/18/2021 15:50	WG1742363
Isopropylbenzene	U		0.000105	0.00100	1	09/18/2021 15:50	WG1742363
p-Isopropyltoluene	U		0.000120	0.00100	1	09/18/2021 15:50	WG1742363
2-Butanone (MEK)	U		0.00119	0.0100	1	09/18/2021 15:50	WG1742363
2-Hexanone	U		0.000787	0.0100	1	09/18/2021 15:50	WG1742363
Methylene Chloride	U		0.000430	0.00500	1	09/18/2021 15:50	WG1742363
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	09/18/2021 15:50	WG1742363
Methyl tert-butyl ether	0.000870	J	0.000101	0.00100	1	09/18/2021 15:50	WG1742363
Naphthalene	0.00164	J	0.00100	0.00500	1	09/18/2021 15:50	WG1742363
n-Propylbenzene	U		0.0000993	0.00100	1	09/18/2021 15:50	WG1742363
Styrene	U		0.000118	0.00100	1	09/18/2021 15:50	WG1742363
tert-Butyl alcohol	0.00432	J	0.00406	0.00500	1	09/18/2021 15:50	WG1742363
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	09/18/2021 15:50	WG1742363
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	09/18/2021 15:50	WG1742363
Tetrachloroethene	U		0.000300	0.00100	1	09/18/2021 15:50	WG1742363
Toluene	U		0.000278	0.00100	1	09/18/2021 15:50	WG1742363
1,1,1-Trichloroethane	U		0.000149	0.00100	1	09/18/2021 15:50	WG1742363
1,1,2-Trichloroethane	U		0.000158	0.00100	1	09/18/2021 15:50	WG1742363
Trichloroethene	U		0.000190	0.00100	1	09/18/2021 15:50	WG1742363
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/18/2021 15:50	WG1742363
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/18/2021 15:50	WG1742363
Vinyl chloride	U		0.000234	0.00100	1	09/18/2021 15:50	WG1742363
o-Xylene	U		0.000174	0.00100	1	09/18/2021 15:50	WG1742363
m&p-Xylene	U		0.000430	0.00200	1	09/18/2021 15:50	WG1742363
Xylenes, Total	U		0.000174	0.00300	1	09/18/2021 15:50	WG1742363
(S) Toluene-d8	*103*			*80.0-120*		*09/18/2021 15:50*	WG1742363
(S) 4-Bromofluorobenzene	*95.3*			*77.0-126*		*09/18/2021 15:50*	WG1742363
(S) 1,2-Dichloroethane-d4	*94.9*			*70.0-130*		*09/18/2021 15:50*	WG1742363

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	1.00		0.0247	0.100	1	09/28/2021 17:38	WG1745154
(S) o-Terphenyl	*112*			*31.0-160*		*09/28/2021 17:38*	WG1745154

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	15600		100	1	09/19/2021 02:55	WG1742560

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.0500	0.100	1	09/24/2021 16:27	WG1745429

Wet Chemistry by Method 4500CN E-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Cyanide	U		0.00180	0.00500	1	09/23/2021 16:53	WG1745026

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	5560		37.9	100	100	09/21/2021 13:09	WG1743532
Fluoride	2.40		0.0640	0.150	1	09/21/2021 12:53	WG1743532
Sulfate	4730		59.4	500	100	09/21/2021 13:09	WG1743532

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.000100	0.000200	1	09/22/2021 15:05	WG1741778

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Boron	1.19		0.0200	0.200	1	09/23/2021 04:00	WG1742039

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0449		0.000180	0.00200	1	09/23/2021 01:25	WG1742031
Barium	0.0205		0.000381	0.00200	1	09/23/2021 01:25	WG1742031
Cadmium	U		0.000150	0.00100	1	09/23/2021 01:25	WG1742031
Calcium	764		0.0936	1.00	1	09/23/2021 01:25	WG1742031
Chromium	U		0.00124	0.00200	1	09/23/2021 01:25	WG1742031
Cobalt	0.00332		0.0000596	0.00200	1	09/23/2021 01:25	WG1742031
Iron	2.45		0.0281	0.100	1	09/23/2021 01:25	WG1742031
Lead	U		0.00849	0.0200	10	09/23/2021 13:53	WG1742031
Manganese	2.94		0.000704	0.00500	1	09/23/2021 01:25	WG1742031
Nickel	0.0350		0.000816	0.00200	1	09/23/2021 01:25	WG1742031
Potassium	11.7		0.108	2.00	1	09/23/2021 01:25	WG1742031
Selenium	0.00117	J	0.000300	0.00200	1	09/23/2021 01:25	WG1742031
Sodium	3700		3.76	20.0	10	09/23/2021 13:53	WG1742031
Uranium	0.00636	J	0.000789	0.0100	10	09/23/2021 13:53	WG1742031
Vanadium	0.00120	J	0.000664	0.00500	1	09/23/2021 01:25	WG1742031

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	0.373		0.0314	0.100	1	09/23/2021 05:17	WG1744164

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
(S) a,a,a-Trifluorotoluene(FID)	*99.3*			*78.0-120*		*09/23/2021 05:17*	WG1744164

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) High Fraction	1.57		0.0247	0.100	1	09/28/2021 18:03	WG1745154
(S) o-Terphenyl	*104*			*31.0-160*		*09/28/2021 18:03*	WG1745154

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	8250		50.0	1	09/19/2021 02:55	WG1742560

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0500	0.100	1	09/24/2021 16:28	WG1745429

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	2260		37.9	100	100	09/21/2021 13:41	WG1743532
Fluoride	1.14		0.0640	0.150	1	09/21/2021 13:25	WG1743532
Sulfate	3160		59.4	500	100	09/21/2021 13:41	WG1743532

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0122		0.000180	0.00200	1	09/23/2021 01:28	WG1742031
Barium	0.0168		0.000381	0.00200	1	09/23/2021 01:28	WG1742031
Calcium	495		0.0936	1.00	1	09/23/2021 01:28	WG1742031
Chromium	0.00277		0.00124	0.00200	1	09/23/2021 01:28	WG1742031
Iron	0.905		0.0281	0.100	1	09/23/2021 01:28	WG1742031
Lead	U		0.000849	0.00200	1	09/23/2021 01:28	WG1742031
Manganese	0.543		0.000704	0.00500	1	09/23/2021 01:28	WG1742031
Potassium	3.83		0.108	2.00	1	09/23/2021 01:28	WG1742031
Selenium	0.000662	J	0.000300	0.00200	1	09/23/2021 01:28	WG1742031
Sodium	1740		1.88	10.0	5	09/23/2021 13:57	WG1742031

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.298		0.0314	0.100	1	09/23/2021 05:39	WG1744164
(S) a,a,a-Trifluorotoluene(FID)	*99.9*			*78.0-120*		*09/23/2021 05:39*	WG1744164

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	09/18/2021 16:11	WG1742363
Benzene	U		0.0000941	0.00100	1	09/18/2021 16:11	WG1742363
Bromodichloromethane	U		0.000136	0.00100	1	09/18/2021 16:11	WG1742363
Bromoform	U		0.000129	0.00100	1	09/18/2021 16:11	WG1742363
Bromomethane	U		0.000605	0.00500	1	09/18/2021 16:11	WG1742363
n-Butylbenzene	U		0.000157	0.00100	1	09/18/2021 16:11	WG1742363
sec-Butylbenzene	U		0.000125	0.00100	1	09/18/2021 16:11	WG1742363
Carbon disulfide	U		0.0000962	0.00100	1	09/18/2021 16:11	WG1742363
Carbon tetrachloride	U		0.000128	0.00100	1	09/18/2021 16:11	WG1742363
Chlorobenzene	U		0.000116	0.00100	1	09/18/2021 16:11	WG1742363
Chlorodibromomethane	U		0.000140	0.00100	1	09/18/2021 16:11	WG1742363
Chloroethane	U		0.000192	0.00500	1	09/18/2021 16:11	WG1742363
Chloroform	U		0.000111	0.00500	1	09/18/2021 16:11	WG1742363
Chloromethane	U		0.000960	0.00250	1	09/18/2021 16:11	WG1742363
1,2-Dibromoethane	U		0.000126	0.00100	1	09/18/2021 16:11	WG1742363
1,1-Dichloroethane	U		0.000100	0.00100	1	09/18/2021 16:11	WG1742363

DUP-LI-01
Collected date/time: 09/14/21 09:00
L1404404

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.0000819	0.00100	1	09/18/2021 16:11	WG1742363
1,1-Dichloroethene	U		0.000188	0.00100	1	09/18/2021 16:11	WG1742363
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	09/18/2021 16:11	WG1742363
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	09/18/2021 16:11	WG1742363
1,2-Dichloropropane	U		0.000149	0.00100	1	09/18/2021 16:11	WG1742363
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	09/18/2021 16:11	WG1742363
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	09/18/2021 16:11	WG1742363
Ethylbenzene	U		0.000137	0.00100	1	09/18/2021 16:11	WG1742363
Isopropylbenzene	U		0.000105	0.00100	1	09/18/2021 16:11	WG1742363
p-Isopropyltoluene	U		0.000120	0.00100	1	09/18/2021 16:11	WG1742363
2-Butanone (MEK)	U		0.00119	0.0100	1	09/18/2021 16:11	WG1742363
2-Hexanone	U		0.000787	0.0100	1	09/18/2021 16:11	WG1742363
Methylene Chloride	U		0.000430	0.00500	1	09/18/2021 16:11	WG1742363
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	09/18/2021 16:11	WG1742363
Methyl tert-butyl ether	0.000863	J	0.000101	0.00100	1	09/18/2021 16:11	WG1742363
Naphthalene	0.00164	J	0.00100	0.00500	1	09/18/2021 16:11	WG1742363
n-Propylbenzene	U		0.0000993	0.00100	1	09/18/2021 16:11	WG1742363
Styrene	U		0.000118	0.00100	1	09/18/2021 16:11	WG1742363
tert-Butyl alcohol	U		0.00406	0.00500	1	09/18/2021 16:11	WG1742363
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	09/18/2021 16:11	WG1742363
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	09/18/2021 16:11	WG1742363
Tetrachloroethene	U		0.000300	0.00100	1	09/18/2021 16:11	WG1742363
Toluene	U		0.000278	0.00100	1	09/18/2021 16:11	WG1742363
1,1,1-Trichloroethane	U		0.000149	0.00100	1	09/18/2021 16:11	WG1742363
1,1,2-Trichloroethane	U		0.000158	0.00100	1	09/18/2021 16:11	WG1742363
Trichloroethene	U		0.000190	0.00100	1	09/18/2021 16:11	WG1742363
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/18/2021 16:11	WG1742363
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/18/2021 16:11	WG1742363
Vinyl chloride	U		0.000234	0.00100	1	09/18/2021 16:11	WG1742363
o-Xylene	U		0.000174	0.00100	1	09/18/2021 16:11	WG1742363
m&p-Xylene	U		0.000430	0.00200	1	09/18/2021 16:11	WG1742363
Xylenes, Total	U		0.000174	0.00300	1	09/18/2021 16:11	WG1742363
(S) Toluene-d8	*106*			*80.0-120*		*09/18/2021 16:11*	WG1742363
(S) 4-Bromofluorobenzene	*98.8*			*77.0-126*		*09/18/2021 16:11*	WG1742363
(S) 1,2-Dichloroethane-d4	*92.6*			*70.0-130*		*09/18/2021 16:11*	WG1742363

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.959		0.0247	0.100	1	09/28/2021 18:29	WG1745154
(S) o-Terphenyl	*108*			*31.0-160*		*09/28/2021 18:29*	WG1745154

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	28400		1000	1	09/19/2021 02:55	WG1742560

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	1.71		0.0500	0.100	1	09/24/2021 16:29	WG1745429

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	12600		190	500	500	09/21/2021 16:53	WG1743532
Fluoride	0.542		0.0640	0.150	1	09/21/2021 14:29	WG1743532
Sulfate	7100		59.4	500	100	09/21/2021 14:45	WG1743532

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0328		0.000180	0.00200	1	09/23/2021 01:31	WG1742031
Barium	0.0285		0.000381	0.00200	1	09/23/2021 01:31	WG1742031
Calcium	976		0.0936	1.00	1	09/23/2021 01:31	WG1742031
Chromium	U		0.00124	0.00200	1	09/23/2021 01:31	WG1742031
Iron	0.168		0.0281	0.100	1	09/23/2021 01:31	WG1742031
Lead	U		0.00849	0.0200	10	09/23/2021 14:00	WG1742031
Manganese	0.868		0.000704	0.00500	1	09/23/2021 01:31	WG1742031
Potassium	8.60		0.108	2.00	1	09/23/2021 01:31	WG1742031
Selenium	0.0288		0.000300	0.00200	1	09/23/2021 01:31	WG1742031
Sodium	7080		3.76	20.0	10	09/23/2021 14:00	WG1742031

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.541		0.0314	0.100	1	09/23/2021 06:01	WG1744164
(S) a,a,a-Trifluorotoluene(FID)	*98.6*			*78.0-120*		*09/23/2021 06:01*	WG1744164

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	1.37		0.0247	0.100	1	09/28/2021 18:55	WG1745154
(S) o-Terphenyl	*101*			*31.0-160*		*09/28/2021 18:55*	WG1745154

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	6060		50.0	1	09/19/2021 02:55	WG1742560

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	1.46		0.0500	0.100	1	09/24/2021 16:31	WG1745429

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1470		37.9	100	100	09/21/2021 15:32	WG1743532
Fluoride	1.90		0.0640	0.150	1	09/21/2021 15:01	WG1743532
Sulfate	2400		59.4	500	100	09/21/2021 15:32	WG1743532

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0276		0.000180	0.00200	1	09/23/2021 01:35	WG1742031
Barium	0.0157		0.000381	0.00200	1	09/23/2021 01:35	WG1742031
Calcium	711		0.0936	1.00	1	09/23/2021 01:35	WG1742031
Chromium	U		0.00124	0.00200	1	09/23/2021 01:35	WG1742031
Iron	0.0840	J	0.0281	0.100	1	09/23/2021 01:35	WG1742031
Lead	U		0.000849	0.00200	1	09/23/2021 01:35	WG1742031
Manganese	0.839		0.000704	0.00500	1	09/23/2021 01:35	WG1742031
Potassium	5.49		0.108	2.00	1	09/23/2021 01:35	WG1742031
Selenium	0.0172		0.000300	0.00200	1	09/23/2021 01:35	WG1742031
Sodium	905		0.376	2.00	1	09/23/2021 01:35	WG1742031

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.239		0.0314	0.100	1	09/23/2021 06:23	WG1744164
(S) a,a,a-Trifluorotoluene(FID)	*100*			*78.0-120*		*09/23/2021 06:23*	WG1744164

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	7.13		0.0247	0.100	1	09/28/2021 19:33	WG1745154
(S) o-Terphenyl	*112*			*31.0-160*		*09/28/2021 19:33*	WG1745154

EB-LT-03
Collected date/time: 09/14/21 10:35
L1404404

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	ND		10.0	1	09/19/2021 02:55	WG1742560

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0500	0.100	1	09/24/2021 16:32	WG1745429

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	0.515	J	0.379	1.00	1	09/21/2021 16:04	WG1743532
Fluoride	U		0.0640	0.150	1	09/21/2021 16:04	WG1743532
Sulfate	0.665	J	0.594	5.00	1	09/21/2021 16:04	WG1743532

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	U		0.000180	0.00200	1	09/23/2021 01:38	WG1742031
Barium	U		0.000381	0.00200	1	09/23/2021 01:38	WG1742031
Calcium	U		0.0936	1.00	1	09/23/2021 01:38	WG1742031
Chromium	U		0.00124	0.00200	1	09/23/2021 01:38	WG1742031
Iron	U		0.0281	0.100	1	09/23/2021 01:38	WG1742031
Lead	U		0.000849	0.00200	1	09/23/2021 01:38	WG1742031
Manganese	U		0.000704	0.00500	1	09/23/2021 01:38	WG1742031
Potassium	U		0.108	2.00	1	09/23/2021 01:38	WG1742031
Selenium	U		0.000300	0.00200	1	09/23/2021 01:38	WG1742031
Sodium	1.21	J	0.376	2.00	1	09/23/2021 01:38	WG1742031

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	09/23/2021 02:00	WG1744164
(S) a,a,a-Trifluorotoluene(FID)	*99.6*			*78.0-120*		*09/23/2021 02:00*	WG1744164

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0987	J	0.0247	0.100	1	09/28/2021 19:59	WG1745154
(S) o-Terphenyl	*94.7*			*31.0-160*		*09/28/2021 19:59*	WG1745154

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	09/18/2021 12:24	WG1742363
Benzene	U		0.0000941	0.00100	1	09/18/2021 12:24	WG1742363
Bromodichloromethane	U		0.000136	0.00100	1	09/18/2021 12:24	WG1742363
Bromoform	U		0.000129	0.00100	1	09/18/2021 12:24	WG1742363
Bromomethane	U		0.000605	0.00500	1	09/18/2021 12:24	WG1742363
n-Butylbenzene	U		0.000157	0.00100	1	09/18/2021 12:24	WG1742363
sec-Butylbenzene	U		0.000125	0.00100	1	09/18/2021 12:24	WG1742363
Carbon disulfide	U		0.0000962	0.00100	1	09/18/2021 12:24	WG1742363
Carbon tetrachloride	U		0.000128	0.00100	1	09/18/2021 12:24	WG1742363
Chlorobenzene	U		0.000116	0.00100	1	09/18/2021 12:24	WG1742363
Chlorodibromomethane	U		0.000140	0.00100	1	09/18/2021 12:24	WG1742363
Chloroethane	U		0.000192	0.00500	1	09/18/2021 12:24	WG1742363
Chloroform	U		0.000111	0.00500	1	09/18/2021 12:24	WG1742363
Chloromethane	U		0.000960	0.00250	1	09/18/2021 12:24	WG1742363
1,2-Dibromoethane	U		0.000126	0.00100	1	09/18/2021 12:24	WG1742363
1,1-Dichloroethane	U		0.000100	0.00100	1	09/18/2021 12:24	WG1742363
1,2-Dichloroethane	U		0.0000819	0.00100	1	09/18/2021 12:24	WG1742363
1,1-Dichloroethene	U		0.000188	0.00100	1	09/18/2021 12:24	WG1742363
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	09/18/2021 12:24	WG1742363
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	09/18/2021 12:24	WG1742363
1,2-Dichloropropane	U		0.000149	0.00100	1	09/18/2021 12:24	WG1742363
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	09/18/2021 12:24	WG1742363
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	09/18/2021 12:24	WG1742363
Ethylbenzene	U		0.000137	0.00100	1	09/18/2021 12:24	WG1742363
Isopropylbenzene	U		0.000105	0.00100	1	09/18/2021 12:24	WG1742363
p-Isopropyltoluene	U		0.000120	0.00100	1	09/18/2021 12:24	WG1742363
2-Butanone (MEK)	U		0.00119	0.0100	1	09/18/2021 12:24	WG1742363
2-Hexanone	U		0.000787	0.0100	1	09/18/2021 12:24	WG1742363
Methylene Chloride	U		0.000430	0.00500	1	09/18/2021 12:24	WG1742363
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	09/18/2021 12:24	WG1742363
Methyl tert-butyl ether	U		0.000101	0.00100	1	09/18/2021 12:24	WG1742363
Naphthalene	U		0.00100	0.00500	1	09/18/2021 12:24	WG1742363
n-Propylbenzene	U		0.0000993	0.00100	1	09/18/2021 12:24	WG1742363
Styrene	U		0.000118	0.00100	1	09/18/2021 12:24	WG1742363
tert-Butyl alcohol	U		0.00406	0.00500	1	09/18/2021 12:24	WG1742363
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	09/18/2021 12:24	WG1742363
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	09/18/2021 12:24	WG1742363
Tetrachloroethene	U		0.000300	0.00100	1	09/18/2021 12:24	WG1742363
Toluene	U		0.000278	0.00100	1	09/18/2021 12:24	WG1742363
1,1,1-Trichloroethane	U		0.000149	0.00100	1	09/18/2021 12:24	WG1742363
1,1,2-Trichloroethane	U		0.000158	0.00100	1	09/18/2021 12:24	WG1742363
Trichloroethene	U		0.000190	0.00100	1	09/18/2021 12:24	WG1742363
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/18/2021 12:24	WG1742363
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/18/2021 12:24	WG1742363
Vinyl chloride	U		0.000234	0.00100	1	09/18/2021 12:24	WG1742363
o-Xylene	U		0.000174	0.00100	1	09/18/2021 12:24	WG1742363
m&p-Xylene	U		0.000430	0.00200	1	09/18/2021 12:24	WG1742363
Xylenes, Total	U		0.000174	0.00300	1	09/18/2021 12:24	WG1742363
(S) Toluene-d8	*105*			*80.0-120*		*09/18/2021 12:24*	WG1742363
(S) 4-Bromofluorobenzene	*97.1*			*77.0-126*		*09/18/2021 12:24*	WG1742363
(S) 1,2-Dichloroethane-d4	*98.7*			*70.0-130*		*09/18/2021 12:24*	WG1742363

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	7020		50.0	1	09/19/2021 02:55	WG1742560

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.0500	0.100	1	09/24/2021 16:33	WG1745429

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	1740		37.9	100	100	09/21/2021 17:56	WG1743532
Fluoride	2.54		0.0640	0.150	1	09/21/2021 17:40	WG1743532
Sulfate	4480		59.4	500	100	09/21/2021 17:56	WG1743532

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00689		0.000180	0.00200	1	09/23/2021 01:41	WG1742031
Barium	0.0236		0.000381	0.00200	1	09/23/2021 01:41	WG1742031
Calcium	547		0.0936	1.00	1	09/23/2021 01:41	WG1742031
Chromium	U		0.00124	0.00200	1	09/23/2021 01:41	WG1742031
Iron	2.41		0.0281	0.100	1	09/23/2021 01:41	WG1742031
Lead	U		0.000849	0.00200	1	09/23/2021 01:41	WG1742031
Manganese	2.00		0.000704	0.00500	1	09/23/2021 01:41	WG1742031
Potassium	3.15		0.108	2.00	1	09/23/2021 01:41	WG1742031
Selenium	0.000465	J	0.000300	0.00200	1	09/23/2021 01:41	WG1742031
Sodium	1480		1.88	10.0	5	09/23/2021 14:04	WG1742031

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	09/23/2021 06:45	WG1744164
(S) a,a,a-Trifluorotoluene(FID)	*100*			*78.0-120*		*09/23/2021 06:45*	WG1744164

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) High Fraction	0.184		0.0247	0.100	1	09/28/2021 20:25	WG1745154
(S) o-Terphenyl	*95.3*			*31.0-160*		*09/28/2021 20:25*	WG1745154

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00279		0.000180	0.00200	1	09/23/2021 01:44	WG1742031
Barium	0.0217		0.000381	0.00200	1	09/23/2021 01:44	WG1742031
Chromium	U		0.00124	0.00200	1	09/23/2021 01:44	WG1742031
Iron	2.04		0.0281	0.100	1	09/23/2021 01:44	WG1742031
Lead	U		0.000849	0.00200	1	09/23/2021 01:44	WG1742031
Manganese	0.736		0.000704	0.00500	1	09/23/2021 01:44	WG1742031
Selenium	0.000395	J	0.000300	0.00200	1	09/23/2021 01:44	WG1742031

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	09/23/2021 07:07	WG1744164
(S) a,a,a-Trifluorotoluene(FID)	*101*			*78.0-120*		*09/23/2021 07:07*	WG1744164

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0849	J	0.0247	0.100	1	09/28/2021 20:51	WG1745154
(S) o-Terphenyl	*92.6*			*31.0-160*		*09/28/2021 20:51*	WG1745154

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.000890	J	0.000180	0.00200	1	09/23/2021 01:48	WG1742031
Barium	0.0206		0.000381	0.00200	1	09/23/2021 01:48	WG1742031
Chromium	U		0.00124	0.00200	1	09/23/2021 01:48	WG1742031
Iron	0.183		0.0281	0.100	1	09/23/2021 01:48	WG1742031
Lead	U		0.000849	0.00200	1	09/23/2021 01:48	WG1742031
Manganese	0.0832		0.000704	0.00500	1	09/23/2021 01:48	WG1742031
Selenium	0.000419	J	0.000300	0.00200	1	09/23/2021 01:48	WG1742031

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	09/23/2021 03:21	WG1744681
(S) a,a,a-Trifluorotoluene(FID)	*111*			*78.0-120*		*09/23/2021 03:21*	WG1744681

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0529	J	0.0247	0.100	1	09/28/2021 21:17	WG1745154
(S) o-Terphenyl	*88.9*			*31.0-160*		*09/28/2021 21:17*	WG1745154

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00405		0.000180	0.00200	1	09/23/2021 01:57	WG1742031
Barium	0.0256		0.000381	0.00200	1	09/23/2021 01:57	WG1742031
Chromium	U		0.00124	0.00200	1	09/23/2021 01:57	WG1742031
Iron	3.07		0.0281	0.100	1	09/23/2021 01:57	WG1742031
Lead	U		0.000849	0.00200	1	09/23/2021 01:57	WG1742031
Manganese	0.271		0.000704	0.00500	1	09/23/2021 01:57	WG1742031
Selenium	U		0.000300	0.00200	1	09/23/2021 01:57	WG1742031

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	09/23/2021 03:43	WG1744681
(S) a,a,a-Trifluorotoluene(FID)	*109*			*78.0-120*		*09/23/2021 03:43*	WG1744681

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0605	J	0.0247	0.100	1	09/28/2021 21:43	WG1745154
(S) o-Terphenyl	*95.3*			*31.0-160*		*09/28/2021 21:43*	WG1745154

MW-11A
Collected date/time: 09/14/21 15:10
L1404404

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	18600		100	1	09/19/2021 05:03	WG1742563

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.0500	0.100	1	09/24/2021 16:34	WG1745429

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	8880		37.9	100	100	09/21/2021 18:28	WG1743532
Fluoride	0.114	J	0.0640	0.150	1	09/21/2021 18:12	WG1743532
Sulfate	3290		59.4	500	100	09/21/2021 18:28	WG1743532

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Calcium	1230		0.936	10.0	10	09/23/2021 14:07	WG1742031
Potassium	22.2		0.108	2.00	1	09/23/2021 02:01	WG1742031
Sodium	5180		3.76	20.0	10	09/23/2021 14:07	WG1742031

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	13100		100	1	09/19/2021 05:03	WG1742563

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0500	0.100	1	09/24/2021 16:37	WG1745429

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	5170		37.9	100	100	09/21/2021 19:00	WG1743532
Fluoride	0.745		0.0640	0.150	1	09/21/2021 18:44	WG1743532
Sulfate	3300		59.4	500	100	09/21/2021 19:00	WG1743532

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0142		0.000180	0.00200	1	09/23/2021 02:04	WG1742031
Barium	0.0278		0.000381	0.00200	1	09/23/2021 02:04	WG1742031
Calcium	898		0.0936	1.00	1	09/23/2021 02:04	WG1742031
Chromium	U		0.00124	0.00200	1	09/23/2021 02:04	WG1742031
Iron	9.83		0.0281	0.100	1	09/23/2021 02:04	WG1742031
Lead	U		0.000849	0.00200	1	09/23/2021 02:04	WG1742031
Manganese	0.357		0.000704	0.00500	1	09/23/2021 02:04	WG1742031
Potassium	36.0		0.108	2.00	1	09/23/2021 02:04	WG1742031
Selenium	0.000322	J	0.000300	0.00200	1	09/23/2021 02:04	WG1742031
Sodium	3550		3.76	20.0	10	09/23/2021 14:11	WG1742031

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.845		0.0314	0.100	1	09/23/2021 04:04	WG1744681
(S) a,a,a-Trifluorotoluene(FID)	*110*			*78.0-120*		*09/23/2021 04:04*	WG1744681

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	1.08		0.0247	0.100	1	09/28/2021 22:09	WG1745154
(S) o-Terphenyl	*102*			*31.0-160*		*09/28/2021 22:09*	WG1745154

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00620		0.000180	0.00200	1	09/23/2021 02:07	WG1742031
Barium	0.0167		0.000381	0.00200	1	09/23/2021 02:07	WG1742031
Chromium	U		0.00124	0.00200	1	09/23/2021 02:07	WG1742031
Iron	0.361		0.0281	0.100	1	09/23/2021 02:07	WG1742031
Lead	U		0.000849	0.00200	1	09/23/2021 02:07	WG1742031
Manganese	1.90		0.000704	0.00500	1	09/23/2021 02:07	WG1742031
Selenium	U		0.000300	0.00200	1	09/23/2021 02:07	WG1742031

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	09/25/2021 07:09	WG1744684
(S) a,a,a-Trifluorotoluene(FID)	*93.5*			*78.0-120*		*09/25/2021 07:09*	WG1744684

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.386		0.0247	0.100	1	09/28/2021 22:34	WG1745154
(S) o-Terphenyl	*104*			*31.0-160*		*09/28/2021 22:34*	WG1745154

MW-18A
Collected date/time: 09/14/21 09:25
L1404404

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	16500		100	1	09/19/2021 05:03	WG1742563

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0500	0.100	1	09/24/2021 16:43	WG1745429

Wet Chemistry by Method 4500CN E-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Cyanide	U		0.00180	0.00500	1	09/23/2021 16:54	WG1745026

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	5350		37.9	100	100	09/21/2021 19:32	WG1743532
Fluoride	2.30		0.0640	0.150	1	09/21/2021 19:16	WG1743532
Sulfate	5780		59.4	500	100	09/21/2021 19:32	WG1743532

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U		0.000100	0.000200	1	09/22/2021 15:07	WG1741778

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	2.02		0.0200	0.200	1	09/23/2021 04:04	WG1742039

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00452		0.000180	0.00200	1	09/23/2021 02:10	WG1742031
Barium	0.0168		0.000381	0.00200	1	09/23/2021 02:10	WG1742031
Cadmium	U		0.000150	0.00100	1	09/23/2021 02:10	WG1742031
Calcium	696		0.0936	1.00	1	09/23/2021 02:10	WG1742031
Chromium	U		0.00124	0.00200	1	09/23/2021 02:10	WG1742031
Cobalt	0.000294	J	0.0000596	0.00200	1	09/23/2021 02:10	WG1742031
Iron	0.310		0.0281	0.100	1	09/23/2021 02:10	WG1742031
Lead	U		0.000849	0.00200	1	09/23/2021 02:10	WG1742031
Manganese	1.52		0.000704	0.00500	1	09/23/2021 02:10	WG1742031
Nickel	0.0103		0.000816	0.00200	1	09/23/2021 02:10	WG1742031
Potassium	38.0		0.108	2.00	1	09/23/2021 02:10	WG1742031
Selenium	U		0.000300	0.00200	1	09/23/2021 02:10	WG1742031
Sodium	3880		3.76	20.0	10	09/23/2021 14:14	WG1742031
Uranium	0.0221		0.0000789	0.00100	1	09/23/2021 02:10	WG1742031
Vanadium	0.000672	J	0.000664	0.00500	1	09/23/2021 02:10	WG1742031

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.491		0.0247	0.100	1	09/28/2021 23:00	WG1745154

MW-18A
Collected date/time: 09/14/21 09:25
L1404404

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
(S) o-Terphenyl	*108*			*31.0-160*		*09/28/2021 23:00*	WG1745154

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0187		0.000180	0.00200	1	09/23/2021 02:14	WG1742031
Barium	0.0193		0.000381	0.00200	1	09/23/2021 02:14	WG1742031
Chromium	U		0.00124	0.00200	1	09/23/2021 02:14	WG1742031
Iron	6.21		0.0281	0.100	1	09/23/2021 02:14	WG1742031
Lead	U		0.000849	0.00200	1	09/23/2021 02:14	WG1742031
Manganese	0.987		0.000704	0.00500	1	09/23/2021 02:14	WG1742031
Selenium	U		0.000300	0.00200	1	09/23/2021 02:14	WG1742031

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	1.81		0.0314	0.100	1	09/25/2021 07:37	WG1744684
(S) a,a,a-Trifluorotoluene(FID)	*94.2*			*78.0-120*		*09/25/2021 07:37*	WG1744684

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.860		0.0247	0.100	1	09/28/2021 23:26	WG1745154
(S) o-Terphenyl	*104*			*31.0-160*		*09/28/2021 23:26*	WG1745154

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	10600		100	1	09/19/2021 05:03	WG1742563

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0500	0.100	1	09/24/2021 16:45	WG1745429

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	3280		37.9	100	100	09/21/2021 20:04	WG1743532
Fluoride	0.817		0.0640	0.150	1	09/21/2021 19:48	WG1743532
Sulfate	3890		59.4	500	100	09/21/2021 20:04	WG1743532

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00182	J	0.000180	0.00200	1	09/23/2021 02:17	WG1742031
Barium	0.0190		0.000381	0.00200	1	09/23/2021 02:17	WG1742031
Calcium	799		0.0936	1.00	1	09/23/2021 02:17	WG1742031
Chromium	U		0.00124	0.00200	1	09/23/2021 02:17	WG1742031
Iron	3.85		0.0281	0.100	1	09/23/2021 02:17	WG1742031
Lead	U		0.000849	0.00200	1	09/23/2021 02:17	WG1742031
Manganese	0.579		0.000704	0.00500	1	09/23/2021 02:17	WG1742031
Potassium	7.25		0.108	2.00	1	09/23/2021 02:17	WG1742031
Selenium	U		0.000300	0.00200	1	09/23/2021 02:17	WG1742031
Sodium	1740		1.88	10.0	5	09/23/2021 14:18	WG1742031

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	09/25/2021 08:05	WG1744684
(S) a,a,a-Trifluorotoluene(FID)	*94.3*			*78.0-120*		*09/25/2021 08:05*	WG1744684

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0518	J	0.0247	0.100	1	09/28/2021 23:52	WG1745154
(S) o-Terphenyl	*94.2*			*31.0-160*		*09/28/2021 23:52*	WG1745154

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2560		10.0	1	09/19/2021 05:03	WG1742563

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	12.0		0.500	1.00	10	09/24/2021 16:46	WG1745429

Wet Chemistry by Method 4500CN E-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Cyanide	U		0.00180	0.00500	1	09/23/2021 16:55	WG1745026

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	179		7.58	20.0	20	09/21/2021 21:07	WG1743532
Fluoride	1.53		0.0640	0.150	1	09/21/2021 20:51	WG1743532
Sulfate	1050		11.9	100	20	09/21/2021 21:07	WG1743532

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U		0.000100	0.000200	1	09/22/2021 15:08	WG1741778

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	0.774		0.0200	0.200	1	09/23/2021 04:07	WG1742039

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00363		0.000180	0.00200	1	09/23/2021 02:20	WG1742031
Barium	0.0113		0.000381	0.00200	1	09/23/2021 02:20	WG1742031
Cadmium	U		0.000150	0.00100	1	09/23/2021 02:20	WG1742031
Calcium	211		0.0936	1.00	1	09/23/2021 02:20	WG1742031
Chromium	U		0.00124	0.00200	1	09/23/2021 02:20	WG1742031
Cobalt	0.000791	J	0.0000596	0.00200	1	09/23/2021 02:20	WG1742031
Iron	U		0.0281	0.100	1	09/23/2021 02:20	WG1742031
Lead	U		0.000849	0.00200	1	09/23/2021 02:20	WG1742031
Manganese	0.0640		0.000704	0.00500	1	09/23/2021 02:20	WG1742031
Nickel	0.0377		0.000816	0.00200	1	09/23/2021 02:20	WG1742031
Potassium	0.240	J	0.108	2.00	1	09/23/2021 02:20	WG1742031
Selenium	0.00312		0.000300	0.00200	1	09/23/2021 02:20	WG1742031
Sodium	308		0.376	2.00	1	09/23/2021 02:20	WG1742031
Uranium	0.0104		0.0000789	0.00100	1	09/23/2021 02:20	WG1742031
Vanadium	0.0243		0.000664	0.00500	1	09/23/2021 02:20	WG1742031

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	09/25/2021 08:33	WG1744684

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
(S) a,a,a-Trifluorotoluene(FID)	*93.9*			*78.0-120*		*09/25/2021 08:33*	WG1744684

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	09/18/2021 16:31	WG1742363
Benzene	U		0.0000941	0.00100	1	09/18/2021 16:31	WG1742363
Bromodichloromethane	U		0.000136	0.00100	1	09/18/2021 16:31	WG1742363
Bromoform	U		0.000129	0.00100	1	09/18/2021 16:31	WG1742363
Bromomethane	U		0.000605	0.00500	1	09/18/2021 16:31	WG1742363
n-Butylbenzene	U		0.000157	0.00100	1	09/18/2021 16:31	WG1742363
sec-Butylbenzene	U		0.000125	0.00100	1	09/18/2021 16:31	WG1742363
Carbon disulfide	U		0.0000962	0.00100	1	09/18/2021 16:31	WG1742363
Carbon tetrachloride	U		0.000128	0.00100	1	09/18/2021 16:31	WG1742363
Chlorobenzene	U		0.000116	0.00100	1	09/18/2021 16:31	WG1742363
Chlorodibromomethane	U		0.000140	0.00100	1	09/18/2021 16:31	WG1742363
Chloroethane	U		0.000192	0.00500	1	09/18/2021 16:31	WG1742363
Chloroform	U		0.000111	0.00500	1	09/18/2021 16:31	WG1742363
Chloromethane	U		0.000960	0.00250	1	09/18/2021 16:31	WG1742363
1,2-Dibromoethane	U		0.000126	0.00100	1	09/18/2021 16:31	WG1742363
1,1-Dichloroethane	U		0.000100	0.00100	1	09/18/2021 16:31	WG1742363
1,2-Dichloroethane	U		0.0000819	0.00100	1	09/18/2021 16:31	WG1742363
1,1-Dichloroethene	U		0.000188	0.00100	1	09/18/2021 16:31	WG1742363
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	09/18/2021 16:31	WG1742363
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	09/18/2021 16:31	WG1742363
1,2-Dichloropropane	U		0.000149	0.00100	1	09/18/2021 16:31	WG1742363
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	09/18/2021 16:31	WG1742363
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	09/18/2021 16:31	WG1742363
Ethylbenzene	U		0.000137	0.00100	1	09/18/2021 16:31	WG1742363
Isopropylbenzene	U		0.000105	0.00100	1	09/18/2021 16:31	WG1742363
p-Isopropyltoluene	U		0.000120	0.00100	1	09/18/2021 16:31	WG1742363
2-Butanone (MEK)	U		0.00119	0.0100	1	09/18/2021 16:31	WG1742363
2-Hexanone	U		0.000787	0.0100	1	09/18/2021 16:31	WG1742363
Methylene Chloride	U		0.000430	0.00500	1	09/18/2021 16:31	WG1742363
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	09/18/2021 16:31	WG1742363
Methyl tert-butyl ether	U		0.000101	0.00100	1	09/18/2021 16:31	WG1742363
Naphthalene	U		0.00100	0.00500	1	09/18/2021 16:31	WG1742363
n-Propylbenzene	U		0.0000993	0.00100	1	09/18/2021 16:31	WG1742363
Styrene	U		0.000118	0.00100	1	09/18/2021 16:31	WG1742363
tert-Butyl alcohol	U		0.00406	0.00500	1	09/18/2021 16:31	WG1742363
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	09/18/2021 16:31	WG1742363
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	09/18/2021 16:31	WG1742363
Tetrachloroethene	U		0.000300	0.00100	1	09/18/2021 16:31	WG1742363
Toluene	U		0.000278	0.00100	1	09/18/2021 16:31	WG1742363
1,1,1-Trichloroethane	U		0.000149	0.00100	1	09/18/2021 16:31	WG1742363
1,1,2-Trichloroethane	U		0.000158	0.00100	1	09/18/2021 16:31	WG1742363
Trichloroethene	U		0.000190	0.00100	1	09/18/2021 16:31	WG1742363
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/18/2021 16:31	WG1742363
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/18/2021 16:31	WG1742363
Vinyl chloride	U		0.000234	0.00100	1	09/18/2021 16:31	WG1742363
o-Xylene	U		0.000174	0.00100	1	09/18/2021 16:31	WG1742363
m&p-Xylene	U		0.000430	0.00200	1	09/18/2021 16:31	WG1742363
Xylenes, Total	U		0.000174	0.00300	1	09/18/2021 16:31	WG1742363
(S) Toluene-d8	*105*			*80.0-120*		*09/18/2021 16:31*	WG1742363
(S) 4-Bromofluorobenzene	*99.2*			*77.0-126*		*09/18/2021 16:31*	WG1742363

MW-32
Collected date/time: 09/15/21 09:50
L1404404

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
(S) 1,2-Dichloroethane-d4	*97.8*			*70.0-130*		*09/18/2021 16:31*	WG1742363

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) High Fraction	0.432		0.0247	0.100	1	09/30/2021 10:03	WG1746820
(S) o-Terphenyl	*107*			*31.0-160*		*09/30/2021 10:03*	WG1746820

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2020		10.0	1	09/19/2021 05:03	WG1742563

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.500	1.00	10	09/24/2021 16:47	WG1745429

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	61.9		0.379	1.00	1	09/21/2021 21:23	WG1743532
Fluoride	1.44		0.0640	0.150	1	09/21/2021 21:23	WG1743532
Sulfate	321		5.94	50.0	10	09/21/2021 21:39	WG1743532

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00199	J	0.000180	0.00200	1	09/23/2021 02:23	WG1742031
Barium	0.110		0.000381	0.00200	1	09/23/2021 02:23	WG1742031
Calcium	76.6		0.0936	1.00	1	09/23/2021 02:23	WG1742031
Chromium	U		0.00124	0.00200	1	09/23/2021 02:23	WG1742031
Iron	0.0387	J	0.0281	0.100	1	09/23/2021 02:23	WG1742031
Lead	U		0.000849	0.00200	1	09/23/2021 02:23	WG1742031
Manganese	0.0424		0.000704	0.00500	1	09/23/2021 02:23	WG1742031
Potassium	0.758	J	0.108	2.00	1	09/23/2021 02:23	WG1742031
Selenium	U		0.000300	0.00200	1	09/23/2021 02:23	WG1742031
Sodium	394		0.376	2.00	1	09/23/2021 02:23	WG1742031

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	5.69	J3	0.785	2.50	25	09/26/2021 22:45	WG1746586
(S) a,a,a-Trifluorotoluene(FID)	*92.1*			*78.0-120*		*09/26/2021 22:45*	WG1746586

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.282	1.25	25	09/18/2021 17:53	WG1742363
Benzene	2.18		0.00235	0.0250	25	09/18/2021 17:53	WG1742363
Bromodichloromethane	U		0.00340	0.0250	25	09/18/2021 17:53	WG1742363
Bromoform	U		0.00322	0.0250	25	09/18/2021 17:53	WG1742363
Bromomethane	U		0.0151	0.125	25	09/18/2021 17:53	WG1742363
n-Butylbenzene	U		0.00393	0.0250	25	09/18/2021 17:53	WG1742363
sec-Butylbenzene	0.00752	J	0.00313	0.0250	25	09/18/2021 17:53	WG1742363
Carbon disulfide	U		0.00241	0.0250	25	09/18/2021 17:53	WG1742363
Carbon tetrachloride	U		0.00320	0.0250	25	09/18/2021 17:53	WG1742363
Chlorobenzene	U		0.00290	0.0250	25	09/18/2021 17:53	WG1742363
Chlorodibromomethane	U		0.00350	0.0250	25	09/18/2021 17:53	WG1742363
Chloroethane	U		0.00480	0.125	25	09/18/2021 17:53	WG1742363
Chloroform	U		0.00278	0.125	25	09/18/2021 17:53	WG1742363
Chloromethane	U		0.0240	0.0625	25	09/18/2021 17:53	WG1742363
1,2-Dibromoethane	U		0.00315	0.0250	25	09/18/2021 17:53	WG1742363
1,1-Dichloroethane	U		0.00250	0.0250	25	09/18/2021 17:53	WG1742363

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.00205	0.0250	25	09/18/2021 17:53	WG1742363
1,1-Dichloroethene	U		0.00470	0.0250	25	09/18/2021 17:53	WG1742363
cis-1,2-Dichloroethene	U		0.00315	0.0250	25	09/18/2021 17:53	WG1742363
trans-1,2-Dichloroethene	U		0.00373	0.0250	25	09/18/2021 17:53	WG1742363
1,2-Dichloropropane	U		0.00373	0.0250	25	09/18/2021 17:53	WG1742363
cis-1,3-Dichloropropene	U		0.00278	0.0250	25	09/18/2021 17:53	WG1742363
trans-1,3-Dichloropropene	U		0.00295	0.0250	25	09/18/2021 17:53	WG1742363
Ethylbenzene	0.00952	J	0.00343	0.0250	25	09/18/2021 17:53	WG1742363
Isopropylbenzene	0.0741		0.00263	0.0250	25	09/18/2021 17:53	WG1742363
p-Isopropyltoluene	U		0.00300	0.0250	25	09/18/2021 17:53	WG1742363
2-Butanone (MEK)	U		0.0298	0.250	25	09/18/2021 17:53	WG1742363
2-Hexanone	U		0.0197	0.250	25	09/18/2021 17:53	WG1742363
Methylene Chloride	U		0.0107	0.125	25	09/18/2021 17:53	WG1742363
4-Methyl-2-pentanone (MIBK)	U		0.0120	0.250	25	09/18/2021 17:53	WG1742363
Methyl tert-butyl ether	U		0.00253	0.0250	25	09/18/2021 17:53	WG1742363
Naphthalene	U		0.0250	0.125	25	09/18/2021 17:53	WG1742363
n-Propylbenzene	0.0640		0.00248	0.0250	25	09/18/2021 17:53	WG1742363
Styrene	U		0.00295	0.0250	25	09/18/2021 17:53	WG1742363
tert-Butyl alcohol	U		0.102	0.125	25	09/18/2021 17:53	WG1742363
1,1,1,2-Tetrachloroethane	U		0.00368	0.0250	25	09/18/2021 17:53	WG1742363
1,1,2,2-Tetrachloroethane	U		0.00333	0.0250	25	09/18/2021 17:53	WG1742363
Tetrachloroethene	U		0.00750	0.0250	25	09/18/2021 17:53	WG1742363
Toluene	0.0250	J	0.00695	0.0250	25	09/18/2021 17:53	WG1742363
1,1,1-Trichloroethane	U		0.00373	0.0250	25	09/18/2021 17:53	WG1742363
1,1,2-Trichloroethane	U		0.00395	0.0250	25	09/18/2021 17:53	WG1742363
Trichloroethene	U		0.00475	0.0250	25	09/18/2021 17:53	WG1742363
1,2,4-Trimethylbenzene	U		0.00805	0.0250	25	09/18/2021 17:53	WG1742363
1,3,5-Trimethylbenzene	U		0.00260	0.0250	25	09/18/2021 17:53	WG1742363
Vinyl chloride	U		0.00585	0.0250	25	09/18/2021 17:53	WG1742363
o-Xylene	U		0.00435	0.0250	25	09/18/2021 17:53	WG1742363
m&p-Xylene	0.0145	J	0.0107	0.0500	25	09/18/2021 17:53	WG1742363
Xylenes, Total	0.0145	J	0.00435	0.0750	25	09/18/2021 17:53	WG1742363
(S) Toluene-d8	*102*			*80.0-120*		*09/18/2021 17:53*	WG1742363
(S) 4-Bromofluorobenzene	*96.1*			*77.0-126*		*09/18/2021 17:53*	WG1742363
(S) 1,2-Dichloroethane-d4	*91.1*			*70.0-130*		*09/18/2021 17:53*	WG1742363

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	6.03		0.0247	0.100	1	09/30/2021 10:31	WG1746820
(S) o-Terphenyl	*216*	J1		*31.0-160*		*09/30/2021 10:31*	WG1746820

Sample Narrative:

L1404404-42 WG1746820: Surrogate failure due to matrix interference

Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	U		0.0000447	0.000400	1	09/18/2021 10:44	WG1742046
(S) Nitrobenzene-d5	*61.0*			*10.0-120*		*09/18/2021 10:44*	WG1742046

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1180		10.0	1	09/19/2021 05:03	WG1742563

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0500	0.100	1	09/24/2021 16:48	WG1745429

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	61.9		0.379	1.00	1	09/21/2021 21:55	WG1743532
Fluoride	1.44		0.0640	0.150	1	09/21/2021 21:55	WG1743532
Sulfate	328		2.97	25.0	5	09/21/2021 22:27	WG1743532

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0278		0.000180	0.00200	1	09/23/2021 03:19	WG1742033
Barium	0.0602		0.000381	0.00200	1	09/23/2021 03:19	WG1742033
Calcium	84.5		0.0936	1.00	1	09/23/2021 03:19	WG1742033
Chromium	U		0.00124	0.00200	1	09/23/2021 03:19	WG1742033
Iron	2.22		0.0281	0.100	1	09/23/2021 03:19	WG1742033
Lead	0.00124	J	0.000849	0.00200	1	09/23/2021 03:19	WG1742033
Manganese	1.54		0.000704	0.00500	1	09/23/2021 03:19	WG1742033
Potassium	0.171	J	0.108	2.00	1	09/23/2021 03:19	WG1742033
Selenium	U		0.000300	0.00200	1	09/23/2021 03:19	WG1742033
Sodium	246		0.376	2.00	1	09/23/2021 03:19	WG1742033

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.616		0.0314	0.100	1	09/25/2021 09:01	WG1744684
(S) a,a,a-Trifluorotoluene(FID)	*87.2*			*78.0-120*		*09/25/2021 09:01*	WG1744684

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	09/18/2021 16:52	WG1742363
Benzene	0.00427		0.0000941	0.00100	1	09/18/2021 16:52	WG1742363
Bromodichloromethane	U		0.000136	0.00100	1	09/18/2021 16:52	WG1742363
Bromoform	U		0.000129	0.00100	1	09/18/2021 16:52	WG1742363
Bromomethane	U		0.000605	0.00500	1	09/18/2021 16:52	WG1742363
n-Butylbenzene	U		0.000157	0.00100	1	09/18/2021 16:52	WG1742363
sec-Butylbenzene	0.00525		0.000125	0.00100	1	09/18/2021 16:52	WG1742363
Carbon disulfide	U		0.0000962	0.00100	1	09/18/2021 16:52	WG1742363
Carbon tetrachloride	U		0.000128	0.00100	1	09/18/2021 16:52	WG1742363
Chlorobenzene	U		0.000116	0.00100	1	09/18/2021 16:52	WG1742363
Chlorodibromomethane	U		0.000140	0.00100	1	09/18/2021 16:52	WG1742363
Chloroethane	U		0.000192	0.00500	1	09/18/2021 16:52	WG1742363
Chloroform	U		0.000111	0.00500	1	09/18/2021 16:52	WG1742363
Chloromethane	U		0.000960	0.00250	1	09/18/2021 16:52	WG1742363
1,2-Dibromoethane	U		0.000126	0.00100	1	09/18/2021 16:52	WG1742363
1,1-Dichloroethane	U		0.000100	0.00100	1	09/18/2021 16:52	WG1742363

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.0000819	0.00100	1	09/18/2021 16:52	WG1742363
1,1-Dichloroethene	U		0.000188	0.00100	1	09/18/2021 16:52	WG1742363
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	09/18/2021 16:52	WG1742363
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	09/18/2021 16:52	WG1742363
1,2-Dichloropropane	U		0.000149	0.00100	1	09/18/2021 16:52	WG1742363
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	09/18/2021 16:52	WG1742363
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	09/18/2021 16:52	WG1742363
Ethylbenzene	U		0.000137	0.00100	1	09/18/2021 16:52	WG1742363
Isopropylbenzene	0.00737		0.000105	0.00100	1	09/18/2021 16:52	WG1742363
p-Isopropyltoluene	U		0.000120	0.00100	1	09/18/2021 16:52	WG1742363
2-Butanone (MEK)	U		0.00119	0.0100	1	09/18/2021 16:52	WG1742363
2-Hexanone	U		0.000787	0.0100	1	09/18/2021 16:52	WG1742363
Methylene Chloride	U		0.000430	0.00500	1	09/18/2021 16:52	WG1742363
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	09/18/2021 16:52	WG1742363
Methyl tert-butyl ether	U		0.000101	0.00100	1	09/18/2021 16:52	WG1742363
Naphthalene	0.00207	J	0.00100	0.00500	1	09/18/2021 16:52	WG1742363
n-Propylbenzene	0.000228	J	0.0000993	0.00100	1	09/18/2021 16:52	WG1742363
Styrene	U		0.000118	0.00100	1	09/18/2021 16:52	WG1742363
tert-Butyl alcohol	U		0.00406	0.00500	1	09/18/2021 16:52	WG1742363
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	09/18/2021 16:52	WG1742363
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	09/18/2021 16:52	WG1742363
Tetrachloroethene	U		0.000300	0.00100	1	09/18/2021 16:52	WG1742363
Toluene	U		0.000278	0.00100	1	09/18/2021 16:52	WG1742363
1,1,1-Trichloroethane	U		0.000149	0.00100	1	09/18/2021 16:52	WG1742363
1,1,2-Trichloroethane	U		0.000158	0.00100	1	09/18/2021 16:52	WG1742363
Trichloroethene	U		0.000190	0.00100	1	09/18/2021 16:52	WG1742363
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/18/2021 16:52	WG1742363
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/18/2021 16:52	WG1742363
Vinyl chloride	U		0.000234	0.00100	1	09/18/2021 16:52	WG1742363
o-Xylene	U		0.000174	0.00100	1	09/18/2021 16:52	WG1742363
m&p-Xylene	0.00315		0.000430	0.00200	1	09/18/2021 16:52	WG1742363
Xylenes, Total	0.00315		0.000174	0.00300	1	09/18/2021 16:52	WG1742363
(S) Toluene-d8	*96.1*			*80.0-120*		*09/18/2021 16:52*	WG1742363
(S) 4-Bromofluorobenzene	*87.4*			*77.0-126*		*09/18/2021 16:52*	WG1742363
(S) 1,2-Dichloroethane-d4	*97.1*			*70.0-130*		*09/18/2021 16:52*	WG1742363

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	1.49		0.0247	0.100	1	09/30/2021 10:59	WG1746820
(S) o-Terphenyl	*127*			*31.0-160*		*09/30/2021 10:59*	WG1746820

Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	U		0.0000447	0.000400	1	09/18/2021 11:03	WG1742046
(S) Nitrobenzene-d5	*58.7*			*10.0-120*		*09/18/2021 11:03*	WG1742046

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	ND		10.0	1	09/19/2021 05:03	WG1742563

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0500	0.100	1	09/24/2021 16:50	WG1745429

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	0.438	J	0.379	1.00	1	09/21/2021 22:43	WG1743532
Fluoride	0.0643	J	0.0640	0.150	1	09/21/2021 22:43	WG1743532
Sulfate	0.628	J	0.594	5.00	1	09/21/2021 22:43	WG1743532

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	U		0.000180	0.00200	1	09/23/2021 03:40	WG1742033
Barium	U		0.000381	0.00200	1	09/23/2021 03:40	WG1742033
Calcium	U		0.0936	1.00	1	09/23/2021 03:40	WG1742033
Chromium	U		0.00124	0.00200	1	09/23/2021 03:40	WG1742033
Iron	U		0.0281	0.100	1	09/23/2021 03:40	WG1742033
Lead	U		0.000849	0.00200	1	09/23/2021 03:40	WG1742033
Manganese	0.00140	J	0.000704	0.00500	1	09/23/2021 03:40	WG1742033
Potassium	U		0.108	2.00	1	09/23/2021 03:40	WG1742033
Selenium	U		0.000300	0.00200	1	09/23/2021 03:40	WG1742033
Sodium	U		0.376	2.00	1	09/23/2021 03:40	WG1742033

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	09/25/2021 09:29	WG1744684
(S) a,a,a-Trifluorotoluene(FID)	*94.0*			*78.0-120*		*09/25/2021 09:29*	WG1744684

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	U		0.0247	0.100	1	09/29/2021 00:18	WG1745154
(S) o-Terphenyl	*93.2*			*31.0-160*		*09/29/2021 00:18*	WG1745154

TRIP BLANK-EF-03
Collected date/time: 09/14/21 00:00
L1404404

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	09/18/2021 12:44	WG1742363
Benzene	U		0.0000941	0.00100	1	09/18/2021 12:44	WG1742363
Bromodichloromethane	U		0.000136	0.00100	1	09/18/2021 12:44	WG1742363
Bromoform	U		0.000129	0.00100	1	09/18/2021 12:44	WG1742363
Bromomethane	U		0.000605	0.00500	1	09/18/2021 12:44	WG1742363
n-Butylbenzene	U		0.000157	0.00100	1	09/18/2021 12:44	WG1742363
sec-Butylbenzene	U		0.000125	0.00100	1	09/18/2021 12:44	WG1742363
Carbon disulfide	U		0.0000962	0.00100	1	09/18/2021 12:44	WG1742363
Carbon tetrachloride	U		0.000128	0.00100	1	09/18/2021 12:44	WG1742363
Chlorobenzene	U		0.000116	0.00100	1	09/18/2021 12:44	WG1742363
Chlorodibromomethane	U		0.000140	0.00100	1	09/18/2021 12:44	WG1742363
Chloroethane	U		0.000192	0.00500	1	09/18/2021 12:44	WG1742363
Chloroform	U		0.000111	0.00500	1	09/18/2021 12:44	WG1742363
Chloromethane	U		0.000960	0.00250	1	09/18/2021 12:44	WG1742363
1,2-Dibromoethane	U		0.000126	0.00100	1	09/18/2021 12:44	WG1742363
1,1-Dichloroethane	U		0.000100	0.00100	1	09/18/2021 12:44	WG1742363
1,2-Dichloroethane	U		0.0000819	0.00100	1	09/18/2021 12:44	WG1742363
1,1-Dichloroethene	U		0.000188	0.00100	1	09/18/2021 12:44	WG1742363
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	09/18/2021 12:44	WG1742363
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	09/18/2021 12:44	WG1742363
1,2-Dichloropropane	U		0.000149	0.00100	1	09/18/2021 12:44	WG1742363
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	09/18/2021 12:44	WG1742363
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	09/18/2021 12:44	WG1742363
Ethylbenzene	U		0.000137	0.00100	1	09/18/2021 12:44	WG1742363
Isopropylbenzene	U		0.000105	0.00100	1	09/18/2021 12:44	WG1742363
p-Isopropyltoluene	U		0.000120	0.00100	1	09/18/2021 12:44	WG1742363
2-Butanone (MEK)	U		0.00119	0.0100	1	09/18/2021 12:44	WG1742363
2-Hexanone	U		0.000787	0.0100	1	09/18/2021 12:44	WG1742363
Methylene Chloride	U		0.000430	0.00500	1	09/18/2021 12:44	WG1742363
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	09/18/2021 12:44	WG1742363
Methyl tert-butyl ether	U		0.000101	0.00100	1	09/18/2021 12:44	WG1742363
Naphthalene	U		0.00100	0.00500	1	09/18/2021 12:44	WG1742363
n-Propylbenzene	U		0.0000993	0.00100	1	09/18/2021 12:44	WG1742363
Styrene	U		0.000118	0.00100	1	09/18/2021 12:44	WG1742363
tert-Butyl alcohol	U		0.00406	0.00500	1	09/18/2021 12:44	WG1742363
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	09/18/2021 12:44	WG1742363
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	09/18/2021 12:44	WG1742363
Tetrachloroethene	U		0.000300	0.00100	1	09/18/2021 12:44	WG1742363
Toluene	U		0.000278	0.00100	1	09/18/2021 12:44	WG1742363
1,1,1-Trichloroethane	U		0.000149	0.00100	1	09/18/2021 12:44	WG1742363
1,1,2-Trichloroethane	U		0.000158	0.00100	1	09/18/2021 12:44	WG1742363
Trichloroethene	U		0.000190	0.00100	1	09/18/2021 12:44	WG1742363
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/18/2021 12:44	WG1742363
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/18/2021 12:44	WG1742363
Vinyl chloride	U		0.000234	0.00100	1	09/18/2021 12:44	WG1742363
o-Xylene	U		0.000174	0.00100	1	09/18/2021 12:44	WG1742363
m&p-Xylene	U		0.000430	0.00200	1	09/18/2021 12:44	WG1742363
Xylenes, Total	U		0.000174	0.00300	1	09/18/2021 12:44	WG1742363
(S) Toluene-d8	*102*			*80.0-120*		*09/18/2021 12:44*	WG1742363
(S) 4-Bromofluorobenzene	*96.5*			*77.0-126*		*09/18/2021 12:44*	WG1742363
(S) 1,2-Dichloroethane-d4	*95.3*			*70.0-130*		*09/18/2021 12:44*	WG1742363

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1710		10.0	1	09/19/2021 05:03	WG1742563

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0500	0.100	1	09/24/2021 16:51	WG1745429

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	348		3.79	10.0	10	09/22/2021 00:02	WG1743532
Fluoride	0.539		0.0640	0.150	1	09/21/2021 23:15	WG1743532
Sulfate	55.2		0.594	5.00	1	09/21/2021 23:15	WG1743532

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00194	J	0.000180	0.00200	1	09/23/2021 03:43	WG1742033
Barium	0.162		0.000381	0.00200	1	09/23/2021 03:43	WG1742033
Calcium	202		0.0936	1.00	1	09/23/2021 03:43	WG1742033
Chromium	U		0.00124	0.00200	1	09/23/2021 03:43	WG1742033
Iron	U		0.0281	0.100	1	09/23/2021 03:43	WG1742033
Lead	0.00281		0.000849	0.00200	1	09/23/2021 03:43	WG1742033
Manganese	0.390		0.000704	0.00500	1	09/23/2021 03:43	WG1742033
Potassium	0.385	J	0.108	2.00	1	09/23/2021 03:43	WG1742033
Selenium	U		0.000300	0.00200	1	09/23/2021 03:43	WG1742033
Sodium	208		0.376	2.00	1	09/23/2021 03:43	WG1742033

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	22.6		1.57	5.00	50	09/26/2021 23:14	WG1746586
(S) a,a,a-Trifluorotoluene(FID)	*93.9*			*78.0-120*		*09/26/2021 23:14*	WG1746586

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.565	2.50	50	09/18/2021 18:14	WG1742363
Benzene	3.43		0.00471	0.0500	50	09/18/2021 18:14	WG1742363
Bromodichloromethane	U		0.00680	0.0500	50	09/18/2021 18:14	WG1742363
Bromoform	U		0.00645	0.0500	50	09/18/2021 18:14	WG1742363
Bromomethane	U		0.0303	0.250	50	09/18/2021 18:14	WG1742363
n-Butylbenzene	U		0.00785	0.0500	50	09/18/2021 18:14	WG1742363
sec-Butylbenzene	U		0.00625	0.0500	50	09/18/2021 18:14	WG1742363
Carbon disulfide	U		0.00481	0.0500	50	09/18/2021 18:14	WG1742363
Carbon tetrachloride	U		0.00640	0.0500	50	09/18/2021 18:14	WG1742363
Chlorobenzene	U		0.00580	0.0500	50	09/18/2021 18:14	WG1742363
Chlorodibromomethane	U		0.00700	0.0500	50	09/18/2021 18:14	WG1742363
Chloroethane	U		0.00960	0.250	50	09/18/2021 18:14	WG1742363
Chloroform	U		0.00555	0.250	50	09/18/2021 18:14	WG1742363
Chloromethane	U		0.0480	0.125	50	09/18/2021 18:14	WG1742363
1,2-Dibromoethane	U		0.00630	0.0500	50	09/18/2021 18:14	WG1742363
1,1-Dichloroethane	U		0.00500	0.0500	50	09/18/2021 18:14	WG1742363

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.00409	0.0500	50	09/18/2021 18:14	WG1742363
1,1-Dichloroethene	U		0.00940	0.0500	50	09/18/2021 18:14	WG1742363
cis-1,2-Dichloroethene	U		0.00630	0.0500	50	09/18/2021 18:14	WG1742363
trans-1,2-Dichloroethene	U		0.00745	0.0500	50	09/18/2021 18:14	WG1742363
1,2-Dichloropropane	U		0.00745	0.0500	50	09/18/2021 18:14	WG1742363
cis-1,3-Dichloropropene	U		0.00555	0.0500	50	09/18/2021 18:14	WG1742363
trans-1,3-Dichloropropene	U		0.00590	0.0500	50	09/18/2021 18:14	WG1742363
Ethylbenzene	2.14		0.00685	0.0500	50	09/18/2021 18:14	WG1742363
Isopropylbenzene	0.109		0.00525	0.0500	50	09/18/2021 18:14	WG1742363
p-Isopropyltoluene	U		0.00600	0.0500	50	09/18/2021 18:14	WG1742363
2-Butanone (MEK)	U		0.0595	0.500	50	09/18/2021 18:14	WG1742363
2-Hexanone	U		0.0394	0.500	50	09/18/2021 18:14	WG1742363
Methylene Chloride	U		0.0215	0.250	50	09/18/2021 18:14	WG1742363
4-Methyl-2-pentanone (MIBK)	U		0.0239	0.500	50	09/18/2021 18:14	WG1742363
Methyl tert-butyl ether	0.0544		0.00505	0.0500	50	09/18/2021 18:14	WG1742363
Naphthalene	0.158	J	0.0500	0.250	50	09/18/2021 18:14	WG1742363
n-Propylbenzene	0.153		0.00497	0.0500	50	09/18/2021 18:14	WG1742363
Styrene	U		0.00590	0.0500	50	09/18/2021 18:14	WG1742363
tert-Butyl alcohol	U		0.203	0.250	50	09/18/2021 18:14	WG1742363
1,1,1,2-Tetrachloroethane	U		0.00735	0.0500	50	09/18/2021 18:14	WG1742363
1,1,2,2-Tetrachloroethane	U		0.00665	0.0500	50	09/18/2021 18:14	WG1742363
Tetrachloroethene	U		0.0150	0.0500	50	09/18/2021 18:14	WG1742363
Toluene	0.0330	J	0.0139	0.0500	50	09/18/2021 18:14	WG1742363
1,1,1-Trichloroethane	U		0.00745	0.0500	50	09/18/2021 18:14	WG1742363
1,1,2-Trichloroethane	U		0.00790	0.0500	50	09/18/2021 18:14	WG1742363
Trichloroethene	U		0.00950	0.0500	50	09/18/2021 18:14	WG1742363
1,2,4-Trimethylbenzene	0.564		0.0161	0.0500	50	09/18/2021 18:14	WG1742363
1,3,5-Trimethylbenzene	U		0.00520	0.0500	50	09/18/2021 18:14	WG1742363
Vinyl chloride	U		0.0117	0.0500	50	09/18/2021 18:14	WG1742363
o-Xylene	U		0.00870	0.0500	50	09/18/2021 18:14	WG1742363
m&p-Xylene	0.877		0.0215	0.100	50	09/18/2021 18:14	WG1742363
Xylenes, Total	0.877		0.00870	0.150	50	09/18/2021 18:14	WG1742363
(S) Toluene-d8	*104*			*80.0-120*		*09/18/2021 18:14*	WG1742363
(S) 4-Bromofluorobenzene	*97.7*			*77.0-126*		*09/18/2021 18:14*	WG1742363
(S) 1,2-Dichloroethane-d4	*93.0*			*70.0-130*		*09/18/2021 18:14*	WG1742363

EDB / DBCP by Method 8011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Ethylene Dibromide	U		0.00000536	0.0000200	1	09/21/2021 17:35	WG1743427

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	6.19		0.0247	0.100	1	09/29/2021 00:44	WG1745154
(S) o-Terphenyl	*257*	J1		*31.0-160*		*09/29/2021 00:44*	WG1745154

Sample Narrative:

L1404404-46 WG1745154: Surrogate failure due to matrix interference

Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	U		0.0000447	0.000400	1	09/18/2021 11:23	WG1742046
(S) Nitrobenzene-d5	*48.7*			*10.0-120*		*09/18/2021 11:23*	WG1742046

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4900		20.0	1	09/19/2021 05:03	WG1742563

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	5.94		0.500	1.00	10	09/24/2021 16:52	WG1745429

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	324		37.9	100	100	09/22/2021 00:34	WG1743532
Fluoride	0.905		0.0640	0.150	1	09/22/2021 00:18	WG1743532
Sulfate	2820		59.4	500	100	09/22/2021 00:34	WG1743532

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00375		0.000180	0.00200	1	09/23/2021 03:47	WG1742033
Barium	0.00927		0.000381	0.00200	1	09/23/2021 03:47	WG1742033
Calcium	503		0.0936	1.00	1	09/23/2021 03:47	WG1742033
Chromium	U		0.00124	0.00200	1	09/23/2021 03:47	WG1742033
Iron	0.0299	J	0.0281	0.100	1	09/23/2021 03:47	WG1742033
Lead	U		0.000849	0.00200	1	09/23/2021 03:47	WG1742033
Manganese	0.115		0.000704	0.00500	1	09/23/2021 03:47	WG1742033
Potassium	1.44	J	0.108	2.00	1	09/23/2021 03:47	WG1742033
Selenium	0.00469		0.000300	0.00200	1	09/23/2021 03:47	WG1742033
Sodium	248		0.376	2.00	1	09/23/2021 03:47	WG1742033

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	09/25/2021 09:57	WG1744684
(S) a,a,a-Trifluorotoluene(FID)	*94.0*			*78.0-120*		*09/25/2021 09:57*	WG1744684

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	09/18/2021 17:12	WG1742363
Benzene	U		0.0000941	0.00100	1	09/18/2021 17:12	WG1742363
Bromodichloromethane	U		0.000136	0.00100	1	09/18/2021 17:12	WG1742363
Bromoform	U		0.000129	0.00100	1	09/18/2021 17:12	WG1742363
Bromomethane	U		0.000605	0.00500	1	09/18/2021 17:12	WG1742363
n-Butylbenzene	U		0.000157	0.00100	1	09/18/2021 17:12	WG1742363
sec-Butylbenzene	U		0.000125	0.00100	1	09/18/2021 17:12	WG1742363
Carbon disulfide	U		0.0000962	0.00100	1	09/18/2021 17:12	WG1742363
Carbon tetrachloride	U		0.000128	0.00100	1	09/18/2021 17:12	WG1742363
Chlorobenzene	U		0.000116	0.00100	1	09/18/2021 17:12	WG1742363
Chlorodibromomethane	U		0.000140	0.00100	1	09/18/2021 17:12	WG1742363
Chloroethane	U		0.000192	0.00500	1	09/18/2021 17:12	WG1742363
Chloroform	U		0.000111	0.00500	1	09/18/2021 17:12	WG1742363
Chloromethane	U		0.000960	0.00250	1	09/18/2021 17:12	WG1742363
1,2-Dibromoethane	U		0.000126	0.00100	1	09/18/2021 17:12	WG1742363
1,1-Dichloroethane	U		0.000100	0.00100	1	09/18/2021 17:12	WG1742363

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.0000819	0.00100	1	09/18/2021 17:12	WG1742363
1,1-Dichloroethene	U		0.000188	0.00100	1	09/18/2021 17:12	WG1742363
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	09/18/2021 17:12	WG1742363
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	09/18/2021 17:12	WG1742363
1,2-Dichloropropane	U		0.000149	0.00100	1	09/18/2021 17:12	WG1742363
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	09/18/2021 17:12	WG1742363
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	09/18/2021 17:12	WG1742363
Ethylbenzene	U		0.000137	0.00100	1	09/18/2021 17:12	WG1742363
Isopropylbenzene	U		0.000105	0.00100	1	09/18/2021 17:12	WG1742363
p-Isopropyltoluene	U		0.000120	0.00100	1	09/18/2021 17:12	WG1742363
2-Butanone (MEK)	U		0.00119	0.0100	1	09/18/2021 17:12	WG1742363
2-Hexanone	U		0.000787	0.0100	1	09/18/2021 17:12	WG1742363
Methylene Chloride	U		0.000430	0.00500	1	09/18/2021 17:12	WG1742363
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	09/18/2021 17:12	WG1742363
Methyl tert-butyl ether	U		0.000101	0.00100	1	09/18/2021 17:12	WG1742363
Naphthalene	U		0.00100	0.00500	1	09/18/2021 17:12	WG1742363
n-Propylbenzene	U		0.0000993	0.00100	1	09/18/2021 17:12	WG1742363
Styrene	U		0.000118	0.00100	1	09/18/2021 17:12	WG1742363
tert-Butyl alcohol	U		0.00406	0.00500	1	09/18/2021 17:12	WG1742363
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	09/18/2021 17:12	WG1742363
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	09/18/2021 17:12	WG1742363
Tetrachloroethene	U		0.000300	0.00100	1	09/18/2021 17:12	WG1742363
Toluene	U		0.000278	0.00100	1	09/18/2021 17:12	WG1742363
1,1,1-Trichloroethane	U		0.000149	0.00100	1	09/18/2021 17:12	WG1742363
1,1,2-Trichloroethane	U		0.000158	0.00100	1	09/18/2021 17:12	WG1742363
Trichloroethene	U		0.000190	0.00100	1	09/18/2021 17:12	WG1742363
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/18/2021 17:12	WG1742363
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/18/2021 17:12	WG1742363
Vinyl chloride	U		0.000234	0.00100	1	09/18/2021 17:12	WG1742363
o-Xylene	U		0.000174	0.00100	1	09/18/2021 17:12	WG1742363
m&p-Xylene	U		0.000430	0.00200	1	09/18/2021 17:12	WG1742363
Xylenes, Total	U		0.000174	0.00300	1	09/18/2021 17:12	WG1742363
(S) Toluene-d8	*103*			*80.0-120*		*09/18/2021 17:12*	WG1742363
(S) 4-Bromofluorobenzene	*98.4*			*77.0-126*		*09/18/2021 17:12*	WG1742363
(S) 1,2-Dichloroethane-d4	*96.5*			*70.0-130*		*09/18/2021 17:12*	WG1742363

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.297		0.0247	0.100	1	09/30/2021 11:26	WG1746820
(S) o-Terphenyl	*102*			*31.0-160*		*09/30/2021 11:26*	WG1746820

Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	U		0.0000447	0.000400	1	09/20/2021 21:33	WG1742899
(S) Nitrobenzene-d5	*61.1*			*10.0-120*		*09/20/2021 21:33*	WG1742899

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2830		10.0	1	09/19/2021 05:03	WG1742563

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	1.05		0.0500	0.100	1	09/25/2021 21:28	WG1745430

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	171		37.9	100	100	09/22/2021 01:06	WG1743532
Fluoride	0.281		0.0640	0.150	1	09/22/2021 00:50	WG1743532
Sulfate	1660		59.4	500	100	09/22/2021 01:06	WG1743532

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Calcium	461		0.0936	1.00	1	09/23/2021 03:50	WG1742033
Potassium	2.29		0.108	2.00	1	09/23/2021 03:50	WG1742033
Sodium	126		0.376	2.00	1	09/23/2021 03:50	WG1742033

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	09/19/2021 16:27	WG1742732
Benzene	U		0.0000941	0.00100	1	09/19/2021 16:27	WG1742732
Bromodichloromethane	U		0.000136	0.00100	1	09/19/2021 16:27	WG1742732
Bromoform	U		0.000129	0.00100	1	09/19/2021 16:27	WG1742732
Bromomethane	U		0.000605	0.00500	1	09/19/2021 16:27	WG1742732
n-Butylbenzene	U		0.000157	0.00100	1	09/19/2021 16:27	WG1742732
sec-Butylbenzene	U		0.000125	0.00100	1	09/19/2021 16:27	WG1742732
Carbon disulfide	U		0.0000962	0.00100	1	09/19/2021 16:27	WG1742732
Carbon tetrachloride	U		0.000128	0.00100	1	09/19/2021 16:27	WG1742732
Chlorobenzene	U		0.000116	0.00100	1	09/19/2021 16:27	WG1742732
Chlorodibromomethane	U		0.000140	0.00100	1	09/19/2021 16:27	WG1742732
Chloroethane	U		0.000192	0.00500	1	09/19/2021 16:27	WG1742732
Chloroform	U		0.000111	0.00500	1	09/19/2021 16:27	WG1742732
Chloromethane	U		0.000960	0.00250	1	09/19/2021 16:27	WG1742732
1,2-Dibromoethane	U		0.000126	0.00100	1	09/19/2021 16:27	WG1742732
1,1-Dichloroethane	U		0.000100	0.00100	1	09/19/2021 16:27	WG1742732
1,2-Dichloroethane	0.00209		0.0000819	0.00100	1	09/19/2021 16:27	WG1742732
1,1-Dichloroethene	U		0.000188	0.00100	1	09/19/2021 16:27	WG1742732
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	09/19/2021 16:27	WG1742732
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	09/19/2021 16:27	WG1742732
1,2-Dichloropropane	U		0.000149	0.00100	1	09/19/2021 16:27	WG1742732
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	09/19/2021 16:27	WG1742732
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	09/19/2021 16:27	WG1742732
Ethylbenzene	U		0.000137	0.00100	1	09/19/2021 16:27	WG1742732
Isopropylbenzene	U		0.000105	0.00100	1	09/19/2021 16:27	WG1742732
p-Isopropyltoluene	U		0.000120	0.00100	1	09/19/2021 16:27	WG1742732
2-Butanone (MEK)	U		0.00119	0.0100	1	09/19/2021 16:27	WG1742732
2-Hexanone	U		0.000787	0.0100	1	09/19/2021 16:27	WG1742732
Methylene Chloride	U		0.000430	0.00500	1	09/19/2021 16:27	WG1742732
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	09/19/2021 16:27	WG1742732

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	0.0166		0.000101	0.00100	1	09/19/2021 16:27	WG1742732
Naphthalene	U		0.00100	0.00500	1	09/19/2021 16:27	WG1742732
n-Propylbenzene	U		0.0000993	0.00100	1	09/19/2021 16:27	WG1742732
Styrene	U		0.000118	0.00100	1	09/19/2021 16:27	WG1742732
tert-Butyl alcohol	U		0.00406	0.00500	1	09/19/2021 16:27	WG1742732
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	09/19/2021 16:27	WG1742732
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	09/19/2021 16:27	WG1742732
Tetrachloroethene	U		0.000300	0.00100	1	09/19/2021 16:27	WG1742732
Toluene	U		0.000278	0.00100	1	09/19/2021 16:27	WG1742732
1,1,1-Trichloroethane	U		0.000149	0.00100	1	09/19/2021 16:27	WG1742732
1,1,2-Trichloroethane	U		0.000158	0.00100	1	09/19/2021 16:27	WG1742732
Trichloroethene	U		0.000190	0.00100	1	09/19/2021 16:27	WG1742732
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/19/2021 16:27	WG1742732
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/19/2021 16:27	WG1742732
Vinyl chloride	U		0.000234	0.00100	1	09/19/2021 16:27	WG1742732
o-Xylene	U		0.000174	0.00100	1	09/19/2021 16:27	WG1742732
m&p-Xylene	U		0.000430	0.00200	1	09/19/2021 16:27	WG1742732
Xylenes, Total	U		0.000174	0.00300	1	09/19/2021 16:27	WG1742732
(S) Toluene-d8	*97.6*			*80.0-120*		*09/19/2021 16:27*	WG1742732
(S) 4-Bromofluorobenzene	*90.8*			*77.0-126*		*09/19/2021 16:27*	WG1742732
(S) 1,2-Dichloroethane-d4	*116*			*70.0-130*		*09/19/2021 16:27*	WG1742732

EDB / DBCP by Method 8011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Ethylene Dibromide	U		0.00000536	0.0000200	1	09/21/2021 17:47	WG1743427

Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	U		0.0000447	0.000400	1	09/18/2021 11:42	WG1742046
(S) Nitrobenzene-d5	*51.5*			*10.0-120*		*09/18/2021 11:42*	WG1742046

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3020		20.0	1	09/19/2021 05:03	WG1742563

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.250	0.500	5	09/25/2021 21:31	WG1745430

Wet Chemistry by Method 4500CN E-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Cyanide	U		0.0180	0.0500	10	09/23/2021 16:57	WG1745026

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	348		37.9	100	100	09/22/2021 01:38	WG1743532
Fluoride	0.736		0.0640	0.150	1	09/22/2021 01:22	WG1743532
Sulfate	1340		59.4	500	100	09/22/2021 01:38	WG1743532

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U		0.000100	0.000200	1	09/22/2021 15:10	WG1741778

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	0.450		0.0200	0.200	1	09/23/2021 04:10	WG1742039

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.000478	J	0.000180	0.00200	1	09/23/2021 03:54	WG1742033
Barium	0.0668		0.000381	0.00200	1	09/23/2021 03:54	WG1742033
Cadmium	U		0.000150	0.00100	1	09/23/2021 03:54	WG1742033
Calcium	371		0.0936	1.00	1	09/23/2021 03:54	WG1742033
Chromium	U		0.00124	0.00200	1	09/23/2021 03:54	WG1742033
Cobalt	0.000222	J	0.0000596	0.00200	1	09/23/2021 03:54	WG1742033
Iron	0.673		0.0281	0.100	1	09/23/2021 03:54	WG1742033
Lead	0.00123	J	0.000849	0.00200	1	09/23/2021 03:54	WG1742033
Manganese	2.06		0.000704	0.00500	1	09/23/2021 03:54	WG1742033
Nickel	0.000855	J	0.000816	0.00200	1	09/23/2021 03:54	WG1742033
Potassium	0.288	J	0.108	2.00	1	09/23/2021 03:54	WG1742033
Selenium	U		0.000300	0.00200	1	09/23/2021 03:54	WG1742033
Sodium	231		0.376	2.00	1	09/23/2021 03:54	WG1742033
Uranium	0.000474	J	0.0000789	0.00100	1	09/23/2021 03:54	WG1742033
Vanadium	0.00116	J	0.000664	0.00500	1	09/23/2021 03:54	WG1742033

KWD-7
Collected date/time: 09/14/21 14:35
L1404404

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	09/19/2021 16:48	WG1742732
Benzene	0.0131		0.0000941	0.00100	1	09/19/2021 16:48	WG1742732
Bromodichloromethane	U		0.000136	0.00100	1	09/19/2021 16:48	WG1742732
Bromoform	U		0.000129	0.00100	1	09/19/2021 16:48	WG1742732
Bromomethane	U		0.000605	0.00500	1	09/19/2021 16:48	WG1742732
n-Butylbenzene	0.00291		0.000157	0.00100	1	09/19/2021 16:48	WG1742732
sec-Butylbenzene	0.0155		0.000125	0.00100	1	09/19/2021 16:48	WG1742732
Carbon disulfide	0.000243	J	0.0000962	0.00100	1	09/19/2021 16:48	WG1742732
Carbon tetrachloride	U		0.000128	0.00100	1	09/19/2021 16:48	WG1742732
Chlorobenzene	U		0.000116	0.00100	1	09/19/2021 16:48	WG1742732
Chlorodibromomethane	U		0.000140	0.00100	1	09/19/2021 16:48	WG1742732
Chloroethane	U		0.000192	0.00500	1	09/19/2021 16:48	WG1742732
Chloroform	U		0.000111	0.00500	1	09/19/2021 16:48	WG1742732
Chloromethane	U		0.000960	0.00250	1	09/19/2021 16:48	WG1742732
1,2-Dibromoethane	U		0.000126	0.00100	1	09/19/2021 16:48	WG1742732
1,1-Dichloroethane	U		0.000100	0.00100	1	09/19/2021 16:48	WG1742732
1,2-Dichloroethane	U		0.0000819	0.00100	1	09/19/2021 16:48	WG1742732
1,1-Dichloroethene	U		0.000188	0.00100	1	09/19/2021 16:48	WG1742732
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	09/19/2021 16:48	WG1742732
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	09/19/2021 16:48	WG1742732
1,2-Dichloropropane	U		0.000149	0.00100	1	09/19/2021 16:48	WG1742732
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	09/19/2021 16:48	WG1742732
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	09/19/2021 16:48	WG1742732
Ethylbenzene	0.331		0.00137	0.0100	10	09/28/2021 01:29	WG1747403
Isopropylbenzene	0.105		0.000105	0.00100	1	09/19/2021 16:48	WG1742732
p-Isopropyltoluene	0.00284		0.000120	0.00100	1	09/19/2021 16:48	WG1742732
2-Butanone (MEK)	U		0.00119	0.0100	1	09/19/2021 16:48	WG1742732
2-Hexanone	U		0.000787	0.0100	1	09/19/2021 16:48	WG1742732
Methylene Chloride	U		0.000430	0.00500	1	09/19/2021 16:48	WG1742732
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	09/19/2021 16:48	WG1742732
Methyl tert-butyl ether	0.00580		0.000101	0.00100	1	09/19/2021 16:48	WG1742732
Naphthalene	0.0108		0.00100	0.00500	1	09/19/2021 16:48	WG1742732
n-Propylbenzene	0.119		0.000993	0.0100	10	09/28/2021 01:29	WG1747403
Styrene	U		0.000118	0.00100	1	09/19/2021 16:48	WG1742732
tert-Butyl alcohol	0.0287		0.00406	0.00500	1	09/19/2021 16:48	WG1742732
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	09/19/2021 16:48	WG1742732
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	09/19/2021 16:48	WG1742732
Tetrachloroethene	U		0.000300	0.00100	1	09/19/2021 16:48	WG1742732
Toluene	0.00322		0.000278	0.00100	1	09/19/2021 16:48	WG1742732
1,1,1-Trichloroethane	U		0.000149	0.00100	1	09/19/2021 16:48	WG1742732
1,1,2-Trichloroethane	U		0.000158	0.00100	1	09/19/2021 16:48	WG1742732
Trichloroethene	U		0.000190	0.00100	1	09/19/2021 16:48	WG1742732
1,2,4-Trimethylbenzene	0.200		0.000322	0.00100	1	09/19/2021 16:48	WG1742732
1,3,5-Trimethylbenzene	0.000709	J	0.000104	0.00100	1	09/19/2021 16:48	WG1742732
Vinyl chloride	U		0.000234	0.00100	1	09/19/2021 16:48	WG1742732
o-Xylene	0.00582		0.000174	0.00100	1	09/19/2021 16:48	WG1742732
m&p-Xylene	0.0764		0.000430	0.00200	1	09/19/2021 16:48	WG1742732
Xylenes, Total	0.0822		0.000174	0.00300	1	09/19/2021 16:48	WG1742732
(S) Toluene-d8	*98.0*			*80.0-120*		*09/19/2021 16:48*	WG1742732
(S) Toluene-d8	*102*			*80.0-120*		*09/28/2021 01:29*	WG1747403
(S) 4-Bromofluorobenzene	*101*			*77.0-126*		*09/19/2021 16:48*	WG1742732
(S) 4-Bromofluorobenzene	*99.1*			*77.0-126*		*09/28/2021 01:29*	WG1747403
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*09/19/2021 16:48*	WG1742732
(S) 1,2-Dichloroethane-d4	*92.9*			*70.0-130*		*09/28/2021 01:29*	WG1747403

KWD-7
Collected date/time: 09/14/21 14:35
L1404404

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) High Fraction	1.37		0.0247	0.100	1	09/29/2021 08:00	WG1745179
(S) o-Terphenyl	*97.9*			*31.0-160*		*09/29/2021 08:00*	WG1745179

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	5640		20.0	1	09/19/2021 05:03	WG1742563

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	11.9		0.250	0.500	5	09/25/2021 21:33	WG1745430

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	514		37.9	100	100	09/21/2021 22:23	WG1743622
Fluoride	1.24		0.0640	0.150	1	09/21/2021 22:07	WG1743622
Sulfate	2960		59.4	500	100	09/21/2021 22:23	WG1743622

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00300		0.000180	0.00200	1	09/23/2021 03:57	WG1742033
Barium	0.0186		0.000381	0.00200	1	09/23/2021 03:57	WG1742033
Calcium	538		0.0936	1.00	1	09/23/2021 03:57	WG1742033
Chromium	U		0.00124	0.00200	1	09/23/2021 03:57	WG1742033
Iron	0.253		0.0281	0.100	1	09/23/2021 03:57	WG1742033
Lead	U		0.000849	0.00200	1	09/23/2021 03:57	WG1742033
Manganese	0.0142		0.000704	0.00500	1	09/23/2021 03:57	WG1742033
Potassium	0.875	J	0.108	2.00	1	09/23/2021 03:57	WG1742033
Selenium	0.0221		0.000300	0.00200	1	09/23/2021 03:57	WG1742033
Sodium	560		0.376	2.00	1	09/23/2021 03:57	WG1742033

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	09/25/2021 10:25	WG1744684
(S) a,a,a-Trifluorotoluene(FID)	*94.0*			*78.0-120*		*09/25/2021 10:25*	WG1744684

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	09/19/2021 17:08	WG1742732
Benzene	U		0.0000941	0.00100	1	09/19/2021 17:08	WG1742732
Bromodichloromethane	U		0.000136	0.00100	1	09/19/2021 17:08	WG1742732
Bromoform	U		0.000129	0.00100	1	09/19/2021 17:08	WG1742732
Bromomethane	U		0.000605	0.00500	1	09/19/2021 17:08	WG1742732
n-Butylbenzene	U		0.000157	0.00100	1	09/19/2021 17:08	WG1742732
sec-Butylbenzene	0.000393	J	0.000125	0.00100	1	09/19/2021 17:08	WG1742732
Carbon disulfide	0.000131	J	0.0000962	0.00100	1	09/19/2021 17:08	WG1742732
Carbon tetrachloride	U		0.000128	0.00100	1	09/19/2021 17:08	WG1742732
Chlorobenzene	U		0.000116	0.00100	1	09/19/2021 17:08	WG1742732
Chlorodibromomethane	U		0.000140	0.00100	1	09/19/2021 17:08	WG1742732
Chloroethane	U		0.000192	0.00500	1	09/19/2021 17:08	WG1742732
Chloroform	U		0.000111	0.00500	1	09/19/2021 17:08	WG1742732
Chloromethane	U		0.000960	0.00250	1	09/19/2021 17:08	WG1742732
1,2-Dibromoethane	U		0.000126	0.00100	1	09/19/2021 17:08	WG1742732
1,1-Dichloroethane	U		0.000100	0.00100	1	09/19/2021 17:08	WG1742732

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.0000819	0.00100	1	09/19/2021 17:08	WG1742732
1,1-Dichloroethene	U		0.000188	0.00100	1	09/19/2021 17:08	WG1742732
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	09/19/2021 17:08	WG1742732
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	09/19/2021 17:08	WG1742732
1,2-Dichloropropane	U		0.000149	0.00100	1	09/19/2021 17:08	WG1742732
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	09/19/2021 17:08	WG1742732
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	09/19/2021 17:08	WG1742732
Ethylbenzene	U		0.000137	0.00100	1	09/28/2021 00:26	WG1747403
Isopropylbenzene	0.00119		0.000105	0.00100	1	09/19/2021 17:08	WG1742732
p-Isopropyltoluene	U		0.000120	0.00100	1	09/19/2021 17:08	WG1742732
2-Butanone (MEK)	U		0.00119	0.0100	1	09/19/2021 17:08	WG1742732
2-Hexanone	U		0.000787	0.0100	1	09/19/2021 17:08	WG1742732
Methylene Chloride	U		0.000430	0.00500	1	09/19/2021 17:08	WG1742732
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	09/19/2021 17:08	WG1742732
Methyl tert-butyl ether	U		0.000101	0.00100	1	09/19/2021 17:08	WG1742732
Naphthalene	0.00174	J	0.00100	0.00500	1	09/19/2021 17:08	WG1742732
n-Propylbenzene	U		0.0000993	0.00100	1	09/28/2021 00:26	WG1747403
Styrene	U		0.000118	0.00100	1	09/19/2021 17:08	WG1742732
tert-Butyl alcohol	U		0.00406	0.00500	1	09/19/2021 17:08	WG1742732
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	09/19/2021 17:08	WG1742732
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	09/19/2021 17:08	WG1742732
Tetrachloroethene	U		0.000300	0.00100	1	09/19/2021 17:08	WG1742732
Toluene	U		0.000278	0.00100	1	09/19/2021 17:08	WG1742732
1,1,1-Trichloroethane	U		0.000149	0.00100	1	09/19/2021 17:08	WG1742732
1,1,2-Trichloroethane	U		0.000158	0.00100	1	09/19/2021 17:08	WG1742732
Trichloroethene	U		0.000190	0.00100	1	09/19/2021 17:08	WG1742732
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/28/2021 00:26	WG1747403
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/19/2021 17:08	WG1742732
Vinyl chloride	U		0.000234	0.00100	1	09/19/2021 17:08	WG1742732
o-Xylene	U		0.000174	0.00100	1	09/19/2021 17:08	WG1742732
m&p-Xylene	0.000707	J	0.000430	0.00200	1	09/19/2021 17:08	WG1742732
Xylenes, Total	0.000707	J	0.000174	0.00300	1	09/19/2021 17:08	WG1742732
(S) Toluene-d8	*97.1*			*80.0-120*		*09/19/2021 17:08*	WG1742732
(S) Toluene-d8	*102*			*80.0-120*		*09/28/2021 00:26*	WG1747403
(S) 4-Bromofluorobenzene	*89.6*			*77.0-126*		*09/19/2021 17:08*	WG1742732
(S) 4-Bromofluorobenzene	*95.0*			*77.0-126*		*09/28/2021 00:26*	WG1747403
(S) 1,2-Dichloroethane-d4	*115*			*70.0-130*		*09/19/2021 17:08*	WG1742732
(S) 1,2-Dichloroethane-d4	*90.8*			*70.0-130*		*09/28/2021 00:26*	WG1747403

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	U		0.0247	0.100	1	09/29/2021 08:22	WG1745179
(S) o-Terphenyl	*93.2*			*31.0-160*		*09/29/2021 08:22*	WG1745179

Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	U		0.0000447	0.000400	1	09/19/2021 12:38	WG1742189
(S) Nitrobenzene-d5	*48.4*			*10.0-120*		*09/19/2021 12:38*	WG1742189

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	09/19/2021 17:29	WG1742732
Benzene	U		0.0000941	0.00100	1	09/19/2021 17:29	WG1742732
Bromodichloromethane	U		0.000136	0.00100	1	09/19/2021 17:29	WG1742732
Bromoform	U		0.000129	0.00100	1	09/19/2021 17:29	WG1742732
Bromomethane	U		0.000605	0.00500	1	09/19/2021 17:29	WG1742732
n-Butylbenzene	U		0.000157	0.00100	1	09/19/2021 17:29	WG1742732
sec-Butylbenzene	U		0.000125	0.00100	1	09/19/2021 17:29	WG1742732
Carbon disulfide	0.000154	J	0.0000962	0.00100	1	09/19/2021 17:29	WG1742732
Carbon tetrachloride	U		0.000128	0.00100	1	09/19/2021 17:29	WG1742732
Chlorobenzene	U		0.000116	0.00100	1	09/19/2021 17:29	WG1742732
Chlorodibromomethane	U		0.000140	0.00100	1	09/19/2021 17:29	WG1742732
Chloroethane	U		0.000192	0.00500	1	09/19/2021 17:29	WG1742732
Chloroform	U		0.000111	0.00500	1	09/19/2021 17:29	WG1742732
Chloromethane	U		0.000960	0.00250	1	09/19/2021 17:29	WG1742732
1,2-Dibromoethane	U		0.000126	0.00100	1	09/19/2021 17:29	WG1742732
1,1-Dichloroethane	U		0.000100	0.00100	1	09/19/2021 17:29	WG1742732
1,2-Dichloroethane	U		0.0000819	0.00100	1	09/19/2021 17:29	WG1742732
1,1-Dichloroethene	U		0.000188	0.00100	1	09/19/2021 17:29	WG1742732
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	09/19/2021 17:29	WG1742732
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	09/19/2021 17:29	WG1742732
1,2-Dichloropropane	U		0.000149	0.00100	1	09/19/2021 17:29	WG1742732
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	09/19/2021 17:29	WG1742732
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	09/19/2021 17:29	WG1742732
Ethylbenzene	U		0.00343	0.0250	25	09/28/2021 01:49	WG1747403
Isopropylbenzene	0.000159	J	0.000105	0.00100	1	09/19/2021 17:29	WG1742732
p-Isopropyltoluene	U		0.000120	0.00100	1	09/19/2021 17:29	WG1742732
2-Butanone (MEK)	U		0.00119	0.0100	1	09/19/2021 17:29	WG1742732
2-Hexanone	U		0.000787	0.0100	1	09/19/2021 17:29	WG1742732
Methylene Chloride	U		0.000430	0.00500	1	09/19/2021 17:29	WG1742732
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	09/19/2021 17:29	WG1742732
Methyl tert-butyl ether	0.503		0.00253	0.0250	25	09/28/2021 01:49	WG1747403
Naphthalene	0.00145	J	0.00100	0.00500	1	09/19/2021 17:29	WG1742732
n-Propylbenzene	U		0.00248	0.0250	25	09/28/2021 01:49	WG1747403
Styrene	U		0.000118	0.00100	1	09/19/2021 17:29	WG1742732
tert-Butyl alcohol	U		0.00406	0.00500	1	09/19/2021 17:29	WG1742732
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	09/19/2021 17:29	WG1742732
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	09/19/2021 17:29	WG1742732
Tetrachloroethene	U		0.000300	0.00100	1	09/19/2021 17:29	WG1742732
Toluene	U		0.000278	0.00100	1	09/19/2021 17:29	WG1742732
1,1,1-Trichloroethane	U		0.000149	0.00100	1	09/19/2021 17:29	WG1742732
1,1,2-Trichloroethane	U		0.000158	0.00100	1	09/19/2021 17:29	WG1742732
Trichloroethene	U		0.000190	0.00100	1	09/19/2021 17:29	WG1742732
1,2,4-Trimethylbenzene	U		0.00805	0.0250	25	09/28/2021 01:49	WG1747403
1,3,5-Trimethylbenzene	0.000215	J	0.000104	0.00100	1	09/19/2021 17:29	WG1742732
Vinyl chloride	U		0.000234	0.00100	1	09/19/2021 17:29	WG1742732
o-Xylene	U		0.000174	0.00100	1	09/19/2021 17:29	WG1742732
m&p-Xylene	U		0.000430	0.00200	1	09/19/2021 17:29	WG1742732
Xylenes, Total	U		0.000174	0.00300	1	09/19/2021 17:29	WG1742732
(S) Toluene-d8	*96.8*			*80.0-120*		*09/19/2021 17:29*	WG1742732
(S) Toluene-d8	*99.7*			*80.0-120*		*09/28/2021 01:49*	WG1747403
(S) 4-Bromofluorobenzene	*90.6*			*77.0-126*		*09/19/2021 17:29*	WG1742732
(S) 4-Bromofluorobenzene	*95.0*			*77.0-126*		*09/28/2021 01:49*	WG1747403
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*09/19/2021 17:29*	WG1742732
(S) 1,2-Dichloroethane-d4	*92.8*			*70.0-130*		*09/28/2021 01:49*	WG1747403

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Ethylene Dibromide	U		0.00000536	0.0000200	1	09/21/2021 18:00	WG1743427

Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
1,4-Dioxane	0.000228	J	0.0000447	0.000400	1	09/20/2021 21:52	WG1742899
(S) Nitrobenzene-d5	*59.9*			*10.0-120*		*09/20/2021 21:52*	WG1742899

MW-21
Collected date/time: 09/15/21 10:45
L1404404

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	5490		20.0	1	09/19/2021 05:03	WG1742563

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	17.1		0.250	0.500	5	09/25/2021 21:35	WG1745430

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	647		37.9	100	100	09/21/2021 22:55	WG1743622
Fluoride	1.91		0.0640	0.150	1	09/21/2021 22:39	WG1743622
Sulfate	2770		59.4	500	100	09/21/2021 22:55	WG1743622

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00490		0.000180	0.00200	1	09/23/2021 04:00	WG1742033
Barium	0.0104		0.000381	0.00200	1	09/23/2021 04:00	WG1742033
Calcium	546		0.0936	1.00	1	09/23/2021 04:00	WG1742033
Chromium	U		0.00124	0.00200	1	09/23/2021 04:00	WG1742033
Iron	U		0.0281	0.100	1	09/23/2021 04:00	WG1742033
Lead	U		0.000849	0.00200	1	09/23/2021 04:00	WG1742033
Manganese	1.35		0.000704	0.00500	1	09/23/2021 04:00	WG1742033
Potassium	2.06		0.108	2.00	1	09/23/2021 04:00	WG1742033
Selenium	0.0557		0.000300	0.00200	1	09/23/2021 04:00	WG1742033
Sodium	423		0.376	2.00	1	09/23/2021 04:00	WG1742033

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.100	J	0.0314	0.100	1	09/25/2021 10:53	WG1744684
(S) a,a,a-Trifluorotoluene(FID)	*93.9*			*78.0-120*		*09/25/2021 10:53*	WG1744684

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	09/19/2021 17:49	WG1742732
Benzene	U		0.0000941	0.00100	1	09/19/2021 17:49	WG1742732
Bromodichloromethane	U		0.000136	0.00100	1	09/19/2021 17:49	WG1742732
Bromoform	U		0.000129	0.00100	1	09/19/2021 17:49	WG1742732
Bromomethane	U		0.000605	0.00500	1	09/19/2021 17:49	WG1742732
n-Butylbenzene	U		0.000157	0.00100	1	09/19/2021 17:49	WG1742732
sec-Butylbenzene	U		0.000125	0.00100	1	09/19/2021 17:49	WG1742732
Carbon disulfide	0.000129	J	0.0000962	0.00100	1	09/19/2021 17:49	WG1742732
Carbon tetrachloride	U		0.000128	0.00100	1	09/19/2021 17:49	WG1742732
Chlorobenzene	U		0.000116	0.00100	1	09/19/2021 17:49	WG1742732
Chlorodibromomethane	U		0.000140	0.00100	1	09/19/2021 17:49	WG1742732
Chloroethane	U		0.000192	0.00500	1	09/19/2021 17:49	WG1742732
Chloroform	U		0.000111	0.00500	1	09/19/2021 17:49	WG1742732
Chloromethane	U		0.000960	0.00250	1	09/19/2021 17:49	WG1742732
1,2-Dibromoethane	U		0.000126	0.00100	1	09/19/2021 17:49	WG1742732
1,1-Dichloroethane	U		0.000100	0.00100	1	09/19/2021 17:49	WG1742732

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.0000819	0.00100	1	09/19/2021 17:49	WG1742732
1,1-Dichloroethene	U		0.000188	0.00100	1	09/19/2021 17:49	WG1742732
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	09/19/2021 17:49	WG1742732
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	09/19/2021 17:49	WG1742732
1,2-Dichloropropane	U		0.000149	0.00100	1	09/19/2021 17:49	WG1742732
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	09/19/2021 17:49	WG1742732
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	09/19/2021 17:49	WG1742732
Ethylbenzene	U		0.000137	0.00100	1	09/19/2021 17:49	WG1742732
Isopropylbenzene	U		0.000105	0.00100	1	09/19/2021 17:49	WG1742732
p-Isopropyltoluene	U		0.000120	0.00100	1	09/19/2021 17:49	WG1742732
2-Butanone (MEK)	U		0.00119	0.0100	1	09/19/2021 17:49	WG1742732
2-Hexanone	U		0.000787	0.0100	1	09/19/2021 17:49	WG1742732
Methylene Chloride	U		0.000430	0.00500	1	09/19/2021 17:49	WG1742732
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	09/19/2021 17:49	WG1742732
Methyl tert-butyl ether	0.191		0.00101	0.0100	10	09/28/2021 02:10	WG1747403
Naphthalene	U		0.00100	0.00500	1	09/19/2021 17:49	WG1742732
n-Propylbenzene	U		0.0000993	0.00100	1	09/19/2021 17:49	WG1742732
Styrene	U		0.000118	0.00100	1	09/19/2021 17:49	WG1742732
tert-Butyl alcohol	U		0.00406	0.00500	1	09/19/2021 17:49	WG1742732
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	09/19/2021 17:49	WG1742732
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	09/19/2021 17:49	WG1742732
Tetrachloroethene	U		0.000300	0.00100	1	09/19/2021 17:49	WG1742732
Toluene	U		0.000278	0.00100	1	09/19/2021 17:49	WG1742732
1,1,1-Trichloroethane	U		0.000149	0.00100	1	09/19/2021 17:49	WG1742732
1,1,2-Trichloroethane	U		0.000158	0.00100	1	09/19/2021 17:49	WG1742732
Trichloroethene	U		0.000190	0.00100	1	09/19/2021 17:49	WG1742732
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/19/2021 17:49	WG1742732
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/19/2021 17:49	WG1742732
Vinyl chloride	U		0.000234	0.00100	1	09/19/2021 17:49	WG1742732
o-Xylene	U		0.000174	0.00100	1	09/19/2021 17:49	WG1742732
m&p-Xylene	U		0.000430	0.00200	1	09/19/2021 17:49	WG1742732
Xylenes, Total	U		0.000174	0.00300	1	09/19/2021 17:49	WG1742732
(S) Toluene-d8	*97.6*			*80.0-120*		*09/19/2021 17:49*	WG1742732
(S) Toluene-d8	*104*			*80.0-120*		*09/28/2021 02:10*	WG1747403
(S) 4-Bromofluorobenzene	*96.4*			*77.0-126*		*09/19/2021 17:49*	WG1742732
(S) 4-Bromofluorobenzene	*99.3*			*77.0-126*		*09/28/2021 02:10*	WG1747403
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*		*09/19/2021 17:49*	WG1742732
(S) 1,2-Dichloroethane-d4	*90.6*			*70.0-130*		*09/28/2021 02:10*	WG1747403

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.174		0.0247	0.100	1	09/30/2021 11:54	WG1746820
(S) o-Terphenyl	*105*			*31.0-160*		*09/30/2021 11:54*	WG1746820

Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	U		0.0000447	0.000400	1	09/20/2021 22:12	WG1742899
(S) Nitrobenzene-d5	*54.8*			*10.0-120*		*09/20/2021 22:12*	WG1742899

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3080		20.0	1	09/19/2021 05:03	WG1742563

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0500	0.100	1	09/25/2021 21:36	WG1745430

Wet Chemistry by Method 4500CN E-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Cyanide	U		0.00180	0.00500	1	09/23/2021 17:00	WG1745026

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	501		37.9	100	100	09/21/2021 23:58	WG1743622
Fluoride	0.822		0.0640	0.150	1	09/21/2021 23:42	WG1743622
Sulfate	1110		59.4	500	100	09/21/2021 23:58	WG1743622

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U		0.000100	0.000200	1	09/22/2021 15:12	WG1741778

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	0.379		0.0200	0.200	1	09/23/2021 04:20	WG1742039

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00815		0.000180	0.00200	1	09/23/2021 04:04	WG1742033
Barium	0.0251		0.000381	0.00200	1	09/23/2021 04:04	WG1742033
Cadmium	U		0.000150	0.00100	1	09/23/2021 04:04	WG1742033
Calcium	385		0.0936	1.00	1	09/23/2021 04:04	WG1742033
Chromium	U		0.00124	0.00200	1	09/23/2021 04:04	WG1742033
Cobalt	0.00133	J	0.0000596	0.00200	1	09/23/2021 04:04	WG1742033
Iron	4.00		0.0281	0.100	1	09/23/2021 04:04	WG1742033
Lead	0.00116	J	0.000849	0.00200	1	09/23/2021 04:04	WG1742033
Manganese	0.651		0.000704	0.00500	1	09/23/2021 04:04	WG1742033
Nickel	0.00286		0.000816	0.00200	1	09/23/2021 04:04	WG1742033
Potassium	0.676	J	0.108	2.00	1	09/23/2021 04:04	WG1742033
Selenium	0.000361	J	0.000300	0.00200	1	09/23/2021 04:04	WG1742033
Sodium	270		0.376	2.00	1	09/23/2021 04:04	WG1742033
Uranium	0.0115		0.0000789	0.00100	1	09/23/2021 04:04	WG1742033
Vanadium	0.00404	J	0.000664	0.00500	1	09/23/2021 04:04	WG1742033

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.994		0.0314	0.100	1	09/26/2021 15:45	WG1746586

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
(S) a,a,a-Trifluorotoluene(FID)	*96.2*			*78.0-120*		*09/26/2021 15:45*	WG1746586

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	09/19/2021 18:10	WG1742732
Benzene	0.0512		0.0000941	0.00100	1	09/19/2021 18:10	WG1742732
Bromodichloromethane	U		0.000136	0.00100	1	09/19/2021 18:10	WG1742732
Bromoform	U		0.000129	0.00100	1	09/19/2021 18:10	WG1742732
Bromomethane	U		0.000605	0.00500	1	09/19/2021 18:10	WG1742732
n-Butylbenzene	0.00117		0.000157	0.00100	1	09/19/2021 18:10	WG1742732
sec-Butylbenzene	0.00401		0.000125	0.00100	1	09/19/2021 18:10	WG1742732
Carbon disulfide	0.000121	J	0.0000962	0.00100	1	09/19/2021 18:10	WG1742732
Carbon tetrachloride	U		0.000128	0.00100	1	09/19/2021 18:10	WG1742732
Chlorobenzene	U		0.000116	0.00100	1	09/19/2021 18:10	WG1742732
Chlorodibromomethane	U		0.000140	0.00100	1	09/19/2021 18:10	WG1742732
Chloroethane	U		0.000192	0.00500	1	09/19/2021 18:10	WG1742732
Chloroform	U		0.000111	0.00500	1	09/19/2021 18:10	WG1742732
Chloromethane	U		0.000960	0.00250	1	09/19/2021 18:10	WG1742732
1,2-Dibromoethane	U		0.000126	0.00100	1	09/19/2021 18:10	WG1742732
1,1-Dichloroethane	U		0.000100	0.00100	1	09/19/2021 18:10	WG1742732
1,2-Dichloroethane	U		0.0000819	0.00100	1	09/19/2021 18:10	WG1742732
1,1-Dichloroethene	U		0.000188	0.00100	1	09/19/2021 18:10	WG1742732
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	09/19/2021 18:10	WG1742732
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	09/19/2021 18:10	WG1742732
1,2-Dichloropropane	U		0.000149	0.00100	1	09/19/2021 18:10	WG1742732
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	09/19/2021 18:10	WG1742732
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	09/19/2021 18:10	WG1742732
Ethylbenzene	0.0382		0.000137	0.00100	1	09/19/2021 18:10	WG1742732
Isopropylbenzene	0.0169		0.000105	0.00100	1	09/19/2021 18:10	WG1742732
p-Isopropyltoluene	0.00102		0.000120	0.00100	1	09/19/2021 18:10	WG1742732
2-Butanone (MEK)	U		0.00119	0.0100	1	09/19/2021 18:10	WG1742732
2-Hexanone	U		0.000787	0.0100	1	09/19/2021 18:10	WG1742732
Methylene Chloride	U		0.000430	0.00500	1	09/19/2021 18:10	WG1742732
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	09/19/2021 18:10	WG1742732
Methyl tert-butyl ether	0.00221		0.000101	0.00100	1	09/28/2021 00:47	WG1747403
Naphthalene	0.00154	J	0.00100	0.00500	1	09/19/2021 18:10	WG1742732
n-Propylbenzene	0.0253		0.0000993	0.00100	1	09/19/2021 18:10	WG1742732
Styrene	U		0.000118	0.00100	1	09/19/2021 18:10	WG1742732
tert-Butyl alcohol	0.0932		0.00406	0.00500	1	09/19/2021 18:10	WG1742732
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	09/19/2021 18:10	WG1742732
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	09/19/2021 18:10	WG1742732
Tetrachloroethene	U		0.000300	0.00100	1	09/19/2021 18:10	WG1742732
Toluene	0.000984	J	0.000278	0.00100	1	09/19/2021 18:10	WG1742732
1,1,1-Trichloroethane	U		0.000149	0.00100	1	09/19/2021 18:10	WG1742732
1,1,2-Trichloroethane	U		0.000158	0.00100	1	09/19/2021 18:10	WG1742732
Trichloroethene	U		0.000190	0.00100	1	09/19/2021 18:10	WG1742732
1,2,4-Trimethylbenzene	0.0190		0.000322	0.00100	1	09/19/2021 18:10	WG1742732
1,3,5-Trimethylbenzene	0.000835	J	0.000104	0.00100	1	09/19/2021 18:10	WG1742732
Vinyl chloride	U		0.000234	0.00100	1	09/19/2021 18:10	WG1742732
o-Xylene	0.000426	J	0.000174	0.00100	1	09/19/2021 18:10	WG1742732
m&p-Xylene	0.0209		0.000430	0.00200	1	09/19/2021 18:10	WG1742732
Xylenes, Total	0.0213		0.000174	0.00300	1	09/19/2021 18:10	WG1742732
(S) Toluene-d8	*92.3*			*80.0-120*		*09/19/2021 18:10*	WG1742732
(S) Toluene-d8	*99.4*			*80.0-120*		*09/28/2021 00:47*	WG1747403

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
(S) 4-Bromofluorobenzene	*92.5*			*77.0-126*		*09/19/2021 18:10*	WG1742732
(S) 4-Bromofluorobenzene	*97.6*			*77.0-126*		*09/28/2021 00:47*	WG1747403
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*09/19/2021 18:10*	WG1742732
(S) 1,2-Dichloroethane-d4	*90.8*			*70.0-130*		*09/28/2021 00:47*	WG1747403

EDB / DBCP by Method 8011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Ethylene Dibromide	U		0.00000536	0.0000200	1	09/21/2021 18:12	WG1743427

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	1.35		0.0247	0.100	1	09/29/2021 08:44	WG1745179
(S) o-Terphenyl	*97.9*			*31.0-160*		*09/29/2021 08:44*	WG1745179

Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	U		0.0000447	0.000400	1	09/19/2021 12:57	WG1742189
(S) Nitrobenzene-d5	*50.4*			*10.0-120*		*09/19/2021 12:57*	WG1742189

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3000		20.0	1	09/19/2021 05:03	WG1742563

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	2.61		0.0500	0.100	1	09/25/2021 21:37	WG1745430

Wet Chemistry by Method 4500CN E-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Cyanide	U	J6	0.00180	0.00500	1	09/23/2021 17:01	WG1745026

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	367		37.9	100	100	09/22/2021 00:30	WG1743622
Fluoride	0.371		0.0640	0.150	1	09/22/2021 00:14	WG1743622
Sulfate	1390		59.4	500	100	09/22/2021 00:30	WG1743622

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U		0.000100	0.000200	1	09/22/2021 15:14	WG1741778

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	0.115	J	0.0200	0.200	1	09/23/2021 04:23	WG1742039

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00146	J	0.000180	0.00200	1	09/23/2021 04:07	WG1742033
Barium	0.0149		0.000381	0.00200	1	09/23/2021 04:07	WG1742033
Cadmium	U		0.000150	0.00100	1	09/23/2021 04:07	WG1742033
Calcium	495		0.0936	1.00	1	09/23/2021 04:07	WG1742033
Chromium	U		0.00124	0.00200	1	09/23/2021 04:07	WG1742033
Cobalt	U		0.0000596	0.00200	1	09/23/2021 04:07	WG1742033
Iron	U		0.0281	0.100	1	09/23/2021 04:07	WG1742033
Lead	U		0.000849	0.00200	1	09/23/2021 04:07	WG1742033
Manganese	0.00340	J	0.000704	0.00500	1	09/23/2021 04:07	WG1742033
Nickel	U		0.000816	0.00200	1	09/23/2021 04:07	WG1742033
Potassium	2.28		0.108	2.00	1	09/23/2021 04:07	WG1742033
Selenium	0.00639		0.000300	0.00200	1	09/23/2021 04:07	WG1742033
Sodium	98.2		0.376	2.00	1	09/23/2021 04:07	WG1742033
Uranium	0.0132		0.0000789	0.00100	1	09/23/2021 04:07	WG1742033
Vanadium	0.00872		0.000664	0.00500	1	09/23/2021 04:07	WG1742033

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	09/26/2021 16:13	WG1746586

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
(S) a,a,a-Trifluorotoluene(FID)	*94.1*			*78.0-120*		*09/26/2021 16:13*	WG1746586

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	09/19/2021 18:30	WG1742732
Benzene	0.0000957	J	0.0000941	0.00100	1	09/19/2021 18:30	WG1742732
Bromodichloromethane	U		0.000136	0.00100	1	09/19/2021 18:30	WG1742732
Bromoform	U		0.000129	0.00100	1	09/19/2021 18:30	WG1742732
Bromomethane	U		0.000605	0.00500	1	09/19/2021 18:30	WG1742732
n-Butylbenzene	U		0.000157	0.00100	1	09/19/2021 18:30	WG1742732
sec-Butylbenzene	0.000132	J	0.000125	0.00100	1	09/19/2021 18:30	WG1742732
Carbon disulfide	0.000126	J	0.0000962	0.00100	1	09/19/2021 18:30	WG1742732
Carbon tetrachloride	U		0.000128	0.00100	1	09/19/2021 18:30	WG1742732
Chlorobenzene	U		0.000116	0.00100	1	09/19/2021 18:30	WG1742732
Chlorodibromomethane	U		0.000140	0.00100	1	09/19/2021 18:30	WG1742732
Chloroethane	U		0.000192	0.00500	1	09/19/2021 18:30	WG1742732
Chloroform	U		0.000111	0.00500	1	09/19/2021 18:30	WG1742732
Chloromethane	U		0.000960	0.00250	1	09/19/2021 18:30	WG1742732
1,2-Dibromoethane	U		0.000126	0.00100	1	09/19/2021 18:30	WG1742732
1,1-Dichloroethane	U		0.000100	0.00100	1	09/19/2021 18:30	WG1742732
1,2-Dichloroethane	U		0.0000819	0.00100	1	09/19/2021 18:30	WG1742732
1,1-Dichloroethene	U		0.000188	0.00100	1	09/19/2021 18:30	WG1742732
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	09/19/2021 18:30	WG1742732
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	09/19/2021 18:30	WG1742732
1,2-Dichloropropane	U		0.000149	0.00100	1	09/19/2021 18:30	WG1742732
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	09/19/2021 18:30	WG1742732
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	09/19/2021 18:30	WG1742732
Ethylbenzene	0.000419	J	0.000137	0.00100	1	09/19/2021 18:30	WG1742732
Isopropylbenzene	0.000232	J	0.000105	0.00100	1	09/19/2021 18:30	WG1742732
p-Isopropyltoluene	U		0.000120	0.00100	1	09/19/2021 18:30	WG1742732
2-Butanone (MEK)	U		0.00119	0.0100	1	09/19/2021 18:30	WG1742732
2-Hexanone	U		0.000787	0.0100	1	09/19/2021 18:30	WG1742732
Methylene Chloride	U		0.000430	0.00500	1	09/19/2021 18:30	WG1742732
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	09/19/2021 18:30	WG1742732
Methyl tert-butyl ether	0.00152		0.000101	0.00100	1	09/28/2021 01:08	WG1747403
Naphthalene	U		0.00100	0.00500	1	09/19/2021 18:30	WG1742732
n-Propylbenzene	0.000380	J	0.0000993	0.00100	1	09/19/2021 18:30	WG1742732
Styrene	U		0.000118	0.00100	1	09/19/2021 18:30	WG1742732
tert-Butyl alcohol	U		0.00406	0.00500	1	09/19/2021 18:30	WG1742732
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	09/19/2021 18:30	WG1742732
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	09/19/2021 18:30	WG1742732
Tetrachloroethene	U		0.000300	0.00100	1	09/19/2021 18:30	WG1742732
Toluene	U		0.000278	0.00100	1	09/19/2021 18:30	WG1742732
1,1,1-Trichloroethane	U		0.000149	0.00100	1	09/19/2021 18:30	WG1742732
1,1,2-Trichloroethane	U		0.000158	0.00100	1	09/19/2021 18:30	WG1742732
Trichloroethene	U		0.000190	0.00100	1	09/19/2021 18:30	WG1742732
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/19/2021 18:30	WG1742732
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/19/2021 18:30	WG1742732
Vinyl chloride	U		0.000234	0.00100	1	09/19/2021 18:30	WG1742732
o-Xylene	U		0.000174	0.00100	1	09/19/2021 18:30	WG1742732
m&p-Xylene	U		0.000430	0.00200	1	09/19/2021 18:30	WG1742732
Xylenes, Total	U		0.000174	0.00300	1	09/19/2021 18:30	WG1742732
(S) Toluene-d8	*97.2*			*80.0-120*		*09/19/2021 18:30*	WG1742732
(S) Toluene-d8	*106*			*80.0-120*		*09/28/2021 01:08*	WG1747403

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
(S) 4-Bromofluorobenzene	*94.2*			*77.0-126*		*09/19/2021 18:30*	WG1742732
(S) 4-Bromofluorobenzene	*96.3*			*77.0-126*		*09/28/2021 01:08*	WG1747403
(S) 1,2-Dichloroethane-d4	*114*			*70.0-130*		*09/19/2021 18:30*	WG1742732
(S) 1,2-Dichloroethane-d4	*92.9*			*70.0-130*		*09/28/2021 01:08*	WG1747403

EDB / DBCP by Method 8011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Ethylene Dibromide	U		0.00000536	0.0000200	1	09/21/2021 18:25	WG1743427

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0363	J	0.0247	0.100	1	09/29/2021 09:07	WG1745179
(S) o-Terphenyl	*78.9*			*31.0-160*		*09/29/2021 09:07*	WG1745179

Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	U		0.0000447	0.000400	1	09/19/2021 13:16	WG1742189
(S) Nitrobenzene-d5	*52.1*			*10.0-120*		*09/19/2021 13:16*	WG1742189

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4330		20.0	1	09/19/2021 05:03	WG1742563

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	1.85		0.0500	0.100	1	09/25/2021 20:59	WG1745430

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	357		37.9	100	100	09/22/2021 01:02	WG1743622
Fluoride	1.75		0.0640	0.150	1	09/22/2021 00:46	WG1743622
Sulfate	2170		59.4	500	100	09/22/2021 01:02	WG1743622

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00433		0.000180	0.00200	1	09/23/2021 04:18	WG1742033
Barium	0.0101		0.000381	0.00200	1	09/23/2021 04:18	WG1742033
Calcium	466		0.0936	1.00	1	09/23/2021 04:18	WG1742033
Chromium	U		0.00124	0.00200	1	09/23/2021 04:18	WG1742033
Iron	U		0.0281	0.100	1	09/23/2021 04:18	WG1742033
Lead	U		0.000849	0.00200	1	09/23/2021 04:18	WG1742033
Manganese	0.0334		0.000704	0.00500	1	09/23/2021 04:18	WG1742033
Potassium	0.547	J	0.108	2.00	1	09/23/2021 04:18	WG1742033
Selenium	0.00669		0.000300	0.00200	1	09/23/2021 04:18	WG1742033
Sodium	215		0.376	2.00	1	09/23/2021 04:18	WG1742033

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	09/26/2021 16:41	WG1746586
(S) a,a,a-Trifluorotoluene(FID)	*94.3*			*78.0-120*		*09/26/2021 16:41*	WG1746586

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	09/19/2021 18:50	WG1742732
Benzene	U		0.0000941	0.00100	1	09/19/2021 18:50	WG1742732
Bromodichloromethane	U		0.000136	0.00100	1	09/19/2021 18:50	WG1742732
Bromoform	U		0.000129	0.00100	1	09/19/2021 18:50	WG1742732
Bromomethane	U		0.000605	0.00500	1	09/19/2021 18:50	WG1742732
n-Butylbenzene	U		0.000157	0.00100	1	09/19/2021 18:50	WG1742732
sec-Butylbenzene	U		0.000125	0.00100	1	09/19/2021 18:50	WG1742732
Carbon disulfide	0.0000992	J	0.0000962	0.00100	1	09/19/2021 18:50	WG1742732
Carbon tetrachloride	U		0.000128	0.00100	1	09/19/2021 18:50	WG1742732
Chlorobenzene	U		0.000116	0.00100	1	09/19/2021 18:50	WG1742732
Chlorodibromomethane	U		0.000140	0.00100	1	09/19/2021 18:50	WG1742732
Chloroethane	U		0.000192	0.00500	1	09/19/2021 18:50	WG1742732
Chloroform	U		0.000111	0.00500	1	09/19/2021 18:50	WG1742732
Chloromethane	U		0.000960	0.00250	1	09/19/2021 18:50	WG1742732
1,2-Dibromoethane	U		0.000126	0.00100	1	09/19/2021 18:50	WG1742732
1,1-Dichloroethane	U		0.000100	0.00100	1	09/19/2021 18:50	WG1742732

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.0000819	0.00100	1	09/19/2021 18:50	WG1742732
1,1-Dichloroethene	U		0.000188	0.00100	1	09/19/2021 18:50	WG1742732
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	09/19/2021 18:50	WG1742732
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	09/19/2021 18:50	WG1742732
1,2-Dichloropropane	U		0.000149	0.00100	1	09/19/2021 18:50	WG1742732
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	09/19/2021 18:50	WG1742732
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	09/19/2021 18:50	WG1742732
Ethylbenzene	U		0.000137	0.00100	1	09/19/2021 18:50	WG1742732
Isopropylbenzene	U		0.000105	0.00100	1	09/19/2021 18:50	WG1742732
p-Isopropyltoluene	U		0.000120	0.00100	1	09/19/2021 18:50	WG1742732
2-Butanone (MEK)	U		0.00119	0.0100	1	09/19/2021 18:50	WG1742732
2-Hexanone	U		0.000787	0.0100	1	09/19/2021 18:50	WG1742732
Methylene Chloride	U		0.000430	0.00500	1	09/19/2021 18:50	WG1742732
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	09/19/2021 18:50	WG1742732
Methyl tert-butyl ether	0.0228		0.000101	0.00100	1	09/19/2021 18:50	WG1742732
Naphthalene	U		0.00100	0.00500	1	09/19/2021 18:50	WG1742732
n-Propylbenzene	U		0.0000993	0.00100	1	09/19/2021 18:50	WG1742732
Styrene	U		0.000118	0.00100	1	09/19/2021 18:50	WG1742732
tert-Butyl alcohol	U		0.00406	0.00500	1	09/19/2021 18:50	WG1742732
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	09/19/2021 18:50	WG1742732
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	09/19/2021 18:50	WG1742732
Tetrachloroethene	U		0.000300	0.00100	1	09/19/2021 18:50	WG1742732
Toluene	U		0.000278	0.00100	1	09/19/2021 18:50	WG1742732
1,1,1-Trichloroethane	U		0.000149	0.00100	1	09/19/2021 18:50	WG1742732
1,1,2-Trichloroethane	U		0.000158	0.00100	1	09/19/2021 18:50	WG1742732
Trichloroethene	U		0.000190	0.00100	1	09/19/2021 18:50	WG1742732
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/19/2021 18:50	WG1742732
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/19/2021 18:50	WG1742732
Vinyl chloride	U		0.000234	0.00100	1	09/19/2021 18:50	WG1742732
o-Xylene	U		0.000174	0.00100	1	09/19/2021 18:50	WG1742732
m&p-Xylene	U		0.000430	0.00200	1	09/19/2021 18:50	WG1742732
Xylenes, Total	U		0.000174	0.00300	1	09/19/2021 18:50	WG1742732
(S) Toluene-d8	*97.6*			*80.0-120*		*09/19/2021 18:50*	WG1742732
(S) 4-Bromofluorobenzene	*89.7*			*77.0-126*		*09/19/2021 18:50*	WG1742732
(S) 1,2-Dichloroethane-d4	*111*			*70.0-130*		*09/19/2021 18:50*	WG1742732

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.173		0.0247	0.100	1	09/29/2021 09:29	WG1745179
(S) o-Terphenyl	*87.9*			*31.0-160*		*09/29/2021 09:29*	WG1745179

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2820		50.0	1	09/21/2021 13:31	WG1743653

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0500	0.100	1	09/25/2021 21:00	WG1745430

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	227		37.9	100	100	09/22/2021 01:34	WG1743622
Fluoride	2.32		0.0640	0.150	1	09/22/2021 01:18	WG1743622
Sulfate	1380		59.4	500	100	09/22/2021 01:34	WG1743622

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00483		0.000180	0.00200	1	09/23/2021 04:21	WG1742033
Barium	0.0151		0.000381	0.00200	1	09/23/2021 04:21	WG1742033
Calcium	466		0.0936	1.00	1	09/23/2021 04:21	WG1742033
Chromium	U		0.00124	0.00200	1	09/23/2021 04:21	WG1742033
Iron	U		0.0281	0.100	1	09/23/2021 04:21	WG1742033
Lead	U		0.000849	0.00200	1	09/23/2021 04:21	WG1742033
Manganese	0.842		0.000704	0.00500	1	09/23/2021 04:21	WG1742033
Potassium	2.26		0.108	2.00	1	09/23/2021 04:21	WG1742033
Selenium	0.00321		0.000300	0.00200	1	09/23/2021 04:21	WG1742033
Sodium	109		0.376	2.00	1	09/23/2021 04:21	WG1742033

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0655	J	0.0314	0.100	1	09/26/2021 17:09	WG1746586
(S) a,a,a-Trifluorotoluene(FID)	*94.3*			*78.0-120*		*09/26/2021 17:09*	WG1746586

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	09/19/2021 19:11	WG1742732
Benzene	U		0.0000941	0.00100	1	09/19/2021 19:11	WG1742732
Bromodichloromethane	U		0.000136	0.00100	1	09/19/2021 19:11	WG1742732
Bromoform	U		0.000129	0.00100	1	09/19/2021 19:11	WG1742732
Bromomethane	U		0.000605	0.00500	1	09/19/2021 19:11	WG1742732
n-Butylbenzene	0.000677	J	0.000157	0.00100	1	09/19/2021 19:11	WG1742732
sec-Butylbenzene	0.00339		0.000125	0.00100	1	09/19/2021 19:11	WG1742732
Carbon disulfide	0.000102	J	0.0000962	0.00100	1	09/19/2021 19:11	WG1742732
Carbon tetrachloride	U		0.000128	0.00100	1	09/19/2021 19:11	WG1742732
Chlorobenzene	U		0.000116	0.00100	1	09/19/2021 19:11	WG1742732
Chlorodibromomethane	U		0.000140	0.00100	1	09/19/2021 19:11	WG1742732
Chloroethane	U		0.000192	0.00500	1	09/19/2021 19:11	WG1742732
Chloroform	U		0.000111	0.00500	1	09/19/2021 19:11	WG1742732
Chloromethane	U		0.000960	0.00250	1	09/19/2021 19:11	WG1742732
1,2-Dibromoethane	U		0.000126	0.00100	1	09/19/2021 19:11	WG1742732
1,1-Dichloroethane	U		0.000100	0.00100	1	09/19/2021 19:11	WG1742732

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.0000819	0.00100	1	09/19/2021 19:11	WG1742732
1,1-Dichloroethene	U		0.000188	0.00100	1	09/19/2021 19:11	WG1742732
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	09/19/2021 19:11	WG1742732
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	09/19/2021 19:11	WG1742732
1,2-Dichloropropane	U		0.000149	0.00100	1	09/19/2021 19:11	WG1742732
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	09/19/2021 19:11	WG1742732
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	09/19/2021 19:11	WG1742732
Ethylbenzene	U		0.000137	0.00100	1	09/19/2021 19:11	WG1742732
Isopropylbenzene	0.00159		0.000105	0.00100	1	09/19/2021 19:11	WG1742732
p-Isopropyltoluene	U		0.000120	0.00100	1	09/19/2021 19:11	WG1742732
2-Butanone (MEK)	U		0.00119	0.0100	1	09/19/2021 19:11	WG1742732
2-Hexanone	U		0.000787	0.0100	1	09/19/2021 19:11	WG1742732
Methylene Chloride	U		0.000430	0.00500	1	09/19/2021 19:11	WG1742732
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	09/19/2021 19:11	WG1742732
Methyl tert-butyl ether	0.0120		0.000101	0.00100	1	09/19/2021 19:11	WG1742732
Naphthalene	U		0.00100	0.00500	1	09/19/2021 19:11	WG1742732
n-Propylbenzene	0.000457	J	0.0000993	0.00100	1	09/19/2021 19:11	WG1742732
Styrene	U		0.000118	0.00100	1	09/19/2021 19:11	WG1742732
tert-Butyl alcohol	U		0.00406	0.00500	1	09/19/2021 19:11	WG1742732
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	09/19/2021 19:11	WG1742732
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	09/19/2021 19:11	WG1742732
Tetrachloroethene	U		0.000300	0.00100	1	09/19/2021 19:11	WG1742732
Toluene	U		0.000278	0.00100	1	09/19/2021 19:11	WG1742732
1,1,1-Trichloroethane	U		0.000149	0.00100	1	09/19/2021 19:11	WG1742732
1,1,2-Trichloroethane	U		0.000158	0.00100	1	09/19/2021 19:11	WG1742732
Trichloroethene	U		0.000190	0.00100	1	09/19/2021 19:11	WG1742732
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/19/2021 19:11	WG1742732
1,3,5-Trimethylbenzene	0.000276	J	0.000104	0.00100	1	09/19/2021 19:11	WG1742732
Vinyl chloride	U		0.000234	0.00100	1	09/19/2021 19:11	WG1742732
o-Xylene	U		0.000174	0.00100	1	09/19/2021 19:11	WG1742732
m&p-Xylene	U		0.000430	0.00200	1	09/19/2021 19:11	WG1742732
Xylenes, Total	U		0.000174	0.00300	1	09/19/2021 19:11	WG1742732
(S) Toluene-d8	*95.3*			*80.0-120*		*09/19/2021 19:11*	WG1742732
(S) 4-Bromofluorobenzene	*95.5*			*77.0-126*		*09/19/2021 19:11*	WG1742732
(S) 1,2-Dichloroethane-d4	*114*			*70.0-130*		*09/19/2021 19:11*	WG1742732

EDB / DBCP by Method 8011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Ethylene Dibromide	U		0.00000536	0.0000200	1	09/21/2021 18:37	WG1743427

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.502		0.0247	0.100	1	09/29/2021 09:52	WG1745179
(S) o-Terphenyl	*89.5*			*31.0-160*		*09/29/2021 09:52*	WG1745179

Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	U		0.0000447	0.000400	1	09/19/2021 13:35	WG1742189
(S) Nitrobenzene-d5	*46.0*			*10.0-120*		*09/19/2021 13:35*	WG1742189

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4370		50.0	1	09/21/2021 13:31	WG1743653

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.0618	J	0.0500	0.100	1	09/25/2021 21:02	WG1745430

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	271	B	37.9	100	100	09/21/2021 16:43	WG1743625
Fluoride	1.06		0.0640	0.150	1	09/21/2021 16:29	WG1743625
Sulfate	2210		59.4	500	100	09/21/2021 16:43	WG1743625

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00331		0.000180	0.00200	1	09/23/2021 04:25	WG1742033
Barium	0.0100		0.000381	0.00200	1	09/23/2021 04:25	WG1742033
Calcium	519		0.0936	1.00	1	09/23/2021 04:25	WG1742033
Chromium	U		0.00124	0.00200	1	09/23/2021 04:25	WG1742033
Iron	U		0.0281	0.100	1	09/23/2021 04:25	WG1742033
Lead	U		0.000849	0.00200	1	09/23/2021 04:25	WG1742033
Manganese	0.413		0.000704	0.00500	1	09/23/2021 04:25	WG1742033
Potassium	1.32	J	0.108	2.00	1	09/23/2021 04:25	WG1742033
Selenium	0.00129	J	0.000300	0.00200	1	09/23/2021 04:25	WG1742033
Sodium	213		0.376	2.00	1	09/23/2021 04:25	WG1742033

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0493	J	0.0314	0.100	1	09/26/2021 17:37	WG1746586
(S) a,a,a-Trifluorotoluene(FID)	*94.6*			*78.0-120*		*09/26/2021 17:37*	WG1746586

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	09/19/2021 19:31	WG1742732
Benzene	U		0.0000941	0.00100	1	09/19/2021 19:31	WG1742732
Bromodichloromethane	U		0.000136	0.00100	1	09/19/2021 19:31	WG1742732
Bromoform	U		0.000129	0.00100	1	09/19/2021 19:31	WG1742732
Bromomethane	U		0.000605	0.00500	1	09/19/2021 19:31	WG1742732
n-Butylbenzene	U		0.000157	0.00100	1	09/19/2021 19:31	WG1742732
sec-Butylbenzene	U		0.000125	0.00100	1	09/19/2021 19:31	WG1742732
Carbon disulfide	0.000102	J	0.0000962	0.00100	1	09/19/2021 19:31	WG1742732
Carbon tetrachloride	U		0.000128	0.00100	1	09/19/2021 19:31	WG1742732
Chlorobenzene	U		0.000116	0.00100	1	09/19/2021 19:31	WG1742732
Chlorodibromomethane	U		0.000140	0.00100	1	09/19/2021 19:31	WG1742732
Chloroethane	U		0.000192	0.00500	1	09/19/2021 19:31	WG1742732
Chloroform	U		0.000111	0.00500	1	09/19/2021 19:31	WG1742732
Chloromethane	U		0.000960	0.00250	1	09/19/2021 19:31	WG1742732
1,2-Dibromoethane	U		0.000126	0.00100	1	09/19/2021 19:31	WG1742732
1,1-Dichloroethane	U		0.000100	0.00100	1	09/19/2021 19:31	WG1742732

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.0000819	0.00100	1	09/19/2021 19:31	WG1742732
1,1-Dichloroethene	U		0.000188	0.00100	1	09/19/2021 19:31	WG1742732
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	09/19/2021 19:31	WG1742732
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	09/19/2021 19:31	WG1742732
1,2-Dichloropropane	U		0.000149	0.00100	1	09/19/2021 19:31	WG1742732
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	09/19/2021 19:31	WG1742732
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	09/19/2021 19:31	WG1742732
Ethylbenzene	U		0.000137	0.00100	1	09/19/2021 19:31	WG1742732
Isopropylbenzene	U		0.000105	0.00100	1	09/19/2021 19:31	WG1742732
p-Isopropyltoluene	U		0.000120	0.00100	1	09/19/2021 19:31	WG1742732
2-Butanone (MEK)	U		0.00119	0.0100	1	09/19/2021 19:31	WG1742732
2-Hexanone	U		0.000787	0.0100	1	09/19/2021 19:31	WG1742732
Methylene Chloride	U		0.000430	0.00500	1	09/19/2021 19:31	WG1742732
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	09/19/2021 19:31	WG1742732
Methyl tert-butyl ether	U		0.000101	0.00100	1	09/19/2021 19:31	WG1742732
Naphthalene	U		0.00100	0.00500	1	09/19/2021 19:31	WG1742732
n-Propylbenzene	U		0.0000993	0.00100	1	09/19/2021 19:31	WG1742732
Styrene	U		0.000118	0.00100	1	09/19/2021 19:31	WG1742732
tert-Butyl alcohol	U		0.00406	0.00500	1	09/19/2021 19:31	WG1742732
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	09/19/2021 19:31	WG1742732
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	09/19/2021 19:31	WG1742732
Tetrachloroethene	U		0.000300	0.00100	1	09/19/2021 19:31	WG1742732
Toluene	U		0.000278	0.00100	1	09/19/2021 19:31	WG1742732
1,1,1-Trichloroethane	U		0.000149	0.00100	1	09/19/2021 19:31	WG1742732
1,1,2-Trichloroethane	U		0.000158	0.00100	1	09/19/2021 19:31	WG1742732
Trichloroethene	U		0.000190	0.00100	1	09/19/2021 19:31	WG1742732
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/19/2021 19:31	WG1742732
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/19/2021 19:31	WG1742732
Vinyl chloride	U		0.000234	0.00100	1	09/19/2021 19:31	WG1742732
o-Xylene	U		0.000174	0.00100	1	09/19/2021 19:31	WG1742732
m&p-Xylene	U		0.000430	0.00200	1	09/19/2021 19:31	WG1742732
Xylenes, Total	U		0.000174	0.00300	1	09/19/2021 19:31	WG1742732
(S) Toluene-d8	*96.8*			*80.0-120*		*09/19/2021 19:31*	WG1742732
(S) 4-Bromofluorobenzene	*91.4*			*77.0-126*		*09/19/2021 19:31*	WG1742732
(S) 1,2-Dichloroethane-d4	*113*			*70.0-130*		*09/19/2021 19:31*	WG1742732

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0250	J	0.0247	0.100	1	09/29/2021 10:14	WG1745179
(S) o-Terphenyl	*83.2*			*31.0-160*		*09/29/2021 10:14*	WG1745179

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1720		50.0	1	09/21/2021 13:31	WG1743653

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.500	1.00	10	09/25/2021 21:03	WG1745430

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	317	B	37.9	100	100	09/21/2021 17:15	WG1743625
Fluoride	0.537		0.0640	0.150	1	09/21/2021 16:58	WG1743625
Sulfate	61.0		0.594	5.00	1	09/21/2021 16:58	WG1743625

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00176	J	0.000180	0.00200	1	09/23/2021 04:28	WG1742033
Barium	0.169		0.000381	0.00200	1	09/23/2021 04:28	WG1742033
Calcium	200		0.0936	1.00	1	09/23/2021 04:28	WG1742033
Chromium	U		0.00124	0.00200	1	09/23/2021 04:28	WG1742033
Iron	0.0476	J	0.0281	0.100	1	09/23/2021 04:28	WG1742033
Lead	0.00258		0.000849	0.00200	1	09/23/2021 04:28	WG1742033
Manganese	0.375		0.000704	0.00500	1	09/23/2021 04:28	WG1742033
Potassium	0.390	J	0.108	2.00	1	09/23/2021 04:28	WG1742033
Selenium	U		0.000300	0.00200	1	09/23/2021 04:28	WG1742033
Sodium	208		0.376	2.00	1	09/23/2021 04:28	WG1742033

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	20.7		0.785	2.50	25	09/27/2021 18:05	WG1747133
(S) a,a,a-Trifluorotoluene(FID)	*94.1*			*78.0-120*		*09/27/2021 18:05*	WG1747133

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.282	1.25	25	09/19/2021 22:15	WG1742732
Benzene	3.68		0.00235	0.0250	25	09/19/2021 22:15	WG1742732
Bromodichloromethane	U		0.00340	0.0250	25	09/19/2021 22:15	WG1742732
Bromoform	U		0.00322	0.0250	25	09/19/2021 22:15	WG1742732
Bromomethane	U		0.0151	0.125	25	09/19/2021 22:15	WG1742732
n-Butylbenzene	0.00723	J	0.00393	0.0250	25	09/19/2021 22:15	WG1742732
sec-Butylbenzene	0.0150	J	0.00313	0.0250	25	09/19/2021 22:15	WG1742732
Carbon disulfide	U		0.00241	0.0250	25	09/19/2021 22:15	WG1742732
Carbon tetrachloride	U		0.00320	0.0250	25	09/19/2021 22:15	WG1742732
Chlorobenzene	U		0.00290	0.0250	25	09/19/2021 22:15	WG1742732
Chlorodibromomethane	U		0.00350	0.0250	25	09/19/2021 22:15	WG1742732
Chloroethane	U		0.00480	0.125	25	09/19/2021 22:15	WG1742732
Chloroform	U		0.00278	0.125	25	09/19/2021 22:15	WG1742732
Chloromethane	U		0.0240	0.0625	25	09/19/2021 22:15	WG1742732
1,2-Dibromoethane	U		0.00315	0.0250	25	09/19/2021 22:15	WG1742732
1,1-Dichloroethane	U		0.00250	0.0250	25	09/19/2021 22:15	WG1742732

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.00205	0.0250	25	09/19/2021 22:15	WG1742732
1,1-Dichloroethene	U		0.00470	0.0250	25	09/19/2021 22:15	WG1742732
cis-1,2-Dichloroethene	U		0.00315	0.0250	25	09/19/2021 22:15	WG1742732
trans-1,2-Dichloroethene	U		0.00373	0.0250	25	09/19/2021 22:15	WG1742732
1,2-Dichloropropane	U		0.00373	0.0250	25	09/19/2021 22:15	WG1742732
cis-1,3-Dichloropropene	U		0.00278	0.0250	25	09/19/2021 22:15	WG1742732
trans-1,3-Dichloropropene	U		0.00295	0.0250	25	09/19/2021 22:15	WG1742732
Ethylbenzene	1.97		0.00343	0.0250	25	09/19/2021 22:15	WG1742732
Isopropylbenzene	0.111		0.00263	0.0250	25	09/19/2021 22:15	WG1742732
p-Isopropyltoluene	0.00630	J	0.00300	0.0250	25	09/19/2021 22:15	WG1742732
2-Butanone (MEK)	U		0.0298	0.250	25	09/19/2021 22:15	WG1742732
2-Hexanone	U		0.0197	0.250	25	09/19/2021 22:15	WG1742732
Methylene Chloride	U		0.0107	0.125	25	09/19/2021 22:15	WG1742732
4-Methyl-2-pentanone (MIBK)	U		0.0120	0.250	25	09/19/2021 22:15	WG1742732
Methyl tert-butyl ether	0.0630		0.00253	0.0250	25	09/19/2021 22:15	WG1742732
Naphthalene	0.118	J	0.0250	0.125	25	09/19/2021 22:15	WG1742732
n-Propylbenzene	0.165		0.00248	0.0250	25	09/19/2021 22:15	WG1742732
Styrene	U		0.00295	0.0250	25	09/19/2021 22:15	WG1742732
tert-Butyl alcohol	U		0.102	0.125	25	09/19/2021 22:15	WG1742732
1,1,1,2-Tetrachloroethane	U		0.00368	0.0250	25	09/19/2021 22:15	WG1742732
1,1,2,2-Tetrachloroethane	U		0.00333	0.0250	25	09/19/2021 22:15	WG1742732
Tetrachloroethene	U		0.00750	0.0250	25	09/19/2021 22:15	WG1742732
Toluene	0.0305		0.00695	0.0250	25	09/19/2021 22:15	WG1742732
1,1,1-Trichloroethane	U		0.00373	0.0250	25	09/19/2021 22:15	WG1742732
1,1,2-Trichloroethane	U		0.00395	0.0250	25	09/19/2021 22:15	WG1742732
Trichloroethene	U		0.00475	0.0250	25	09/19/2021 22:15	WG1742732
1,2,4-Trimethylbenzene	0.627		0.00805	0.0250	25	09/19/2021 22:15	WG1742732
1,3,5-Trimethylbenzene	0.00833	J	0.00260	0.0250	25	09/19/2021 22:15	WG1742732
Vinyl chloride	U		0.00585	0.0250	25	09/19/2021 22:15	WG1742732
o-Xylene	U		0.00435	0.0250	25	09/19/2021 22:15	WG1742732
m&p-Xylene	0.872		0.0107	0.0500	25	09/19/2021 22:15	WG1742732
Xylenes, Total	0.872		0.00435	0.0750	25	09/19/2021 22:15	WG1742732
(S) Toluene-d8	*94.6*			*80.0-120*		*09/19/2021 22:15*	WG1742732
(S) 4-Bromofluorobenzene	*96.4*			*77.0-126*		*09/19/2021 22:15*	WG1742732
(S) 1,2-Dichloroethane-d4	*111*			*70.0-130*		*09/19/2021 22:15*	WG1742732

EDB / DBCP by Method 8011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Ethylene Dibromide	U		0.00000536	0.0000200	1	09/21/2021 18:49	WG1743427

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	3.49		0.0247	0.100	1	09/29/2021 10:36	WG1745179
(S) o-Terphenyl	*92.6*			*31.0-160*		*09/29/2021 10:36*	WG1745179

Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	U		0.0000456	0.000408	1.02	09/20/2021 22:31	WG1742899
(S) Nitrobenzene-d5	*56.3*			*10.0-120*		*09/20/2021 22:31*	WG1742899

Sample Narrative:

L1404404-58 WG1742899: Dilution due to sample volume.

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	10.0		10.0	1	09/21/2021 13:31	WG1743653

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0500	0.100	1	09/25/2021 21:04	WG1745430

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	0.558	B J	0.379	1.00	1	09/21/2021 17:29	WG1743625
Fluoride	U		0.0640	0.150	1	09/21/2021 17:29	WG1743625
Sulfate	U		0.594	5.00	1	09/21/2021 17:29	WG1743625

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	U		0.000180	0.00200	1	09/23/2021 04:31	WG1742033
Barium	0.000489	J	0.000381	0.00200	1	09/23/2021 04:31	WG1742033
Calcium	0.214	J	0.0936	1.00	1	09/23/2021 04:31	WG1742033
Chromium	U		0.00124	0.00200	1	09/23/2021 04:31	WG1742033
Iron	U		0.0281	0.100	1	09/23/2021 04:31	WG1742033
Lead	U		0.000849	0.00200	1	09/23/2021 04:31	WG1742033
Manganese	0.000873	J	0.000704	0.00500	1	09/23/2021 04:31	WG1742033
Potassium	U		0.108	2.00	1	09/23/2021 04:31	WG1742033
Selenium	U		0.000300	0.00200	1	09/23/2021 04:31	WG1742033
Sodium	U		0.376	2.00	1	09/23/2021 04:31	WG1742033

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	09/26/2021 18:05	WG1746586
(S) a,a,a-Trifluorotoluene(FID)	*95.0*			*78.0-120*		*09/26/2021 18:05*	WG1746586

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	09/19/2021 19:52	WG1742732
Benzene	U		0.0000941	0.00100	1	09/19/2021 19:52	WG1742732
Bromodichloromethane	U		0.000136	0.00100	1	09/19/2021 19:52	WG1742732
Bromoform	U		0.000129	0.00100	1	09/19/2021 19:52	WG1742732
Bromomethane	U		0.000605	0.00500	1	09/19/2021 19:52	WG1742732
n-Butylbenzene	U		0.000157	0.00100	1	09/19/2021 19:52	WG1742732
sec-Butylbenzene	U		0.000125	0.00100	1	09/19/2021 19:52	WG1742732
Carbon disulfide	U		0.0000962	0.00100	1	09/19/2021 19:52	WG1742732
Carbon tetrachloride	U		0.000128	0.00100	1	09/19/2021 19:52	WG1742732
Chlorobenzene	U		0.000116	0.00100	1	09/19/2021 19:52	WG1742732
Chlorodibromomethane	U		0.000140	0.00100	1	09/19/2021 19:52	WG1742732
Chloroethane	U		0.000192	0.00500	1	09/19/2021 19:52	WG1742732
Chloroform	U		0.000111	0.00500	1	09/19/2021 19:52	WG1742732
Chloromethane	U		0.000960	0.00250	1	09/19/2021 19:52	WG1742732
1,2-Dibromoethane	U		0.000126	0.00100	1	09/19/2021 19:52	WG1742732
1,1-Dichloroethane	U		0.000100	0.00100	1	09/19/2021 19:52	WG1742732

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.0000819	0.00100	1	09/19/2021 19:52	WG1742732
1,1-Dichloroethene	U		0.000188	0.00100	1	09/19/2021 19:52	WG1742732
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	09/19/2021 19:52	WG1742732
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	09/19/2021 19:52	WG1742732
1,2-Dichloropropane	U		0.000149	0.00100	1	09/19/2021 19:52	WG1742732
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	09/19/2021 19:52	WG1742732
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	09/19/2021 19:52	WG1742732
Ethylbenzene	U		0.000137	0.00100	1	09/19/2021 19:52	WG1742732
Isopropylbenzene	U		0.000105	0.00100	1	09/19/2021 19:52	WG1742732
p-Isopropyltoluene	U		0.000120	0.00100	1	09/19/2021 19:52	WG1742732
2-Butanone (MEK)	U		0.00119	0.0100	1	09/19/2021 19:52	WG1742732
2-Hexanone	U		0.000787	0.0100	1	09/19/2021 19:52	WG1742732
Methylene Chloride	U		0.000430	0.00500	1	09/19/2021 19:52	WG1742732
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	09/19/2021 19:52	WG1742732
Methyl tert-butyl ether	U		0.000101	0.00100	1	09/19/2021 19:52	WG1742732
Naphthalene	U		0.00100	0.00500	1	09/19/2021 19:52	WG1742732
n-Propylbenzene	U		0.0000993	0.00100	1	09/19/2021 19:52	WG1742732
Styrene	U		0.000118	0.00100	1	09/19/2021 19:52	WG1742732
tert-Butyl alcohol	U		0.00406	0.00500	1	09/19/2021 19:52	WG1742732
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	09/19/2021 19:52	WG1742732
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	09/19/2021 19:52	WG1742732
Tetrachloroethene	U		0.000300	0.00100	1	09/19/2021 19:52	WG1742732
Toluene	U		0.000278	0.00100	1	09/19/2021 19:52	WG1742732
1,1,1-Trichloroethane	U		0.000149	0.00100	1	09/19/2021 19:52	WG1742732
1,1,2-Trichloroethane	U		0.000158	0.00100	1	09/19/2021 19:52	WG1742732
Trichloroethene	U		0.000190	0.00100	1	09/19/2021 19:52	WG1742732
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/19/2021 19:52	WG1742732
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/19/2021 19:52	WG1742732
Vinyl chloride	U		0.000234	0.00100	1	09/19/2021 19:52	WG1742732
o-Xylene	U		0.000174	0.00100	1	09/19/2021 19:52	WG1742732
m&p-Xylene	U		0.000430	0.00200	1	09/19/2021 19:52	WG1742732
Xylenes, Total	U		0.000174	0.00300	1	09/19/2021 19:52	WG1742732
(S) Toluene-d8	*100*			*80.0-120*		*09/19/2021 19:52*	WG1742732
(S) 4-Bromofluorobenzene	*96.1*			*77.0-126*		*09/19/2021 19:52*	WG1742732
(S) 1,2-Dichloroethane-d4	*113*			*70.0-130*		*09/19/2021 19:52*	WG1742732

EDB / DBCP by Method 8011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Ethylene Dibromide	U		0.00000536	0.0000200	1	09/21/2021 19:01	WG1743427

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	U		0.0247	0.100	1	09/29/2021 10:59	WG1745179
(S) o-Terphenyl	*87.9*			*31.0-160*		*09/29/2021 10:59*	WG1745179

Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	U		0.0000447	0.000400	1	09/19/2021 14:14	WG1742189
(S) Nitrobenzene-d5	*65.5*			*10.0-120*		*09/19/2021 14:14*	WG1742189

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	4800		50.0	1	09/21/2021 16:36	WG1743658

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.586		0.0500	0.100	1	09/25/2021 21:05	WG1745430

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	313	B	37.9	100	100	09/21/2021 19:14	WG1743625
Fluoride	1.06		0.0640	0.150	1	09/21/2021 18:59	WG1743625
Sulfate	2620		59.4	500	100	09/21/2021 19:14	WG1743625

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00386		0.000180	0.00200	1	09/23/2021 04:35	WG1742033
Barium	0.0106		0.000381	0.00200	1	09/23/2021 04:35	WG1742033
Calcium	513		0.0936	1.00	1	09/23/2021 04:35	WG1742033
Chromium	U		0.00124	0.00200	1	09/23/2021 04:35	WG1742033
Iron	0.0307	J	0.0281	0.100	1	09/23/2021 04:35	WG1742033
Lead	U		0.000849	0.00200	1	09/23/2021 04:35	WG1742033
Manganese	0.120		0.000704	0.00500	1	09/23/2021 04:35	WG1742033
Potassium	1.43	J	0.108	2.00	1	09/23/2021 04:35	WG1742033
Selenium	0.00443		0.000300	0.00200	1	09/23/2021 04:35	WG1742033
Sodium	255		0.376	2.00	1	09/23/2021 04:35	WG1742033

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	09/26/2021 18:33	WG1746586
(S) a,a,a-Trifluorotoluene(FID)	*94.2*			*78.0-120*		*09/26/2021 18:33*	WG1746586

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0113	0.0500	1	09/19/2021 20:12	WG1742732
Benzene	U		0.0000941	0.00100	1	09/19/2021 20:12	WG1742732
Bromodichloromethane	U		0.000136	0.00100	1	09/19/2021 20:12	WG1742732
Bromoform	U		0.000129	0.00100	1	09/19/2021 20:12	WG1742732
Bromomethane	U		0.000605	0.00500	1	09/19/2021 20:12	WG1742732
n-Butylbenzene	U		0.000157	0.00100	1	09/19/2021 20:12	WG1742732
sec-Butylbenzene	U		0.000125	0.00100	1	09/19/2021 20:12	WG1742732
Carbon disulfide	U		0.0000962	0.00100	1	09/19/2021 20:12	WG1742732
Carbon tetrachloride	U		0.000128	0.00100	1	09/19/2021 20:12	WG1742732
Chlorobenzene	U		0.000116	0.00100	1	09/19/2021 20:12	WG1742732
Chlorodibromomethane	U		0.000140	0.00100	1	09/19/2021 20:12	WG1742732
Chloroethane	U		0.000192	0.00500	1	09/19/2021 20:12	WG1742732
Chloroform	U		0.000111	0.00500	1	09/19/2021 20:12	WG1742732
Chloromethane	U		0.000960	0.00250	1	09/19/2021 20:12	WG1742732
1,2-Dibromoethane	U		0.000126	0.00100	1	09/19/2021 20:12	WG1742732
1,1-Dichloroethane	U		0.000100	0.00100	1	09/19/2021 20:12	WG1742732

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.0000819	0.00100	1	09/19/2021 20:12	WG1742732
1,1-Dichloroethene	U		0.000188	0.00100	1	09/19/2021 20:12	WG1742732
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	09/19/2021 20:12	WG1742732
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	09/19/2021 20:12	WG1742732
1,2-Dichloropropane	U		0.000149	0.00100	1	09/19/2021 20:12	WG1742732
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	09/19/2021 20:12	WG1742732
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	09/19/2021 20:12	WG1742732
Ethylbenzene	U		0.000137	0.00100	1	09/19/2021 20:12	WG1742732
Isopropylbenzene	U		0.000105	0.00100	1	09/19/2021 20:12	WG1742732
p-Isopropyltoluene	U		0.000120	0.00100	1	09/19/2021 20:12	WG1742732
2-Butanone (MEK)	U		0.00119	0.0100	1	09/19/2021 20:12	WG1742732
2-Hexanone	U		0.000787	0.0100	1	09/19/2021 20:12	WG1742732
Methylene Chloride	U		0.000430	0.00500	1	09/19/2021 20:12	WG1742732
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	09/19/2021 20:12	WG1742732
Methyl tert-butyl ether	U		0.000101	0.00100	1	09/19/2021 20:12	WG1742732
Naphthalene	U		0.00100	0.00500	1	09/19/2021 20:12	WG1742732
n-Propylbenzene	U		0.0000993	0.00100	1	09/19/2021 20:12	WG1742732
Styrene	U		0.000118	0.00100	1	09/19/2021 20:12	WG1742732
tert-Butyl alcohol	U		0.00406	0.00500	1	09/19/2021 20:12	WG1742732
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	09/19/2021 20:12	WG1742732
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	09/19/2021 20:12	WG1742732
Tetrachloroethene	U		0.000300	0.00100	1	09/19/2021 20:12	WG1742732
Toluene	U		0.000278	0.00100	1	09/19/2021 20:12	WG1742732
1,1,1-Trichloroethane	U		0.000149	0.00100	1	09/19/2021 20:12	WG1742732
1,1,2-Trichloroethane	U		0.000158	0.00100	1	09/19/2021 20:12	WG1742732
Trichloroethene	U		0.000190	0.00100	1	09/19/2021 20:12	WG1742732
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/19/2021 20:12	WG1742732
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/19/2021 20:12	WG1742732
Vinyl chloride	U		0.000234	0.00100	1	09/19/2021 20:12	WG1742732
o-Xylene	U		0.000174	0.00100	1	09/19/2021 20:12	WG1742732
m&p-Xylene	U		0.000430	0.00200	1	09/19/2021 20:12	WG1742732
Xylenes, Total	U		0.000174	0.00300	1	09/19/2021 20:12	WG1742732
(S) Toluene-d8	*97.7*			*80.0-120*		*09/19/2021 20:12*	WG1742732
(S) 4-Bromofluorobenzene	*92.4*			*77.0-126*		*09/19/2021 20:12*	WG1742732
(S) 1,2-Dichloroethane-d4	*117*			*70.0-130*		*09/19/2021 20:12*	WG1742732

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.304		0.0247	0.100	1	09/30/2021 12:22	WG1746820
(S) o-Terphenyl	*103*			*31.0-160*		*09/30/2021 12:22*	WG1746820

Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	U		0.0000447	0.000400	1	09/20/2021 22:50	WG1742899
(S) Nitrobenzene-d5	*56.6*			*10.0-120*		*09/20/2021 22:50*	WG1742899

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	11.0		10.0	1	09/21/2021 16:36	WG1743658

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0500	0.100	1	09/25/2021 21:07	WG1745430

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	0.465	B J	0.379	1.00	1	09/21/2021 19:29	WG1743625
Fluoride	U		0.0640	0.150	1	09/21/2021 19:29	WG1743625
Sulfate	U		0.594	5.00	1	09/21/2021 19:29	WG1743625

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	U		0.000180	0.00200	1	09/23/2021 04:38	WG1742033
Barium	0.000683	J	0.000381	0.00200	1	09/23/2021 04:38	WG1742033
Calcium	0.254	J	0.0936	1.00	1	09/23/2021 04:38	WG1742033
Chromium	U		0.00124	0.00200	1	09/23/2021 04:38	WG1742033
Iron	U		0.0281	0.100	1	09/23/2021 04:38	WG1742033
Lead	U		0.000849	0.00200	1	09/23/2021 04:38	WG1742033
Manganese	0.000902	J	0.000704	0.00500	1	09/23/2021 04:38	WG1742033
Potassium	U		0.108	2.00	1	09/23/2021 04:38	WG1742033
Selenium	U		0.000300	0.00200	1	09/23/2021 04:38	WG1742033
Sodium	U		0.376	2.00	1	09/23/2021 04:38	WG1742033

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	09/25/2021 06:41	WG1744684
(S) a,a,a-Trifluorotoluene(FID)	*94.1*			*78.0-120*		*09/25/2021 06:41*	WG1744684

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	09/19/2021 16:07	WG1742732
Benzene	U		0.0000941	0.00100	1	09/19/2021 16:07	WG1742732
Bromodichloromethane	U		0.000136	0.00100	1	09/19/2021 16:07	WG1742732
Bromoform	U		0.000129	0.00100	1	09/19/2021 16:07	WG1742732
Bromomethane	U		0.000605	0.00500	1	09/19/2021 16:07	WG1742732
n-Butylbenzene	U		0.000157	0.00100	1	09/19/2021 16:07	WG1742732
sec-Butylbenzene	U		0.000125	0.00100	1	09/19/2021 16:07	WG1742732
Carbon disulfide	U		0.0000962	0.00100	1	09/19/2021 16:07	WG1742732
Carbon tetrachloride	U		0.000128	0.00100	1	09/19/2021 16:07	WG1742732
Chlorobenzene	U		0.000116	0.00100	1	09/19/2021 16:07	WG1742732
Chlorodibromomethane	U		0.000140	0.00100	1	09/19/2021 16:07	WG1742732
Chloroethane	U		0.000192	0.00500	1	09/19/2021 16:07	WG1742732
Chloroform	U		0.000111	0.00500	1	09/19/2021 16:07	WG1742732
Chloromethane	U		0.000960	0.00250	1	09/19/2021 16:07	WG1742732
1,2-Dibromoethane	U		0.000126	0.00100	1	09/19/2021 16:07	WG1742732
1,1-Dichloroethane	U		0.000100	0.00100	1	09/19/2021 16:07	WG1742732

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.0000819	0.00100	1	09/19/2021 16:07	WG1742732
1,1-Dichloroethene	U		0.000188	0.00100	1	09/19/2021 16:07	WG1742732
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	09/19/2021 16:07	WG1742732
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	09/19/2021 16:07	WG1742732
1,2-Dichloropropane	U		0.000149	0.00100	1	09/19/2021 16:07	WG1742732
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	09/19/2021 16:07	WG1742732
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	09/19/2021 16:07	WG1742732
Ethylbenzene	U		0.000137	0.00100	1	09/19/2021 16:07	WG1742732
Isopropylbenzene	U		0.000105	0.00100	1	09/19/2021 16:07	WG1742732
p-Isopropyltoluene	U		0.000120	0.00100	1	09/19/2021 16:07	WG1742732
2-Butanone (MEK)	U		0.00119	0.0100	1	09/19/2021 16:07	WG1742732
2-Hexanone	U		0.000787	0.0100	1	09/19/2021 16:07	WG1742732
Methylene Chloride	U		0.000430	0.00500	1	09/19/2021 16:07	WG1742732
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	09/19/2021 16:07	WG1742732
Methyl tert-butyl ether	U		0.000101	0.00100	1	09/19/2021 16:07	WG1742732
Naphthalene	U		0.00100	0.00500	1	09/19/2021 16:07	WG1742732
n-Propylbenzene	U		0.0000993	0.00100	1	09/19/2021 16:07	WG1742732
Styrene	U		0.000118	0.00100	1	09/19/2021 16:07	WG1742732
tert-Butyl alcohol	U		0.00406	0.00500	1	09/19/2021 16:07	WG1742732
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	09/19/2021 16:07	WG1742732
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	09/19/2021 16:07	WG1742732
Tetrachloroethene	U		0.000300	0.00100	1	09/19/2021 16:07	WG1742732
Toluene	U		0.000278	0.00100	1	09/19/2021 16:07	WG1742732
1,1,1-Trichloroethane	U		0.000149	0.00100	1	09/19/2021 16:07	WG1742732
1,1,2-Trichloroethane	U		0.000158	0.00100	1	09/19/2021 16:07	WG1742732
Trichloroethene	U		0.000190	0.00100	1	09/19/2021 16:07	WG1742732
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/19/2021 16:07	WG1742732
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/19/2021 16:07	WG1742732
Vinyl chloride	U		0.000234	0.00100	1	09/19/2021 16:07	WG1742732
o-Xylene	U		0.000174	0.00100	1	09/19/2021 16:07	WG1742732
m&p-Xylene	U		0.000430	0.00200	1	09/19/2021 16:07	WG1742732
Xylenes, Total	U		0.000174	0.00300	1	09/19/2021 16:07	WG1742732
(S) Toluene-d8	*97.6*			*80.0-120*		*09/19/2021 16:07*	WG1742732
(S) 4-Bromofluorobenzene	*91.8*			*77.0-126*		*09/19/2021 16:07*	WG1742732
(S) 1,2-Dichloroethane-d4	*116*			*70.0-130*		*09/19/2021 16:07*	WG1742732

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0380	J	0.0247	0.100	1	09/30/2021 12:49	WG1746820
(S) o-Terphenyl	*104*			*31.0-160*		*09/30/2021 12:49*	WG1746820

Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	U		0.0000447	0.000400	1	09/20/2021 23:10	WG1742899
(S) Nitrobenzene-d5	*61.2*			*10.0-120*		*09/20/2021 23:10*	WG1742899

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	09/19/2021 15:47	WG1742732
Benzene	U		0.0000941	0.00100	1	09/19/2021 15:47	WG1742732
Bromodichloromethane	U		0.000136	0.00100	1	09/19/2021 15:47	WG1742732
Bromoform	U		0.000129	0.00100	1	09/19/2021 15:47	WG1742732
Bromomethane	U		0.000605	0.00500	1	09/19/2021 15:47	WG1742732
n-Butylbenzene	U		0.000157	0.00100	1	09/19/2021 15:47	WG1742732
sec-Butylbenzene	U		0.000125	0.00100	1	09/19/2021 15:47	WG1742732
Carbon disulfide	0.000140	J	0.0000962	0.00100	1	09/19/2021 15:47	WG1742732
Carbon tetrachloride	U		0.000128	0.00100	1	09/19/2021 15:47	WG1742732
Chlorobenzene	U		0.000116	0.00100	1	09/19/2021 15:47	WG1742732
Chlorodibromomethane	U		0.000140	0.00100	1	09/19/2021 15:47	WG1742732
Chloroethane	U		0.000192	0.00500	1	09/19/2021 15:47	WG1742732
Chloroform	U		0.000111	0.00500	1	09/19/2021 15:47	WG1742732
Chloromethane	U		0.000960	0.00250	1	09/19/2021 15:47	WG1742732
1,2-Dibromoethane	U		0.000126	0.00100	1	09/19/2021 15:47	WG1742732
1,1-Dichloroethane	U		0.000100	0.00100	1	09/19/2021 15:47	WG1742732
1,2-Dichloroethane	U		0.0000819	0.00100	1	09/19/2021 15:47	WG1742732
1,1-Dichloroethene	U		0.000188	0.00100	1	09/19/2021 15:47	WG1742732
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	09/19/2021 15:47	WG1742732
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	09/19/2021 15:47	WG1742732
1,2-Dichloropropane	U		0.000149	0.00100	1	09/19/2021 15:47	WG1742732
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	09/19/2021 15:47	WG1742732
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	09/19/2021 15:47	WG1742732
Ethylbenzene	U		0.000137	0.00100	1	09/19/2021 15:47	WG1742732
Isopropylbenzene	U		0.000105	0.00100	1	09/19/2021 15:47	WG1742732
p-Isopropyltoluene	U		0.000120	0.00100	1	09/19/2021 15:47	WG1742732
2-Butanone (MEK)	U		0.00119	0.0100	1	09/19/2021 15:47	WG1742732
2-Hexanone	U		0.000787	0.0100	1	09/19/2021 15:47	WG1742732
Methylene Chloride	U		0.000430	0.00500	1	09/19/2021 15:47	WG1742732
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	09/19/2021 15:47	WG1742732
Methyl tert-butyl ether	U		0.000101	0.00100	1	09/19/2021 15:47	WG1742732
Naphthalene	U		0.00100	0.00500	1	09/19/2021 15:47	WG1742732
n-Propylbenzene	U		0.0000993	0.00100	1	09/19/2021 15:47	WG1742732
Styrene	U		0.000118	0.00100	1	09/19/2021 15:47	WG1742732
tert-Butyl alcohol	U		0.00406	0.00500	1	09/19/2021 15:47	WG1742732
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	09/19/2021 15:47	WG1742732
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	09/19/2021 15:47	WG1742732
Tetrachloroethene	U		0.000300	0.00100	1	09/19/2021 15:47	WG1742732
Toluene	U		0.000278	0.00100	1	09/19/2021 15:47	WG1742732
1,1,1-Trichloroethane	U		0.000149	0.00100	1	09/19/2021 15:47	WG1742732
1,1,2-Trichloroethane	U		0.000158	0.00100	1	09/19/2021 15:47	WG1742732
Trichloroethene	U		0.000190	0.00100	1	09/19/2021 15:47	WG1742732
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/19/2021 15:47	WG1742732
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/19/2021 15:47	WG1742732
Vinyl chloride	U		0.000234	0.00100	1	09/19/2021 15:47	WG1742732
o-Xylene	U		0.000174	0.00100	1	09/19/2021 15:47	WG1742732
m&p-Xylene	U		0.000430	0.00200	1	09/19/2021 15:47	WG1742732
Xylenes, Total	U		0.000174	0.00300	1	09/19/2021 15:47	WG1742732
(S) Toluene-d8	*90.6*			*80.0-120*		*09/19/2021 15:47*	WG1742732
(S) 4-Bromofluorobenzene	*107*			*77.0-126*		*09/19/2021 15:47*	WG1742732
(S) 1,2-Dichloroethane-d4	*134*	J1		*70.0-130*		*09/19/2021 15:47*	WG1742732

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	09/20/2021 22:17	WG1743349
Benzene	U		0.0000941	0.00100	1	09/20/2021 22:17	WG1743349
Bromodichloromethane	U		0.000136	0.00100	1	09/20/2021 22:17	WG1743349
Bromoform	U		0.000129	0.00100	1	09/20/2021 22:17	WG1743349
Bromomethane	U		0.000605	0.00500	1	09/20/2021 22:17	WG1743349
n-Butylbenzene	U		0.000157	0.00100	1	09/20/2021 22:17	WG1743349
sec-Butylbenzene	U		0.000125	0.00100	1	09/20/2021 22:17	WG1743349
Carbon disulfide	0.000129	J	0.0000962	0.00100	1	09/20/2021 22:17	WG1743349
Carbon tetrachloride	U		0.000128	0.00100	1	09/20/2021 22:17	WG1743349
Chlorobenzene	U		0.000116	0.00100	1	09/20/2021 22:17	WG1743349
Chlorodibromomethane	U		0.000140	0.00100	1	09/20/2021 22:17	WG1743349
Chloroethane	U		0.000192	0.00500	1	09/20/2021 22:17	WG1743349
Chloroform	U		0.000111	0.00500	1	09/20/2021 22:17	WG1743349
Chloromethane	U		0.000960	0.00250	1	09/20/2021 22:17	WG1743349
1,2-Dibromoethane	U		0.000126	0.00100	1	09/20/2021 22:17	WG1743349
1,1-Dichloroethane	U		0.000100	0.00100	1	09/20/2021 22:17	WG1743349
1,2-Dichloroethane	U		0.0000819	0.00100	1	09/20/2021 22:17	WG1743349
1,1-Dichloroethene	U		0.000188	0.00100	1	09/20/2021 22:17	WG1743349
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	09/20/2021 22:17	WG1743349
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	09/20/2021 22:17	WG1743349
1,2-Dichloropropane	U		0.000149	0.00100	1	09/20/2021 22:17	WG1743349
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	09/20/2021 22:17	WG1743349
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	09/20/2021 22:17	WG1743349
Ethylbenzene	U		0.000137	0.00100	1	09/20/2021 22:17	WG1743349
Isopropylbenzene	U		0.000105	0.00100	1	09/20/2021 22:17	WG1743349
p-Isopropyltoluene	U		0.000120	0.00100	1	09/20/2021 22:17	WG1743349
2-Butanone (MEK)	U		0.00119	0.0100	1	09/20/2021 22:17	WG1743349
2-Hexanone	U		0.000787	0.0100	1	09/20/2021 22:17	WG1743349
Methylene Chloride	U		0.000430	0.00500	1	09/20/2021 22:17	WG1743349
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	09/20/2021 22:17	WG1743349
Methyl tert-butyl ether	U		0.000101	0.00100	1	09/20/2021 22:17	WG1743349
Naphthalene	U		0.00100	0.00500	1	09/20/2021 22:17	WG1743349
n-Propylbenzene	U		0.0000993	0.00100	1	09/20/2021 22:17	WG1743349
Styrene	U		0.000118	0.00100	1	09/20/2021 22:17	WG1743349
tert-Butyl alcohol	U		0.00406	0.00500	1	09/20/2021 22:17	WG1743349
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	09/20/2021 22:17	WG1743349
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	09/20/2021 22:17	WG1743349
Tetrachloroethene	U		0.000300	0.00100	1	09/20/2021 22:17	WG1743349
Toluene	U		0.000278	0.00100	1	09/20/2021 22:17	WG1743349
1,1,1-Trichloroethane	U		0.000149	0.00100	1	09/20/2021 22:17	WG1743349
1,1,2-Trichloroethane	U		0.000158	0.00100	1	09/20/2021 22:17	WG1743349
Trichloroethene	U		0.000190	0.00100	1	09/20/2021 22:17	WG1743349
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/20/2021 22:17	WG1743349
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/20/2021 22:17	WG1743349
Vinyl chloride	U		0.000234	0.00100	1	09/20/2021 22:17	WG1743349
o-Xylene	U		0.000174	0.00100	1	09/20/2021 22:17	WG1743349
m&p-Xylene	U		0.000430	0.00200	1	09/20/2021 22:17	WG1743349
Xylenes, Total	U		0.000174	0.00300	1	09/20/2021 22:17	WG1743349
(S) Toluene-d8	*97.8*			*80.0-120*		*09/20/2021 22:17*	WG1743349
(S) 4-Bromofluorobenzene	*94.0*			*77.0-126*		*09/20/2021 22:17*	WG1743349
(S) 1,2-Dichloroethane-d4	*117*			*70.0-130*		*09/20/2021 22:17*	WG1743349

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4020		50.0	1	09/21/2021 13:31	WG1743653

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	1.76		0.0500	0.100	1	09/25/2021 21:08	WG1745430

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	325	B	37.9	100	100	09/21/2021 19:59	WG1743625
Fluoride	2.66		0.0640	0.150	1	09/21/2021 19:44	WG1743625
Sulfate	1910		59.4	500	100	09/21/2021 19:59	WG1743625

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00286		0.000180	0.00200	1	09/23/2021 04:42	WG1742033
Barium	0.0130		0.000381	0.00200	1	09/23/2021 04:42	WG1742033
Calcium	614		0.0936	1.00	1	09/23/2021 04:42	WG1742033
Chromium	U		0.00124	0.00200	1	09/23/2021 04:42	WG1742033
Iron	0.144		0.0281	0.100	1	09/23/2021 04:42	WG1742033
Lead	0.00213		0.000849	0.00200	1	09/23/2021 04:42	WG1742033
Manganese	0.00367	J	0.000704	0.00500	1	09/23/2021 04:42	WG1742033
Potassium	5.98		0.108	2.00	1	09/23/2021 04:42	WG1742033
Selenium	0.00817		0.000300	0.00200	1	09/23/2021 04:42	WG1742033
Sodium	144		0.376	2.00	1	09/23/2021 04:42	WG1742033

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0573	J	0.0314	0.100	1	09/23/2021 13:26	WG1744685
(S) a,a,a-Trifluorotoluene(FID)	*98.3*			*78.0-120*		*09/23/2021 13:26*	WG1744685

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	09/19/2021 20:33	WG1742732
Benzene	U		0.0000941	0.00100	1	09/19/2021 20:33	WG1742732
Bromodichloromethane	U		0.000136	0.00100	1	09/19/2021 20:33	WG1742732
Bromoform	U		0.000129	0.00100	1	09/19/2021 20:33	WG1742732
Bromomethane	U		0.000605	0.00500	1	09/19/2021 20:33	WG1742732
n-Butylbenzene	U		0.000157	0.00100	1	09/19/2021 20:33	WG1742732
sec-Butylbenzene	U		0.000125	0.00100	1	09/19/2021 20:33	WG1742732
Carbon disulfide	U		0.0000962	0.00100	1	09/19/2021 20:33	WG1742732
Carbon tetrachloride	U		0.000128	0.00100	1	09/19/2021 20:33	WG1742732
Chlorobenzene	U		0.000116	0.00100	1	09/19/2021 20:33	WG1742732
Chlorodibromomethane	U		0.000140	0.00100	1	09/19/2021 20:33	WG1742732
Chloroethane	U		0.000192	0.00500	1	09/19/2021 20:33	WG1742732
Chloroform	U		0.000111	0.00500	1	09/19/2021 20:33	WG1742732
Chloromethane	U		0.000960	0.00250	1	09/19/2021 20:33	WG1742732
1,2-Dibromoethane	U		0.000126	0.00100	1	09/19/2021 20:33	WG1742732
1,1-Dichloroethane	U		0.000100	0.00100	1	09/19/2021 20:33	WG1742732

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.0000819	0.00100	1	09/19/2021 20:33	WG1742732
1,1-Dichloroethene	U		0.000188	0.00100	1	09/19/2021 20:33	WG1742732
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	09/19/2021 20:33	WG1742732
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	09/19/2021 20:33	WG1742732
1,2-Dichloropropane	U		0.000149	0.00100	1	09/19/2021 20:33	WG1742732
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	09/19/2021 20:33	WG1742732
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	09/19/2021 20:33	WG1742732
Ethylbenzene	U		0.000137	0.00100	1	09/19/2021 20:33	WG1742732
Isopropylbenzene	U		0.000105	0.00100	1	09/19/2021 20:33	WG1742732
p-Isopropyltoluene	U		0.000120	0.00100	1	09/19/2021 20:33	WG1742732
2-Butanone (MEK)	U		0.00119	0.0100	1	09/19/2021 20:33	WG1742732
2-Hexanone	U		0.000787	0.0100	1	09/19/2021 20:33	WG1742732
Methylene Chloride	U		0.000430	0.00500	1	09/19/2021 20:33	WG1742732
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	09/19/2021 20:33	WG1742732
Methyl tert-butyl ether	0.0580		0.000101	0.00100	1	09/19/2021 20:33	WG1742732
Naphthalene	U		0.00100	0.00500	1	09/19/2021 20:33	WG1742732
n-Propylbenzene	U		0.0000993	0.00100	1	09/19/2021 20:33	WG1742732
Styrene	U		0.000118	0.00100	1	09/19/2021 20:33	WG1742732
tert-Butyl alcohol	U		0.00406	0.00500	1	09/19/2021 20:33	WG1742732
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	09/19/2021 20:33	WG1742732
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	09/19/2021 20:33	WG1742732
Tetrachloroethene	U		0.000300	0.00100	1	09/19/2021 20:33	WG1742732
Toluene	U		0.000278	0.00100	1	09/19/2021 20:33	WG1742732
1,1,1-Trichloroethane	U		0.000149	0.00100	1	09/19/2021 20:33	WG1742732
1,1,2-Trichloroethane	U		0.000158	0.00100	1	09/19/2021 20:33	WG1742732
Trichloroethene	U		0.000190	0.00100	1	09/19/2021 20:33	WG1742732
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/19/2021 20:33	WG1742732
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/19/2021 20:33	WG1742732
Vinyl chloride	U		0.000234	0.00100	1	09/19/2021 20:33	WG1742732
o-Xylene	U		0.000174	0.00100	1	09/19/2021 20:33	WG1742732
m&p-Xylene	U		0.000430	0.00200	1	09/19/2021 20:33	WG1742732
Xylenes, Total	U		0.000174	0.00300	1	09/19/2021 20:33	WG1742732
(S) Toluene-d8	*96.1*			*80.0-120*		*09/19/2021 20:33*	WG1742732
(S) 4-Bromofluorobenzene	*92.1*			*77.0-126*		*09/19/2021 20:33*	WG1742732
(S) 1,2-Dichloroethane-d4	*114*			*70.0-130*		*09/19/2021 20:33*	WG1742732

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.146		0.0247	0.100	1	09/29/2021 11:21	WG1745179
(S) o-Terphenyl	*88.4*			*31.0-160*		*09/29/2021 11:21*	WG1745179

Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	U		0.0000447	0.000400	1	09/19/2021 14:33	WG1742189
(S) Nitrobenzene-d5	*41.2*			*10.0-120*		*09/19/2021 14:33*	WG1742189

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4770		50.0	1	09/21/2021 13:31	WG1743653

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	2.06		0.0500	0.100	1	09/25/2021 21:13	WG1745430

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	253	B	37.9	100	100	09/21/2021 20:29	WG1743625
Fluoride	4.12		0.0640	0.150	1	09/21/2021 20:14	WG1743625
Sulfate	2720		59.4	500	100	09/21/2021 20:29	WG1743625

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00641		0.000180	0.00200	1	09/23/2021 04:45	WG1742033
Barium	0.0111		0.000381	0.00200	1	09/23/2021 04:45	WG1742033
Calcium	568		0.0936	1.00	1	09/23/2021 04:45	WG1742033
Chromium	0.00557		0.00124	0.00200	1	09/23/2021 04:45	WG1742033
Iron	0.0652	J	0.0281	0.100	1	09/23/2021 04:45	WG1742033
Lead	U		0.000849	0.00200	1	09/23/2021 04:45	WG1742033
Manganese	0.00119	J	0.000704	0.00500	1	09/23/2021 04:45	WG1742033
Potassium	2.38		0.108	2.00	1	09/23/2021 04:45	WG1742033
Selenium	0.0145		0.000300	0.00200	1	09/23/2021 04:45	WG1742033
Sodium	186		0.376	2.00	1	09/23/2021 04:45	WG1742033

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	09/23/2021 13:48	WG1744685
(S) a,a,a-Trifluorotoluene(FID)	*98.1*			*78.0-120*		*09/23/2021 13:48*	WG1744685

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	09/19/2021 20:53	WG1742732
Benzene	U		0.0000941	0.00100	1	09/19/2021 20:53	WG1742732
Bromodichloromethane	U		0.000136	0.00100	1	09/19/2021 20:53	WG1742732
Bromoform	U		0.000129	0.00100	1	09/19/2021 20:53	WG1742732
Bromomethane	U		0.000605	0.00500	1	09/19/2021 20:53	WG1742732
n-Butylbenzene	U		0.000157	0.00100	1	09/19/2021 20:53	WG1742732
sec-Butylbenzene	U		0.000125	0.00100	1	09/19/2021 20:53	WG1742732
Carbon disulfide	U		0.0000962	0.00100	1	09/19/2021 20:53	WG1742732
Carbon tetrachloride	U		0.000128	0.00100	1	09/19/2021 20:53	WG1742732
Chlorobenzene	U		0.000116	0.00100	1	09/19/2021 20:53	WG1742732
Chlorodibromomethane	U		0.000140	0.00100	1	09/19/2021 20:53	WG1742732
Chloroethane	U		0.000192	0.00500	1	09/19/2021 20:53	WG1742732
Chloroform	U		0.000111	0.00500	1	09/19/2021 20:53	WG1742732
Chloromethane	U		0.000960	0.00250	1	09/19/2021 20:53	WG1742732
1,2-Dibromoethane	U		0.000126	0.00100	1	09/19/2021 20:53	WG1742732
1,1-Dichloroethane	U		0.000100	0.00100	1	09/19/2021 20:53	WG1742732

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.0000819	0.00100	1	09/19/2021 20:53	WG1742732
1,1-Dichloroethene	U		0.000188	0.00100	1	09/19/2021 20:53	WG1742732
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	09/19/2021 20:53	WG1742732
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	09/19/2021 20:53	WG1742732
1,2-Dichloropropane	U		0.000149	0.00100	1	09/19/2021 20:53	WG1742732
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	09/19/2021 20:53	WG1742732
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	09/19/2021 20:53	WG1742732
Ethylbenzene	U		0.000137	0.00100	1	09/19/2021 20:53	WG1742732
Isopropylbenzene	U		0.000105	0.00100	1	09/19/2021 20:53	WG1742732
p-Isopropyltoluene	U		0.000120	0.00100	1	09/19/2021 20:53	WG1742732
2-Butanone (MEK)	U		0.00119	0.0100	1	09/19/2021 20:53	WG1742732
2-Hexanone	U		0.000787	0.0100	1	09/19/2021 20:53	WG1742732
Methylene Chloride	U		0.000430	0.00500	1	09/19/2021 20:53	WG1742732
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	09/19/2021 20:53	WG1742732
Methyl tert-butyl ether	0.000139	J	0.000101	0.00100	1	09/19/2021 20:53	WG1742732
Naphthalene	U		0.00100	0.00500	1	09/19/2021 20:53	WG1742732
n-Propylbenzene	U		0.0000993	0.00100	1	09/19/2021 20:53	WG1742732
Styrene	U		0.000118	0.00100	1	09/19/2021 20:53	WG1742732
tert-Butyl alcohol	U		0.00406	0.00500	1	09/19/2021 20:53	WG1742732
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	09/19/2021 20:53	WG1742732
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	09/19/2021 20:53	WG1742732
Tetrachloroethene	U		0.000300	0.00100	1	09/19/2021 20:53	WG1742732
Toluene	U		0.000278	0.00100	1	09/19/2021 20:53	WG1742732
1,1,1-Trichloroethane	U		0.000149	0.00100	1	09/19/2021 20:53	WG1742732
1,1,2-Trichloroethane	U		0.000158	0.00100	1	09/19/2021 20:53	WG1742732
Trichloroethene	U		0.000190	0.00100	1	09/19/2021 20:53	WG1742732
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/19/2021 20:53	WG1742732
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/19/2021 20:53	WG1742732
Vinyl chloride	U		0.000234	0.00100	1	09/19/2021 20:53	WG1742732
o-Xylene	U		0.000174	0.00100	1	09/19/2021 20:53	WG1742732
m&p-Xylene	U		0.000430	0.00200	1	09/19/2021 20:53	WG1742732
Xylenes, Total	U		0.000174	0.00300	1	09/19/2021 20:53	WG1742732
(S) Toluene-d8	*98.3*			*80.0-120*		*09/19/2021 20:53*	WG1742732
(S) 4-Bromofluorobenzene	*92.6*			*77.0-126*		*09/19/2021 20:53*	WG1742732
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*09/19/2021 20:53*	WG1742732

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	U		0.0247	0.100	1	09/29/2021 11:43	WG1745179
(S) o-Terphenyl	*76.3*			*31.0-160*		*09/29/2021 11:43*	WG1745179

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4360		50.0	1	09/21/2021 13:31	WG1743653

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.314		0.0500	0.100	1	09/25/2021 21:14	WG1745430

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	282	B	37.9	100	100	09/21/2021 20:59	WG1743625
Fluoride	1.70		0.0640	0.150	1	09/21/2021 20:44	WG1743625
Sulfate	2320		59.4	500	100	09/21/2021 20:59	WG1743625

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00343		0.000180	0.00200	1	09/23/2021 04:49	WG1742033
Barium	0.0107		0.000381	0.00200	1	09/23/2021 04:49	WG1742033
Calcium	607		0.0936	1.00	1	09/23/2021 04:49	WG1742033
Chromium	0.00190	J	0.00124	0.00200	1	09/23/2021 04:49	WG1742033
Iron	0.0477	J	0.0281	0.100	1	09/23/2021 04:49	WG1742033
Lead	U		0.000849	0.00200	1	09/23/2021 04:49	WG1742033
Manganese	0.00435	J	0.000704	0.00500	1	09/23/2021 04:49	WG1742033
Potassium	0.786	J	0.108	2.00	1	09/23/2021 04:49	WG1742033
Selenium	0.00413		0.000300	0.00200	1	09/23/2021 04:49	WG1742033
Sodium	192		0.376	2.00	1	09/23/2021 04:49	WG1742033

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	09/23/2021 14:10	WG1744685
(S) a,a,a-Trifluorotoluene(FID)	*98.3*			*78.0-120*		*09/23/2021 14:10*	WG1744685

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	09/19/2021 21:14	WG1742732
Benzene	U		0.0000941	0.00100	1	09/19/2021 21:14	WG1742732
Bromodichloromethane	U		0.000136	0.00100	1	09/19/2021 21:14	WG1742732
Bromoform	U		0.000129	0.00100	1	09/19/2021 21:14	WG1742732
Bromomethane	U		0.000605	0.00500	1	09/19/2021 21:14	WG1742732
n-Butylbenzene	U		0.000157	0.00100	1	09/19/2021 21:14	WG1742732
sec-Butylbenzene	U		0.000125	0.00100	1	09/19/2021 21:14	WG1742732
Carbon disulfide	0.000102	J	0.0000962	0.00100	1	09/19/2021 21:14	WG1742732
Carbon tetrachloride	U		0.000128	0.00100	1	09/19/2021 21:14	WG1742732
Chlorobenzene	U		0.000116	0.00100	1	09/19/2021 21:14	WG1742732
Chlorodibromomethane	U		0.000140	0.00100	1	09/19/2021 21:14	WG1742732
Chloroethane	U		0.000192	0.00500	1	09/19/2021 21:14	WG1742732
Chloroform	U		0.000111	0.00500	1	09/19/2021 21:14	WG1742732
Chloromethane	U		0.000960	0.00250	1	09/19/2021 21:14	WG1742732
1,2-Dibromoethane	U		0.000126	0.00100	1	09/19/2021 21:14	WG1742732
1,1-Dichloroethane	U		0.000100	0.00100	1	09/19/2021 21:14	WG1742732

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.0000819	0.00100	1	09/19/2021 21:14	WG1742732
1,1-Dichloroethene	U		0.000188	0.00100	1	09/19/2021 21:14	WG1742732
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	09/19/2021 21:14	WG1742732
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	09/19/2021 21:14	WG1742732
1,2-Dichloropropane	U		0.000149	0.00100	1	09/19/2021 21:14	WG1742732
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	09/19/2021 21:14	WG1742732
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	09/19/2021 21:14	WG1742732
Ethylbenzene	U		0.000137	0.00100	1	09/19/2021 21:14	WG1742732
Isopropylbenzene	U		0.000105	0.00100	1	09/19/2021 21:14	WG1742732
p-Isopropyltoluene	U		0.000120	0.00100	1	09/19/2021 21:14	WG1742732
2-Butanone (MEK)	U		0.00119	0.0100	1	09/19/2021 21:14	WG1742732
2-Hexanone	U		0.000787	0.0100	1	09/19/2021 21:14	WG1742732
Methylene Chloride	U		0.000430	0.00500	1	09/19/2021 21:14	WG1742732
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	09/19/2021 21:14	WG1742732
Methyl tert-butyl ether	U		0.000101	0.00100	1	09/19/2021 21:14	WG1742732
Naphthalene	U		0.00100	0.00500	1	09/19/2021 21:14	WG1742732
n-Propylbenzene	U		0.0000993	0.00100	1	09/19/2021 21:14	WG1742732
Styrene	U		0.000118	0.00100	1	09/19/2021 21:14	WG1742732
tert-Butyl alcohol	U		0.00406	0.00500	1	09/19/2021 21:14	WG1742732
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	09/19/2021 21:14	WG1742732
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	09/19/2021 21:14	WG1742732
Tetrachloroethene	U		0.000300	0.00100	1	09/19/2021 21:14	WG1742732
Toluene	U		0.000278	0.00100	1	09/19/2021 21:14	WG1742732
1,1,1-Trichloroethane	U		0.000149	0.00100	1	09/19/2021 21:14	WG1742732
1,1,2-Trichloroethane	U		0.000158	0.00100	1	09/19/2021 21:14	WG1742732
Trichloroethene	U		0.000190	0.00100	1	09/19/2021 21:14	WG1742732
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/19/2021 21:14	WG1742732
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/19/2021 21:14	WG1742732
Vinyl chloride	U		0.000234	0.00100	1	09/19/2021 21:14	WG1742732
o-Xylene	U		0.000174	0.00100	1	09/19/2021 21:14	WG1742732
m&p-Xylene	U		0.000430	0.00200	1	09/19/2021 21:14	WG1742732
Xylenes, Total	U		0.000174	0.00300	1	09/19/2021 21:14	WG1742732
(S) Toluene-d8	*97.8*			*80.0-120*		*09/19/2021 21:14*	WG1742732
(S) 4-Bromofluorobenzene	*90.3*			*77.0-126*		*09/19/2021 21:14*	WG1742732
(S) 1,2-Dichloroethane-d4	*118*			*70.0-130*		*09/19/2021 21:14*	WG1742732

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0272	J	0.0247	0.100	1	09/29/2021 12:06	WG1745179
(S) o-Terphenyl	*90.5*			*31.0-160*		*09/29/2021 12:06*	WG1745179

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3360		50.0	1	09/21/2021 13:31	WG1743653

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	12.2		0.250	0.500	5	09/25/2021 21:50	WG1745430

Wet Chemistry by Method 4500CN E-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Cyanide	U		0.00180	0.00500	1	09/23/2021 17:04	WG1745026

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	268	B	37.9	100	100	09/21/2021 21:58	WG1743625
Fluoride	1.53		0.0640	0.150	1	09/21/2021 21:44	WG1743625
Sulfate	1700		59.4	500	100	09/21/2021 21:58	WG1743625

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U		0.000100	0.000200	1	09/22/2021 15:16	WG1741778

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	0.505		0.0200	0.200	1	09/23/2021 04:26	WG1742039

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00287		0.000180	0.00200	1	09/22/2021 21:48	WG1742034
Barium	0.0125		0.000381	0.00200	1	09/22/2021 21:48	WG1742034
Cadmium	U		0.000150	0.00100	1	09/22/2021 21:48	WG1742034
Calcium	542		0.0936	1.00	1	09/22/2021 21:48	WG1742034
Chromium	U		0.00124	0.00200	1	09/22/2021 21:48	WG1742034
Cobalt	0.000760	J	0.0000596	0.00200	1	09/22/2021 21:48	WG1742034
Iron	0.0558	J	0.0281	0.100	1	09/22/2021 21:48	WG1742034
Lead	U		0.000849	0.00200	1	09/22/2021 21:48	WG1742034
Manganese	0.0162		0.000704	0.00500	1	09/22/2021 21:48	WG1742034
Nickel	0.00251		0.000816	0.00200	1	09/22/2021 21:48	WG1742034
Potassium	2.42		0.108	2.00	1	09/22/2021 21:48	WG1742034
Selenium	0.00591		0.000300	0.00200	1	09/22/2021 21:48	WG1742034
Sodium	115	V	0.376	2.00	1	09/22/2021 21:48	WG1742034
Uranium	0.0396		0.0000789	0.00100	1	09/22/2021 21:48	WG1742034
Vanadium	0.0149		0.000664	0.00500	1	09/22/2021 21:48	WG1742034

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	09/23/2021 14:32	WG1744685

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
(S) a,a,a-Trifluorotoluene(FID)	*98.1*			*78.0-120*		*09/23/2021 14:32*	WG1744685

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	09/19/2021 21:34	WG1742732
Benzene	U		0.0000941	0.00100	1	09/19/2021 21:34	WG1742732
Bromodichloromethane	U		0.000136	0.00100	1	09/19/2021 21:34	WG1742732
Bromoform	U		0.000129	0.00100	1	09/19/2021 21:34	WG1742732
Bromomethane	U		0.000605	0.00500	1	09/19/2021 21:34	WG1742732
n-Butylbenzene	U		0.000157	0.00100	1	09/19/2021 21:34	WG1742732
sec-Butylbenzene	U		0.000125	0.00100	1	09/19/2021 21:34	WG1742732
Carbon disulfide	U		0.0000962	0.00100	1	09/19/2021 21:34	WG1742732
Carbon tetrachloride	U		0.000128	0.00100	1	09/19/2021 21:34	WG1742732
Chlorobenzene	U		0.000116	0.00100	1	09/19/2021 21:34	WG1742732
Chlorodibromomethane	U		0.000140	0.00100	1	09/19/2021 21:34	WG1742732
Chloroethane	U		0.000192	0.00500	1	09/19/2021 21:34	WG1742732
Chloroform	U		0.000111	0.00500	1	09/19/2021 21:34	WG1742732
Chloromethane	U		0.000960	0.00250	1	09/19/2021 21:34	WG1742732
1,2-Dibromoethane	U		0.000126	0.00100	1	09/19/2021 21:34	WG1742732
1,1-Dichloroethane	U		0.000100	0.00100	1	09/19/2021 21:34	WG1742732
1,2-Dichloroethane	U		0.0000819	0.00100	1	09/19/2021 21:34	WG1742732
1,1-Dichloroethene	U		0.000188	0.00100	1	09/19/2021 21:34	WG1742732
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	09/19/2021 21:34	WG1742732
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	09/19/2021 21:34	WG1742732
1,2-Dichloropropane	U		0.000149	0.00100	1	09/19/2021 21:34	WG1742732
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	09/19/2021 21:34	WG1742732
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	09/19/2021 21:34	WG1742732
Ethylbenzene	U		0.000137	0.00100	1	09/19/2021 21:34	WG1742732
Isopropylbenzene	U		0.000105	0.00100	1	09/19/2021 21:34	WG1742732
p-Isopropyltoluene	U		0.000120	0.00100	1	09/19/2021 21:34	WG1742732
2-Butanone (MEK)	U		0.00119	0.0100	1	09/19/2021 21:34	WG1742732
2-Hexanone	U		0.000787	0.0100	1	09/19/2021 21:34	WG1742732
Methylene Chloride	U		0.000430	0.00500	1	09/19/2021 21:34	WG1742732
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	09/19/2021 21:34	WG1742732
Methyl tert-butyl ether	0.000624	J	0.000101	0.00100	1	09/19/2021 21:34	WG1742732
Naphthalene	U		0.00100	0.00500	1	09/19/2021 21:34	WG1742732
n-Propylbenzene	U		0.0000993	0.00100	1	09/19/2021 21:34	WG1742732
Styrene	U		0.000118	0.00100	1	09/19/2021 21:34	WG1742732
tert-Butyl alcohol	U		0.00406	0.00500	1	09/19/2021 21:34	WG1742732
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	09/19/2021 21:34	WG1742732
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	09/19/2021 21:34	WG1742732
Tetrachloroethene	U		0.000300	0.00100	1	09/19/2021 21:34	WG1742732
Toluene	U		0.000278	0.00100	1	09/19/2021 21:34	WG1742732
1,1,1-Trichloroethane	U		0.000149	0.00100	1	09/19/2021 21:34	WG1742732
1,1,2-Trichloroethane	U		0.000158	0.00100	1	09/19/2021 21:34	WG1742732
Trichloroethene	U		0.000190	0.00100	1	09/19/2021 21:34	WG1742732
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/19/2021 21:34	WG1742732
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/19/2021 21:34	WG1742732
Vinyl chloride	U		0.000234	0.00100	1	09/19/2021 21:34	WG1742732
o-Xylene	U		0.000174	0.00100	1	09/19/2021 21:34	WG1742732
m&p-Xylene	U		0.000430	0.00200	1	09/19/2021 21:34	WG1742732
Xylenes, Total	U		0.000174	0.00300	1	09/19/2021 21:34	WG1742732
(S) Toluene-d8	*97.6*			*80.0-120*		*09/19/2021 21:34*	WG1742732
(S) 4-Bromofluorobenzene	*91.4*			*77.0-126*		*09/19/2021 21:34*	WG1742732

MW-136
Collected date/time: 09/14/21 08:55
L1404404

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
(S) 1,2-Dichloroethane-d4	*113*			*70.0-130*		*09/19/2021 21:34*	WG1742732

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) High Fraction	0.0432	J	0.0247	0.100	1	09/29/2021 12:28	WG1745179
(S) o-Terphenyl	*82.6*			*31.0-160*		*09/29/2021 12:28*	WG1745179

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4020		50.0	1	09/21/2021 13:31	WG1743653

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.399		0.0500	0.100	1	09/25/2021 21:59	WG1745430

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	249	B	37.9	100	100	09/21/2021 22:28	WG1743625
Fluoride	0.712		0.0640	0.150	1	09/21/2021 22:13	WG1743625
Sulfate	2010		59.4	500	100	09/21/2021 22:28	WG1743625

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00366		0.000180	0.00200	1	09/22/2021 22:13	WG1742034
Barium	0.0101		0.000381	0.00200	1	09/22/2021 22:13	WG1742034
Calcium	539		0.0936	1.00	1	09/22/2021 22:13	WG1742034
Chromium	U		0.00124	0.00200	1	09/22/2021 22:13	WG1742034
Iron	U		0.0281	0.100	1	09/22/2021 22:13	WG1742034
Lead	U		0.000849	0.00200	1	09/22/2021 22:13	WG1742034
Manganese	0.0421		0.000704	0.00500	1	09/22/2021 22:13	WG1742034
Potassium	2.28		0.108	2.00	1	09/22/2021 22:13	WG1742034
Selenium	0.00345		0.000300	0.00200	1	09/22/2021 22:13	WG1742034
Sodium	198		0.376	2.00	1	09/22/2021 22:13	WG1742034

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	09/23/2021 14:53	WG1744685
(S) a,a,a-Trifluorotoluene(FID)	*97.8*			*78.0-120*		*09/23/2021 14:53*	WG1744685

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	09/19/2021 21:55	WG1742732
Benzene	U		0.0000941	0.00100	1	09/19/2021 21:55	WG1742732
Bromodichloromethane	U		0.000136	0.00100	1	09/19/2021 21:55	WG1742732
Bromoform	U		0.000129	0.00100	1	09/19/2021 21:55	WG1742732
Bromomethane	U		0.000605	0.00500	1	09/19/2021 21:55	WG1742732
n-Butylbenzene	U		0.000157	0.00100	1	09/19/2021 21:55	WG1742732
sec-Butylbenzene	U		0.000125	0.00100	1	09/19/2021 21:55	WG1742732
Carbon disulfide	U		0.0000962	0.00100	1	09/19/2021 21:55	WG1742732
Carbon tetrachloride	U		0.000128	0.00100	1	09/19/2021 21:55	WG1742732
Chlorobenzene	U		0.000116	0.00100	1	09/19/2021 21:55	WG1742732
Chlorodibromomethane	U		0.000140	0.00100	1	09/19/2021 21:55	WG1742732
Chloroethane	U		0.000192	0.00500	1	09/19/2021 21:55	WG1742732
Chloroform	U		0.000111	0.00500	1	09/19/2021 21:55	WG1742732
Chloromethane	U		0.000960	0.00250	1	09/19/2021 21:55	WG1742732
1,2-Dibromoethane	U		0.000126	0.00100	1	09/19/2021 21:55	WG1742732
1,1-Dichloroethane	U		0.000100	0.00100	1	09/19/2021 21:55	WG1742732

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.0000819	0.00100	1	09/19/2021 21:55	WG1742732
1,1-Dichloroethene	U		0.000188	0.00100	1	09/19/2021 21:55	WG1742732
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	09/19/2021 21:55	WG1742732
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	09/19/2021 21:55	WG1742732
1,2-Dichloropropane	U		0.000149	0.00100	1	09/19/2021 21:55	WG1742732
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	09/19/2021 21:55	WG1742732
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	09/19/2021 21:55	WG1742732
Ethylbenzene	U		0.000137	0.00100	1	09/19/2021 21:55	WG1742732
Isopropylbenzene	U		0.000105	0.00100	1	09/19/2021 21:55	WG1742732
p-Isopropyltoluene	U		0.000120	0.00100	1	09/19/2021 21:55	WG1742732
2-Butanone (MEK)	U		0.00119	0.0100	1	09/19/2021 21:55	WG1742732
2-Hexanone	U		0.000787	0.0100	1	09/19/2021 21:55	WG1742732
Methylene Chloride	U		0.000430	0.00500	1	09/19/2021 21:55	WG1742732
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	09/19/2021 21:55	WG1742732
Methyl tert-butyl ether	0.000151	J	0.000101	0.00100	1	09/19/2021 21:55	WG1742732
Naphthalene	U		0.00100	0.00500	1	09/19/2021 21:55	WG1742732
n-Propylbenzene	U		0.0000993	0.00100	1	09/19/2021 21:55	WG1742732
Styrene	U		0.000118	0.00100	1	09/19/2021 21:55	WG1742732
tert-Butyl alcohol	U		0.00406	0.00500	1	09/19/2021 21:55	WG1742732
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	09/19/2021 21:55	WG1742732
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	09/19/2021 21:55	WG1742732
Tetrachloroethene	U		0.000300	0.00100	1	09/19/2021 21:55	WG1742732
Toluene	U		0.000278	0.00100	1	09/19/2021 21:55	WG1742732
1,1,1-Trichloroethane	U		0.000149	0.00100	1	09/19/2021 21:55	WG1742732
1,1,2-Trichloroethane	U		0.000158	0.00100	1	09/19/2021 21:55	WG1742732
Trichloroethene	U		0.000190	0.00100	1	09/19/2021 21:55	WG1742732
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/19/2021 21:55	WG1742732
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/19/2021 21:55	WG1742732
Vinyl chloride	U		0.000234	0.00100	1	09/19/2021 21:55	WG1742732
o-Xylene	U		0.000174	0.00100	1	09/19/2021 21:55	WG1742732
m&p-Xylene	U		0.000430	0.00200	1	09/19/2021 21:55	WG1742732
Xylenes, Total	U		0.000174	0.00300	1	09/19/2021 21:55	WG1742732
(S) Toluene-d8	*96.5*			*80.0-120*		*09/19/2021 21:55*	WG1742732
(S) 4-Bromofluorobenzene	*92.5*			*77.0-126*		*09/19/2021 21:55*	WG1742732
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*		*09/19/2021 21:55*	WG1742732

EDB / DBCP by Method 8011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Ethylene Dibromide	U		0.00000536	0.0000200	1	09/21/2021 19:50	WG1743427

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.181		0.0247	0.100	1	09/29/2021 12:51	WG1745179
(S) o-Terphenyl	*88.4*			*31.0-160*		*09/29/2021 12:51*	WG1745179

Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	U		0.0000447	0.000400	1	09/19/2021 14:53	WG1742189
(S) Nitrobenzene-d5	*57.2*			*10.0-120*		*09/19/2021 14:53*	WG1742189

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3170		50.0	1	09/21/2021 13:31	WG1743653

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	34.2		0.500	1.00	10	09/25/2021 21:53	WG1745430

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	496		37.9	100	100	09/21/2021 22:58	WG1743625
Fluoride	3.42		0.0640	0.150	1	09/21/2021 22:43	WG1743625
Sulfate	3310		59.4	500	100	09/21/2021 22:58	WG1743625

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00799		0.000180	0.00200	1	09/22/2021 22:17	WG1742034
Barium	0.0374		0.000381	0.00200	1	09/22/2021 22:17	WG1742034
Calcium	652		0.0936	1.00	1	09/22/2021 22:17	WG1742034
Chromium	0.00249		0.00124	0.00200	1	09/22/2021 22:17	WG1742034
Iron	1.38		0.0281	0.100	1	09/22/2021 22:17	WG1742034
Lead	0.00718		0.000849	0.00200	1	09/22/2021 22:17	WG1742034
Manganese	0.0587		0.000704	0.00500	1	09/22/2021 22:17	WG1742034
Potassium	3.11		0.108	2.00	1	09/22/2021 22:17	WG1742034
Selenium	0.0193		0.000300	0.00200	1	09/22/2021 22:17	WG1742034
Sodium	455		0.376	2.00	1	09/22/2021 22:17	WG1742034

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	09/23/2021 15:15	WG1744685
(S) a,a,a-Trifluorotoluene(FID)	*98.1*			*78.0-120*		*09/23/2021 15:15*	WG1744685

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	09/19/2021 18:41	WG1742740
Benzene	U		0.0000941	0.00100	1	09/19/2021 18:41	WG1742740
Bromodichloromethane	U		0.000136	0.00100	1	09/19/2021 18:41	WG1742740
Bromoform	U		0.000129	0.00100	1	09/19/2021 18:41	WG1742740
Bromomethane	U		0.000605	0.00500	1	09/19/2021 18:41	WG1742740
n-Butylbenzene	U		0.000157	0.00100	1	09/19/2021 18:41	WG1742740
sec-Butylbenzene	U		0.000125	0.00100	1	09/19/2021 18:41	WG1742740
Carbon disulfide	U		0.0000962	0.00100	1	09/19/2021 18:41	WG1742740
Carbon tetrachloride	U		0.000128	0.00100	1	09/19/2021 18:41	WG1742740
Chlorobenzene	U		0.000116	0.00100	1	09/19/2021 18:41	WG1742740
Chlorodibromomethane	U		0.000140	0.00100	1	09/19/2021 18:41	WG1742740
Chloroethane	U		0.000192	0.00500	1	09/19/2021 18:41	WG1742740
Chloroform	U		0.000111	0.00500	1	09/19/2021 18:41	WG1742740
Chloromethane	U		0.000960	0.00250	1	09/19/2021 18:41	WG1742740
1,2-Dibromoethane	U		0.000126	0.00100	1	09/19/2021 18:41	WG1742740
1,1-Dichloroethane	U		0.000100	0.00100	1	09/19/2021 18:41	WG1742740

MW-37
Collected date/time: 09/14/21 10:55
L1404404

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.0000819	0.00100	1	09/19/2021 18:41	WG1742740
1,1-Dichloroethene	U		0.000188	0.00100	1	09/19/2021 18:41	WG1742740
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	09/19/2021 18:41	WG1742740
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	09/19/2021 18:41	WG1742740
1,2-Dichloropropane	U		0.000149	0.00100	1	09/19/2021 18:41	WG1742740
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	09/19/2021 18:41	WG1742740
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	09/19/2021 18:41	WG1742740
Ethylbenzene	U		0.000137	0.00100	1	09/19/2021 18:41	WG1742740
Isopropylbenzene	U		0.000105	0.00100	1	09/19/2021 18:41	WG1742740
p-Isopropyltoluene	U		0.000120	0.00100	1	09/19/2021 18:41	WG1742740
2-Butanone (MEK)	U		0.00119	0.0100	1	09/19/2021 18:41	WG1742740
2-Hexanone	U		0.000787	0.0100	1	09/19/2021 18:41	WG1742740
Methylene Chloride	U		0.000430	0.00500	1	09/19/2021 18:41	WG1742740
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	09/19/2021 18:41	WG1742740
Methyl tert-butyl ether	U		0.000101	0.00100	1	09/19/2021 18:41	WG1742740
Naphthalene	U		0.00100	0.00500	1	09/19/2021 18:41	WG1742740
n-Propylbenzene	U		0.0000993	0.00100	1	09/19/2021 18:41	WG1742740
Styrene	U		0.000118	0.00100	1	09/19/2021 18:41	WG1742740
tert-Butyl alcohol	U		0.00406	0.00500	1	09/19/2021 18:41	WG1742740
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	09/19/2021 18:41	WG1742740
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	09/19/2021 18:41	WG1742740
Tetrachloroethene	U		0.000300	0.00100	1	09/19/2021 18:41	WG1742740
Toluene	U		0.000278	0.00100	1	09/19/2021 18:41	WG1742740
1,1,1-Trichloroethane	U		0.000149	0.00100	1	09/19/2021 18:41	WG1742740
1,1,2-Trichloroethane	U		0.000158	0.00100	1	09/19/2021 18:41	WG1742740
Trichloroethene	U		0.000190	0.00100	1	09/19/2021 18:41	WG1742740
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/19/2021 18:41	WG1742740
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/19/2021 18:41	WG1742740
Vinyl chloride	U		0.000234	0.00100	1	09/19/2021 18:41	WG1742740
o-Xylene	U		0.000174	0.00100	1	09/19/2021 18:41	WG1742740
m&p-Xylene	U		0.000430	0.00200	1	09/19/2021 18:41	WG1742740
Xylenes, Total	U		0.000174	0.00300	1	09/19/2021 18:41	WG1742740
(S) Toluene-d8	*105*			*80.0-120*		*09/19/2021 18:41*	WG1742740
(S) 4-Bromofluorobenzene	*102*			*77.0-126*		*09/19/2021 18:41*	WG1742740
(S) 1,2-Dichloroethane-d4	*99.3*			*70.0-130*		*09/19/2021 18:41*	WG1742740

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	U		0.0247	0.100	1	09/29/2021 13:13	WG1745179
(S) o-Terphenyl	*73.7*			*31.0-160*		*09/29/2021 13:13*	WG1745179

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3960		50.0	1	09/21/2021 13:31	WG1743653

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	10.6	V	0.250	0.500	5	09/25/2021 21:55	WG1745430

Wet Chemistry by Method 4500CN E-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Cyanide	U		0.00180	0.00500	1	09/23/2021 17:05	WG1745026

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	195	B	37.9	100	100	09/21/2021 23:28	WG1743625
Fluoride	0.623		0.0640	0.150	1	09/21/2021 23:13	WG1743625
Sulfate	2090		59.4	500	100	09/21/2021 23:28	WG1743625

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U		0.000100	0.000200	1	09/22/2021 15:18	WG1741778

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	0.503		0.0200	0.200	1	09/23/2021 04:30	WG1742039

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00158	J	0.000180	0.00200	1	09/22/2021 22:21	WG1742034
Barium	0.0194		0.000381	0.00200	1	09/22/2021 22:21	WG1742034
Cadmium	U		0.000150	0.00100	1	09/22/2021 22:21	WG1742034
Calcium	544		0.0936	1.00	1	09/22/2021 22:21	WG1742034
Chromium	0.00124	J	0.00124	0.00200	1	09/22/2021 22:21	WG1742034
Cobalt	0.0000641	J	0.0000596	0.00200	1	09/22/2021 22:21	WG1742034
Iron	0.0498	J	0.0281	0.100	1	09/22/2021 22:21	WG1742034
Lead	U		0.000849	0.00200	1	09/22/2021 22:21	WG1742034
Manganese	0.00144	J	0.000704	0.00500	1	09/22/2021 22:21	WG1742034
Nickel	0.000944	J	0.000816	0.00200	1	09/22/2021 22:21	WG1742034
Potassium	1.07	J	0.108	2.00	1	09/22/2021 22:21	WG1742034
Selenium	0.00549		0.000300	0.00200	1	09/22/2021 22:21	WG1742034
Sodium	185		0.376	2.00	1	09/22/2021 22:21	WG1742034
Uranium	0.0260		0.0000789	0.00100	1	09/22/2021 22:21	WG1742034
Vanadium	0.0135		0.000664	0.00500	1	09/22/2021 22:21	WG1742034

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	09/23/2021 15:37	WG1744685

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
(S) a,a,a-Trifluorotoluene(FID)	*97.5*			*78.0-120*		*09/23/2021 15:37*	WG1744685

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	09/19/2021 19:03	WG1742740
Benzene	0.000531	J	0.0000941	0.00100	1	09/19/2021 19:03	WG1742740
Bromodichloromethane	U		0.000136	0.00100	1	09/19/2021 19:03	WG1742740
Bromoform	U		0.000129	0.00100	1	09/19/2021 19:03	WG1742740
Bromomethane	U		0.000605	0.00500	1	09/19/2021 19:03	WG1742740
n-Butylbenzene	U		0.000157	0.00100	1	09/19/2021 19:03	WG1742740
sec-Butylbenzene	U		0.000125	0.00100	1	09/19/2021 19:03	WG1742740
Carbon disulfide	U		0.0000962	0.00100	1	09/19/2021 19:03	WG1742740
Carbon tetrachloride	U		0.000128	0.00100	1	09/19/2021 19:03	WG1742740
Chlorobenzene	U		0.000116	0.00100	1	09/19/2021 19:03	WG1742740
Chlorodibromomethane	U		0.000140	0.00100	1	09/19/2021 19:03	WG1742740
Chloroethane	U		0.000192	0.00500	1	09/19/2021 19:03	WG1742740
Chloroform	U		0.000111	0.00500	1	09/19/2021 19:03	WG1742740
Chloromethane	U		0.000960	0.00250	1	09/19/2021 19:03	WG1742740
1,2-Dibromoethane	U		0.000126	0.00100	1	09/19/2021 19:03	WG1742740
1,1-Dichloroethane	U		0.000100	0.00100	1	09/19/2021 19:03	WG1742740
1,2-Dichloroethane	U		0.0000819	0.00100	1	09/19/2021 19:03	WG1742740
1,1-Dichloroethene	U		0.000188	0.00100	1	09/19/2021 19:03	WG1742740
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	09/19/2021 19:03	WG1742740
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	09/19/2021 19:03	WG1742740
1,2-Dichloropropane	U		0.000149	0.00100	1	09/19/2021 19:03	WG1742740
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	09/19/2021 19:03	WG1742740
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	09/19/2021 19:03	WG1742740
Ethylbenzene	0.000527	J	0.000137	0.00100	1	09/19/2021 19:03	WG1742740
Isopropylbenzene	U		0.000105	0.00100	1	09/19/2021 19:03	WG1742740
p-Isopropyltoluene	U		0.000120	0.00100	1	09/19/2021 19:03	WG1742740
2-Butanone (MEK)	U		0.00119	0.0100	1	09/19/2021 19:03	WG1742740
2-Hexanone	U		0.000787	0.0100	1	09/19/2021 19:03	WG1742740
Methylene Chloride	U		0.000430	0.00500	1	09/19/2021 19:03	WG1742740
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	09/19/2021 19:03	WG1742740
Methyl tert-butyl ether	U		0.000101	0.00100	1	09/19/2021 19:03	WG1742740
Naphthalene	U		0.00100	0.00500	1	09/19/2021 19:03	WG1742740
n-Propylbenzene	U		0.0000993	0.00100	1	09/19/2021 19:03	WG1742740
Styrene	U		0.000118	0.00100	1	09/19/2021 19:03	WG1742740
tert-Butyl alcohol	U		0.00406	0.00500	1	09/19/2021 19:03	WG1742740
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	09/19/2021 19:03	WG1742740
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	09/19/2021 19:03	WG1742740
Tetrachloroethene	U		0.000300	0.00100	1	09/19/2021 19:03	WG1742740
Toluene	U		0.000278	0.00100	1	09/19/2021 19:03	WG1742740
1,1,1-Trichloroethane	U		0.000149	0.00100	1	09/19/2021 19:03	WG1742740
1,1,2-Trichloroethane	U		0.000158	0.00100	1	09/19/2021 19:03	WG1742740
Trichloroethene	U		0.000190	0.00100	1	09/19/2021 19:03	WG1742740
1,2,4-Trimethylbenzene	0.000476	J	0.000322	0.00100	1	09/19/2021 19:03	WG1742740
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/19/2021 19:03	WG1742740
Vinyl chloride	U		0.000234	0.00100	1	09/19/2021 19:03	WG1742740
o-Xylene	U		0.000174	0.00100	1	09/19/2021 19:03	WG1742740
m&p-Xylene	U		0.000430	0.00200	1	09/19/2021 19:03	WG1742740
Xylenes, Total	U		0.000174	0.00300	1	09/19/2021 19:03	WG1742740
(S) Toluene-d8	*109*			*80.0-120*		*09/19/2021 19:03*	WG1742740
(S) 4-Bromofluorobenzene	*106*			*77.0-126*		*09/19/2021 19:03*	WG1742740

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*09/19/2021 19:03*	WG1742740

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) High Fraction	U		0.0247	0.100	1	09/29/2021 13:35	WG1745179
(S) o-Terphenyl	*76.8*			*31.0-160*		*09/29/2021 13:35*	WG1745179

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4020		50.0	1	09/21/2021 13:31	WG1743653

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	13.8		0.500	1.00	10	09/23/2021 17:09	WG1745434

Wet Chemistry by Method 4500CN E-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Cyanide	0.00210	J	0.00180	0.00500	1	09/23/2021 17:06	WG1745026

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	204	B	37.9	100	100	09/21/2021 23:58	WG1743625
Fluoride	0.419		0.0640	0.150	1	09/21/2021 23:43	WG1743625
Sulfate	2050		59.4	500	100	09/21/2021 23:58	WG1743625

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U		0.000100	0.000200	1	09/22/2021 15:20	WG1741778

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	0.596		0.0200	0.200	1	09/23/2021 04:33	WG1742039

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00183	J	0.000180	0.00200	1	09/22/2021 22:24	WG1742034
Barium	0.0133		0.000381	0.00200	1	09/22/2021 22:24	WG1742034
Cadmium	U		0.000150	0.00100	1	09/22/2021 22:24	WG1742034
Calcium	553		0.0936	1.00	1	09/22/2021 22:24	WG1742034
Chromium	U		0.00124	0.00200	1	09/22/2021 22:24	WG1742034
Cobalt	0.0000597	J	0.0000596	0.00200	1	09/22/2021 22:24	WG1742034
Iron	U		0.0281	0.100	1	09/22/2021 22:24	WG1742034
Lead	U		0.000849	0.00200	1	09/22/2021 22:24	WG1742034
Manganese	0.00255	J	0.000704	0.00500	1	09/22/2021 22:24	WG1742034
Nickel	U		0.000816	0.00200	1	09/22/2021 22:24	WG1742034
Potassium	0.653	J	0.108	2.00	1	09/22/2021 22:24	WG1742034
Selenium	0.00737		0.000300	0.00200	1	09/22/2021 22:24	WG1742034
Sodium	172		0.376	2.00	1	09/22/2021 22:24	WG1742034
Uranium	0.0298		0.0000789	0.00100	1	09/22/2021 22:24	WG1742034
Vanadium	0.0147		0.000664	0.00500	1	09/22/2021 22:24	WG1742034

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	09/23/2021 15:58	WG1744685

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
(S) a,a,a-Trifluorotoluene(FID)	*98.3*			*78.0-120*		*09/23/2021 15:58*	WG1744685

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	09/19/2021 19:24	WG1742740
Benzene	U		0.0000941	0.00100	1	09/19/2021 19:24	WG1742740
Bromodichloromethane	U		0.000136	0.00100	1	09/19/2021 19:24	WG1742740
Bromoform	U		0.000129	0.00100	1	09/19/2021 19:24	WG1742740
Bromomethane	U		0.000605	0.00500	1	09/19/2021 19:24	WG1742740
n-Butylbenzene	U		0.000157	0.00100	1	09/19/2021 19:24	WG1742740
sec-Butylbenzene	U		0.000125	0.00100	1	09/19/2021 19:24	WG1742740
Carbon disulfide	U		0.0000962	0.00100	1	09/19/2021 19:24	WG1742740
Carbon tetrachloride	U		0.000128	0.00100	1	09/19/2021 19:24	WG1742740
Chlorobenzene	U		0.000116	0.00100	1	09/19/2021 19:24	WG1742740
Chlorodibromomethane	U		0.000140	0.00100	1	09/19/2021 19:24	WG1742740
Chloroethane	U		0.000192	0.00500	1	09/19/2021 19:24	WG1742740
Chloroform	U		0.000111	0.00500	1	09/19/2021 19:24	WG1742740
Chloromethane	U		0.000960	0.00250	1	09/19/2021 19:24	WG1742740
1,2-Dibromoethane	U		0.000126	0.00100	1	09/19/2021 19:24	WG1742740
1,1-Dichloroethane	U		0.000100	0.00100	1	09/19/2021 19:24	WG1742740
1,2-Dichloroethane	U		0.0000819	0.00100	1	09/19/2021 19:24	WG1742740
1,1-Dichloroethene	U		0.000188	0.00100	1	09/19/2021 19:24	WG1742740
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	09/19/2021 19:24	WG1742740
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	09/19/2021 19:24	WG1742740
1,2-Dichloropropane	U		0.000149	0.00100	1	09/19/2021 19:24	WG1742740
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	09/19/2021 19:24	WG1742740
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	09/19/2021 19:24	WG1742740
Ethylbenzene	U		0.000137	0.00100	1	09/19/2021 19:24	WG1742740
Isopropylbenzene	U		0.000105	0.00100	1	09/19/2021 19:24	WG1742740
p-Isopropyltoluene	U		0.000120	0.00100	1	09/19/2021 19:24	WG1742740
2-Butanone (MEK)	U		0.00119	0.0100	1	09/19/2021 19:24	WG1742740
2-Hexanone	U		0.000787	0.0100	1	09/19/2021 19:24	WG1742740
Methylene Chloride	U		0.000430	0.00500	1	09/19/2021 19:24	WG1742740
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	09/19/2021 19:24	WG1742740
Methyl tert-butyl ether	U		0.000101	0.00100	1	09/19/2021 19:24	WG1742740
Naphthalene	U		0.00100	0.00500	1	09/19/2021 19:24	WG1742740
n-Propylbenzene	U		0.0000993	0.00100	1	09/19/2021 19:24	WG1742740
Styrene	U		0.000118	0.00100	1	09/19/2021 19:24	WG1742740
tert-Butyl alcohol	U		0.00406	0.00500	1	09/19/2021 19:24	WG1742740
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	09/19/2021 19:24	WG1742740
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	09/19/2021 19:24	WG1742740
Tetrachloroethene	U		0.000300	0.00100	1	09/19/2021 19:24	WG1742740
Toluene	U		0.000278	0.00100	1	09/19/2021 19:24	WG1742740
1,1,1-Trichloroethane	U		0.000149	0.00100	1	09/19/2021 19:24	WG1742740
1,1,2-Trichloroethane	U		0.000158	0.00100	1	09/19/2021 19:24	WG1742740
Trichloroethene	U		0.000190	0.00100	1	09/19/2021 19:24	WG1742740
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/19/2021 19:24	WG1742740
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/19/2021 19:24	WG1742740
Vinyl chloride	U		0.000234	0.00100	1	09/19/2021 19:24	WG1742740
o-Xylene	U		0.000174	0.00100	1	09/19/2021 19:24	WG1742740
m&p-Xylene	U		0.000430	0.00200	1	09/19/2021 19:24	WG1742740
Xylenes, Total	U		0.000174	0.00300	1	09/19/2021 19:24	WG1742740
(S) Toluene-d8	*105*			*80.0-120*		*09/19/2021 19:24*	WG1742740
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*09/19/2021 19:24*	WG1742740

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*09/19/2021 19:24*	WG1742740

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	U		0.0247	0.100	1	09/29/2021 13:58	WG1745179
(S) o-Terphenyl	*93.2*			*31.0-160*		*09/29/2021 13:58*	WG1745179

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	3970		50.0	1	09/21/2021 13:31	WG1743653

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	13.2		0.250	0.500	5	09/27/2021 14:35	WG1745608

Wet Chemistry by Method 4500CN E-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Cyanide	U		0.00180	0.00500	1	09/23/2021 17:07	WG1745026

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	201	B	37.9	100	100	09/22/2021 00:58	WG1743625
Fluoride	0.413		0.0640	0.150	1	09/22/2021 00:43	WG1743625
Sulfate	2090		59.4	500	100	09/22/2021 00:58	WG1743625

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.000100	0.000200	1	09/22/2021 15:26	WG1741778

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Boron	0.595		0.0200	0.200	1	09/23/2021 04:37	WG1742039

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00185	J	0.000180	0.00200	1	09/22/2021 22:28	WG1742034
Barium	0.0166		0.000381	0.00200	1	09/22/2021 22:28	WG1742034
Cadmium	U		0.000150	0.00100	1	09/22/2021 22:28	WG1742034
Calcium	545		0.0936	1.00	1	09/22/2021 22:28	WG1742034
Chromium	U		0.00124	0.00200	1	09/22/2021 22:28	WG1742034
Cobalt	0.0000796	J	0.0000596	0.00200	1	09/22/2021 22:28	WG1742034
Iron	0.0380	J	0.0281	0.100	1	09/22/2021 22:28	WG1742034
Lead	0.000863	J	0.000849	0.00200	1	09/22/2021 22:28	WG1742034
Manganese	0.00136	J	0.000704	0.00500	1	09/22/2021 22:28	WG1742034
Nickel	U		0.000816	0.00200	1	09/22/2021 22:28	WG1742034
Potassium	0.618	J	0.108	2.00	1	09/22/2021 22:28	WG1742034
Selenium	0.00704		0.000300	0.00200	1	09/22/2021 22:28	WG1742034
Sodium	165		0.376	2.00	1	09/22/2021 22:28	WG1742034
Uranium	0.0299		0.0000789	0.00100	1	09/22/2021 22:28	WG1742034
Vanadium	0.0155		0.000664	0.00500	1	09/22/2021 22:28	WG1742034

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	09/23/2021 16:20	WG1744685

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
(S) a,a,a-Trifluorotoluene(FID)	*98.4*			*78.0-120*		*09/23/2021 16:20*	WG1744685

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	09/19/2021 19:45	WG1742740
Benzene	U		0.0000941	0.00100	1	09/19/2021 19:45	WG1742740
Bromodichloromethane	U		0.000136	0.00100	1	09/19/2021 19:45	WG1742740
Bromoform	U		0.000129	0.00100	1	09/19/2021 19:45	WG1742740
Bromomethane	U		0.000605	0.00500	1	09/19/2021 19:45	WG1742740
n-Butylbenzene	U		0.000157	0.00100	1	09/19/2021 19:45	WG1742740
sec-Butylbenzene	U		0.000125	0.00100	1	09/19/2021 19:45	WG1742740
Carbon disulfide	U		0.0000962	0.00100	1	09/19/2021 19:45	WG1742740
Carbon tetrachloride	U		0.000128	0.00100	1	09/19/2021 19:45	WG1742740
Chlorobenzene	U		0.000116	0.00100	1	09/19/2021 19:45	WG1742740
Chlorodibromomethane	U		0.000140	0.00100	1	09/19/2021 19:45	WG1742740
Chloroethane	U		0.000192	0.00500	1	09/19/2021 19:45	WG1742740
Chloroform	U		0.000111	0.00500	1	09/19/2021 19:45	WG1742740
Chloromethane	U		0.000960	0.00250	1	09/19/2021 19:45	WG1742740
1,2-Dibromoethane	U		0.000126	0.00100	1	09/19/2021 19:45	WG1742740
1,1-Dichloroethane	U		0.000100	0.00100	1	09/19/2021 19:45	WG1742740
1,2-Dichloroethane	U		0.0000819	0.00100	1	09/19/2021 19:45	WG1742740
1,1-Dichloroethene	U		0.000188	0.00100	1	09/19/2021 19:45	WG1742740
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	09/19/2021 19:45	WG1742740
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	09/19/2021 19:45	WG1742740
1,2-Dichloropropane	U		0.000149	0.00100	1	09/19/2021 19:45	WG1742740
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	09/19/2021 19:45	WG1742740
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	09/19/2021 19:45	WG1742740
Ethylbenzene	U		0.000137	0.00100	1	09/19/2021 19:45	WG1742740
Isopropylbenzene	U		0.000105	0.00100	1	09/19/2021 19:45	WG1742740
p-Isopropyltoluene	U		0.000120	0.00100	1	09/19/2021 19:45	WG1742740
2-Butanone (MEK)	U		0.00119	0.0100	1	09/19/2021 19:45	WG1742740
2-Hexanone	U		0.000787	0.0100	1	09/19/2021 19:45	WG1742740
Methylene Chloride	U		0.000430	0.00500	1	09/19/2021 19:45	WG1742740
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	09/19/2021 19:45	WG1742740
Methyl tert-butyl ether	U		0.000101	0.00100	1	09/19/2021 19:45	WG1742740
Naphthalene	U		0.00100	0.00500	1	09/19/2021 19:45	WG1742740
n-Propylbenzene	U		0.0000993	0.00100	1	09/19/2021 19:45	WG1742740
Styrene	U		0.000118	0.00100	1	09/19/2021 19:45	WG1742740
tert-Butyl alcohol	U		0.00406	0.00500	1	09/19/2021 19:45	WG1742740
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	09/19/2021 19:45	WG1742740
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	09/19/2021 19:45	WG1742740
Tetrachloroethene	U		0.000300	0.00100	1	09/19/2021 19:45	WG1742740
Toluene	U		0.000278	0.00100	1	09/19/2021 19:45	WG1742740
1,1,1-Trichloroethane	U		0.000149	0.00100	1	09/19/2021 19:45	WG1742740
1,1,2-Trichloroethane	U		0.000158	0.00100	1	09/19/2021 19:45	WG1742740
Trichloroethene	U		0.000190	0.00100	1	09/19/2021 19:45	WG1742740
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/19/2021 19:45	WG1742740
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/19/2021 19:45	WG1742740
Vinyl chloride	U		0.000234	0.00100	1	09/19/2021 19:45	WG1742740
o-Xylene	U		0.000174	0.00100	1	09/19/2021 19:45	WG1742740
m&p-Xylene	U		0.000430	0.00200	1	09/19/2021 19:45	WG1742740
Xylenes, Total	U		0.000174	0.00300	1	09/19/2021 19:45	WG1742740
(S) Toluene-d8	*105*			*80.0-120*		*09/19/2021 19:45*	WG1742740
(S) 4-Bromofluorobenzene	*99.6*			*77.0-126*		*09/19/2021 19:45*	WG1742740

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
(S) 1,2-Dichloroethane-d4	*99.5*			*70.0-130*		*09/19/2021 19:45*	WG1742740

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) High Fraction	U		0.0247	0.100	1	09/29/2021 14:20	WG1745179
(S) o-Terphenyl	*74.7*			*31.0-160*		*09/29/2021 14:20*	WG1745179

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	ND	P1	10.0	1	09/21/2021 13:31	WG1743653

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0500	0.100	1	09/23/2021 17:10	WG1745434

Wet Chemistry by Method 4500CN E-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Cyanide	U		0.00180	0.00500	1	09/23/2021 17:17	WG1745026

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	0.486	B J	0.379	1.00	1	09/22/2021 01:13	WG1743625
Fluoride	U		0.0640	0.150	1	09/22/2021 01:13	WG1743625
Sulfate	U		0.594	5.00	1	09/22/2021 01:13	WG1743625

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U		0.000100	0.000200	1	09/22/2021 15:28	WG1741778

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	U		0.0200	0.200	1	09/23/2021 04:40	WG1742039

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	U		0.000180	0.00200	1	09/22/2021 22:31	WG1742034
Barium	0.000628	J	0.000381	0.00200	1	09/22/2021 22:31	WG1742034
Cadmium	U		0.000150	0.00100	1	09/22/2021 22:31	WG1742034
Calcium	0.122	J	0.0936	1.00	1	09/22/2021 22:31	WG1742034
Chromium	U		0.00124	0.00200	1	09/22/2021 22:31	WG1742034
Cobalt	U		0.0000596	0.00200	1	09/22/2021 22:31	WG1742034
Iron	U		0.0281	0.100	1	09/22/2021 22:31	WG1742034
Lead	U		0.000849	0.00200	1	09/22/2021 22:31	WG1742034
Manganese	U		0.000704	0.00500	1	09/22/2021 22:31	WG1742034
Nickel	U		0.000816	0.00200	1	09/22/2021 22:31	WG1742034
Potassium	U		0.108	2.00	1	09/22/2021 22:31	WG1742034
Selenium	U		0.000300	0.00200	1	09/22/2021 22:31	WG1742034
Sodium	U		0.376	2.00	1	09/22/2021 22:31	WG1742034
Uranium	U		0.0000789	0.00100	1	09/22/2021 22:31	WG1742034
Vanadium	U		0.000664	0.00500	1	09/22/2021 22:31	WG1742034

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	09/23/2021 12:43	WG1744685

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
(S) a,a,a-Trifluorotoluene(FID)	*97.5*			*78.0-120*		*09/23/2021 12:43*	WG1744685

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	09/19/2021 18:20	WG1742740
Benzene	U		0.0000941	0.00100	1	09/19/2021 18:20	WG1742740
Bromodichloromethane	U		0.000136	0.00100	1	09/19/2021 18:20	WG1742740
Bromoform	U		0.000129	0.00100	1	09/19/2021 18:20	WG1742740
Bromomethane	U		0.000605	0.00500	1	09/19/2021 18:20	WG1742740
n-Butylbenzene	U		0.000157	0.00100	1	09/19/2021 18:20	WG1742740
sec-Butylbenzene	U		0.000125	0.00100	1	09/19/2021 18:20	WG1742740
Carbon disulfide	U		0.0000962	0.00100	1	09/19/2021 18:20	WG1742740
Carbon tetrachloride	U		0.000128	0.00100	1	09/19/2021 18:20	WG1742740
Chlorobenzene	U		0.000116	0.00100	1	09/19/2021 18:20	WG1742740
Chlorodibromomethane	U		0.000140	0.00100	1	09/19/2021 18:20	WG1742740
Chloroethane	U		0.000192	0.00500	1	09/19/2021 18:20	WG1742740
Chloroform	U		0.000111	0.00500	1	09/19/2021 18:20	WG1742740
Chloromethane	U		0.000960	0.00250	1	09/19/2021 18:20	WG1742740
1,2-Dibromoethane	U		0.000126	0.00100	1	09/19/2021 18:20	WG1742740
1,1-Dichloroethane	U		0.000100	0.00100	1	09/19/2021 18:20	WG1742740
1,2-Dichloroethane	U		0.0000819	0.00100	1	09/19/2021 18:20	WG1742740
1,1-Dichloroethene	U		0.000188	0.00100	1	09/19/2021 18:20	WG1742740
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	09/19/2021 18:20	WG1742740
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	09/19/2021 18:20	WG1742740
1,2-Dichloropropane	U		0.000149	0.00100	1	09/19/2021 18:20	WG1742740
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	09/19/2021 18:20	WG1742740
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	09/19/2021 18:20	WG1742740
Ethylbenzene	U		0.000137	0.00100	1	09/19/2021 18:20	WG1742740
Isopropylbenzene	U		0.000105	0.00100	1	09/19/2021 18:20	WG1742740
p-Isopropyltoluene	U		0.000120	0.00100	1	09/19/2021 18:20	WG1742740
2-Butanone (MEK)	U		0.00119	0.0100	1	09/19/2021 18:20	WG1742740
2-Hexanone	U		0.000787	0.0100	1	09/19/2021 18:20	WG1742740
Methylene Chloride	U		0.000430	0.00500	1	09/19/2021 18:20	WG1742740
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	09/19/2021 18:20	WG1742740
Methyl tert-butyl ether	U		0.000101	0.00100	1	09/19/2021 18:20	WG1742740
Naphthalene	U		0.00100	0.00500	1	09/19/2021 18:20	WG1742740
n-Propylbenzene	U		0.0000993	0.00100	1	09/19/2021 18:20	WG1742740
Styrene	U		0.000118	0.00100	1	09/19/2021 18:20	WG1742740
tert-Butyl alcohol	U		0.00406	0.00500	1	09/19/2021 18:20	WG1742740
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	09/19/2021 18:20	WG1742740
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	09/19/2021 18:20	WG1742740
Tetrachloroethene	U		0.000300	0.00100	1	09/19/2021 18:20	WG1742740
Toluene	U		0.000278	0.00100	1	09/19/2021 18:20	WG1742740
1,1,1-Trichloroethane	U		0.000149	0.00100	1	09/19/2021 18:20	WG1742740
1,1,2-Trichloroethane	U		0.000158	0.00100	1	09/19/2021 18:20	WG1742740
Trichloroethene	U		0.000190	0.00100	1	09/19/2021 18:20	WG1742740
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/19/2021 18:20	WG1742740
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/19/2021 18:20	WG1742740
Vinyl chloride	U		0.000234	0.00100	1	09/19/2021 18:20	WG1742740
o-Xylene	U		0.000174	0.00100	1	09/19/2021 18:20	WG1742740
m&p-Xylene	U		0.000430	0.00200	1	09/19/2021 18:20	WG1742740
Xylenes, Total	U		0.000174	0.00300	1	09/19/2021 18:20	WG1742740
(S) Toluene-d8	*107*			*80.0-120*		*09/19/2021 18:20*	WG1742740
(S) 4-Bromofluorobenzene	*106*			*77.0-126*		*09/19/2021 18:20*	WG1742740

LB-RES1-09
Collected date/time: 09/14/21 09:25
L1404404

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
(S) 1,2-Dichloroethane-d4	*99.0*			*70.0-130*		*09/19/2021 18:20*	WG1742740

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) High Fraction	U		0.0247	0.100	1	09/29/2021 14:43	WG1745179
(S) o-Terphenyl	*74.7*			*31.0-160*		*09/29/2021 14:43*	WG1745179

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	09/19/2021 17:59	WG1742740
Benzene	U		0.0000941	0.00100	1	09/19/2021 17:59	WG1742740
Bromodichloromethane	U		0.000136	0.00100	1	09/19/2021 17:59	WG1742740
Bromoform	U		0.000129	0.00100	1	09/19/2021 17:59	WG1742740
Bromomethane	U		0.000605	0.00500	1	09/19/2021 17:59	WG1742740
n-Butylbenzene	U		0.000157	0.00100	1	09/19/2021 17:59	WG1742740
sec-Butylbenzene	U		0.000125	0.00100	1	09/19/2021 17:59	WG1742740
Carbon disulfide	U		0.0000962	0.00100	1	09/19/2021 17:59	WG1742740
Carbon tetrachloride	U		0.000128	0.00100	1	09/19/2021 17:59	WG1742740
Chlorobenzene	U		0.000116	0.00100	1	09/19/2021 17:59	WG1742740
Chlorodibromomethane	U		0.000140	0.00100	1	09/19/2021 17:59	WG1742740
Chloroethane	U		0.000192	0.00500	1	09/19/2021 17:59	WG1742740
Chloroform	U		0.000111	0.00500	1	09/19/2021 17:59	WG1742740
Chloromethane	U		0.000960	0.00250	1	09/19/2021 17:59	WG1742740
1,2-Dibromoethane	U		0.000126	0.00100	1	09/19/2021 17:59	WG1742740
1,1-Dichloroethane	U		0.000100	0.00100	1	09/19/2021 17:59	WG1742740
1,2-Dichloroethane	U		0.0000819	0.00100	1	09/19/2021 17:59	WG1742740
1,1-Dichloroethene	U		0.000188	0.00100	1	09/19/2021 17:59	WG1742740
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	09/19/2021 17:59	WG1742740
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	09/19/2021 17:59	WG1742740
1,2-Dichloropropane	U		0.000149	0.00100	1	09/19/2021 17:59	WG1742740
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	09/19/2021 17:59	WG1742740
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	09/19/2021 17:59	WG1742740
Ethylbenzene	U		0.000137	0.00100	1	09/19/2021 17:59	WG1742740
Isopropylbenzene	U		0.000105	0.00100	1	09/19/2021 17:59	WG1742740
p-Isopropyltoluene	U		0.000120	0.00100	1	09/19/2021 17:59	WG1742740
2-Butanone (MEK)	U		0.00119	0.0100	1	09/19/2021 17:59	WG1742740
2-Hexanone	U		0.000787	0.0100	1	09/19/2021 17:59	WG1742740
Methylene Chloride	U		0.000430	0.00500	1	09/19/2021 17:59	WG1742740
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	09/19/2021 17:59	WG1742740
Methyl tert-butyl ether	U		0.000101	0.00100	1	09/19/2021 17:59	WG1742740
Naphthalene	U		0.00100	0.00500	1	09/19/2021 17:59	WG1742740
n-Propylbenzene	U		0.0000993	0.00100	1	09/19/2021 17:59	WG1742740
Styrene	U		0.000118	0.00100	1	09/19/2021 17:59	WG1742740
tert-Butyl alcohol	U		0.00406	0.00500	1	09/19/2021 17:59	WG1742740
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	09/19/2021 17:59	WG1742740
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	09/19/2021 17:59	WG1742740
Tetrachloroethene	U		0.000300	0.00100	1	09/19/2021 17:59	WG1742740
Toluene	U		0.000278	0.00100	1	09/19/2021 17:59	WG1742740
1,1,1-Trichloroethane	U		0.000149	0.00100	1	09/19/2021 17:59	WG1742740
1,1,2-Trichloroethane	U		0.000158	0.00100	1	09/19/2021 17:59	WG1742740
Trichloroethene	U		0.000190	0.00100	1	09/19/2021 17:59	WG1742740
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/19/2021 17:59	WG1742740
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/19/2021 17:59	WG1742740
Vinyl chloride	U		0.000234	0.00100	1	09/19/2021 17:59	WG1742740
o-Xylene	U		0.000174	0.00100	1	09/19/2021 17:59	WG1742740
m&p-Xylene	U		0.000430	0.00200	1	09/19/2021 17:59	WG1742740
Xylenes, Total	U		0.000174	0.00300	1	09/19/2021 17:59	WG1742740
(S) Toluene-d8	*107*			*80.0-120*		*09/19/2021 17:59*	WG1742740
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*09/19/2021 17:59*	WG1742740
(S) 1,2-Dichloroethane-d4	*98.4*			*70.0-130*		*09/19/2021 17:59*	WG1742740

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1830		25.0	1	09/21/2021 13:31	WG1743653

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		2.50	5.00	50	09/23/2021 17:11	WG1745434

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	69.0		0.379	1.00	1	09/22/2021 01:58	WG1743625
Fluoride	1.31		0.0640	0.150	1	09/22/2021 01:58	WG1743625
Sulfate	834		59.4	500	100	09/22/2021 02:13	WG1743625

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00108	J	0.000180	0.00200	1	09/22/2021 22:35	WG1742034
Barium	0.0225		0.000381	0.00200	1	09/22/2021 22:35	WG1742034
Calcium	306		0.0936	1.00	1	09/22/2021 22:35	WG1742034
Chromium	U		0.00124	0.00200	1	09/22/2021 22:35	WG1742034
Iron	U		0.0281	0.100	1	09/22/2021 22:35	WG1742034
Lead	U		0.000849	0.00200	1	09/22/2021 22:35	WG1742034
Manganese	0.0277		0.000704	0.00500	1	09/22/2021 22:35	WG1742034
Potassium	6.26		0.108	2.00	1	09/22/2021 22:35	WG1742034
Selenium	U		0.000300	0.00200	1	09/22/2021 22:35	WG1742034
Sodium	70.5		0.376	2.00	1	09/22/2021 22:35	WG1742034

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.911		0.0314	0.100	1	09/27/2021 18:33	WG1747218
(S) a,a,a-Trifluorotoluene(FID)	*92.4*			*78.0-120*		*09/27/2021 18:33*	WG1747218

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0565	0.250	5	09/23/2021 20:48	WG1745631
Benzene	U		0.000471	0.00500	5	09/23/2021 20:48	WG1745631
Bromodichloromethane	U		0.000680	0.00500	5	09/23/2021 20:48	WG1745631
Bromoform	U		0.000645	0.00500	5	09/23/2021 20:48	WG1745631
Bromomethane	U		0.00303	0.0250	5	09/23/2021 20:48	WG1745631
n-Butylbenzene	U		0.000785	0.00500	5	09/23/2021 20:48	WG1745631
sec-Butylbenzene	0.0397		0.000625	0.00500	5	09/23/2021 20:48	WG1745631
Carbon disulfide	0.000742	J	0.000481	0.00500	5	09/23/2021 20:48	WG1745631
Carbon tetrachloride	U		0.000640	0.00500	5	09/23/2021 20:48	WG1745631
Chlorobenzene	U		0.000580	0.00500	5	09/23/2021 20:48	WG1745631
Chlorodibromomethane	U		0.000700	0.00500	5	09/23/2021 20:48	WG1745631
Chloroethane	U		0.000960	0.0250	5	09/23/2021 20:48	WG1745631
Chloroform	U		0.000555	0.0250	5	09/23/2021 20:48	WG1745631
Chloromethane	U		0.00480	0.0125	5	09/23/2021 20:48	WG1745631
1,2-Dibromoethane	U		0.000630	0.00500	5	09/23/2021 20:48	WG1745631
1,1-Dichloroethane	U		0.000500	0.00500	5	09/23/2021 20:48	WG1745631

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.000409	0.00500	5	09/23/2021 20:48	WG1745631
1,1-Dichloroethene	U		0.000940	0.00500	5	09/23/2021 20:48	WG1745631
cis-1,2-Dichloroethene	U		0.000630	0.00500	5	09/23/2021 20:48	WG1745631
trans-1,2-Dichloroethene	U		0.000745	0.00500	5	09/23/2021 20:48	WG1745631
1,2-Dichloropropane	U		0.000745	0.00500	5	09/23/2021 20:48	WG1745631
cis-1,3-Dichloropropene	U		0.000555	0.00500	5	09/23/2021 20:48	WG1745631
trans-1,3-Dichloropropene	U		0.000590	0.00500	5	09/23/2021 20:48	WG1745631
Ethylbenzene	U		0.000685	0.00500	5	09/23/2021 20:48	WG1745631
Isopropylbenzene	0.0202		0.000525	0.00500	5	09/23/2021 20:48	WG1745631
p-Isopropyltoluene	U	J4	0.000600	0.00500	5	09/23/2021 20:48	WG1745631
2-Butanone (MEK)	U		0.00595	0.0500	5	09/23/2021 20:48	WG1745631
2-Hexanone	U		0.00394	0.0500	5	09/23/2021 20:48	WG1745631
Methylene Chloride	U		0.00215	0.0250	5	09/23/2021 20:48	WG1745631
4-Methyl-2-pentanone (MIBK)	U		0.00239	0.0500	5	09/23/2021 20:48	WG1745631
Methyl tert-butyl ether	U		0.000505	0.00500	5	09/23/2021 20:48	WG1745631
Naphthalene	U	J3	0.00500	0.0250	5	09/23/2021 20:48	WG1745631
n-Propylbenzene	0.00316	J	0.000497	0.00500	5	09/23/2021 20:48	WG1745631
Styrene	U		0.000590	0.00500	5	09/23/2021 20:48	WG1745631
tert-Butyl alcohol	U		0.0203	0.0250	5	09/23/2021 20:48	WG1745631
1,1,1,2-Tetrachloroethane	U		0.000735	0.00500	5	09/23/2021 20:48	WG1745631
1,1,2,2-Tetrachloroethane	U		0.000665	0.00500	5	09/23/2021 20:48	WG1745631
Tetrachloroethene	U		0.00150	0.00500	5	09/23/2021 20:48	WG1745631
Toluene	U		0.00139	0.00500	5	09/23/2021 20:48	WG1745631
1,1,1-Trichloroethane	U		0.000745	0.00500	5	09/23/2021 20:48	WG1745631
1,1,2-Trichloroethane	U		0.000790	0.00500	5	09/23/2021 20:48	WG1745631
Trichloroethene	U		0.000950	0.00500	5	09/23/2021 20:48	WG1745631
1,2,4-Trimethylbenzene	U	J4	0.00161	0.00500	5	09/23/2021 20:48	WG1745631
1,3,5-Trimethylbenzene	U	J4	0.000520	0.00500	5	09/23/2021 20:48	WG1745631
Vinyl chloride	U		0.00117	0.00500	5	09/23/2021 20:48	WG1745631
o-Xylene	U		0.000870	0.00500	5	09/23/2021 20:48	WG1745631
m&p-Xylene	U		0.00215	0.0100	5	09/23/2021 20:48	WG1745631
Xylenes, Total	U		0.000870	0.0150	5	09/23/2021 20:48	WG1745631
(S) Toluene-d8	*105*			*80.0-120*		*09/23/2021 20:48*	WG1745631
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*09/23/2021 20:48*	WG1745631
(S) 1,2-Dichloroethane-d4	*119*			*70.0-130*		*09/23/2021 20:48*	WG1745631

Sample Narrative:

L1404404-75 WG1745631: Lowest possible dilution due to sample foaming.

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.722		0.0247	0.100	1	09/29/2021 15:05	WG1745179
(S) o-Terphenyl	*99.5*			*31.0-160*		*09/29/2021 15:05*	WG1745179

Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	U		0.0000447	0.000400	1	09/19/2021 15:12	WG1742189
(S) Nitrobenzene-d5	*54.5*			*10.0-120*		*09/19/2021 15:12*	WG1742189

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1600		50.0	1	09/21/2021 13:31	WG1743653

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		2.50	5.00	50	09/23/2021 17:13	WG1745434

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	286	B	37.9	100	100	09/22/2021 02:42	WG1743625
Fluoride	0.878		0.0640	0.150	1	09/22/2021 02:28	WG1743625
Sulfate	9.58		0.594	5.00	1	09/22/2021 02:28	WG1743625

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0234		0.000180	0.00200	1	09/22/2021 22:55	WG1742034
Barium	1.88		0.000381	0.00200	1	09/22/2021 22:55	WG1742034
Calcium	88.9		0.0936	1.00	1	09/22/2021 22:55	WG1742034
Chromium	U		0.00124	0.00200	1	09/22/2021 22:55	WG1742034
Iron	0.0938	J	0.0281	0.100	1	09/22/2021 22:55	WG1742034
Lead	U		0.000849	0.00200	1	09/22/2021 22:55	WG1742034
Manganese	0.0667		0.000704	0.00500	1	09/22/2021 22:55	WG1742034
Potassium	0.536	J	0.108	2.00	1	09/22/2021 22:55	WG1742034
Selenium	0.000570	J	0.000300	0.00200	1	09/22/2021 22:55	WG1742034
Sodium	329		0.376	2.00	1	09/22/2021 22:55	WG1742034

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	98.2		1.57	5.00	50	09/23/2021 20:02	WG1744685
(S) a,a,a-Trifluorotoluene(FID)	*95.1*			*78.0-120*		*09/23/2021 20:02*	WG1744685

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.565	2.50	50	09/19/2021 22:36	WG1742740
Benzene	25.1		0.0235	0.250	250	09/23/2021 22:23	WG1745364
Bromodichloromethane	U		0.00680	0.0500	50	09/19/2021 22:36	WG1742740
Bromoform	U		0.00645	0.0500	50	09/19/2021 22:36	WG1742740
Bromomethane	U		0.0303	0.250	50	09/19/2021 22:36	WG1742740
n-Butylbenzene	U		0.00785	0.0500	50	09/19/2021 22:36	WG1742740
sec-Butylbenzene	U		0.00625	0.0500	50	09/19/2021 22:36	WG1742740
Carbon disulfide	U		0.00481	0.0500	50	09/19/2021 22:36	WG1742740
Carbon tetrachloride	U		0.00640	0.0500	50	09/19/2021 22:36	WG1742740
Chlorobenzene	U		0.00580	0.0500	50	09/19/2021 22:36	WG1742740
Chlorodibromomethane	U		0.00700	0.0500	50	09/19/2021 22:36	WG1742740
Chloroethane	U		0.00960	0.250	50	09/19/2021 22:36	WG1742740
Chloroform	U		0.00555	0.250	50	09/19/2021 22:36	WG1742740
Chloromethane	U		0.0480	0.125	50	09/19/2021 22:36	WG1742740
1,2-Dibromoethane	U		0.00630	0.0500	50	09/19/2021 22:36	WG1742740
1,1-Dichloroethane	U		0.00500	0.0500	50	09/19/2021 22:36	WG1742740

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.00409	0.0500	50	09/19/2021 22:36	WG1742740
1,1-Dichloroethene	U		0.00940	0.0500	50	09/19/2021 22:36	WG1742740
cis-1,2-Dichloroethene	U		0.00630	0.0500	50	09/19/2021 22:36	WG1742740
trans-1,2-Dichloroethene	U		0.00745	0.0500	50	09/19/2021 22:36	WG1742740
1,2-Dichloropropane	U		0.00745	0.0500	50	09/19/2021 22:36	WG1742740
cis-1,3-Dichloropropene	U		0.00555	0.0500	50	09/19/2021 22:36	WG1742740
trans-1,3-Dichloropropene	U		0.00590	0.0500	50	09/19/2021 22:36	WG1742740
Ethylbenzene	1.03		0.00685	0.0500	50	09/19/2021 22:36	WG1742740
Isopropylbenzene	0.0278	J	0.00525	0.0500	50	09/19/2021 22:36	WG1742740
p-Isopropyltoluene	U		0.00600	0.0500	50	09/19/2021 22:36	WG1742740
2-Butanone (MEK)	U		0.0595	0.500	50	09/19/2021 22:36	WG1742740
2-Hexanone	U		0.0394	0.500	50	09/19/2021 22:36	WG1742740
Methylene Chloride	U		0.0215	0.250	50	09/19/2021 22:36	WG1742740
4-Methyl-2-pentanone (MIBK)	U		0.0239	0.500	50	09/19/2021 22:36	WG1742740
Methyl tert-butyl ether	0.491		0.00505	0.0500	50	09/19/2021 22:36	WG1742740
Naphthalene	0.105	J	0.0500	0.250	50	09/19/2021 22:36	WG1742740
n-Propylbenzene	0.0392	J	0.00497	0.0500	50	09/19/2021 22:36	WG1742740
Styrene	U		0.00590	0.0500	50	09/19/2021 22:36	WG1742740
tert-Butyl alcohol	2.48		0.203	0.250	50	09/19/2021 22:36	WG1742740
1,1,1,2-Tetrachloroethane	U		0.00735	0.0500	50	09/19/2021 22:36	WG1742740
1,1,2,2-Tetrachloroethane	U		0.00665	0.0500	50	09/19/2021 22:36	WG1742740
Tetrachloroethene	U		0.0150	0.0500	50	09/19/2021 22:36	WG1742740
Toluene	9.03		0.0139	0.0500	50	09/19/2021 22:36	WG1742740
1,1,1-Trichloroethane	U		0.00745	0.0500	50	09/19/2021 22:36	WG1742740
1,1,2-Trichloroethane	U		0.00790	0.0500	50	09/19/2021 22:36	WG1742740
Trichloroethene	U		0.00950	0.0500	50	09/19/2021 22:36	WG1742740
1,2,4-Trimethylbenzene	0.315		0.0161	0.0500	50	09/19/2021 22:36	WG1742740
1,3,5-Trimethylbenzene	0.0602		0.00520	0.0500	50	09/19/2021 22:36	WG1742740
Vinyl chloride	U		0.0117	0.0500	50	09/19/2021 22:36	WG1742740
o-Xylene	0.822		0.00870	0.0500	50	09/19/2021 22:36	WG1742740
m&p-Xylene	2.24		0.0215	0.100	50	09/19/2021 22:36	WG1742740
Xylenes, Total	3.06		0.00870	0.150	50	09/19/2021 22:36	WG1742740
(S) Toluene-d8	*105*			*80.0-120*		*09/19/2021 22:36*	WG1742740
(S) Toluene-d8	*101*			*80.0-120*		*09/23/2021 22:23*	WG1745364
(S) 4-Bromofluorobenzene	*105*			*77.0-126*		*09/19/2021 22:36*	WG1742740
(S) 4-Bromofluorobenzene	*88.7*			*77.0-126*		*09/23/2021 22:23*	WG1745364
(S) 1,2-Dichloroethane-d4	*100*			*70.0-130*		*09/19/2021 22:36*	WG1742740
(S) 1,2-Dichloroethane-d4	*88.4*			*70.0-130*		*09/23/2021 22:23*	WG1745364

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	7.63		0.0247	0.100	1	09/29/2021 15:38	WG1745180
(S) o-Terphenyl	*111*			*31.0-160*		*09/29/2021 15:38*	WG1745180

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1650		50.0	1	09/21/2021 13:31	WG1743653

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		2.50	5.00	50	09/23/2021 17:14	WG1745434

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	226	B	37.9	100	100	09/22/2021 03:42	WG1743625
Fluoride	0.899		0.0640	0.150	1	09/22/2021 03:27	WG1743625
Sulfate	55.5		0.594	5.00	1	09/22/2021 03:27	WG1743625

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0144		0.000180	0.00200	1	09/22/2021 22:58	WG1742034
Barium	1.05		0.000381	0.00200	1	09/22/2021 22:58	WG1742034
Calcium	118		0.0936	1.00	1	09/22/2021 22:58	WG1742034
Chromium	U		0.00124	0.00200	1	09/22/2021 22:58	WG1742034
Iron	0.0583	J	0.0281	0.100	1	09/22/2021 22:58	WG1742034
Lead	0.00266		0.000849	0.00200	1	09/22/2021 22:58	WG1742034
Manganese	0.0242		0.000704	0.00500	1	09/22/2021 22:58	WG1742034
Potassium	0.532	J	0.108	2.00	1	09/22/2021 22:58	WG1742034
Selenium	0.000649	J	0.000300	0.00200	1	09/22/2021 22:58	WG1742034
Sodium	410		0.376	2.00	1	09/22/2021 22:58	WG1742034

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	33.4		3.14	10.0	100	09/23/2021 20:24	WG1744685
(S) a,a,a-Trifluorotoluene(FID)	*96.9*			*78.0-120*		*09/23/2021 20:24*	WG1744685

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.565	2.50	50	09/19/2021 22:58	WG1742740
Benzene	10.7		0.0188	0.200	200	09/23/2021 22:43	WG1745364
Bromodichloromethane	U		0.00680	0.0500	50	09/19/2021 22:58	WG1742740
Bromoform	U		0.00645	0.0500	50	09/19/2021 22:58	WG1742740
Bromomethane	U		0.0303	0.250	50	09/19/2021 22:58	WG1742740
n-Butylbenzene	U		0.00785	0.0500	50	09/19/2021 22:58	WG1742740
sec-Butylbenzene	0.0126	J	0.00625	0.0500	50	09/19/2021 22:58	WG1742740
Carbon disulfide	U		0.00481	0.0500	50	09/19/2021 22:58	WG1742740
Carbon tetrachloride	U		0.00640	0.0500	50	09/19/2021 22:58	WG1742740
Chlorobenzene	U		0.00580	0.0500	50	09/19/2021 22:58	WG1742740
Chlorodibromomethane	U		0.00700	0.0500	50	09/19/2021 22:58	WG1742740
Chloroethane	U		0.00960	0.250	50	09/19/2021 22:58	WG1742740
Chloroform	U		0.00555	0.250	50	09/19/2021 22:58	WG1742740
Chloromethane	U		0.0480	0.125	50	09/19/2021 22:58	WG1742740
1,2-Dibromoethane	U		0.00630	0.0500	50	09/19/2021 22:58	WG1742740
1,1-Dichloroethane	U		0.00500	0.0500	50	09/19/2021 22:58	WG1742740

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.00409	0.0500	50	09/19/2021 22:58	WG1742740
1,1-Dichloroethene	U		0.00940	0.0500	50	09/19/2021 22:58	WG1742740
cis-1,2-Dichloroethene	U		0.00630	0.0500	50	09/19/2021 22:58	WG1742740
trans-1,2-Dichloroethene	U		0.00745	0.0500	50	09/19/2021 22:58	WG1742740
1,2-Dichloropropane	U		0.00745	0.0500	50	09/19/2021 22:58	WG1742740
cis-1,3-Dichloropropene	U		0.00555	0.0500	50	09/19/2021 22:58	WG1742740
trans-1,3-Dichloropropene	U		0.00590	0.0500	50	09/19/2021 22:58	WG1742740
Ethylbenzene	0.645		0.00685	0.0500	50	09/19/2021 22:58	WG1742740
Isopropylbenzene	0.0373	J	0.00525	0.0500	50	09/19/2021 22:58	WG1742740
p-Isopropyltoluene	U		0.00600	0.0500	50	09/19/2021 22:58	WG1742740
2-Butanone (MEK)	U		0.0595	0.500	50	09/19/2021 22:58	WG1742740
2-Hexanone	U		0.0394	0.500	50	09/19/2021 22:58	WG1742740
Methylene Chloride	U		0.0215	0.250	50	09/19/2021 22:58	WG1742740
4-Methyl-2-pentanone (MIBK)	U		0.0239	0.500	50	09/19/2021 22:58	WG1742740
Methyl tert-butyl ether	1.22		0.00505	0.0500	50	09/19/2021 22:58	WG1742740
Naphthalene	0.172	J	0.0500	0.250	50	09/19/2021 22:58	WG1742740
n-Propylbenzene	0.0525		0.00497	0.0500	50	09/19/2021 22:58	WG1742740
Styrene	U		0.00590	0.0500	50	09/19/2021 22:58	WG1742740
tert-Butyl alcohol	0.588		0.203	0.250	50	09/19/2021 22:58	WG1742740
1,1,1,2-Tetrachloroethane	U		0.00735	0.0500	50	09/19/2021 22:58	WG1742740
1,1,2,2-Tetrachloroethane	U		0.00665	0.0500	50	09/19/2021 22:58	WG1742740
Tetrachloroethene	U		0.0150	0.0500	50	09/19/2021 22:58	WG1742740
Toluene	0.0990		0.0139	0.0500	50	09/19/2021 22:58	WG1742740
1,1,1-Trichloroethane	U		0.00745	0.0500	50	09/19/2021 22:58	WG1742740
1,1,2-Trichloroethane	U		0.00790	0.0500	50	09/19/2021 22:58	WG1742740
Trichloroethene	U		0.00950	0.0500	50	09/19/2021 22:58	WG1742740
1,2,4-Trimethylbenzene	0.131		0.0161	0.0500	50	09/19/2021 22:58	WG1742740
1,3,5-Trimethylbenzene	0.00901	J	0.00520	0.0500	50	09/19/2021 22:58	WG1742740
Vinyl chloride	U		0.0117	0.0500	50	09/19/2021 22:58	WG1742740
o-Xylene	0.0149	J	0.00870	0.0500	50	09/19/2021 22:58	WG1742740
m&p-Xylene	0.248		0.0215	0.100	50	09/19/2021 22:58	WG1742740
Xylenes, Total	0.263		0.00870	0.150	50	09/19/2021 22:58	WG1742740
(S) Toluene-d8	*110*			*80.0-120*		*09/19/2021 22:58*	WG1742740
(S) Toluene-d8	*105*			*80.0-120*		*09/23/2021 22:43*	WG1745364
(S) 4-Bromofluorobenzene	*107*			*77.0-126*		*09/19/2021 22:58*	WG1742740
(S) 4-Bromofluorobenzene	*88.4*			*77.0-126*		*09/23/2021 22:43*	WG1745364
(S) 1,2-Dichloroethane-d4	*99.4*			*70.0-130*		*09/19/2021 22:58*	WG1742740
(S) 1,2-Dichloroethane-d4	*87.1*			*70.0-130*		*09/23/2021 22:43*	WG1745364

EDB / DBCP by Method 8011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Ethylene Dibromide	U		0.00000536	0.0000200	1	09/21/2021 20:03	WG1743427

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	14.5		0.0494	0.200	2	09/30/2021 12:12	WG1745180
(S) o-Terphenyl	*164*	J1		*31.0-160*		*09/30/2021 12:12*	WG1745180

Sample Narrative:

L1404404-77 WG1745180: Surrogate failure due to matrix interference

MW-102
Collected date/time: 09/14/21 15:05
L1404404

Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
1,4-Dioxane	U		0.0000447	0.000400	1	09/19/2021 15:31	WG1742189
(S) Nitrobenzene-d5	*64.0*			*10.0-120*		*09/19/2021 15:31*	WG1742189

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3860		50.0	1	09/21/2021 13:31	WG1743653

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.709		0.0500	0.100	1	09/23/2021 17:15	WG1745434

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	283	B	37.9	100	100	09/22/2021 04:12	WG1743625
Fluoride	1.38		0.0640	0.150	1	09/22/2021 03:57	WG1743625
Sulfate	1940		59.4	500	100	09/22/2021 04:12	WG1743625

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00306		0.000180	0.00200	1	09/22/2021 23:02	WG1742034
Barium	0.00954		0.000381	0.00200	1	09/22/2021 23:02	WG1742034
Calcium	542		0.0936	1.00	1	09/22/2021 23:02	WG1742034
Chromium	0.00147	J	0.00124	0.00200	1	09/22/2021 23:02	WG1742034
Iron	0.0549	J	0.0281	0.100	1	09/22/2021 23:02	WG1742034
Lead	U		0.000849	0.00200	1	09/22/2021 23:02	WG1742034
Manganese	0.0227		0.000704	0.00500	1	09/22/2021 23:02	WG1742034
Potassium	1.03	J	0.108	2.00	1	09/22/2021 23:02	WG1742034
Selenium	0.00754		0.000300	0.00200	1	09/22/2021 23:02	WG1742034
Sodium	174		0.376	2.00	1	09/22/2021 23:02	WG1742034

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	09/23/2021 16:41	WG1744685
(S) a,a,a-Trifluorotoluene(FID)	*97.8*			*78.0-120*		*09/23/2021 16:41*	WG1744685

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	09/19/2021 20:07	WG1742740
Benzene	U		0.0000941	0.00100	1	09/19/2021 20:07	WG1742740
Bromodichloromethane	U		0.000136	0.00100	1	09/19/2021 20:07	WG1742740
Bromoform	U		0.000129	0.00100	1	09/19/2021 20:07	WG1742740
Bromomethane	U		0.000605	0.00500	1	09/19/2021 20:07	WG1742740
n-Butylbenzene	U		0.000157	0.00100	1	09/19/2021 20:07	WG1742740
sec-Butylbenzene	U		0.000125	0.00100	1	09/19/2021 20:07	WG1742740
Carbon disulfide	U		0.0000962	0.00100	1	09/19/2021 20:07	WG1742740
Carbon tetrachloride	U		0.000128	0.00100	1	09/19/2021 20:07	WG1742740
Chlorobenzene	U		0.000116	0.00100	1	09/19/2021 20:07	WG1742740
Chlorodibromomethane	U		0.000140	0.00100	1	09/19/2021 20:07	WG1742740
Chloroethane	U		0.000192	0.00500	1	09/19/2021 20:07	WG1742740
Chloroform	U		0.000111	0.00500	1	09/19/2021 20:07	WG1742740
Chloromethane	U		0.000960	0.00250	1	09/19/2021 20:07	WG1742740
1,2-Dibromoethane	U		0.000126	0.00100	1	09/19/2021 20:07	WG1742740
1,1-Dichloroethane	U		0.000100	0.00100	1	09/19/2021 20:07	WG1742740

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.0000819	0.00100	1	09/19/2021 20:07	WG1742740
1,1-Dichloroethene	U		0.000188	0.00100	1	09/19/2021 20:07	WG1742740
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	09/19/2021 20:07	WG1742740
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	09/19/2021 20:07	WG1742740
1,2-Dichloropropane	U		0.000149	0.00100	1	09/19/2021 20:07	WG1742740
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	09/19/2021 20:07	WG1742740
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	09/19/2021 20:07	WG1742740
Ethylbenzene	U		0.000137	0.00100	1	09/19/2021 20:07	WG1742740
Isopropylbenzene	U		0.000105	0.00100	1	09/19/2021 20:07	WG1742740
p-Isopropyltoluene	U		0.000120	0.00100	1	09/19/2021 20:07	WG1742740
2-Butanone (MEK)	U		0.00119	0.0100	1	09/19/2021 20:07	WG1742740
2-Hexanone	U		0.000787	0.0100	1	09/19/2021 20:07	WG1742740
Methylene Chloride	U		0.000430	0.00500	1	09/19/2021 20:07	WG1742740
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	09/19/2021 20:07	WG1742740
Methyl tert-butyl ether	U		0.000101	0.00100	1	09/19/2021 20:07	WG1742740
Naphthalene	U		0.00100	0.00500	1	09/19/2021 20:07	WG1742740
n-Propylbenzene	U		0.0000993	0.00100	1	09/19/2021 20:07	WG1742740
Styrene	U		0.000118	0.00100	1	09/19/2021 20:07	WG1742740
tert-Butyl alcohol	U		0.00406	0.00500	1	09/19/2021 20:07	WG1742740
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	09/19/2021 20:07	WG1742740
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	09/19/2021 20:07	WG1742740
Tetrachloroethene	U		0.000300	0.00100	1	09/19/2021 20:07	WG1742740
Toluene	U		0.000278	0.00100	1	09/19/2021 20:07	WG1742740
1,1,1-Trichloroethane	U		0.000149	0.00100	1	09/19/2021 20:07	WG1742740
1,1,2-Trichloroethane	U		0.000158	0.00100	1	09/19/2021 20:07	WG1742740
Trichloroethene	U		0.000190	0.00100	1	09/19/2021 20:07	WG1742740
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/19/2021 20:07	WG1742740
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/19/2021 20:07	WG1742740
Vinyl chloride	U		0.000234	0.00100	1	09/19/2021 20:07	WG1742740
o-Xylene	U		0.000174	0.00100	1	09/19/2021 20:07	WG1742740
m&p-Xylene	U		0.000430	0.00200	1	09/19/2021 20:07	WG1742740
Xylenes, Total	U		0.000174	0.00300	1	09/19/2021 20:07	WG1742740
(S) Toluene-d8	*102*			*80.0-120*		*09/19/2021 20:07*	WG1742740
(S) 4-Bromofluorobenzene	*102*			*77.0-126*		*09/19/2021 20:07*	WG1742740
(S) 1,2-Dichloroethane-d4	*98.0*			*70.0-130*		*09/19/2021 20:07*	WG1742740

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.214		0.0247	0.100	1	09/29/2021 16:30	WG1745180
(S) o-Terphenyl	*97.9*			*31.0-160*		*09/29/2021 16:30*	WG1745180

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3110		50.0	1	09/21/2021 16:36	WG1743658

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0500	0.100	1	09/23/2021 17:22	WG1745434

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	119	B	37.9	100	100	09/22/2021 04:42	WG1743625
Fluoride	1.47		0.0640	0.150	1	09/22/2021 04:27	WG1743625
Sulfate	1680		59.4	500	100	09/22/2021 04:42	WG1743625

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00319		0.000180	0.00200	1	09/22/2021 23:05	WG1742034
Barium	0.0195		0.000381	0.00200	1	09/22/2021 23:05	WG1742034
Calcium	466		0.0936	1.00	1	09/22/2021 23:05	WG1742034
Chromium	0.00189	J	0.00124	0.00200	1	09/22/2021 23:05	WG1742034
Iron	0.492		0.0281	0.100	1	09/22/2021 23:05	WG1742034
Lead	0.00112	J	0.000849	0.00200	1	09/22/2021 23:05	WG1742034
Manganese	0.0335		0.000704	0.00500	1	09/22/2021 23:05	WG1742034
Potassium	0.779	J	0.108	2.00	1	09/22/2021 23:05	WG1742034
Selenium	0.00365		0.000300	0.00200	1	09/22/2021 23:05	WG1742034
Sodium	146		0.376	2.00	1	09/22/2021 23:05	WG1742034

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	09/19/2021 20:28	WG1742740
Benzene	U		0.0000941	0.00100	1	09/19/2021 20:28	WG1742740
Bromodichloromethane	U		0.000136	0.00100	1	09/19/2021 20:28	WG1742740
Bromoform	U		0.000129	0.00100	1	09/19/2021 20:28	WG1742740
Bromomethane	U		0.000605	0.00500	1	09/19/2021 20:28	WG1742740
n-Butylbenzene	U		0.000157	0.00100	1	09/19/2021 20:28	WG1742740
sec-Butylbenzene	U		0.000125	0.00100	1	09/19/2021 20:28	WG1742740
Carbon disulfide	U		0.0000962	0.00100	1	09/19/2021 20:28	WG1742740
Carbon tetrachloride	U		0.000128	0.00100	1	09/19/2021 20:28	WG1742740
Chlorobenzene	U		0.000116	0.00100	1	09/19/2021 20:28	WG1742740
Chlorodibromomethane	U		0.000140	0.00100	1	09/19/2021 20:28	WG1742740
Chloroethane	U		0.000192	0.00500	1	09/19/2021 20:28	WG1742740
Chloroform	U		0.000111	0.00500	1	09/19/2021 20:28	WG1742740
Chloromethane	U		0.000960	0.00250	1	09/19/2021 20:28	WG1742740
1,2-Dibromoethane	U		0.000126	0.00100	1	09/19/2021 20:28	WG1742740
1,1-Dichloroethane	U		0.000100	0.00100	1	09/19/2021 20:28	WG1742740
1,2-Dichloroethane	U		0.0000819	0.00100	1	09/19/2021 20:28	WG1742740
1,1-Dichloroethene	U		0.000188	0.00100	1	09/19/2021 20:28	WG1742740
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	09/19/2021 20:28	WG1742740
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	09/19/2021 20:28	WG1742740
1,2-Dichloropropane	U		0.000149	0.00100	1	09/19/2021 20:28	WG1742740
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	09/19/2021 20:28	WG1742740
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	09/19/2021 20:28	WG1742740

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Ethylbenzene	U		0.000137	0.00100	1	09/19/2021 20:28	WG1742740
Isopropylbenzene	U		0.000105	0.00100	1	09/19/2021 20:28	WG1742740
p-Isopropyltoluene	U		0.000120	0.00100	1	09/19/2021 20:28	WG1742740
2-Butanone (MEK)	U		0.00119	0.0100	1	09/19/2021 20:28	WG1742740
2-Hexanone	U		0.000787	0.0100	1	09/19/2021 20:28	WG1742740
Methylene Chloride	U		0.000430	0.00500	1	09/19/2021 20:28	WG1742740
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	09/19/2021 20:28	WG1742740
Methyl tert-butyl ether	U		0.000101	0.00100	1	09/19/2021 20:28	WG1742740
Naphthalene	U		0.00100	0.00500	1	09/19/2021 20:28	WG1742740
n-Propylbenzene	U		0.0000993	0.00100	1	09/19/2021 20:28	WG1742740
Styrene	U		0.000118	0.00100	1	09/19/2021 20:28	WG1742740
tert-Butyl alcohol	U		0.00406	0.00500	1	09/19/2021 20:28	WG1742740
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	09/19/2021 20:28	WG1742740
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	09/19/2021 20:28	WG1742740
Tetrachloroethene	U		0.000300	0.00100	1	09/19/2021 20:28	WG1742740
Toluene	U		0.000278	0.00100	1	09/19/2021 20:28	WG1742740
1,1,1-Trichloroethane	U		0.000149	0.00100	1	09/19/2021 20:28	WG1742740
1,1,2-Trichloroethane	U		0.000158	0.00100	1	09/19/2021 20:28	WG1742740
Trichloroethene	U		0.000190	0.00100	1	09/19/2021 20:28	WG1742740
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/19/2021 20:28	WG1742740
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/19/2021 20:28	WG1742740
Vinyl chloride	U		0.000234	0.00100	1	09/19/2021 20:28	WG1742740
o-Xylene	U		0.000174	0.00100	1	09/19/2021 20:28	WG1742740
m&p-Xylene	U		0.000430	0.00200	1	09/19/2021 20:28	WG1742740
Xylenes, Total	U		0.000174	0.00300	1	09/19/2021 20:28	WG1742740
(S) Toluene-d8	*105*			*80.0-120*		*09/19/2021 20:28*	WG1742740
(S) 4-Bromofluorobenzene	*100*			*77.0-126*		*09/19/2021 20:28*	WG1742740
(S) 1,2-Dichloroethane-d4	*99.9*			*70.0-130*		*09/19/2021 20:28*	WG1742740

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.209		0.0247	0.100	1	09/30/2021 13:17	WG1746820
(S) o-Terphenyl	*101*			*31.0-160*		*09/30/2021 13:17*	WG1746820

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4910		50.0	1	09/21/2021 13:31	WG1743653

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	369		37.9	100	100	09/22/2021 02:52	WG1743971
Fluoride	1.11		0.0640	0.150	1	09/22/2021 02:36	WG1743971
Sulfate	2640		59.4	500	100	09/22/2021 02:52	WG1743971

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00362		0.000180	0.00200	1	09/22/2021 23:09	WG1742034
Barium	0.0102		0.000381	0.00200	1	09/22/2021 23:09	WG1742034
Chromium	0.00140	J	0.00124	0.00200	1	09/22/2021 23:09	WG1742034
Iron	0.228		0.0281	0.100	1	09/22/2021 23:09	WG1742034
Lead	0.00237		0.000849	0.00200	1	09/22/2021 23:09	WG1742034
Manganese	0.0278		0.000704	0.00500	1	09/22/2021 23:09	WG1742034
Selenium	0.00345		0.000300	0.00200	1	09/22/2021 23:09	WG1742034

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	09/23/2021 17:03	WG1744685
(S) a,a,a-Trifluorotoluene(FID)	*98.3*			*78.0-120*		*09/23/2021 17:03*	WG1744685

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	09/19/2021 20:50	WG1742740
Benzene	U		0.0000941	0.00100	1	09/19/2021 20:50	WG1742740
Bromodichloromethane	U		0.000136	0.00100	1	09/19/2021 20:50	WG1742740
Bromoform	U		0.000129	0.00100	1	09/19/2021 20:50	WG1742740
Bromomethane	U		0.000605	0.00500	1	09/19/2021 20:50	WG1742740
n-Butylbenzene	U		0.000157	0.00100	1	09/19/2021 20:50	WG1742740
sec-Butylbenzene	U		0.000125	0.00100	1	09/19/2021 20:50	WG1742740
Carbon disulfide	U		0.0000962	0.00100	1	09/19/2021 20:50	WG1742740
Carbon tetrachloride	U		0.000128	0.00100	1	09/19/2021 20:50	WG1742740
Chlorobenzene	U		0.000116	0.00100	1	09/19/2021 20:50	WG1742740
Chlorodibromomethane	U		0.000140	0.00100	1	09/19/2021 20:50	WG1742740
Chloroethane	U		0.000192	0.00500	1	09/19/2021 20:50	WG1742740
Chloroform	U		0.000111	0.00500	1	09/19/2021 20:50	WG1742740
Chloromethane	U		0.000960	0.00250	1	09/19/2021 20:50	WG1742740
1,2-Dibromoethane	U		0.000126	0.00100	1	09/19/2021 20:50	WG1742740
1,1-Dichloroethane	U		0.000100	0.00100	1	09/19/2021 20:50	WG1742740
1,2-Dichloroethane	U		0.0000819	0.00100	1	09/19/2021 20:50	WG1742740
1,1-Dichloroethene	U		0.000188	0.00100	1	09/19/2021 20:50	WG1742740
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	09/19/2021 20:50	WG1742740
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	09/19/2021 20:50	WG1742740
1,2-Dichloropropane	U		0.000149	0.00100	1	09/19/2021 20:50	WG1742740
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	09/19/2021 20:50	WG1742740
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	09/19/2021 20:50	WG1742740
Ethylbenzene	U		0.000137	0.00100	1	09/19/2021 20:50	WG1742740

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Isopropylbenzene	U		0.000105	0.00100	1	09/19/2021 20:50	WG1742740
p-Isopropyltoluene	U		0.000120	0.00100	1	09/19/2021 20:50	WG1742740
2-Butanone (MEK)	U		0.00119	0.0100	1	09/19/2021 20:50	WG1742740
2-Hexanone	U		0.000787	0.0100	1	09/19/2021 20:50	WG1742740
Methylene Chloride	U		0.000430	0.00500	1	09/19/2021 20:50	WG1742740
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	09/19/2021 20:50	WG1742740
Methyl tert-butyl ether	0.000998	J	0.000101	0.00100	1	09/19/2021 20:50	WG1742740
Naphthalene	U		0.00100	0.00500	1	09/19/2021 20:50	WG1742740
n-Propylbenzene	U		0.0000993	0.00100	1	09/19/2021 20:50	WG1742740
Styrene	U		0.000118	0.00100	1	09/19/2021 20:50	WG1742740
tert-Butyl alcohol	U		0.00406	0.00500	1	09/19/2021 20:50	WG1742740
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	09/19/2021 20:50	WG1742740
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	09/19/2021 20:50	WG1742740
Tetrachloroethene	U		0.000300	0.00100	1	09/19/2021 20:50	WG1742740
Toluene	U		0.000278	0.00100	1	09/19/2021 20:50	WG1742740
1,1,1-Trichloroethane	U		0.000149	0.00100	1	09/19/2021 20:50	WG1742740
1,1,2-Trichloroethane	U		0.000158	0.00100	1	09/19/2021 20:50	WG1742740
Trichloroethene	U		0.000190	0.00100	1	09/19/2021 20:50	WG1742740
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/19/2021 20:50	WG1742740
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/19/2021 20:50	WG1742740
Vinyl chloride	U		0.000234	0.00100	1	09/19/2021 20:50	WG1742740
o-Xylene	U		0.000174	0.00100	1	09/19/2021 20:50	WG1742740
m&p-Xylene	U		0.000430	0.00200	1	09/19/2021 20:50	WG1742740
Xylenes, Total	U		0.000174	0.00300	1	09/19/2021 20:50	WG1742740
(S) Toluene-d8	*105*			*80.0-120*		*09/19/2021 20:50*	WG1742740
(S) 4-Bromofluorobenzene	*105*			*77.0-126*		*09/19/2021 20:50*	WG1742740
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*09/19/2021 20:50*	WG1742740

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.302		0.0247	0.100	1	09/29/2021 16:56	WG1745180
(S) o-Terphenyl	*98.9*			*31.0-160*		*09/29/2021 16:56*	WG1745180

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	5060		50.0	1	09/21/2021 13:31	WG1743653

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	303		37.9	100	100	09/22/2021 03:25	WG1743971
Fluoride	1.17		0.0640	0.150	1	09/22/2021 03:09	WG1743971
Sulfate	2890		59.4	500	100	09/22/2021 03:25	WG1743971

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00404		0.000180	0.00200	1	09/22/2021 23:12	WG1742034
Barium	0.00850		0.000381	0.00200	1	09/22/2021 23:12	WG1742034
Chromium	U		0.00124	0.00200	1	09/22/2021 23:12	WG1742034
Iron	U		0.0281	0.100	1	09/22/2021 23:12	WG1742034
Lead	U		0.000849	0.00200	1	09/22/2021 23:12	WG1742034
Manganese	U		0.000704	0.00500	1	09/22/2021 23:12	WG1742034
Selenium	0.00953		0.000300	0.00200	1	09/22/2021 23:12	WG1742034

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	09/23/2021 17:25	WG1744685
(S) a,a,a-Trifluorotoluene(FID)	*98.3*			*78.0-120*		*09/23/2021 17:25*	WG1744685

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	09/19/2021 21:11	WG1742740
Benzene	U		0.0000941	0.00100	1	09/19/2021 21:11	WG1742740
Bromodichloromethane	U		0.000136	0.00100	1	09/19/2021 21:11	WG1742740
Bromoform	U		0.000129	0.00100	1	09/19/2021 21:11	WG1742740
Bromomethane	U		0.000605	0.00500	1	09/19/2021 21:11	WG1742740
n-Butylbenzene	U		0.000157	0.00100	1	09/19/2021 21:11	WG1742740
sec-Butylbenzene	U		0.000125	0.00100	1	09/19/2021 21:11	WG1742740
Carbon disulfide	U		0.0000962	0.00100	1	09/19/2021 21:11	WG1742740
Carbon tetrachloride	U		0.000128	0.00100	1	09/19/2021 21:11	WG1742740
Chlorobenzene	U		0.000116	0.00100	1	09/19/2021 21:11	WG1742740
Chlorodibromomethane	U		0.000140	0.00100	1	09/19/2021 21:11	WG1742740
Chloroethane	U		0.000192	0.00500	1	09/19/2021 21:11	WG1742740
Chloroform	U		0.000111	0.00500	1	09/19/2021 21:11	WG1742740
Chloromethane	U		0.000960	0.00250	1	09/19/2021 21:11	WG1742740
1,2-Dibromoethane	U		0.000126	0.00100	1	09/19/2021 21:11	WG1742740
1,1-Dichloroethane	U		0.000100	0.00100	1	09/19/2021 21:11	WG1742740
1,2-Dichloroethane	U		0.0000819	0.00100	1	09/19/2021 21:11	WG1742740
1,1-Dichloroethene	U		0.000188	0.00100	1	09/19/2021 21:11	WG1742740
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	09/19/2021 21:11	WG1742740
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	09/19/2021 21:11	WG1742740
1,2-Dichloropropane	U		0.000149	0.00100	1	09/19/2021 21:11	WG1742740
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	09/19/2021 21:11	WG1742740
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	09/19/2021 21:11	WG1742740
Ethylbenzene	U		0.000137	0.00100	1	09/19/2021 21:11	WG1742740

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Isopropylbenzene	U		0.000105	0.00100	1	09/19/2021 21:11	WG1742740
p-Isopropyltoluene	U		0.000120	0.00100	1	09/19/2021 21:11	WG1742740
2-Butanone (MEK)	U		0.00119	0.0100	1	09/19/2021 21:11	WG1742740
2-Hexanone	U		0.000787	0.0100	1	09/19/2021 21:11	WG1742740
Methylene Chloride	U		0.000430	0.00500	1	09/19/2021 21:11	WG1742740
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	09/19/2021 21:11	WG1742740
Methyl tert-butyl ether	0.000125	J	0.000101	0.00100	1	09/19/2021 21:11	WG1742740
Naphthalene	U		0.00100	0.00500	1	09/19/2021 21:11	WG1742740
n-Propylbenzene	U		0.0000993	0.00100	1	09/19/2021 21:11	WG1742740
Styrene	U		0.000118	0.00100	1	09/19/2021 21:11	WG1742740
tert-Butyl alcohol	U		0.00406	0.00500	1	09/19/2021 21:11	WG1742740
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	09/19/2021 21:11	WG1742740
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	09/19/2021 21:11	WG1742740
Tetrachloroethene	U		0.000300	0.00100	1	09/19/2021 21:11	WG1742740
Toluene	U		0.000278	0.00100	1	09/19/2021 21:11	WG1742740
1,1,1-Trichloroethane	U		0.000149	0.00100	1	09/19/2021 21:11	WG1742740
1,1,2-Trichloroethane	U		0.000158	0.00100	1	09/19/2021 21:11	WG1742740
Trichloroethene	U		0.000190	0.00100	1	09/19/2021 21:11	WG1742740
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/19/2021 21:11	WG1742740
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/19/2021 21:11	WG1742740
Vinyl chloride	U		0.000234	0.00100	1	09/19/2021 21:11	WG1742740
o-Xylene	U		0.000174	0.00100	1	09/19/2021 21:11	WG1742740
m&p-Xylene	U		0.000430	0.00200	1	09/19/2021 21:11	WG1742740
Xylenes, Total	U		0.000174	0.00300	1	09/19/2021 21:11	WG1742740
(S) Toluene-d8	*104*			*80.0-120*		*09/19/2021 21:11*	WG1742740
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*09/19/2021 21:11*	WG1742740
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*09/19/2021 21:11*	WG1742740

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0874	J	0.0247	0.100	1	09/29/2021 17:21	WG1745180
(S) o-Terphenyl	*96.8*			*31.0-160*		*09/29/2021 17:21*	WG1745180

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	6460		100	1	09/21/2021 16:36	WG1743658

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	484		37.9	100	100	09/22/2021 03:58	WG1743971
Fluoride	1.80		0.0640	0.150	1	09/22/2021 03:42	WG1743971
Sulfate	3420		59.4	500	100	09/22/2021 03:58	WG1743971

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00286		0.000180	0.00200	1	09/22/2021 23:16	WG1742034
Barium	0.0156		0.000381	0.00200	1	09/22/2021 23:16	WG1742034
Chromium	0.00140	J	0.00124	0.00200	1	09/22/2021 23:16	WG1742034
Iron	0.259		0.0281	0.100	1	09/22/2021 23:16	WG1742034
Lead	0.00381		0.000849	0.00200	1	09/22/2021 23:16	WG1742034
Manganese	0.0112		0.000704	0.00500	1	09/22/2021 23:16	WG1742034
Selenium	0.0180		0.000300	0.00200	1	09/22/2021 23:16	WG1742034

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	09/23/2021 17:47	WG1744685
(S) a,a,a-Trifluorotoluene(FID)	*98.4*			*78.0-120*		*09/23/2021 17:47*	WG1744685

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	09/19/2021 21:32	WG1742740
Benzene	U		0.0000941	0.00100	1	09/19/2021 21:32	WG1742740
Bromodichloromethane	U		0.000136	0.00100	1	09/19/2021 21:32	WG1742740
Bromoform	U		0.000129	0.00100	1	09/19/2021 21:32	WG1742740
Bromomethane	U		0.000605	0.00500	1	09/19/2021 21:32	WG1742740
n-Butylbenzene	U		0.000157	0.00100	1	09/19/2021 21:32	WG1742740
sec-Butylbenzene	U		0.000125	0.00100	1	09/19/2021 21:32	WG1742740
Carbon disulfide	U		0.0000962	0.00100	1	09/19/2021 21:32	WG1742740
Carbon tetrachloride	U		0.000128	0.00100	1	09/19/2021 21:32	WG1742740
Chlorobenzene	U		0.000116	0.00100	1	09/19/2021 21:32	WG1742740
Chlorodibromomethane	U		0.000140	0.00100	1	09/19/2021 21:32	WG1742740
Chloroethane	U		0.000192	0.00500	1	09/19/2021 21:32	WG1742740
Chloroform	U		0.000111	0.00500	1	09/19/2021 21:32	WG1742740
Chloromethane	U		0.000960	0.00250	1	09/19/2021 21:32	WG1742740
1,2-Dibromoethane	U		0.000126	0.00100	1	09/19/2021 21:32	WG1742740
1,1-Dichloroethane	U		0.000100	0.00100	1	09/19/2021 21:32	WG1742740
1,2-Dichloroethane	U		0.0000819	0.00100	1	09/19/2021 21:32	WG1742740
1,1-Dichloroethene	U		0.000188	0.00100	1	09/19/2021 21:32	WG1742740
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	09/19/2021 21:32	WG1742740
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	09/19/2021 21:32	WG1742740
1,2-Dichloropropane	U		0.000149	0.00100	1	09/19/2021 21:32	WG1742740
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	09/19/2021 21:32	WG1742740
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	09/19/2021 21:32	WG1742740
Ethylbenzene	U		0.000137	0.00100	1	09/19/2021 21:32	WG1742740

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Isopropylbenzene	U		0.000105	0.00100	1	09/19/2021 21:32	WG1742740
p-Isopropyltoluene	U		0.000120	0.00100	1	09/19/2021 21:32	WG1742740
2-Butanone (MEK)	U		0.00119	0.0100	1	09/19/2021 21:32	WG1742740
2-Hexanone	U		0.000787	0.0100	1	09/19/2021 21:32	WG1742740
Methylene Chloride	U		0.000430	0.00500	1	09/19/2021 21:32	WG1742740
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	09/19/2021 21:32	WG1742740
Methyl tert-butyl ether	U		0.000101	0.00100	1	09/19/2021 21:32	WG1742740
Naphthalene	U		0.00100	0.00500	1	09/19/2021 21:32	WG1742740
n-Propylbenzene	U		0.0000993	0.00100	1	09/19/2021 21:32	WG1742740
Styrene	U		0.000118	0.00100	1	09/19/2021 21:32	WG1742740
tert-Butyl alcohol	U		0.00406	0.00500	1	09/19/2021 21:32	WG1742740
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	09/19/2021 21:32	WG1742740
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	09/19/2021 21:32	WG1742740
Tetrachloroethene	U		0.000300	0.00100	1	09/19/2021 21:32	WG1742740
Toluene	U		0.000278	0.00100	1	09/19/2021 21:32	WG1742740
1,1,1-Trichloroethane	U		0.000149	0.00100	1	09/19/2021 21:32	WG1742740
1,1,2-Trichloroethane	U		0.000158	0.00100	1	09/19/2021 21:32	WG1742740
Trichloroethene	U		0.000190	0.00100	1	09/19/2021 21:32	WG1742740
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/19/2021 21:32	WG1742740
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/19/2021 21:32	WG1742740
Vinyl chloride	U		0.000234	0.00100	1	09/19/2021 21:32	WG1742740
o-Xylene	U		0.000174	0.00100	1	09/19/2021 21:32	WG1742740
m&p-Xylene	U		0.000430	0.00200	1	09/19/2021 21:32	WG1742740
Xylenes, Total	U		0.000174	0.00300	1	09/19/2021 21:32	WG1742740
(S) Toluene-d8	*104*			*80.0-120*		*09/19/2021 21:32*	WG1742740
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*09/19/2021 21:32*	WG1742740
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*09/19/2021 21:32*	WG1742740

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0884	J	0.0247	0.100	1	09/29/2021 17:47	WG1745180
(S) o-Terphenyl	*58.9*			*31.0-160*		*09/29/2021 17:47*	WG1745180

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3660		50.0	1	09/21/2021 16:36	WG1743658

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	270		37.9	100	100	09/22/2021 04:39	WG1743971
Fluoride	1.07		0.0640	0.150	1	09/22/2021 04:15	WG1743971
Sulfate	1890		59.4	500	100	09/22/2021 04:39	WG1743971

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00317		0.000180	0.00200	1	09/22/2021 23:32	WG1742034
Barium	0.0977		0.000381	0.00200	1	09/22/2021 23:32	WG1742034
Chromium	0.00275		0.00124	0.00200	1	09/22/2021 23:32	WG1742034
Iron	2.02		0.0281	0.100	1	09/22/2021 23:32	WG1742034
Lead	0.00322		0.000849	0.00200	1	09/22/2021 23:32	WG1742034
Manganese	0.477		0.000704	0.00500	1	09/22/2021 23:32	WG1742034
Selenium	0.0101		0.000300	0.00200	1	09/22/2021 23:32	WG1742034

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	09/23/2021 18:08	WG1744685
(S) a,a,a-Trifluorotoluene(FID)	*98.4*			*78.0-120*		*09/23/2021 18:08*	WG1744685

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	09/19/2021 21:54	WG1742740
Benzene	U		0.0000941	0.00100	1	09/19/2021 21:54	WG1742740
Bromodichloromethane	U		0.000136	0.00100	1	09/19/2021 21:54	WG1742740
Bromoform	U		0.000129	0.00100	1	09/19/2021 21:54	WG1742740
Bromomethane	U		0.000605	0.00500	1	09/19/2021 21:54	WG1742740
n-Butylbenzene	U		0.000157	0.00100	1	09/19/2021 21:54	WG1742740
sec-Butylbenzene	U		0.000125	0.00100	1	09/19/2021 21:54	WG1742740
Carbon disulfide	U		0.0000962	0.00100	1	09/19/2021 21:54	WG1742740
Carbon tetrachloride	U		0.000128	0.00100	1	09/19/2021 21:54	WG1742740
Chlorobenzene	U		0.000116	0.00100	1	09/19/2021 21:54	WG1742740
Chlorodibromomethane	U		0.000140	0.00100	1	09/19/2021 21:54	WG1742740
Chloroethane	U		0.000192	0.00500	1	09/19/2021 21:54	WG1742740
Chloroform	U		0.000111	0.00500	1	09/19/2021 21:54	WG1742740
Chloromethane	U		0.000960	0.00250	1	09/19/2021 21:54	WG1742740
1,2-Dibromoethane	U		0.000126	0.00100	1	09/19/2021 21:54	WG1742740
1,1-Dichloroethane	U		0.000100	0.00100	1	09/19/2021 21:54	WG1742740
1,2-Dichloroethane	U		0.0000819	0.00100	1	09/19/2021 21:54	WG1742740
1,1-Dichloroethene	U		0.000188	0.00100	1	09/19/2021 21:54	WG1742740
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	09/19/2021 21:54	WG1742740
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	09/19/2021 21:54	WG1742740
1,2-Dichloropropane	U		0.000149	0.00100	1	09/19/2021 21:54	WG1742740
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	09/19/2021 21:54	WG1742740
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	09/19/2021 21:54	WG1742740
Ethylbenzene	U		0.000137	0.00100	1	09/19/2021 21:54	WG1742740

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Isopropylbenzene	U		0.000105	0.00100	1	09/19/2021 21:54	WG1742740
p-Isopropyltoluene	U		0.000120	0.00100	1	09/19/2021 21:54	WG1742740
2-Butanone (MEK)	U		0.00119	0.0100	1	09/19/2021 21:54	WG1742740
2-Hexanone	U		0.000787	0.0100	1	09/19/2021 21:54	WG1742740
Methylene Chloride	U		0.000430	0.00500	1	09/19/2021 21:54	WG1742740
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	09/19/2021 21:54	WG1742740
Methyl tert-butyl ether	U		0.000101	0.00100	1	09/19/2021 21:54	WG1742740
Naphthalene	U		0.00100	0.00500	1	09/19/2021 21:54	WG1742740
n-Propylbenzene	U		0.0000993	0.00100	1	09/19/2021 21:54	WG1742740
Styrene	U		0.000118	0.00100	1	09/19/2021 21:54	WG1742740
tert-Butyl alcohol	U		0.00406	0.00500	1	09/19/2021 21:54	WG1742740
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	09/19/2021 21:54	WG1742740
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	09/19/2021 21:54	WG1742740
Tetrachloroethene	U		0.000300	0.00100	1	09/19/2021 21:54	WG1742740
Toluene	U		0.000278	0.00100	1	09/19/2021 21:54	WG1742740
1,1,1-Trichloroethane	U		0.000149	0.00100	1	09/19/2021 21:54	WG1742740
1,1,2-Trichloroethane	U		0.000158	0.00100	1	09/19/2021 21:54	WG1742740
Trichloroethene	U		0.000190	0.00100	1	09/19/2021 21:54	WG1742740
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/19/2021 21:54	WG1742740
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/19/2021 21:54	WG1742740
Vinyl chloride	U		0.000234	0.00100	1	09/19/2021 21:54	WG1742740
o-Xylene	U		0.000174	0.00100	1	09/19/2021 21:54	WG1742740
m&p-Xylene	U		0.000430	0.00200	1	09/19/2021 21:54	WG1742740
Xylenes, Total	U		0.000174	0.00300	1	09/19/2021 21:54	WG1742740
(S) Toluene-d8	*105*			*80.0-120*		*09/19/2021 21:54*	WG1742740
(S) 4-Bromofluorobenzene	*106*			*77.0-126*		*09/19/2021 21:54*	WG1742740
(S) 1,2-Dichloroethane-d4	*99.9*			*70.0-130*		*09/19/2021 21:54*	WG1742740

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.212		0.0247	0.100	1	09/29/2021 18:13	WG1745180
(S) o-Terphenyl	*78.4*			*31.0-160*		*09/29/2021 18:13*	WG1745180

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1620		50.0	1	09/21/2021 16:36	WG1743658

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		2.50	5.00	50	09/23/2021 17:25	WG1745434

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	253		1.90	5.00	5	09/22/2021 05:45	WG1743971
Fluoride	1.05		0.0640	0.150	1	09/22/2021 05:28	WG1743971
Sulfate	55.0		0.594	5.00	1	09/22/2021 05:28	WG1743971

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0143		0.000180	0.00200	1	09/22/2021 23:36	WG1742034
Barium	1.26		0.000381	0.00200	1	09/22/2021 23:36	WG1742034
Calcium	117		0.0936	1.00	1	09/22/2021 23:36	WG1742034
Chromium	0.00162	J	0.00124	0.00200	1	09/22/2021 23:36	WG1742034
Iron	0.0985	J	0.0281	0.100	1	09/22/2021 23:36	WG1742034
Lead	0.00288		0.000849	0.00200	1	09/22/2021 23:36	WG1742034
Manganese	0.0252		0.000704	0.00500	1	09/22/2021 23:36	WG1742034
Potassium	0.601	J	0.108	2.00	1	09/22/2021 23:36	WG1742034
Selenium	0.000829	J	0.000300	0.00200	1	09/22/2021 23:36	WG1742034
Sodium	423		0.376	2.00	1	09/22/2021 23:36	WG1742034

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	37.6		1.57	5.00	50	09/23/2021 20:45	WG1744685
(S) a,a,a-Trifluorotoluene(FID)	*96.3*			*78.0-120*		*09/23/2021 20:45*	WG1744685

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.565	2.50	50	09/19/2021 23:19	WG1742740
Benzene	10.8		0.0188	0.200	200	09/23/2021 23:04	WG1745364
Bromodichloromethane	U		0.00680	0.0500	50	09/19/2021 23:19	WG1742740
Bromoform	U		0.00645	0.0500	50	09/19/2021 23:19	WG1742740
Bromomethane	U		0.0303	0.250	50	09/19/2021 23:19	WG1742740
n-Butylbenzene	U		0.00785	0.0500	50	09/19/2021 23:19	WG1742740
sec-Butylbenzene	0.0120	J	0.00625	0.0500	50	09/19/2021 23:19	WG1742740
Carbon disulfide	U		0.00481	0.0500	50	09/19/2021 23:19	WG1742740
Carbon tetrachloride	U		0.00640	0.0500	50	09/19/2021 23:19	WG1742740
Chlorobenzene	U		0.00580	0.0500	50	09/19/2021 23:19	WG1742740
Chlorodibromomethane	U		0.00700	0.0500	50	09/19/2021 23:19	WG1742740
Chloroethane	U		0.00960	0.250	50	09/19/2021 23:19	WG1742740
Chloroform	U		0.00555	0.250	50	09/19/2021 23:19	WG1742740
Chloromethane	U		0.0480	0.125	50	09/19/2021 23:19	WG1742740
1,2-Dibromoethane	U		0.00630	0.0500	50	09/19/2021 23:19	WG1742740
1,1-Dichloroethane	U		0.00500	0.0500	50	09/19/2021 23:19	WG1742740

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.00409	0.0500	50	09/19/2021 23:19	WG1742740
1,1-Dichloroethene	U		0.00940	0.0500	50	09/19/2021 23:19	WG1742740
cis-1,2-Dichloroethene	U		0.00630	0.0500	50	09/19/2021 23:19	WG1742740
trans-1,2-Dichloroethene	U		0.00745	0.0500	50	09/19/2021 23:19	WG1742740
1,2-Dichloropropane	U		0.00745	0.0500	50	09/19/2021 23:19	WG1742740
cis-1,3-Dichloropropene	U		0.00555	0.0500	50	09/19/2021 23:19	WG1742740
trans-1,3-Dichloropropene	U		0.00590	0.0500	50	09/19/2021 23:19	WG1742740
Ethylbenzene	0.654		0.00685	0.0500	50	09/19/2021 23:19	WG1742740
Isopropylbenzene	0.0368	J	0.00525	0.0500	50	09/19/2021 23:19	WG1742740
p-Isopropyltoluene	U		0.00600	0.0500	50	09/19/2021 23:19	WG1742740
2-Butanone (MEK)	U		0.0595	0.500	50	09/19/2021 23:19	WG1742740
2-Hexanone	U		0.0394	0.500	50	09/19/2021 23:19	WG1742740
Methylene Chloride	U		0.0215	0.250	50	09/19/2021 23:19	WG1742740
4-Methyl-2-pentanone (MIBK)	U		0.0239	0.500	50	09/19/2021 23:19	WG1742740
Methyl tert-butyl ether	1.22		0.00505	0.0500	50	09/19/2021 23:19	WG1742740
Naphthalene	0.186	J	0.0500	0.250	50	09/19/2021 23:19	WG1742740
n-Propylbenzene	0.0523		0.00497	0.0500	50	09/19/2021 23:19	WG1742740
Styrene	U		0.00590	0.0500	50	09/19/2021 23:19	WG1742740
tert-Butyl alcohol	0.502		0.203	0.250	50	09/19/2021 23:19	WG1742740
1,1,1,2-Tetrachloroethane	U		0.00735	0.0500	50	09/19/2021 23:19	WG1742740
1,1,2,2-Tetrachloroethane	U		0.00665	0.0500	50	09/19/2021 23:19	WG1742740
Tetrachloroethene	U		0.0150	0.0500	50	09/19/2021 23:19	WG1742740
Toluene	0.0893		0.0139	0.0500	50	09/19/2021 23:19	WG1742740
1,1,1-Trichloroethane	U		0.00745	0.0500	50	09/19/2021 23:19	WG1742740
1,1,2-Trichloroethane	U		0.00790	0.0500	50	09/19/2021 23:19	WG1742740
Trichloroethene	U		0.00950	0.0500	50	09/19/2021 23:19	WG1742740
1,2,4-Trimethylbenzene	0.139		0.0161	0.0500	50	09/19/2021 23:19	WG1742740
1,3,5-Trimethylbenzene	0.0110	J	0.00520	0.0500	50	09/19/2021 23:19	WG1742740
Vinyl chloride	U		0.0117	0.0500	50	09/19/2021 23:19	WG1742740
o-Xylene	0.0196	J	0.00870	0.0500	50	09/19/2021 23:19	WG1742740
m&p-Xylene	0.253		0.0215	0.100	50	09/19/2021 23:19	WG1742740
Xylenes, Total	0.273		0.00870	0.150	50	09/19/2021 23:19	WG1742740
(S) Toluene-d8	*108*			*80.0-120*		*09/19/2021 23:19*	WG1742740
(S) Toluene-d8	*105*			*80.0-120*		*09/23/2021 23:04*	WG1745364
(S) 4-Bromofluorobenzene	*108*			*77.0-126*		*09/19/2021 23:19*	WG1742740
(S) 4-Bromofluorobenzene	*88.5*			*77.0-126*		*09/23/2021 23:04*	WG1745364
(S) 1,2-Dichloroethane-d4	*98.9*			*70.0-130*		*09/19/2021 23:19*	WG1742740
(S) 1,2-Dichloroethane-d4	*87.2*			*70.0-130*		*09/23/2021 23:04*	WG1745364

EDB / DBCP by Method 8011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Ethylene Dibromide	U		0.00000536	0.0000200	1	09/21/2021 20:15	WG1743427

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	14.4		0.0494	0.200	2	09/30/2021 11:46	WG1745180
(S) o-Terphenyl	*94.7*			*31.0-160*		*09/30/2021 11:46*	WG1745180

Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	U		0.0000447	0.000400	1	09/19/2021 15:50	WG1742189
(S) Nitrobenzene-d5	*60.5*			*10.0-120*		*09/19/2021 15:50*	WG1742189

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	11.0		10.0	1	09/21/2021 16:36	WG1743658

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0500	0.100	1	09/23/2021 17:27	WG1745434

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	U		0.379	1.00	1	09/22/2021 06:01	WG1743971
Fluoride	U		0.0640	0.150	1	09/22/2021 06:01	WG1743971
Sulfate	U		0.594	5.00	1	09/22/2021 06:01	WG1743971

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	U		0.000180	0.00200	1	09/22/2021 23:39	WG1742034
Barium	0.000758	J	0.000381	0.00200	1	09/22/2021 23:39	WG1742034
Calcium	U		0.0936	1.00	1	09/22/2021 23:39	WG1742034
Chromium	0.00353		0.00124	0.00200	1	09/22/2021 23:39	WG1742034
Iron	0.0483	J	0.0281	0.100	1	09/22/2021 23:39	WG1742034
Lead	0.00283		0.000849	0.00200	1	09/22/2021 23:39	WG1742034
Manganese	0.000804	J	0.000704	0.00500	1	09/22/2021 23:39	WG1742034
Potassium	U		0.108	2.00	1	09/22/2021 23:39	WG1742034
Selenium	U		0.000300	0.00200	1	09/22/2021 23:39	WG1742034
Sodium	U		0.376	2.00	1	09/22/2021 23:39	WG1742034

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	09/23/2021 13:05	WG1744685
(S) a,a,a-Trifluorotoluene(FID)	*97.8*			*78.0-120*		*09/23/2021 13:05*	WG1744685

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	09/19/2021 16:46	WG1742742
Benzene	U		0.0000941	0.00100	1	09/19/2021 16:46	WG1742742
Bromodichloromethane	U		0.000136	0.00100	1	09/19/2021 16:46	WG1742742
Bromoform	U		0.000129	0.00100	1	09/19/2021 16:46	WG1742742
Bromomethane	U		0.000605	0.00500	1	09/19/2021 16:46	WG1742742
n-Butylbenzene	U		0.000157	0.00100	1	09/19/2021 16:46	WG1742742
sec-Butylbenzene	U		0.000125	0.00100	1	09/19/2021 16:46	WG1742742
Carbon disulfide	U		0.0000962	0.00100	1	09/19/2021 16:46	WG1742742
Carbon tetrachloride	U		0.000128	0.00100	1	09/19/2021 16:46	WG1742742
Chlorobenzene	U		0.000116	0.00100	1	09/19/2021 16:46	WG1742742
Chlorodibromomethane	U		0.000140	0.00100	1	09/19/2021 16:46	WG1742742
Chloroethane	U		0.000192	0.00500	1	09/19/2021 16:46	WG1742742
Chloroform	U		0.000111	0.00500	1	09/19/2021 16:46	WG1742742
Chloromethane	U		0.000960	0.00250	1	09/19/2021 16:46	WG1742742
1,2-Dibromoethane	U		0.000126	0.00100	1	09/19/2021 16:46	WG1742742
1,1-Dichloroethane	U		0.000100	0.00100	1	09/19/2021 16:46	WG1742742

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.0000819	0.00100	1	09/19/2021 16:46	WG1742742
1,1-Dichloroethene	U		0.000188	0.00100	1	09/19/2021 16:46	WG1742742
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	09/19/2021 16:46	WG1742742
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	09/19/2021 16:46	WG1742742
1,2-Dichloropropane	U		0.000149	0.00100	1	09/19/2021 16:46	WG1742742
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	09/19/2021 16:46	WG1742742
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	09/19/2021 16:46	WG1742742
Ethylbenzene	U		0.000137	0.00100	1	09/19/2021 16:46	WG1742742
Isopropylbenzene	U		0.000105	0.00100	1	09/19/2021 16:46	WG1742742
p-Isopropyltoluene	U		0.000120	0.00100	1	09/19/2021 16:46	WG1742742
2-Butanone (MEK)	U		0.00119	0.0100	1	09/19/2021 16:46	WG1742742
2-Hexanone	U		0.000787	0.0100	1	09/19/2021 16:46	WG1742742
Methylene Chloride	U		0.000430	0.00500	1	09/19/2021 16:46	WG1742742
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	09/19/2021 16:46	WG1742742
Methyl tert-butyl ether	U		0.000101	0.00100	1	09/19/2021 16:46	WG1742742
Naphthalene	U		0.00100	0.00500	1	09/19/2021 16:46	WG1742742
n-Propylbenzene	U		0.0000993	0.00100	1	09/19/2021 16:46	WG1742742
Styrene	U		0.000118	0.00100	1	09/19/2021 16:46	WG1742742
tert-Butyl alcohol	U		0.00406	0.00500	1	09/19/2021 16:46	WG1742742
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	09/19/2021 16:46	WG1742742
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	09/19/2021 16:46	WG1742742
Tetrachloroethene	U		0.000300	0.00100	1	09/19/2021 16:46	WG1742742
Toluene	U		0.000278	0.00100	1	09/19/2021 16:46	WG1742742
1,1,1-Trichloroethane	U		0.000149	0.00100	1	09/19/2021 16:46	WG1742742
1,1,2-Trichloroethane	U		0.000158	0.00100	1	09/19/2021 16:46	WG1742742
Trichloroethene	U		0.000190	0.00100	1	09/19/2021 16:46	WG1742742
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/19/2021 16:46	WG1742742
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/19/2021 16:46	WG1742742
Vinyl chloride	U		0.000234	0.00100	1	09/19/2021 16:46	WG1742742
o-Xylene	U		0.000174	0.00100	1	09/19/2021 16:46	WG1742742
m&p-Xylene	U		0.000430	0.00200	1	09/19/2021 16:46	WG1742742
Xylenes, Total	U		0.000174	0.00300	1	09/19/2021 16:46	WG1742742
(S) Toluene-d8	*95.9*			*80.0-120*		*09/19/2021 16:46*	WG1742742
(S) 4-Bromofluorobenzene	*92.5*			*77.0-126*		*09/19/2021 16:46*	WG1742742
(S) 1,2-Dichloroethane-d4	*93.2*			*70.0-130*		*09/19/2021 16:46*	WG1742742

EDB / DBCP by Method 8011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Ethylene Dibromide	U		0.00000536	0.0000200	1	09/21/2021 20:27	WG1743427

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0351	J	0.0247	0.100	1	09/30/2021 10:04	WG1745180
(S) o-Terphenyl	*105*			*31.0-160*		*09/30/2021 10:04*	WG1745180

Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	U		0.0000447	0.000400	1	09/20/2021 23:29	WG1742899
(S) Nitrobenzene-d5	*54.6*			*10.0-120*		*09/20/2021 23:29*	WG1742899

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	5020		50.0	1	09/21/2021 16:36	WG1743658

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	311		37.9	100	100	09/22/2021 06:50	WG1743971
Fluoride	1.15		0.0640	0.150	1	09/22/2021 06:34	WG1743971
Sulfate	2990		59.4	500	100	09/22/2021 06:50	WG1743971

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00390		0.000180	0.00200	1	09/22/2021 23:43	WG1742034
Barium	0.00907		0.000381	0.00200	1	09/22/2021 23:43	WG1742034
Chromium	U		0.00124	0.00200	1	09/22/2021 23:43	WG1742034
Iron	U		0.0281	0.100	1	09/22/2021 23:43	WG1742034
Lead	U		0.000849	0.00200	1	09/22/2021 23:43	WG1742034
Manganese	U		0.000704	0.00500	1	09/22/2021 23:43	WG1742034
Selenium	0.00983		0.000300	0.00200	1	09/22/2021 23:43	WG1742034

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	09/24/2021 02:08	WG1744965
(S) a,a,a-Trifluorotoluene(FID)	*110*			*78.0-120*		*09/24/2021 02:08*	WG1744965

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	09/19/2021 17:07	WG1742742
Benzene	U		0.0000941	0.00100	1	09/19/2021 17:07	WG1742742
Bromodichloromethane	U		0.000136	0.00100	1	09/19/2021 17:07	WG1742742
Bromoform	U		0.000129	0.00100	1	09/19/2021 17:07	WG1742742
Bromomethane	U		0.000605	0.00500	1	09/19/2021 17:07	WG1742742
n-Butylbenzene	U		0.000157	0.00100	1	09/19/2021 17:07	WG1742742
sec-Butylbenzene	U		0.000125	0.00100	1	09/19/2021 17:07	WG1742742
Carbon disulfide	U		0.0000962	0.00100	1	09/19/2021 17:07	WG1742742
Carbon tetrachloride	U		0.000128	0.00100	1	09/19/2021 17:07	WG1742742
Chlorobenzene	U		0.000116	0.00100	1	09/19/2021 17:07	WG1742742
Chlorodibromomethane	U		0.000140	0.00100	1	09/19/2021 17:07	WG1742742
Chloroethane	U		0.000192	0.00500	1	09/19/2021 17:07	WG1742742
Chloroform	U		0.000111	0.00500	1	09/19/2021 17:07	WG1742742
Chloromethane	U		0.000960	0.00250	1	09/19/2021 17:07	WG1742742
1,2-Dibromoethane	U		0.000126	0.00100	1	09/19/2021 17:07	WG1742742
1,1-Dichloroethane	U		0.000100	0.00100	1	09/19/2021 17:07	WG1742742
1,2-Dichloroethane	U		0.0000819	0.00100	1	09/19/2021 17:07	WG1742742
1,1-Dichloroethene	U		0.000188	0.00100	1	09/19/2021 17:07	WG1742742
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	09/19/2021 17:07	WG1742742
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	09/19/2021 17:07	WG1742742
1,2-Dichloropropane	U		0.000149	0.00100	1	09/19/2021 17:07	WG1742742
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	09/19/2021 17:07	WG1742742
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	09/19/2021 17:07	WG1742742
Ethylbenzene	U		0.000137	0.00100	1	09/19/2021 17:07	WG1742742

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Isopropylbenzene	U		0.000105	0.00100	1	09/19/2021 17:07	WG1742742
p-Isopropyltoluene	U		0.000120	0.00100	1	09/19/2021 17:07	WG1742742
2-Butanone (MEK)	U		0.00119	0.0100	1	09/19/2021 17:07	WG1742742
2-Hexanone	U		0.000787	0.0100	1	09/19/2021 17:07	WG1742742
Methylene Chloride	U		0.000430	0.00500	1	09/19/2021 17:07	WG1742742
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	09/19/2021 17:07	WG1742742
Methyl tert-butyl ether	0.000105	J	0.000101	0.00100	1	09/19/2021 17:07	WG1742742
Naphthalene	U		0.00100	0.00500	1	09/19/2021 17:07	WG1742742
n-Propylbenzene	U		0.0000993	0.00100	1	09/19/2021 17:07	WG1742742
Styrene	U		0.000118	0.00100	1	09/19/2021 17:07	WG1742742
tert-Butyl alcohol	U		0.00406	0.00500	1	09/19/2021 17:07	WG1742742
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	09/19/2021 17:07	WG1742742
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	09/19/2021 17:07	WG1742742
Tetrachloroethene	U		0.000300	0.00100	1	09/19/2021 17:07	WG1742742
Toluene	U		0.000278	0.00100	1	09/19/2021 17:07	WG1742742
1,1,1-Trichloroethane	U		0.000149	0.00100	1	09/19/2021 17:07	WG1742742
1,1,2-Trichloroethane	U		0.000158	0.00100	1	09/19/2021 17:07	WG1742742
Trichloroethene	U		0.000190	0.00100	1	09/19/2021 17:07	WG1742742
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/19/2021 17:07	WG1742742
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/19/2021 17:07	WG1742742
Vinyl chloride	U		0.000234	0.00100	1	09/19/2021 17:07	WG1742742
o-Xylene	U		0.000174	0.00100	1	09/19/2021 17:07	WG1742742
m&p-Xylene	U		0.000430	0.00200	1	09/19/2021 17:07	WG1742742
Xylenes, Total	U		0.000174	0.00300	1	09/19/2021 17:07	WG1742742
(S) Toluene-d8	*99.4*			*80.0-120*		*09/19/2021 17:07*	WG1742742
(S) 4-Bromofluorobenzene	*96.2*			*77.0-126*		*09/19/2021 17:07*	WG1742742
(S) 1,2-Dichloroethane-d4	*95.1*			*70.0-130*		*09/19/2021 17:07*	WG1742742

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0993	J	0.0247	0.100	1	09/29/2021 19:30	WG1745180
(S) o-Terphenyl	*81.6*			*31.0-160*		*09/29/2021 19:30*	WG1745180

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	11.0		10.0	1	09/21/2021 16:36	WG1743658

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	U		0.379	1.00	1	09/22/2021 07:07	WG1743971
Fluoride	U		0.0640	0.150	1	09/22/2021 07:07	WG1743971
Sulfate	U		0.594	5.00	1	09/22/2021 07:07	WG1743971

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	U		0.000180	0.00200	1	09/22/2021 23:46	WG1742034
Barium	0.000576	J	0.000381	0.00200	1	09/22/2021 23:46	WG1742034
Chromium	U		0.00124	0.00200	1	09/22/2021 23:46	WG1742034
Iron	U		0.0281	0.100	1	09/22/2021 23:46	WG1742034
Lead	U		0.000849	0.00200	1	09/22/2021 23:46	WG1742034
Manganese	U		0.000704	0.00500	1	09/22/2021 23:46	WG1742034
Selenium	U		0.000300	0.00200	1	09/22/2021 23:46	WG1742034

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	09/24/2021 02:30	WG1744965
(S) a,a,a-Trifluorotoluene(FID)	*112*			*78.0-120*		*09/24/2021 02:30*	WG1744965

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0113	0.0500	1	09/19/2021 17:28	WG1742742
Benzene	U		0.0000941	0.00100	1	09/19/2021 17:28	WG1742742
Bromodichloromethane	U		0.000136	0.00100	1	09/19/2021 17:28	WG1742742
Bromoform	U		0.000129	0.00100	1	09/19/2021 17:28	WG1742742
Bromomethane	U		0.000605	0.00500	1	09/19/2021 17:28	WG1742742
n-Butylbenzene	U		0.000157	0.00100	1	09/19/2021 17:28	WG1742742
sec-Butylbenzene	U		0.000125	0.00100	1	09/19/2021 17:28	WG1742742
Carbon disulfide	U		0.0000962	0.00100	1	09/19/2021 17:28	WG1742742
Carbon tetrachloride	U		0.000128	0.00100	1	09/19/2021 17:28	WG1742742
Chlorobenzene	U		0.000116	0.00100	1	09/19/2021 17:28	WG1742742
Chlorodibromomethane	U		0.000140	0.00100	1	09/19/2021 17:28	WG1742742
Chloroethane	U		0.000192	0.00500	1	09/19/2021 17:28	WG1742742
Chloroform	U		0.000111	0.00500	1	09/19/2021 17:28	WG1742742
Chloromethane	U		0.000960	0.00250	1	09/19/2021 17:28	WG1742742
1,2-Dibromoethane	U		0.000126	0.00100	1	09/19/2021 17:28	WG1742742
1,1-Dichloroethane	U		0.000100	0.00100	1	09/19/2021 17:28	WG1742742
1,2-Dichloroethane	U		0.0000819	0.00100	1	09/19/2021 17:28	WG1742742
1,1-Dichloroethene	U		0.000188	0.00100	1	09/19/2021 17:28	WG1742742
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	09/19/2021 17:28	WG1742742
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	09/19/2021 17:28	WG1742742
1,2-Dichloropropane	U		0.000149	0.00100	1	09/19/2021 17:28	WG1742742
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	09/19/2021 17:28	WG1742742
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	09/19/2021 17:28	WG1742742
Ethylbenzene	U		0.000137	0.00100	1	09/19/2021 17:28	WG1742742

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Isopropylbenzene	U		0.000105	0.00100	1	09/19/2021 17:28	WG1742742
p-Isopropyltoluene	U		0.000120	0.00100	1	09/19/2021 17:28	WG1742742
2-Butanone (MEK)	U		0.00119	0.0100	1	09/19/2021 17:28	WG1742742
2-Hexanone	U		0.000787	0.0100	1	09/19/2021 17:28	WG1742742
Methylene Chloride	U		0.000430	0.00500	1	09/19/2021 17:28	WG1742742
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	09/19/2021 17:28	WG1742742
Methyl tert-butyl ether	U		0.000101	0.00100	1	09/19/2021 17:28	WG1742742
Naphthalene	U		0.00100	0.00500	1	09/19/2021 17:28	WG1742742
n-Propylbenzene	U		0.0000993	0.00100	1	09/19/2021 17:28	WG1742742
Styrene	U		0.000118	0.00100	1	09/19/2021 17:28	WG1742742
tert-Butyl alcohol	U		0.00406	0.00500	1	09/19/2021 17:28	WG1742742
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	09/19/2021 17:28	WG1742742
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	09/19/2021 17:28	WG1742742
Tetrachloroethene	U		0.000300	0.00100	1	09/19/2021 17:28	WG1742742
Toluene	U		0.000278	0.00100	1	09/19/2021 17:28	WG1742742
1,1,1-Trichloroethane	U		0.000149	0.00100	1	09/19/2021 17:28	WG1742742
1,1,2-Trichloroethane	U		0.000158	0.00100	1	09/19/2021 17:28	WG1742742
Trichloroethene	U		0.000190	0.00100	1	09/19/2021 17:28	WG1742742
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/19/2021 17:28	WG1742742
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/19/2021 17:28	WG1742742
Vinyl chloride	U		0.000234	0.00100	1	09/19/2021 17:28	WG1742742
o-Xylene	U		0.000174	0.00100	1	09/19/2021 17:28	WG1742742
m&p-Xylene	U		0.000430	0.00200	1	09/19/2021 17:28	WG1742742
Xylenes, Total	U		0.000174	0.00300	1	09/19/2021 17:28	WG1742742
(S) Toluene-d8	*104*			*80.0-120*		*09/19/2021 17:28*	WG1742742
(S) 4-Bromofluorobenzene	*107*			*77.0-126*		*09/19/2021 17:28*	WG1742742
(S) 1,2-Dichloroethane-d4	*95.8*			*70.0-130*		*09/19/2021 17:28*	WG1742742

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0677	J	0.0247	0.100	1	09/29/2021 19:56	WG1745180
(S) o-Terphenyl	*70.5*			*31.0-160*		*09/29/2021 19:56*	WG1745180

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	09/19/2021 16:26	WG1742742
Benzene	U		0.0000941	0.00100	1	09/19/2021 16:26	WG1742742
Bromodichloromethane	U		0.000136	0.00100	1	09/19/2021 16:26	WG1742742
Bromoform	U		0.000129	0.00100	1	09/19/2021 16:26	WG1742742
Bromomethane	U		0.000605	0.00500	1	09/19/2021 16:26	WG1742742
n-Butylbenzene	U		0.000157	0.00100	1	09/19/2021 16:26	WG1742742
sec-Butylbenzene	U		0.000125	0.00100	1	09/19/2021 16:26	WG1742742
Carbon disulfide	U		0.0000962	0.00100	1	09/19/2021 16:26	WG1742742
Carbon tetrachloride	U		0.000128	0.00100	1	09/19/2021 16:26	WG1742742
Chlorobenzene	U		0.000116	0.00100	1	09/19/2021 16:26	WG1742742
Chlorodibromomethane	U		0.000140	0.00100	1	09/19/2021 16:26	WG1742742
Chloroethane	U		0.000192	0.00500	1	09/19/2021 16:26	WG1742742
Chloroform	U		0.000111	0.00500	1	09/19/2021 16:26	WG1742742
Chloromethane	U		0.000960	0.00250	1	09/19/2021 16:26	WG1742742
1,2-Dibromoethane	U		0.000126	0.00100	1	09/19/2021 16:26	WG1742742
1,1-Dichloroethane	U		0.000100	0.00100	1	09/19/2021 16:26	WG1742742
1,2-Dichloroethane	U		0.0000819	0.00100	1	09/19/2021 16:26	WG1742742
1,1-Dichloroethene	U		0.000188	0.00100	1	09/19/2021 16:26	WG1742742
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	09/19/2021 16:26	WG1742742
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	09/19/2021 16:26	WG1742742
1,2-Dichloropropane	U		0.000149	0.00100	1	09/19/2021 16:26	WG1742742
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	09/19/2021 16:26	WG1742742
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	09/19/2021 16:26	WG1742742
Ethylbenzene	U		0.000137	0.00100	1	09/19/2021 16:26	WG1742742
Isopropylbenzene	U		0.000105	0.00100	1	09/19/2021 16:26	WG1742742
p-Isopropyltoluene	U		0.000120	0.00100	1	09/19/2021 16:26	WG1742742
2-Butanone (MEK)	U		0.00119	0.0100	1	09/19/2021 16:26	WG1742742
2-Hexanone	U		0.000787	0.0100	1	09/19/2021 16:26	WG1742742
Methylene Chloride	U		0.000430	0.00500	1	09/19/2021 16:26	WG1742742
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	09/19/2021 16:26	WG1742742
Methyl tert-butyl ether	U		0.000101	0.00100	1	09/19/2021 16:26	WG1742742
Naphthalene	U		0.00100	0.00500	1	09/19/2021 16:26	WG1742742
n-Propylbenzene	U		0.0000993	0.00100	1	09/19/2021 16:26	WG1742742
Styrene	U		0.000118	0.00100	1	09/19/2021 16:26	WG1742742
tert-Butyl alcohol	U		0.00406	0.00500	1	09/19/2021 16:26	WG1742742
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	09/19/2021 16:26	WG1742742
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	09/19/2021 16:26	WG1742742
Tetrachloroethene	U		0.000300	0.00100	1	09/19/2021 16:26	WG1742742
Toluene	U		0.000278	0.00100	1	09/19/2021 16:26	WG1742742
1,1,1-Trichloroethane	U		0.000149	0.00100	1	09/19/2021 16:26	WG1742742
1,1,2-Trichloroethane	U		0.000158	0.00100	1	09/19/2021 16:26	WG1742742
Trichloroethene	U		0.000190	0.00100	1	09/19/2021 16:26	WG1742742
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/19/2021 16:26	WG1742742
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/19/2021 16:26	WG1742742
Vinyl chloride	U		0.000234	0.00100	1	09/19/2021 16:26	WG1742742
o-Xylene	U		0.000174	0.00100	1	09/19/2021 16:26	WG1742742
m&p-Xylene	U		0.000430	0.00200	1	09/19/2021 16:26	WG1742742
Xylenes, Total	U		0.000174	0.00300	1	09/19/2021 16:26	WG1742742
(S) Toluene-d8	*96.6*			*80.0-120*		*09/19/2021 16:26*	WG1742742
(S) 4-Bromofluorobenzene	*94.4*			*77.0-126*		*09/19/2021 16:26*	WG1742742
(S) 1,2-Dichloroethane-d4	*94.6*			*70.0-130*		*09/19/2021 16:26*	WG1742742

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1270		20.0	1	09/22/2021 16:04	WG1744419

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		2.50	5.00	50	09/23/2021 17:28	WG1745434

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	195		1.90	5.00	5	09/22/2021 18:00	WG1743971
Fluoride	0.918		0.0640	0.150	1	09/22/2021 07:56	WG1743971
Sulfate	200		2.97	25.0	5	09/22/2021 18:00	WG1743971

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00301		0.000180	0.00200	1	09/23/2021 02:31	WG1742035
Barium	0.0949		0.000381	0.00200	1	09/23/2021 02:31	WG1742035
Calcium	173		0.0936	1.00	1	09/23/2021 02:31	WG1742035
Chromium	U		0.00124	0.00200	1	09/23/2021 02:31	WG1742035
Iron	0.182		0.0281	0.100	1	09/23/2021 02:31	WG1742035
Lead	U		0.000849	0.00200	1	09/23/2021 02:31	WG1742035
Manganese	0.651		0.000704	0.00500	1	09/23/2021 02:31	WG1742035
Potassium	0.934	J	0.108	2.00	1	09/23/2021 02:31	WG1742035
Selenium	U		0.000300	0.00200	1	09/23/2021 02:31	WG1742035
Sodium	138		0.376	2.00	1	09/23/2021 02:31	WG1742035

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	2.07		0.0314	0.100	1	09/24/2021 02:51	WG1744965
(S) a,a,a-Trifluorotoluene(FID)	*99.1*			*78.0-120*		*09/24/2021 02:51*	WG1744965

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	09/19/2021 17:48	WG1742742
Benzene	0.687		0.00188	0.0200	20	09/28/2021 02:31	WG1747420
Bromodichloromethane	U		0.000136	0.00100	1	09/19/2021 17:48	WG1742742
Bromoform	U		0.000129	0.00100	1	09/19/2021 17:48	WG1742742
Bromomethane	U		0.000605	0.00500	1	09/19/2021 17:48	WG1742742
n-Butylbenzene	0.00109		0.000157	0.00100	1	09/19/2021 17:48	WG1742742
sec-Butylbenzene	0.00356		0.000125	0.00100	1	09/19/2021 17:48	WG1742742
Carbon disulfide	U		0.0000962	0.00100	1	09/19/2021 17:48	WG1742742
Carbon tetrachloride	U		0.000128	0.00100	1	09/19/2021 17:48	WG1742742
Chlorobenzene	U		0.000116	0.00100	1	09/19/2021 17:48	WG1742742
Chlorodibromomethane	U		0.000140	0.00100	1	09/19/2021 17:48	WG1742742
Chloroethane	U		0.000192	0.00500	1	09/19/2021 17:48	WG1742742
Chloroform	U		0.000111	0.00500	1	09/19/2021 17:48	WG1742742
Chloromethane	U		0.000960	0.00250	1	09/19/2021 17:48	WG1742742
1,2-Dibromoethane	U		0.000126	0.00100	1	09/19/2021 17:48	WG1742742
1,1-Dichloroethane	U		0.000100	0.00100	1	09/19/2021 17:48	WG1742742

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.0000819	0.00100	1	09/19/2021 17:48	WG1742742
1,1-Dichloroethene	U		0.000188	0.00100	1	09/19/2021 17:48	WG1742742
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	09/19/2021 17:48	WG1742742
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	09/19/2021 17:48	WG1742742
1,2-Dichloropropane	U		0.000149	0.00100	1	09/19/2021 17:48	WG1742742
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	09/19/2021 17:48	WG1742742
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	09/19/2021 17:48	WG1742742
Ethylbenzene	0.00801		0.000137	0.00100	1	09/19/2021 17:48	WG1742742
Isopropylbenzene	0.0149		0.000105	0.00100	1	09/19/2021 17:48	WG1742742
p-Isopropyltoluene	0.000597	J	0.000120	0.00100	1	09/19/2021 17:48	WG1742742
2-Butanone (MEK)	U		0.00119	0.0100	1	09/19/2021 17:48	WG1742742
2-Hexanone	U		0.000787	0.0100	1	09/19/2021 17:48	WG1742742
Methylene Chloride	U		0.000430	0.00500	1	09/19/2021 17:48	WG1742742
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	09/19/2021 17:48	WG1742742
Methyl tert-butyl ether	0.0635		0.000101	0.00100	1	09/19/2021 17:48	WG1742742
Naphthalene	0.00215	J	0.00100	0.00500	1	09/19/2021 17:48	WG1742742
n-Propylbenzene	0.0140		0.0000993	0.00100	1	09/19/2021 17:48	WG1742742
Styrene	U		0.000118	0.00100	1	09/19/2021 17:48	WG1742742
tert-Butyl alcohol	0.108		0.00406	0.00500	1	09/19/2021 17:48	WG1742742
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	09/19/2021 17:48	WG1742742
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	09/19/2021 17:48	WG1742742
Tetrachloroethene	U		0.000300	0.00100	1	09/19/2021 17:48	WG1742742
Toluene	0.00279		0.000278	0.00100	1	09/19/2021 17:48	WG1742742
1,1,1-Trichloroethane	U		0.000149	0.00100	1	09/19/2021 17:48	WG1742742
1,1,2-Trichloroethane	U		0.000158	0.00100	1	09/19/2021 17:48	WG1742742
Trichloroethene	U		0.000190	0.00100	1	09/19/2021 17:48	WG1742742
1,2,4-Trimethylbenzene	0.00172		0.000322	0.00100	1	09/19/2021 17:48	WG1742742
1,3,5-Trimethylbenzene	0.000333	J	0.000104	0.00100	1	09/19/2021 17:48	WG1742742
Vinyl chloride	U		0.000234	0.00100	1	09/19/2021 17:48	WG1742742
o-Xylene	0.000274	J	0.000174	0.00100	1	09/19/2021 17:48	WG1742742
m&p-Xylene	0.00348		0.000430	0.00200	1	09/19/2021 17:48	WG1742742
Xylenes, Total	0.00375		0.000174	0.00300	1	09/19/2021 17:48	WG1742742
(S) Toluene-d8	*88.4*			*80.0-120*		*09/19/2021 17:48*	WG1742742
(S) Toluene-d8	*103*			*80.0-120*		*09/28/2021 02:31*	WG1747420
(S) 4-Bromofluorobenzene	*87.6*			*77.0-126*		*09/19/2021 17:48*	WG1742742
(S) 4-Bromofluorobenzene	*98.1*			*77.0-126*		*09/28/2021 02:31*	WG1747420
(S) 1,2-Dichloroethane-d4	*93.9*			*70.0-130*		*09/19/2021 17:48*	WG1742742
(S) 1,2-Dichloroethane-d4	*93.1*			*70.0-130*		*09/28/2021 02:31*	WG1747420

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	6.14		0.247	1.00	10	09/30/2021 14:20	WG1746820
(S) o-Terphenyl	*101*			*31.0-160*		*09/30/2021 14:20*	WG1746820

Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	0.000575		0.0000447	0.000400	1	09/20/2021 23:48	WG1742899
(S) Nitrobenzene-d5	*59.2*			*10.0-120*		*09/20/2021 23:48*	WG1742899

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2040		50.0	1	09/21/2021 14:21	WG1743639

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		2.50	5.00	50	09/23/2021 17:29	WG1745434

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	312		19.0	50.0	50	09/22/2021 18:16	WG1743971
Fluoride	0.933		0.0640	0.150	1	09/22/2021 09:02	WG1743971
Sulfate	327		29.7	250	50	09/22/2021 18:16	WG1743971

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00312		0.000180	0.00200	1	09/23/2021 02:34	WG1742035
Barium	0.0629		0.000381	0.00200	1	09/23/2021 02:34	WG1742035
Calcium	225		0.0936	1.00	1	09/23/2021 02:34	WG1742035
Chromium	U		0.00124	0.00200	1	09/23/2021 02:34	WG1742035
Iron	0.0379	J	0.0281	0.100	1	09/23/2021 02:34	WG1742035
Lead	0.00372		0.000849	0.00200	1	09/23/2021 02:34	WG1742035
Manganese	0.0182		0.000704	0.00500	1	09/23/2021 02:34	WG1742035
Potassium	0.635	J	0.108	2.00	1	09/23/2021 02:34	WG1742035
Selenium	0.000341	J	0.000300	0.00200	1	09/23/2021 02:34	WG1742035
Sodium	231		0.376	2.00	1	09/23/2021 02:34	WG1742035

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	11.2		0.628	2.00	20	09/28/2021 05:50	WG1747485
(S) a,a,a-Trifluorotoluene(FID)	*93.6*			*78.0-120*		*09/28/2021 05:50*	WG1747485

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.565	2.50	50	09/28/2021 02:51	WG1747420
Benzene	1.62		0.00471	0.0500	50	09/28/2021 02:51	WG1747420
Bromodichloromethane	U		0.00680	0.0500	50	09/28/2021 02:51	WG1747420
Bromoform	U		0.00645	0.0500	50	09/28/2021 02:51	WG1747420
Bromomethane	U		0.0303	0.250	50	09/28/2021 02:51	WG1747420
n-Butylbenzene	U		0.00785	0.0500	50	09/28/2021 02:51	WG1747420
sec-Butylbenzene	0.0138	J	0.00625	0.0500	50	09/28/2021 02:51	WG1747420
Carbon disulfide	U		0.00481	0.0500	50	09/28/2021 02:51	WG1747420
Carbon tetrachloride	U		0.00640	0.0500	50	09/28/2021 02:51	WG1747420
Chlorobenzene	U		0.00580	0.0500	50	09/28/2021 02:51	WG1747420
Chlorodibromomethane	U		0.00700	0.0500	50	09/28/2021 02:51	WG1747420
Chloroethane	U		0.00960	0.250	50	09/28/2021 02:51	WG1747420
Chloroform	U		0.00555	0.250	50	09/28/2021 02:51	WG1747420
Chloromethane	U		0.0480	0.125	50	09/28/2021 02:51	WG1747420
1,2-Dibromoethane	U		0.00630	0.0500	50	09/28/2021 02:51	WG1747420
1,1-Dichloroethane	U		0.00500	0.0500	50	09/28/2021 02:51	WG1747420

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.00409	0.0500	50	09/28/2021 02:51	WG1747420
1,1-Dichloroethene	U		0.00940	0.0500	50	09/28/2021 02:51	WG1747420
cis-1,2-Dichloroethene	U		0.00630	0.0500	50	09/28/2021 02:51	WG1747420
trans-1,2-Dichloroethene	U		0.00745	0.0500	50	09/28/2021 02:51	WG1747420
1,2-Dichloropropane	U		0.00745	0.0500	50	09/28/2021 02:51	WG1747420
cis-1,3-Dichloropropene	U		0.00555	0.0500	50	09/28/2021 02:51	WG1747420
trans-1,3-Dichloropropene	U		0.00590	0.0500	50	09/28/2021 02:51	WG1747420
Ethylbenzene	0.110		0.00685	0.0500	50	09/28/2021 02:51	WG1747420
Isopropylbenzene	0.102		0.00525	0.0500	50	09/28/2021 02:51	WG1747420
p-Isopropyltoluene	0.00703	J	0.00600	0.0500	50	09/28/2021 02:51	WG1747420
2-Butanone (MEK)	U		0.0595	0.500	50	09/28/2021 02:51	WG1747420
2-Hexanone	U		0.0394	0.500	50	09/28/2021 02:51	WG1747420
Methylene Chloride	U		0.0215	0.250	50	09/28/2021 02:51	WG1747420
4-Methyl-2-pentanone (MIBK)	U		0.0239	0.500	50	09/28/2021 02:51	WG1747420
Methyl tert-butyl ether	0.0286	J	0.00505	0.0500	50	09/28/2021 02:51	WG1747420
Naphthalene	0.190	J	0.0500	0.250	50	09/28/2021 02:51	WG1747420
n-Propylbenzene	0.115		0.00497	0.0500	50	09/28/2021 02:51	WG1747420
Styrene	U		0.00590	0.0500	50	09/28/2021 02:51	WG1747420
tert-Butyl alcohol	U		0.203	0.250	50	09/28/2021 02:51	WG1747420
1,1,1,2-Tetrachloroethane	U		0.00735	0.0500	50	09/28/2021 02:51	WG1747420
1,1,2,2-Tetrachloroethane	U		0.00665	0.0500	50	09/28/2021 02:51	WG1747420
Tetrachloroethene	U		0.0150	0.0500	50	09/28/2021 02:51	WG1747420
Toluene	0.180		0.0139	0.0500	50	09/28/2021 02:51	WG1747420
1,1,1-Trichloroethane	U		0.00745	0.0500	50	09/28/2021 02:51	WG1747420
1,1,2-Trichloroethane	U		0.00790	0.0500	50	09/28/2021 02:51	WG1747420
Trichloroethene	U		0.00950	0.0500	50	09/28/2021 02:51	WG1747420
1,2,4-Trimethylbenzene	0.261		0.0161	0.0500	50	09/28/2021 02:51	WG1747420
1,3,5-Trimethylbenzene	0.0325	J	0.00520	0.0500	50	09/28/2021 02:51	WG1747420
Vinyl chloride	U		0.0117	0.0500	50	09/28/2021 02:51	WG1747420
o-Xylene	U		0.00870	0.0500	50	09/28/2021 02:51	WG1747420
m&p-Xylene	0.789		0.0215	0.100	50	09/28/2021 02:51	WG1747420
Xylenes, Total	0.789		0.00870	0.150	50	09/28/2021 02:51	WG1747420
(S) Toluene-d8	*106*			*80.0-120*		*09/28/2021 02:51*	WG1747420
(S) 4-Bromofluorobenzene	*104*			*77.0-126*		*09/28/2021 02:51*	WG1747420
(S) 1,2-Dichloroethane-d4	*91.3*			*70.0-130*		*09/28/2021 02:51*	WG1747420

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	6.38		0.0247	0.100	1	09/29/2021 20:22	WG1745180
(S) o-Terphenyl	*92.1*			*31.0-160*		*09/29/2021 20:22*	WG1745180

Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	U		0.0000447	0.000400	1	09/21/2021 00:08	WG1742899
(S) Nitrobenzene-d5	*61.0*			*10.0-120*		*09/21/2021 00:08*	WG1742899

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acenaphthene	0.000700	J	0.0000886	0.00100	1	09/21/2021 02:39	WG1743177
Acenaphthylene	U		0.0000921	0.00100	1	09/21/2021 02:39	WG1743177
Acetophenone	U		0.000208	0.0100	1	09/21/2021 02:39	WG1743177
Anthracene	U		0.0000804	0.00100	1	09/21/2021 02:39	WG1743177

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Atrazine	U		0.000255	0.0100	1	09/21/2021 02:39	WG1743177
Benzo(a)anthracene	U		0.000199	0.00100	1	09/21/2021 02:39	WG1743177
Benzaldehyde	U	J4	0.00169	0.0100	1	09/21/2021 02:39	WG1743177
Benzo(b)fluoranthene	U		0.000130	0.00100	1	09/21/2021 02:39	WG1743177
Benzo(k)fluoranthene	U		0.000120	0.00100	1	09/21/2021 02:39	WG1743177
Benzo(g,h,i)perylene	U		0.000121	0.00100	1	09/21/2021 02:39	WG1743177
Benzo(a)pyrene	U		0.0000381	0.000200	1	09/21/2021 02:39	WG1743177
Biphenyl	0.00362	J	0.000790	0.0100	1	09/21/2021 02:39	WG1743177
Bis(2-chlorethoxy)methane	U		0.000116	0.0100	1	09/21/2021 02:39	WG1743177
Bis(2-chloroethyl)ether	U		0.000137	0.0100	1	09/21/2021 02:39	WG1743177
2,2-Oxybis(1-Chloropropane)	U		0.000210	0.0100	1	09/21/2021 02:39	WG1743177
4-Bromophenyl-phenylether	U		0.0000877	0.0100	1	09/21/2021 02:39	WG1743177
2-Chloronaphthalene	U		0.0000648	0.00100	1	09/21/2021 02:39	WG1743177
4-Chlorophenyl-phenylether	U		0.0000926	0.0100	1	09/21/2021 02:39	WG1743177
Caprolactam	U		0.000309	0.0100	1	09/21/2021 02:39	WG1743177
Carbazole	0.00145	J	0.000111	0.0100	1	09/21/2021 02:39	WG1743177
Chrysene	U		0.000130	0.00100	1	09/21/2021 02:39	WG1743177
Dibenz(a,h)anthracene	U		0.0000644	0.000200	1	09/21/2021 02:39	WG1743177
Dibenzofuran	0.00276	J	0.0000970	0.0100	1	09/21/2021 02:39	WG1743177
3,3-Dichlorobenzidine	U		0.000212	0.0100	1	09/21/2021 02:39	WG1743177
2,4-Dinitrotoluene	U		0.0000983	0.0100	1	09/21/2021 02:39	WG1743177
2,6-Dinitrotoluene	U		0.000250	0.0100	1	09/21/2021 02:39	WG1743177
Fluoranthene	U		0.000102	0.00100	1	09/21/2021 02:39	WG1743177
Fluorene	0.00187		0.0000844	0.00100	1	09/21/2021 02:39	WG1743177
Hexachlorobenzene	U		0.0000755	0.00100	1	09/21/2021 02:39	WG1743177
Hexachloro-1,3-butadiene	U		0.0000968	0.0100	1	09/21/2021 02:39	WG1743177
Hexachlorocyclopentadiene	U		0.0000598	0.0100	1	09/21/2021 02:39	WG1743177
Hexachloroethane	U		0.000127	0.0100	1	09/21/2021 02:39	WG1743177
Indeno(1,2,3-cd)pyrene	U		0.000279	0.00100	1	09/21/2021 02:39	WG1743177
Isophorone	U		0.000143	0.0100	1	09/21/2021 02:39	WG1743177
1-Methylnaphthalene	0.0631		0.0000790	0.00100	1	09/21/2021 02:39	WG1743177
2-Methylnaphthalene	0.0245		0.000117	0.00100	1	09/21/2021 02:39	WG1743177
Naphthalene	0.0894		0.000159	0.00100	1	09/21/2021 02:39	WG1743177
Nitrobenzene	U		0.000297	0.0100	1	09/21/2021 02:39	WG1743177
n-Nitrosodiphenylamine	U		0.00237	0.0100	1	09/21/2021 02:39	WG1743177
n-Nitrosodi-n-propylamine	U		0.000261	0.0100	1	09/21/2021 02:39	WG1743177
Phenanthrene	0.00132		0.000112	0.00100	1	09/21/2021 02:39	WG1743177
Benzylbutyl phthalate	U		0.000765	0.00300	1	09/21/2021 02:39	WG1743177
Bis(2-ethylhexyl)phthalate	0.00884		0.000895	0.00300	1	09/21/2021 02:39	WG1743177
Di-n-butyl phthalate	U		0.000453	0.00300	1	09/21/2021 02:39	WG1743177
Diethyl phthalate	U		0.000287	0.00300	1	09/21/2021 02:39	WG1743177
Dimethyl phthalate	U		0.000260	0.00300	1	09/21/2021 02:39	WG1743177
Di-n-octyl phthalate	U		0.000932	0.00300	1	09/21/2021 02:39	WG1743177
Pyrene	U		0.000107	0.00100	1	09/21/2021 02:39	WG1743177
1,2,4-Trichlorobenzene	U		0.0000698	0.0100	1	09/21/2021 02:39	WG1743177
4-Chloro-3-methylphenol	U		0.000131	0.0100	1	09/21/2021 02:39	WG1743177
2-Chlorophenol	U		0.000133	0.0100	1	09/21/2021 02:39	WG1743177
2,4-Dichlorophenol	U		0.000102	0.0100	1	09/21/2021 02:39	WG1743177
2,4-Dimethylphenol	U		0.0000636	0.0100	1	09/21/2021 02:39	WG1743177
4,6-Dinitro-2-methylphenol	U		0.00112	0.0100	1	09/21/2021 02:39	WG1743177
2,4-Dinitrophenol	U		0.00593	0.0100	1	09/21/2021 02:39	WG1743177
2-Nitrophenol	U		0.000117	0.0100	1	09/21/2021 02:39	WG1743177
2-Nitroaniline	U		0.000102	0.0100	1	09/21/2021 02:39	WG1743177
2-Methylphenol	U		0.0000929	0.0100	1	09/21/2021 02:39	WG1743177
3&4-Methyl Phenol	U		0.000168	0.0100	1	09/21/2021 02:39	WG1743177
3-Nitroaniline	U		0.0000869	0.0100	1	09/21/2021 02:39	WG1743177

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
4-Chloroaniline	U		0.000234	0.0100	1	09/21/2021 02:39	WG1743177
4-Nitroaniline	U		0.0000910	0.0100	1	09/21/2021 02:39	WG1743177
4-Nitrophenol	U		0.000143	0.0100	1	09/21/2021 02:39	WG1743177
Pentachlorophenol	U		0.000313	0.0100	1	09/21/2021 02:39	WG1743177
Phenol	U		0.00433	0.0100	1	09/21/2021 02:39	WG1743177
2,4,5-Trichlorophenol	U		0.000109	0.0100	1	09/21/2021 02:39	WG1743177
2,4,6-Trichlorophenol	U		0.000100	0.0100	1	09/21/2021 02:39	WG1743177
(S) 2-Fluorophenol	*27.4*			*10.0-120*		*09/21/2021 02:39*	WG1743177
(S) Phenol-d5	*18.8*			*10.0-120*		*09/21/2021 02:39*	WG1743177
(S) Nitrobenzene-d5	*41.1*			*10.0-127*		*09/21/2021 02:39*	WG1743177
(S) 2-Fluorobiphenyl	*47.1*			*10.0-130*		*09/21/2021 02:39*	WG1743177
(S) 2,4,6-Tribromophenol	*65.2*			*10.0-155*		*09/21/2021 02:39*	WG1743177
(S) p-Terphenyl-d14	*60.0*			*10.0-128*		*09/21/2021 02:39*	WG1743177

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2750		50.0	1	09/21/2021 14:21	WG1743639

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		2.50	5.00	50	09/23/2021 17:31	WG1745434

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	386		3.79	10.0	10	09/22/2021 18:32	WG1743971
Fluoride	1.03		0.0640	0.150	1	09/22/2021 09:34	WG1743971
Sulfate	703		5.94	50.0	10	09/22/2021 18:32	WG1743971

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0901		0.000180	0.00200	1	09/23/2021 02:38	WG1742035
Barium	0.0578		0.000381	0.00200	1	09/23/2021 02:38	WG1742035
Calcium	376		0.0936	1.00	1	09/23/2021 02:38	WG1742035
Chromium	U		0.00124	0.00200	1	09/23/2021 02:38	WG1742035
Iron	U		0.0281	0.100	1	09/23/2021 02:38	WG1742035
Lead	U		0.000849	0.00200	1	09/23/2021 02:38	WG1742035
Manganese	0.00840		0.000704	0.00500	1	09/23/2021 02:38	WG1742035
Potassium	1.07	J	0.108	2.00	1	09/23/2021 02:38	WG1742035
Selenium	U		0.000300	0.00200	1	09/23/2021 02:38	WG1742035
Sodium	225		0.376	2.00	1	09/23/2021 02:38	WG1742035

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	21.8		3.14	10.0	100	09/24/2021 07:28	WG1744965
(S) a,a,a-Trifluorotoluene(FID)	*110*			*78.0-120*		*09/24/2021 07:28*	WG1744965

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.565	2.50	50	09/19/2021 21:54	WG1742742
Benzene	2.11		0.00471	0.0500	50	09/19/2021 21:54	WG1742742
Bromodichloromethane	U		0.00680	0.0500	50	09/19/2021 21:54	WG1742742
Bromoform	U		0.00645	0.0500	50	09/19/2021 21:54	WG1742742
Bromomethane	U		0.0303	0.250	50	09/19/2021 21:54	WG1742742
n-Butylbenzene	0.0173	J	0.00785	0.0500	50	09/19/2021 21:54	WG1742742
sec-Butylbenzene	0.0353	J	0.00625	0.0500	50	09/19/2021 21:54	WG1742742
Carbon disulfide	U		0.00481	0.0500	50	09/19/2021 21:54	WG1742742
Carbon tetrachloride	U		0.00640	0.0500	50	09/19/2021 21:54	WG1742742
Chlorobenzene	U		0.00580	0.0500	50	09/19/2021 21:54	WG1742742
Chlorodibromomethane	U		0.00700	0.0500	50	09/19/2021 21:54	WG1742742
Chloroethane	U		0.00960	0.250	50	09/19/2021 21:54	WG1742742
Chloroform	U		0.00555	0.250	50	09/19/2021 21:54	WG1742742
Chloromethane	U		0.0480	0.125	50	09/19/2021 21:54	WG1742742
1,2-Dibromoethane	U		0.00630	0.0500	50	09/19/2021 21:54	WG1742742
1,1-Dichloroethane	U		0.00500	0.0500	50	09/19/2021 21:54	WG1742742

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.00409	0.0500	50	09/19/2021 21:54	WG1742742
1,1-Dichloroethene	U		0.00940	0.0500	50	09/19/2021 21:54	WG1742742
cis-1,2-Dichloroethene	U		0.00630	0.0500	50	09/19/2021 21:54	WG1742742
trans-1,2-Dichloroethene	U		0.00745	0.0500	50	09/19/2021 21:54	WG1742742
1,2-Dichloropropane	U		0.00745	0.0500	50	09/19/2021 21:54	WG1742742
cis-1,3-Dichloropropene	U		0.00555	0.0500	50	09/19/2021 21:54	WG1742742
trans-1,3-Dichloropropene	U		0.00590	0.0500	50	09/19/2021 21:54	WG1742742
Ethylbenzene	0.773		0.00685	0.0500	50	09/19/2021 21:54	WG1742742
Isopropylbenzene	0.152		0.00525	0.0500	50	09/19/2021 21:54	WG1742742
p-Isopropyltoluene	0.0371	J	0.00600	0.0500	50	09/19/2021 21:54	WG1742742
2-Butanone (MEK)	U		0.0595	0.500	50	09/19/2021 21:54	WG1742742
2-Hexanone	U		0.0394	0.500	50	09/19/2021 21:54	WG1742742
Methylene Chloride	U		0.0215	0.250	50	09/19/2021 21:54	WG1742742
4-Methyl-2-pentanone (MIBK)	U		0.0239	0.500	50	09/19/2021 21:54	WG1742742
Methyl tert-butyl ether	0.120		0.00505	0.0500	50	09/19/2021 21:54	WG1742742
Naphthalene	0.344		0.0500	0.250	50	09/19/2021 21:54	WG1742742
n-Propylbenzene	0.327		0.00497	0.0500	50	09/19/2021 21:54	WG1742742
Styrene	U		0.00590	0.0500	50	09/19/2021 21:54	WG1742742
tert-Butyl alcohol	U		0.203	0.250	50	09/19/2021 21:54	WG1742742
1,1,1,2-Tetrachloroethane	U		0.00735	0.0500	50	09/19/2021 21:54	WG1742742
1,1,2,2-Tetrachloroethane	U		0.00665	0.0500	50	09/19/2021 21:54	WG1742742
Tetrachloroethene	U		0.0150	0.0500	50	09/19/2021 21:54	WG1742742
Toluene	0.0236	J	0.0139	0.0500	50	09/19/2021 21:54	WG1742742
1,1,1-Trichloroethane	U		0.00745	0.0500	50	09/19/2021 21:54	WG1742742
1,1,2-Trichloroethane	U		0.00790	0.0500	50	09/19/2021 21:54	WG1742742
Trichloroethene	U		0.00950	0.0500	50	09/19/2021 21:54	WG1742742
1,2,4-Trimethylbenzene	1.20		0.0161	0.0500	50	09/19/2021 21:54	WG1742742
1,3,5-Trimethylbenzene	0.204		0.00520	0.0500	50	09/19/2021 21:54	WG1742742
Vinyl chloride	U		0.0117	0.0500	50	09/19/2021 21:54	WG1742742
o-Xylene	0.0261	J	0.00870	0.0500	50	09/19/2021 21:54	WG1742742
m&p-Xylene	2.34		0.0215	0.100	50	09/19/2021 21:54	WG1742742
Xylenes, Total	2.37		0.00870	0.150	50	09/19/2021 21:54	WG1742742
(S) Toluene-d8	*101*			*80.0-120*		*09/19/2021 21:54*	WG1742742
(S) 4-Bromofluorobenzene	*97.8*			*77.0-126*		*09/19/2021 21:54*	WG1742742
(S) 1,2-Dichloroethane-d4	*95.2*			*70.0-130*		*09/19/2021 21:54*	WG1742742

EDB / DBCP by Method 8011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Ethylene Dibromide	U		0.00000536	0.0000200	1	09/21/2021 20:40	WG1743427

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	11.3		0.0494	0.200	2	09/30/2021 11:21	WG1745180
(S) o-Terphenyl	*112*			*31.0-160*		*09/30/2021 11:21*	WG1745180

Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	0.000237	J	0.0000447	0.000400	1	09/21/2021 00:27	WG1742899
(S) Nitrobenzene-d5	*51.0*			*10.0-120*		*09/21/2021 00:27*	WG1742899

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acenaphthene	0.00161	J	0.000443	0.00500	5	09/21/2021 05:11	WG1743177
Acenaphthylene	U		0.000461	0.00500	5	09/21/2021 05:11	WG1743177
Acetophenone	U		0.00104	0.0500	5	09/21/2021 05:11	WG1743177
Anthracene	U		0.000402	0.00500	5	09/21/2021 05:11	WG1743177
Atrazine	U		0.00128	0.0500	5	09/21/2021 05:11	WG1743177
Benzo(a)anthracene	U		0.000995	0.00500	5	09/21/2021 05:11	WG1743177
Benzaldehyde	U	J4	0.00845	0.0500	5	09/21/2021 05:11	WG1743177
Benzo(b)fluoranthene	U		0.000650	0.00500	5	09/21/2021 05:11	WG1743177
Benzo(k)fluoranthene	U		0.000600	0.00500	5	09/21/2021 05:11	WG1743177
Benzo(g,h,i)perylene	U		0.000605	0.00500	5	09/21/2021 05:11	WG1743177
Benzo(a)pyrene	U		0.000191	0.00100	5	09/21/2021 05:11	WG1743177
Biphenyl	0.00677	J	0.00395	0.0500	5	09/21/2021 05:11	WG1743177
Bis(2-chlorethoxy)methane	U		0.000580	0.0500	5	09/21/2021 05:11	WG1743177
Bis(2-chloroethyl)ether	U		0.000685	0.0500	5	09/21/2021 05:11	WG1743177
2,2-Oxybis(1-Chloropropane)	U		0.00105	0.0500	5	09/21/2021 05:11	WG1743177
4-Bromophenyl-phenylether	U		0.000439	0.0500	5	09/21/2021 05:11	WG1743177
2-Chloronaphthalene	U		0.000324	0.00500	5	09/21/2021 05:11	WG1743177
4-Chlorophenyl-phenylether	U		0.000463	0.0500	5	09/21/2021 05:11	WG1743177
Caprolactam	U		0.00154	0.0500	5	09/21/2021 05:11	WG1743177
Carbazole	0.00470	J	0.000555	0.0500	5	09/21/2021 05:11	WG1743177
Chrysene	U		0.000650	0.00500	5	09/21/2021 05:11	WG1743177
Dibenz(a,h)anthracene	U		0.000322	0.00100	5	09/21/2021 05:11	WG1743177
Dibenzofuran	0.00575	J	0.000485	0.0500	5	09/21/2021 05:11	WG1743177
3,3-Dichlorobenzidine	U		0.00106	0.0500	5	09/21/2021 05:11	WG1743177
2,4-Dinitrotoluene	U		0.000491	0.0500	5	09/21/2021 05:11	WG1743177
2,6-Dinitrotoluene	U		0.00125	0.0500	5	09/21/2021 05:11	WG1743177
Fluoranthene	U		0.000510	0.00500	5	09/21/2021 05:11	WG1743177
Fluorene	0.00375	J	0.000422	0.00500	5	09/21/2021 05:11	WG1743177
Hexachlorobenzene	U		0.000378	0.00500	5	09/21/2021 05:11	WG1743177
Hexachloro-1,3-butadiene	U		0.000484	0.0500	5	09/21/2021 05:11	WG1743177
Hexachlorocyclopentadiene	U		0.000299	0.0500	5	09/21/2021 05:11	WG1743177
Hexachloroethane	U		0.000635	0.0500	5	09/21/2021 05:11	WG1743177
Indeno(1,2,3-cd)pyrene	U		0.00140	0.00500	5	09/21/2021 05:11	WG1743177
Isophorone	U		0.000715	0.0500	5	09/21/2021 05:11	WG1743177
1-Methylnaphthalene	0.0984		0.000395	0.00500	5	09/21/2021 05:11	WG1743177
2-Methylnaphthalene	0.0537		0.000585	0.00500	5	09/21/2021 05:11	WG1743177
Naphthalene	0.157		0.000795	0.00500	5	09/21/2021 05:11	WG1743177
Nitrobenzene	U		0.00148	0.0500	5	09/21/2021 05:11	WG1743177
n-Nitrosodiphenylamine	U		0.0119	0.0500	5	09/21/2021 05:11	WG1743177
n-Nitrosodi-n-propylamine	U		0.00131	0.0500	5	09/21/2021 05:11	WG1743177
Phenanthrene	0.00194	J	0.000560	0.00500	5	09/21/2021 05:11	WG1743177
Benzylbutyl phthalate	U		0.00383	0.0150	5	09/21/2021 05:11	WG1743177
Bis(2-ethylhexyl)phthalate	U		0.00448	0.0150	5	09/21/2021 05:11	WG1743177
Di-n-butyl phthalate	U		0.00227	0.0150	5	09/21/2021 05:11	WG1743177
Diethyl phthalate	U		0.00143	0.0150	5	09/21/2021 05:11	WG1743177
Dimethyl phthalate	U		0.00130	0.0150	5	09/21/2021 05:11	WG1743177
Di-n-octyl phthalate	U		0.00466	0.0150	5	09/21/2021 05:11	WG1743177
Pyrene	U		0.000535	0.00500	5	09/21/2021 05:11	WG1743177
1,2,4-Trichlorobenzene	U		0.000349	0.0500	5	09/21/2021 05:11	WG1743177
4-Chloro-3-methylphenol	U		0.000655	0.0500	5	09/21/2021 05:11	WG1743177
2-Chlorophenol	U		0.000665	0.0500	5	09/21/2021 05:11	WG1743177
2,4-Dichlorophenol	U		0.000510	0.0500	5	09/21/2021 05:11	WG1743177
2,4-Dimethylphenol	0.0252	J	0.000318	0.0500	5	09/21/2021 05:11	WG1743177
4,6-Dinitro-2-methylphenol	U		0.00560	0.0500	5	09/21/2021 05:11	WG1743177
2,4-Dinitrophenol	U		0.0297	0.0500	5	09/21/2021 05:11	WG1743177
2-Nitrophenol	U		0.000585	0.0500	5	09/21/2021 05:11	WG1743177

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
2-Nitroaniline	U		0.000510	0.0500	5	09/21/2021 05:11	WG1743177
2-Methylphenol	U		0.000465	0.0500	5	09/21/2021 05:11	WG1743177
3&4-Methyl Phenol	U		0.000840	0.0500	5	09/21/2021 05:11	WG1743177
3-Nitroaniline	U		0.000435	0.0500	5	09/21/2021 05:11	WG1743177
4-Chloroaniline	U		0.00117	0.0500	5	09/21/2021 05:11	WG1743177
4-Nitroaniline	U		0.000455	0.0500	5	09/21/2021 05:11	WG1743177
4-Nitrophenol	U		0.000715	0.0500	5	09/21/2021 05:11	WG1743177
Pentachlorophenol	U		0.00157	0.0500	5	09/21/2021 05:11	WG1743177
Phenol	U		0.0217	0.0500	5	09/21/2021 05:11	WG1743177
2,4,5-Trichlorophenol	U		0.000545	0.0500	5	09/21/2021 05:11	WG1743177
2,4,6-Trichlorophenol	U		0.000500	0.0500	5	09/21/2021 05:11	WG1743177
(S) 2-Fluorophenol	*37.5*			*10.0-120*		*09/21/2021 05:11*	WG1743177
(S) Phenol-d5	*25.9*			*10.0-120*		*09/21/2021 05:11*	WG1743177
(S) Nitrobenzene-d5	*49.2*			*10.0-127*		*09/21/2021 05:11*	WG1743177
(S) 2-Fluorobiphenyl	*69.4*			*10.0-130*		*09/21/2021 05:11*	WG1743177
(S) 2,4,6-Tribromophenol	*80.4*			*10.0-155*		*09/21/2021 05:11*	WG1743177
(S) p-Terphenyl-d14	*76.6*			*10.0-128*		*09/21/2021 05:11*	WG1743177

Sample Narrative:

L1404404-91 WG1743177: Dilution due to matrix.

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4670		50.0	1	09/21/2021 14:21	WG1743639

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.0517	J	0.0500	0.100	1	09/23/2021 17:32	WG1745434

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	316		37.9	100	100	09/22/2021 18:49	WG1743971
Fluoride	0.765		0.0640	0.150	1	09/22/2021 10:07	WG1743971
Sulfate	1990		59.4	500	100	09/22/2021 18:49	WG1743971

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00826		0.000180	0.00200	1	09/23/2021 02:41	WG1742035
Barium	0.0164		0.000381	0.00200	1	09/23/2021 02:41	WG1742035
Calcium	441		0.0936	1.00	1	09/23/2021 02:41	WG1742035
Chromium	0.0655		0.00124	0.00200	1	09/23/2021 02:41	WG1742035
Iron	0.486		0.0281	0.100	1	09/23/2021 02:41	WG1742035
Lead	0.000871	J	0.000849	0.00200	1	09/23/2021 02:41	WG1742035
Manganese	1.68		0.000704	0.00500	1	09/23/2021 02:41	WG1742035
Potassium	0.588	J	0.108	2.00	1	09/23/2021 02:41	WG1742035
Selenium	0.000424	J	0.000300	0.00200	1	09/23/2021 02:41	WG1742035
Sodium	406		0.376	2.00	1	09/23/2021 02:41	WG1742035

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.847		0.0314	0.100	1	09/24/2021 03:13	WG1744965
(S) a,a,a-Trifluorotoluene(FID)	*101*			*78.0-120*		*09/24/2021 03:13*	WG1744965

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	09/19/2021 18:29	WG1742742
Benzene	0.116		0.0000941	0.00100	1	09/19/2021 18:29	WG1742742
Bromodichloromethane	U		0.000136	0.00100	1	09/19/2021 18:29	WG1742742
Bromoform	U		0.000129	0.00100	1	09/19/2021 18:29	WG1742742
Bromomethane	U		0.000605	0.00500	1	09/19/2021 18:29	WG1742742
n-Butylbenzene	0.000327	J	0.000157	0.00100	1	09/19/2021 18:29	WG1742742
sec-Butylbenzene	0.00798		0.000125	0.00100	1	09/19/2021 18:29	WG1742742
Carbon disulfide	U		0.0000962	0.00100	1	09/19/2021 18:29	WG1742742
Carbon tetrachloride	U		0.000128	0.00100	1	09/19/2021 18:29	WG1742742
Chlorobenzene	U		0.000116	0.00100	1	09/19/2021 18:29	WG1742742
Chlorodibromomethane	U		0.000140	0.00100	1	09/19/2021 18:29	WG1742742
Chloroethane	U		0.000192	0.00500	1	09/19/2021 18:29	WG1742742
Chloroform	U		0.000111	0.00500	1	09/19/2021 18:29	WG1742742
Chloromethane	U		0.000960	0.00250	1	09/19/2021 18:29	WG1742742
1,2-Dibromoethane	U		0.000126	0.00100	1	09/19/2021 18:29	WG1742742
1,1-Dichloroethane	U		0.000100	0.00100	1	09/19/2021 18:29	WG1742742

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.0000819	0.00100	1	09/19/2021 18:29	WG1742742
1,1-Dichloroethene	U		0.000188	0.00100	1	09/19/2021 18:29	WG1742742
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	09/19/2021 18:29	WG1742742
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	09/19/2021 18:29	WG1742742
1,2-Dichloropropane	U		0.000149	0.00100	1	09/19/2021 18:29	WG1742742
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	09/19/2021 18:29	WG1742742
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	09/19/2021 18:29	WG1742742
Ethylbenzene	0.000365	J	0.000137	0.00100	1	09/19/2021 18:29	WG1742742
Isopropylbenzene	0.0121		0.000105	0.00100	1	09/19/2021 18:29	WG1742742
p-Isopropyltoluene	0.000135	J	0.000120	0.00100	1	09/19/2021 18:29	WG1742742
2-Butanone (MEK)	U		0.00119	0.0100	1	09/19/2021 18:29	WG1742742
2-Hexanone	U		0.000787	0.0100	1	09/19/2021 18:29	WG1742742
Methylene Chloride	U		0.000430	0.00500	1	09/19/2021 18:29	WG1742742
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	09/19/2021 18:29	WG1742742
Methyl tert-butyl ether	0.0369		0.000101	0.00100	1	09/19/2021 18:29	WG1742742
Naphthalene	0.00140	J	0.00100	0.00500	1	09/19/2021 18:29	WG1742742
n-Propylbenzene	0.00478		0.0000993	0.00100	1	09/19/2021 18:29	WG1742742
Styrene	U		0.000118	0.00100	1	09/19/2021 18:29	WG1742742
tert-Butyl alcohol	0.130		0.00406	0.00500	1	09/19/2021 18:29	WG1742742
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	09/19/2021 18:29	WG1742742
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	09/19/2021 18:29	WG1742742
Tetrachloroethene	U		0.000300	0.00100	1	09/19/2021 18:29	WG1742742
Toluene	0.00113		0.000278	0.00100	1	09/19/2021 18:29	WG1742742
1,1,1-Trichloroethane	U		0.000149	0.00100	1	09/19/2021 18:29	WG1742742
1,1,2-Trichloroethane	U		0.000158	0.00100	1	09/19/2021 18:29	WG1742742
Trichloroethene	U		0.000190	0.00100	1	09/19/2021 18:29	WG1742742
1,2,4-Trimethylbenzene	0.00135		0.000322	0.00100	1	09/19/2021 18:29	WG1742742
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/19/2021 18:29	WG1742742
Vinyl chloride	U		0.000234	0.00100	1	09/19/2021 18:29	WG1742742
o-Xylene	0.000229	J	0.000174	0.00100	1	09/19/2021 18:29	WG1742742
m&p-Xylene	0.00113	J	0.000430	0.00200	1	09/19/2021 18:29	WG1742742
Xylenes, Total	0.00136	J	0.000174	0.00300	1	09/19/2021 18:29	WG1742742
(S) Toluene-d8	*89.3*			*80.0-120*		*09/19/2021 18:29*	WG1742742
(S) 4-Bromofluorobenzene	*85.5*			*77.0-126*		*09/19/2021 18:29*	WG1742742
(S) 1,2-Dichloroethane-d4	*93.3*			*70.0-130*		*09/19/2021 18:29*	WG1742742

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	6.36		0.0247	0.100	1	09/29/2021 21:14	WG1745180
(S) o-Terphenyl	*142*			*31.0-160*		*09/29/2021 21:14*	WG1745180

Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	0.000499		0.0000447	0.000400	1	09/21/2021 00:46	WG1742899
(S) Nitrobenzene-d5	*48.6*			*10.0-120*		*09/21/2021 00:46*	WG1742899

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3220		50.0	1	09/21/2021 14:21	WG1743639

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		2.50	5.00	50	09/23/2021 17:33	WG1745434

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	177		37.9	100	100	09/22/2021 19:05	WG1743971
Fluoride	1.56		0.0640	0.150	1	09/22/2021 10:40	WG1743971
Sulfate	1320		59.4	500	100	09/22/2021 19:05	WG1743971

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.000689	J	0.000180	0.00200	1	09/23/2021 02:44	WG1742035
Barium	0.0171		0.000381	0.00200	1	09/23/2021 02:44	WG1742035
Calcium	510		0.0936	1.00	1	09/23/2021 02:44	WG1742035
Chromium	0.00133	J	0.00124	0.00200	1	09/23/2021 02:44	WG1742035
Iron	0.0339	J	0.0281	0.100	1	09/23/2021 02:44	WG1742035
Lead	0.00671		0.000849	0.00200	1	09/23/2021 02:44	WG1742035
Manganese	0.0192		0.000704	0.00500	1	09/23/2021 02:44	WG1742035
Potassium	0.284	J	0.108	2.00	1	09/23/2021 02:44	WG1742035
Selenium	U		0.000300	0.00200	1	09/23/2021 02:44	WG1742035
Sodium	175		0.376	2.00	1	09/23/2021 02:44	WG1742035

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	14.1		0.628	2.00	20	09/28/2021 06:12	WG1747485
(S) a,a,a-Trifluorotoluene(FID)	*93.3*			*78.0-120*		*09/28/2021 06:12*	WG1747485

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.565	2.50	50	09/28/2021 03:12	WG1747420
Benzene	1.20		0.00471	0.0500	50	09/28/2021 03:12	WG1747420
Bromodichloromethane	U		0.00680	0.0500	50	09/28/2021 03:12	WG1747420
Bromoform	U		0.00645	0.0500	50	09/28/2021 03:12	WG1747420
Bromomethane	U		0.0303	0.250	50	09/28/2021 03:12	WG1747420
n-Butylbenzene	U		0.00785	0.0500	50	09/28/2021 03:12	WG1747420
sec-Butylbenzene	0.0122	J	0.00625	0.0500	50	09/28/2021 03:12	WG1747420
Carbon disulfide	U		0.00481	0.0500	50	09/28/2021 03:12	WG1747420
Carbon tetrachloride	U		0.00640	0.0500	50	09/28/2021 03:12	WG1747420
Chlorobenzene	U		0.00580	0.0500	50	09/28/2021 03:12	WG1747420
Chlorodibromomethane	U		0.00700	0.0500	50	09/28/2021 03:12	WG1747420
Chloroethane	U		0.00960	0.250	50	09/28/2021 03:12	WG1747420
Chloroform	U		0.00555	0.250	50	09/28/2021 03:12	WG1747420
Chloromethane	U		0.0480	0.125	50	09/28/2021 03:12	WG1747420
1,2-Dibromoethane	U		0.00630	0.0500	50	09/28/2021 03:12	WG1747420
1,1-Dichloroethane	U		0.00500	0.0500	50	09/28/2021 03:12	WG1747420

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.00409	0.0500	50	09/28/2021 03:12	WG1747420
1,1-Dichloroethene	U		0.00940	0.0500	50	09/28/2021 03:12	WG1747420
cis-1,2-Dichloroethene	U		0.00630	0.0500	50	09/28/2021 03:12	WG1747420
trans-1,2-Dichloroethene	U		0.00745	0.0500	50	09/28/2021 03:12	WG1747420
1,2-Dichloropropane	U		0.00745	0.0500	50	09/28/2021 03:12	WG1747420
cis-1,3-Dichloropropene	U		0.00555	0.0500	50	09/28/2021 03:12	WG1747420
trans-1,3-Dichloropropene	U		0.00590	0.0500	50	09/28/2021 03:12	WG1747420
Ethylbenzene	0.629		0.00685	0.0500	50	09/28/2021 03:12	WG1747420
Isopropylbenzene	0.0816		0.00525	0.0500	50	09/28/2021 03:12	WG1747420
p-Isopropyltoluene	U		0.00600	0.0500	50	09/28/2021 03:12	WG1747420
2-Butanone (MEK)	U		0.0595	0.500	50	09/28/2021 03:12	WG1747420
2-Hexanone	U		0.0394	0.500	50	09/28/2021 03:12	WG1747420
Methylene Chloride	U		0.0215	0.250	50	09/28/2021 03:12	WG1747420
4-Methyl-2-pentanone (MIBK)	U		0.0239	0.500	50	09/28/2021 03:12	WG1747420
Methyl tert-butyl ether	U		0.00505	0.0500	50	09/28/2021 03:12	WG1747420
Naphthalene	0.223	J	0.0500	0.250	50	09/28/2021 03:12	WG1747420
n-Propylbenzene	0.0900		0.00497	0.0500	50	09/28/2021 03:12	WG1747420
Styrene	U		0.00590	0.0500	50	09/28/2021 03:12	WG1747420
tert-Butyl alcohol	U		0.203	0.250	50	09/28/2021 03:12	WG1747420
1,1,1,2-Tetrachloroethane	U		0.00735	0.0500	50	09/28/2021 03:12	WG1747420
1,1,2,2-Tetrachloroethane	U		0.00665	0.0500	50	09/28/2021 03:12	WG1747420
Tetrachloroethene	U		0.0150	0.0500	50	09/28/2021 03:12	WG1747420
Toluene	0.204		0.0139	0.0500	50	09/28/2021 03:12	WG1747420
1,1,1-Trichloroethane	U		0.00745	0.0500	50	09/28/2021 03:12	WG1747420
1,1,2-Trichloroethane	U		0.00790	0.0500	50	09/28/2021 03:12	WG1747420
Trichloroethene	U		0.00950	0.0500	50	09/28/2021 03:12	WG1747420
1,2,4-Trimethylbenzene	0.392		0.0161	0.0500	50	09/28/2021 03:12	WG1747420
1,3,5-Trimethylbenzene	0.0923		0.00520	0.0500	50	09/28/2021 03:12	WG1747420
Vinyl chloride	U		0.0117	0.0500	50	09/28/2021 03:12	WG1747420
o-Xylene	0.0253	J	0.00870	0.0500	50	09/28/2021 03:12	WG1747420
m&p-Xylene	1.73		0.0215	0.100	50	09/28/2021 03:12	WG1747420
Xylenes, Total	1.76		0.00870	0.150	50	09/28/2021 03:12	WG1747420
(S) Toluene-d8	*103*			*80.0-120*		*09/28/2021 03:12*	WG1747420
(S) 4-Bromofluorobenzene	*99.0*			*77.0-126*		*09/28/2021 03:12*	WG1747420
(S) 1,2-Dichloroethane-d4	*93.1*			*70.0-130*		*09/28/2021 03:12*	WG1747420

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	6.01		0.0247	0.100	1	09/29/2021 21:40	WG1745180
(S) o-Terphenyl	*114*			*31.0-160*		*09/29/2021 21:40*	WG1745180

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	1810		50.0	1	09/22/2021 16:04	WG1744419

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		2.50	5.00	50	09/23/2021 17:38	WG1745434

Wet Chemistry by Method 4500CN E-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Cyanide	U		0.0900	0.250	50	09/23/2021 17:09	WG1745026

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	333		3.79	10.0	10	09/22/2021 19:22	WG1743971
Fluoride	1.26		0.0640	0.150	1	09/22/2021 11:13	WG1743971
Sulfate	317		5.94	50.0	10	09/22/2021 19:22	WG1743971

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.000100	0.000200	1	09/22/2021 15:30	WG1741778

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Boron	0.698		0.0200	0.200	1	09/23/2021 04:43	WG1742039

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00466		0.000180	0.00200	1	09/23/2021 02:48	WG1742035
Barium	0.0472		0.000381	0.00200	1	09/23/2021 02:48	WG1742035
Cadmium	U		0.000150	0.00100	1	09/23/2021 02:48	WG1742035
Calcium	164		0.0936	1.00	1	09/23/2021 02:48	WG1742035
Chromium	U		0.00124	0.00200	1	09/23/2021 02:48	WG1742035
Cobalt	U		0.0000596	0.00200	1	09/23/2021 02:48	WG1742035
Iron	0.0669	J	0.0281	0.100	1	09/23/2021 02:48	WG1742035
Lead	U		0.000849	0.00200	1	09/23/2021 02:48	WG1742035
Manganese	0.213		0.000704	0.00500	1	09/23/2021 02:48	WG1742035
Nickel	0.00919		0.000816	0.00200	1	09/23/2021 02:48	WG1742035
Potassium	1.96	J	0.108	2.00	1	09/23/2021 02:48	WG1742035
Selenium	0.000783	J	0.000300	0.00200	1	09/23/2021 02:48	WG1742035
Sodium	290		0.376	2.00	1	09/23/2021 02:48	WG1742035
Uranium	U		0.0000789	0.00100	1	09/23/2021 02:48	WG1742035
Vanadium	U		0.000664	0.00500	1	09/23/2021 02:48	WG1742035

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	2.57		0.157	0.500	5	09/28/2021 05:28	WG1747485

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
(S) a,a,a-Trifluorotoluene(FID)	*93.0*			*78.0-120*		*09/28/2021 05:28*	WG1747485

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.113	0.500	10	09/28/2021 03:32	WG1747420
Benzene	0.280		0.000941	0.0100	10	09/28/2021 03:32	WG1747420
Bromodichloromethane	U		0.00136	0.0100	10	09/28/2021 03:32	WG1747420
Bromoform	U		0.00129	0.0100	10	09/28/2021 03:32	WG1747420
Bromomethane	U		0.00605	0.0500	10	09/28/2021 03:32	WG1747420
n-Butylbenzene	0.00213	J	0.00157	0.0100	10	09/28/2021 03:32	WG1747420
sec-Butylbenzene	0.00491	J	0.00125	0.0100	10	09/28/2021 03:32	WG1747420
Carbon disulfide	U		0.000962	0.0100	10	09/28/2021 03:32	WG1747420
Carbon tetrachloride	U		0.00128	0.0100	10	09/28/2021 03:32	WG1747420
Chlorobenzene	U		0.00116	0.0100	10	09/28/2021 03:32	WG1747420
Chlorodibromomethane	U		0.00140	0.0100	10	09/28/2021 03:32	WG1747420
Chloroethane	U		0.00192	0.0500	10	09/28/2021 03:32	WG1747420
Chloroform	U		0.00111	0.0500	10	09/28/2021 03:32	WG1747420
Chloromethane	U		0.00960	0.0250	10	09/28/2021 03:32	WG1747420
1,2-Dibromoethane	U		0.00126	0.0100	10	09/28/2021 03:32	WG1747420
1,1-Dichloroethane	U		0.00100	0.0100	10	09/28/2021 03:32	WG1747420
1,2-Dichloroethane	U		0.000819	0.0100	10	09/28/2021 03:32	WG1747420
1,1-Dichloroethene	U		0.00188	0.0100	10	09/28/2021 03:32	WG1747420
cis-1,2-Dichloroethene	U		0.00126	0.0100	10	09/28/2021 03:32	WG1747420
trans-1,2-Dichloroethene	U		0.00149	0.0100	10	09/28/2021 03:32	WG1747420
1,2-Dichloropropane	U		0.00149	0.0100	10	09/28/2021 03:32	WG1747420
cis-1,3-Dichloropropene	U		0.00111	0.0100	10	09/28/2021 03:32	WG1747420
trans-1,3-Dichloropropene	U		0.00118	0.0100	10	09/28/2021 03:32	WG1747420
Ethylbenzene	0.00787	J	0.00137	0.0100	10	09/28/2021 03:32	WG1747420
Isopropylbenzene	0.0240		0.00105	0.0100	10	09/28/2021 03:32	WG1747420
p-Isopropyltoluene	0.00125	J	0.00120	0.0100	10	09/28/2021 03:32	WG1747420
2-Butanone (MEK)	U		0.0119	0.100	10	09/28/2021 03:32	WG1747420
2-Hexanone	U		0.00787	0.100	10	09/28/2021 03:32	WG1747420
Methylene Chloride	U		0.00430	0.0500	10	09/28/2021 03:32	WG1747420
4-Methyl-2-pentanone (MIBK)	U		0.00478	0.100	10	09/28/2021 03:32	WG1747420
Methyl tert-butyl ether	0.210		0.00101	0.0100	10	09/28/2021 03:32	WG1747420
Naphthalene	0.0201	J	0.0100	0.0500	10	09/28/2021 03:32	WG1747420
n-Propylbenzene	0.0210		0.000993	0.0100	10	09/28/2021 03:32	WG1747420
Styrene	U		0.00118	0.0100	10	09/28/2021 03:32	WG1747420
tert-Butyl alcohol	U		0.0406	0.0500	10	09/28/2021 03:32	WG1747420
1,1,1,2-Tetrachloroethane	U		0.00147	0.0100	10	09/28/2021 03:32	WG1747420
1,1,2,2-Tetrachloroethane	U		0.00133	0.0100	10	09/28/2021 03:32	WG1747420
Tetrachloroethene	U		0.00300	0.0100	10	09/28/2021 03:32	WG1747420
Toluene	0.00473	J	0.00278	0.0100	10	09/28/2021 03:32	WG1747420
1,1,1-Trichloroethane	U		0.00149	0.0100	10	09/28/2021 03:32	WG1747420
1,1,2-Trichloroethane	U		0.00158	0.0100	10	09/28/2021 03:32	WG1747420
Trichloroethene	U		0.00190	0.0100	10	09/28/2021 03:32	WG1747420
1,2,4-Trimethylbenzene	0.0403		0.00322	0.0100	10	09/28/2021 03:32	WG1747420
1,3,5-Trimethylbenzene	0.00713	J	0.00104	0.0100	10	09/28/2021 03:32	WG1747420
Vinyl chloride	U		0.00234	0.0100	10	09/28/2021 03:32	WG1747420
o-Xylene	U		0.00174	0.0100	10	09/28/2021 03:32	WG1747420
m&p-Xylene	0.0675		0.00430	0.0200	10	09/28/2021 03:32	WG1747420
Xylenes, Total	0.0675		0.00174	0.0300	10	09/28/2021 03:32	WG1747420
(S) Toluene-d8	*102*			*80.0-120*		*09/28/2021 03:32*	WG1747420
(S) 4-Bromofluorobenzene	*97.8*			*77.0-126*		*09/28/2021 03:32*	WG1747420

MW-45
Collected date/time: 09/15/21 08:40
L1404404

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	*91.9*			*70.0-130*		*09/28/2021 03:32*	WG1747420

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	6.81		0.247	1.00	10	09/30/2021 13:29	WG1746820
(S) o-Terphenyl	*113*			*31.0-160*		*09/30/2021 13:29*	WG1746820

Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	0.000415		0.0000447	0.000400	1	09/21/2021 01:06	WG1742899
(S) Nitrobenzene-d5	*54.4*			*10.0-120*		*09/21/2021 01:06*	WG1742899

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	4010		50.0	1	09/22/2021 16:04	WG1744419

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.0500	0.100	1	09/23/2021 17:39	WG1745434

Wet Chemistry by Method 4500CN E-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Cyanide	U		0.00180	0.00500	1	09/24/2021 12:01	WG1745027

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	334		37.9	100	100	09/22/2021 19:38	WG1743971
Fluoride	1.34		0.0640	0.150	1	09/22/2021 12:19	WG1743971
Sulfate	2110		59.4	500	100	09/22/2021 19:38	WG1743971

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.000100	0.000200	1	09/22/2021 15:32	WG1741778

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Boron	0.625		0.0200	0.200	1	09/23/2021 04:46	WG1742039

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00845		0.000180	0.00200	1	09/23/2021 02:51	WG1742035
Barium	0.0167		0.000381	0.00200	1	09/23/2021 02:51	WG1742035
Cadmium	U		0.000150	0.00100	1	09/23/2021 02:51	WG1742035
Calcium	548		0.0936	1.00	1	09/23/2021 02:51	WG1742035
Chromium	U		0.00124	0.00200	1	09/23/2021 02:51	WG1742035
Cobalt	0.000134	J	0.0000596	0.00200	1	09/23/2021 02:51	WG1742035
Iron	3.30		0.0281	0.100	1	09/23/2021 02:51	WG1742035
Lead	0.0113		0.000849	0.00200	1	09/23/2021 02:51	WG1742035
Manganese	0.661		0.000704	0.00500	1	09/23/2021 02:51	WG1742035
Nickel	0.00527		0.000816	0.00200	1	09/23/2021 02:51	WG1742035
Potassium	4.12		0.108	2.00	1	09/23/2021 02:51	WG1742035
Selenium	0.000446	J	0.000300	0.00200	1	09/23/2021 02:51	WG1742035
Sodium	339		0.376	2.00	1	09/23/2021 02:51	WG1742035
Uranium	0.00101		0.0000789	0.00100	1	09/23/2021 02:51	WG1742035
Vanadium	0.00100	J	0.000664	0.00500	1	09/23/2021 02:51	WG1742035

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	09/19/2021 18:49	WG1742742
Benzene	0.000219	J	0.0000941	0.00100	1	09/19/2021 18:49	WG1742742
Bromodichloromethane	U		0.000136	0.00100	1	09/19/2021 18:49	WG1742742
Bromoform	U		0.000129	0.00100	1	09/19/2021 18:49	WG1742742
Bromomethane	U		0.000605	0.00500	1	09/19/2021 18:49	WG1742742
n-Butylbenzene	U		0.000157	0.00100	1	09/19/2021 18:49	WG1742742
sec-Butylbenzene	U		0.000125	0.00100	1	09/19/2021 18:49	WG1742742
Carbon disulfide	U		0.0000962	0.00100	1	09/19/2021 18:49	WG1742742
Carbon tetrachloride	U		0.000128	0.00100	1	09/19/2021 18:49	WG1742742
Chlorobenzene	U		0.000116	0.00100	1	09/19/2021 18:49	WG1742742
Chlorodibromomethane	U		0.000140	0.00100	1	09/19/2021 18:49	WG1742742
Chloroethane	U		0.000192	0.00500	1	09/19/2021 18:49	WG1742742
Chloroform	U		0.000111	0.00500	1	09/19/2021 18:49	WG1742742
Chloromethane	U		0.000960	0.00250	1	09/19/2021 18:49	WG1742742
1,2-Dibromoethane	U		0.000126	0.00100	1	09/19/2021 18:49	WG1742742
1,1-Dichloroethane	U		0.000100	0.00100	1	09/19/2021 18:49	WG1742742
1,2-Dichloroethane	U		0.0000819	0.00100	1	09/19/2021 18:49	WG1742742
1,1-Dichloroethene	U		0.000188	0.00100	1	09/19/2021 18:49	WG1742742
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	09/19/2021 18:49	WG1742742
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	09/19/2021 18:49	WG1742742
1,2-Dichloropropane	U		0.000149	0.00100	1	09/19/2021 18:49	WG1742742
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	09/19/2021 18:49	WG1742742
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	09/19/2021 18:49	WG1742742
Ethylbenzene	U		0.000137	0.00100	1	09/19/2021 18:49	WG1742742
Isopropylbenzene	0.000162	J	0.000105	0.00100	1	09/19/2021 18:49	WG1742742
p-Isopropyltoluene	U		0.000120	0.00100	1	09/19/2021 18:49	WG1742742
2-Butanone (MEK)	U		0.00119	0.0100	1	09/19/2021 18:49	WG1742742
2-Hexanone	U		0.000787	0.0100	1	09/19/2021 18:49	WG1742742
Methylene Chloride	U		0.000430	0.00500	1	09/19/2021 18:49	WG1742742
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	09/19/2021 18:49	WG1742742
Methyl tert-butyl ether	0.00981		0.000101	0.00100	1	09/19/2021 18:49	WG1742742
Naphthalene	U		0.00100	0.00500	1	09/19/2021 18:49	WG1742742
n-Propylbenzene	0.000138	J	0.0000993	0.00100	1	09/19/2021 18:49	WG1742742
Styrene	U		0.000118	0.00100	1	09/19/2021 18:49	WG1742742
tert-Butyl alcohol	0.00888		0.00406	0.00500	1	09/19/2021 18:49	WG1742742
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	09/19/2021 18:49	WG1742742
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	09/19/2021 18:49	WG1742742
Tetrachloroethene	U		0.000300	0.00100	1	09/19/2021 18:49	WG1742742
Toluene	U		0.000278	0.00100	1	09/19/2021 18:49	WG1742742
1,1,1-Trichloroethane	U		0.000149	0.00100	1	09/19/2021 18:49	WG1742742
1,1,2-Trichloroethane	U		0.000158	0.00100	1	09/19/2021 18:49	WG1742742
Trichloroethene	U		0.000190	0.00100	1	09/19/2021 18:49	WG1742742
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/19/2021 18:49	WG1742742
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/19/2021 18:49	WG1742742
Vinyl chloride	U		0.000234	0.00100	1	09/19/2021 18:49	WG1742742
o-Xylene	U		0.000174	0.00100	1	09/19/2021 18:49	WG1742742
m&p-Xylene	0.000483	J	0.000430	0.00200	1	09/19/2021 18:49	WG1742742
Xylenes, Total	0.000483	J	0.000174	0.00300	1	09/19/2021 18:49	WG1742742
(S) Toluene-d8	*98.9*			*80.0-120*		*09/19/2021 18:49*	WG1742742
(S) 4-Bromofluorobenzene	*98.6*			*77.0-126*		*09/19/2021 18:49*	WG1742742
(S) 1,2-Dichloroethane-d4	*90.3*			*70.0-130*		*09/19/2021 18:49*	WG1742742

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	1.98		0.0247	0.100	1	09/30/2021 10:55	WG1746820

MW-43
Collected date/time: 09/15/21 09:30
L1404404

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
(S) o-Terphenyl	*116*			*31.0-160*		*09/30/2021 10:55*	WG1746820

Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
1,4-Dioxane	0.000239	J	0.0000447	0.000400	1	09/21/2021 01:25	WG1742899
(S) Nitrobenzene-d5	*54.8*			*10.0-120*		*09/21/2021 01:25*	WG1742899

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4180		100	1	09/22/2021 16:04	WG1744419

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.0504	J	0.0500	0.100	1	09/23/2021 17:41	WG1745434

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	502		37.9	100	100	09/22/2021 19:54	WG1743971
Fluoride	1.47		0.0640	0.150	1	09/22/2021 12:51	WG1743971
Sulfate	2170		59.4	500	100	09/22/2021 19:54	WG1743971

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.104		0.000180	0.00200	1	09/23/2021 02:55	WG1742035
Barium	0.0213		0.000381	0.00200	1	09/23/2021 02:55	WG1742035
Calcium	590		0.0936	1.00	1	09/23/2021 02:55	WG1742035
Chromium	U		0.00124	0.00200	1	09/23/2021 02:55	WG1742035
Iron	25.5		0.0281	0.100	1	09/23/2021 02:55	WG1742035
Lead	0.00119	J	0.000849	0.00200	1	09/23/2021 02:55	WG1742035
Manganese	1.40		0.000704	0.00500	1	09/23/2021 02:55	WG1742035
Potassium	2.77		0.108	2.00	1	09/23/2021 02:55	WG1742035
Selenium	0.00301		0.000300	0.00200	1	09/23/2021 02:55	WG1742035
Sodium	328		0.376	2.00	1	09/23/2021 02:55	WG1742035

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0560	J	0.0314	0.100	1	09/24/2021 03:34	WG1744965
(S) a,a,a-Trifluorotoluene(FID)	*109*			*78.0-120*		*09/24/2021 03:34*	WG1744965

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	09/19/2021 19:10	WG1742742
Benzene	0.000196	J	0.0000941	0.00100	1	09/19/2021 19:10	WG1742742
Bromodichloromethane	U		0.000136	0.00100	1	09/19/2021 19:10	WG1742742
Bromoform	U		0.000129	0.00100	1	09/19/2021 19:10	WG1742742
Bromomethane	U		0.000605	0.00500	1	09/19/2021 19:10	WG1742742
n-Butylbenzene	U		0.000157	0.00100	1	09/19/2021 19:10	WG1742742
sec-Butylbenzene	U		0.000125	0.00100	1	09/19/2021 19:10	WG1742742
Carbon disulfide	U		0.0000962	0.00100	1	09/19/2021 19:10	WG1742742
Carbon tetrachloride	U		0.000128	0.00100	1	09/19/2021 19:10	WG1742742
Chlorobenzene	U		0.000116	0.00100	1	09/19/2021 19:10	WG1742742
Chlorodibromomethane	U		0.000140	0.00100	1	09/19/2021 19:10	WG1742742
Chloroethane	U		0.000192	0.00500	1	09/19/2021 19:10	WG1742742
Chloroform	U		0.000111	0.00500	1	09/19/2021 19:10	WG1742742
Chloromethane	U		0.000960	0.00250	1	09/19/2021 19:10	WG1742742
1,2-Dibromoethane	U		0.000126	0.00100	1	09/19/2021 19:10	WG1742742
1,1-Dichloroethane	U		0.000100	0.00100	1	09/19/2021 19:10	WG1742742

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	0.000151	J	0.0000819	0.00100	1	09/19/2021 19:10	WG1742742
1,1-Dichloroethene	U		0.000188	0.00100	1	09/19/2021 19:10	WG1742742
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	09/19/2021 19:10	WG1742742
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	09/19/2021 19:10	WG1742742
1,2-Dichloropropane	U		0.000149	0.00100	1	09/19/2021 19:10	WG1742742
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	09/19/2021 19:10	WG1742742
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	09/19/2021 19:10	WG1742742
Ethylbenzene	U		0.000137	0.00100	1	09/19/2021 19:10	WG1742742
Isopropylbenzene	U		0.000105	0.00100	1	09/19/2021 19:10	WG1742742
p-Isopropyltoluene	U		0.000120	0.00100	1	09/19/2021 19:10	WG1742742
2-Butanone (MEK)	U		0.00119	0.0100	1	09/19/2021 19:10	WG1742742
2-Hexanone	U		0.000787	0.0100	1	09/19/2021 19:10	WG1742742
Methylene Chloride	U		0.000430	0.00500	1	09/19/2021 19:10	WG1742742
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	09/19/2021 19:10	WG1742742
Methyl tert-butyl ether	0.0238		0.000101	0.00100	1	09/19/2021 19:10	WG1742742
Naphthalene	U		0.00100	0.00500	1	09/19/2021 19:10	WG1742742
n-Propylbenzene	U		0.0000993	0.00100	1	09/19/2021 19:10	WG1742742
Styrene	U		0.000118	0.00100	1	09/19/2021 19:10	WG1742742
tert-Butyl alcohol	0.0109		0.00406	0.00500	1	09/19/2021 19:10	WG1742742
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	09/19/2021 19:10	WG1742742
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	09/19/2021 19:10	WG1742742
Tetrachloroethene	U		0.000300	0.00100	1	09/19/2021 19:10	WG1742742
Toluene	U		0.000278	0.00100	1	09/19/2021 19:10	WG1742742
1,1,1-Trichloroethane	U		0.000149	0.00100	1	09/19/2021 19:10	WG1742742
1,1,2-Trichloroethane	U		0.000158	0.00100	1	09/19/2021 19:10	WG1742742
Trichloroethene	U		0.000190	0.00100	1	09/19/2021 19:10	WG1742742
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/19/2021 19:10	WG1742742
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/19/2021 19:10	WG1742742
Vinyl chloride	U		0.000234	0.00100	1	09/19/2021 19:10	WG1742742
o-Xylene	U		0.000174	0.00100	1	09/19/2021 19:10	WG1742742
m&p-Xylene	U		0.000430	0.00200	1	09/19/2021 19:10	WG1742742
Xylenes, Total	U		0.000174	0.00300	1	09/19/2021 19:10	WG1742742
(S) Toluene-d8	*96.5*			*80.0-120*		*09/19/2021 19:10*	WG1742742
(S) 4-Bromofluorobenzene	*92.4*			*77.0-126*		*09/19/2021 19:10*	WG1742742
(S) 1,2-Dichloroethane-d4	*91.8*			*70.0-130*		*09/19/2021 19:10*	WG1742742

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	8.12		0.247	1.00	10	09/30/2021 14:46	WG1746820
(S) o-Terphenyl	*121*			*31.0-160*		*09/30/2021 14:46*	WG1746820

Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	0.000826		0.0000447	0.000400	1	09/21/2021 01:45	WG1742899
(S) Nitrobenzene-d5	*46.4*			*10.0-120*		*09/21/2021 01:45*	WG1742899

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4700		50.0	1	09/21/2021 14:21	WG1743639

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0500	0.100	1	09/23/2021 17:42	WG1745434

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	308		37.9	100	100	09/22/2021 20:11	WG1743971
Fluoride	0.767		0.0640	0.150	1	09/22/2021 13:24	WG1743971
Sulfate	2030		59.4	500	100	09/22/2021 20:11	WG1743971

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00807		0.000180	0.00200	1	09/23/2021 02:58	WG1742035
Barium	0.0183		0.000381	0.00200	1	09/23/2021 02:58	WG1742035
Calcium	442		0.0936	1.00	1	09/23/2021 02:58	WG1742035
Chromium	0.0560		0.00124	0.00200	1	09/23/2021 02:58	WG1742035
Iron	0.450		0.0281	0.100	1	09/23/2021 02:58	WG1742035
Lead	0.000975	J	0.000849	0.00200	1	09/23/2021 02:58	WG1742035
Manganese	1.67		0.000704	0.00500	1	09/23/2021 02:58	WG1742035
Potassium	0.669	J	0.108	2.00	1	09/23/2021 02:58	WG1742035
Selenium	0.000577	J	0.000300	0.00200	1	09/23/2021 02:58	WG1742035
Sodium	396		0.376	2.00	1	09/23/2021 02:58	WG1742035

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.821		0.0314	0.100	1	09/24/2021 03:56	WG1744965
(S) a,a,a-Trifluorotoluene(FID)	*102*			*78.0-120*		*09/24/2021 03:56*	WG1744965

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	09/19/2021 19:30	WG1742742
Benzene	0.133		0.0000941	0.00100	1	09/19/2021 19:30	WG1742742
Bromodichloromethane	U		0.000136	0.00100	1	09/19/2021 19:30	WG1742742
Bromoform	U		0.000129	0.00100	1	09/19/2021 19:30	WG1742742
Bromomethane	U		0.000605	0.00500	1	09/19/2021 19:30	WG1742742
n-Butylbenzene	0.000337	J	0.000157	0.00100	1	09/19/2021 19:30	WG1742742
sec-Butylbenzene	0.00921		0.000125	0.00100	1	09/19/2021 19:30	WG1742742
Carbon disulfide	U		0.0000962	0.00100	1	09/19/2021 19:30	WG1742742
Carbon tetrachloride	U		0.000128	0.00100	1	09/19/2021 19:30	WG1742742
Chlorobenzene	U		0.000116	0.00100	1	09/19/2021 19:30	WG1742742
Chlorodibromomethane	U		0.000140	0.00100	1	09/19/2021 19:30	WG1742742
Chloroethane	U		0.000192	0.00500	1	09/19/2021 19:30	WG1742742
Chloroform	U		0.000111	0.00500	1	09/19/2021 19:30	WG1742742
Chloromethane	U		0.000960	0.00250	1	09/19/2021 19:30	WG1742742
1,2-Dibromoethane	U		0.000126	0.00100	1	09/19/2021 19:30	WG1742742
1,1-Dichloroethane	U		0.000100	0.00100	1	09/19/2021 19:30	WG1742742

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.0000819	0.00100	1	09/19/2021 19:30	WG1742742
1,1-Dichloroethene	U		0.000188	0.00100	1	09/19/2021 19:30	WG1742742
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	09/19/2021 19:30	WG1742742
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	09/19/2021 19:30	WG1742742
1,2-Dichloropropane	U		0.000149	0.00100	1	09/19/2021 19:30	WG1742742
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	09/19/2021 19:30	WG1742742
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	09/19/2021 19:30	WG1742742
Ethylbenzene	0.000393	J	0.000137	0.00100	1	09/19/2021 19:30	WG1742742
Isopropylbenzene	0.0137		0.000105	0.00100	1	09/19/2021 19:30	WG1742742
p-Isopropyltoluene	U		0.000120	0.00100	1	09/19/2021 19:30	WG1742742
2-Butanone (MEK)	U		0.00119	0.0100	1	09/19/2021 19:30	WG1742742
2-Hexanone	U		0.000787	0.0100	1	09/19/2021 19:30	WG1742742
Methylene Chloride	U		0.000430	0.00500	1	09/19/2021 19:30	WG1742742
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	09/19/2021 19:30	WG1742742
Methyl tert-butyl ether	0.0393		0.000101	0.00100	1	09/19/2021 19:30	WG1742742
Naphthalene	0.00150	J	0.00100	0.00500	1	09/19/2021 19:30	WG1742742
n-Propylbenzene	0.00513		0.0000993	0.00100	1	09/19/2021 19:30	WG1742742
Styrene	U		0.000118	0.00100	1	09/19/2021 19:30	WG1742742
tert-Butyl alcohol	0.147		0.00406	0.00500	1	09/19/2021 19:30	WG1742742
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	09/19/2021 19:30	WG1742742
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	09/19/2021 19:30	WG1742742
Tetrachloroethene	U		0.000300	0.00100	1	09/19/2021 19:30	WG1742742
Toluene	0.00129		0.000278	0.00100	1	09/19/2021 19:30	WG1742742
1,1,1-Trichloroethane	U		0.000149	0.00100	1	09/19/2021 19:30	WG1742742
1,1,2-Trichloroethane	U		0.000158	0.00100	1	09/19/2021 19:30	WG1742742
Trichloroethene	U		0.000190	0.00100	1	09/19/2021 19:30	WG1742742
1,2,4-Trimethylbenzene	0.00128		0.000322	0.00100	1	09/19/2021 19:30	WG1742742
1,3,5-Trimethylbenzene	0.000193	J	0.000104	0.00100	1	09/19/2021 19:30	WG1742742
Vinyl chloride	U		0.000234	0.00100	1	09/19/2021 19:30	WG1742742
o-Xylene	0.000254	J	0.000174	0.00100	1	09/19/2021 19:30	WG1742742
m&p-Xylene	0.00107	J	0.000430	0.00200	1	09/19/2021 19:30	WG1742742
Xylenes, Total	0.00132	J	0.000174	0.00300	1	09/19/2021 19:30	WG1742742
(S) Toluene-d8	*89.9*			*80.0-120*		*09/19/2021 19:30*	WG1742742
(S) 4-Bromofluorobenzene	*86.3*			*77.0-126*		*09/19/2021 19:30*	WG1742742
(S) 1,2-Dichloroethane-d4	*95.3*			*70.0-130*		*09/19/2021 19:30*	WG1742742

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	6.37		0.0247	0.100	1	09/29/2021 22:06	WG1745180
(S) o-Terphenyl	*154*			*31.0-160*		*09/29/2021 22:06*	WG1745180

Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	0.000558		0.0000447	0.000400	1	09/21/2021 02:04	WG1742899
(S) Nitrobenzene-d5	*49.8*			*10.0-120*		*09/21/2021 02:04*	WG1742899

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	ND		10.0	1	09/21/2021 14:21	WG1743639

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0500	0.100	1	09/23/2021 17:43	WG1745434

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	0.471	J P1	0.379	1.00	1	09/22/2021 21:00	WG1743971
Fluoride	U		0.0640	0.150	1	09/22/2021 21:00	WG1743971
Sulfate	U		0.594	5.00	1	09/22/2021 21:00	WG1743971

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	U		0.000180	0.00200	1	09/23/2021 03:02	WG1742035
Barium	U		0.000381	0.00200	1	09/23/2021 03:02	WG1742035
Calcium	0.147	J	0.0936	1.00	1	09/23/2021 03:02	WG1742035
Chromium	0.00131	J	0.00124	0.00200	1	09/23/2021 03:02	WG1742035
Iron	U		0.0281	0.100	1	09/23/2021 03:02	WG1742035
Lead	U		0.000849	0.00200	1	09/23/2021 03:02	WG1742035
Manganese	U		0.000704	0.00500	1	09/23/2021 03:02	WG1742035
Potassium	U		0.108	2.00	1	09/23/2021 03:02	WG1742035
Selenium	U		0.000300	0.00200	1	09/23/2021 03:02	WG1742035
Sodium	U		0.376	2.00	1	09/23/2021 03:02	WG1742035

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	09/24/2021 04:18	WG1744965
(S) a,a,a-Trifluorotoluene(FID)	*112*			*78.0-120*		*09/24/2021 04:18*	WG1744965

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	09/19/2021 19:51	WG1742742
Benzene	U		0.0000941	0.00100	1	09/19/2021 19:51	WG1742742
Bromodichloromethane	U		0.000136	0.00100	1	09/19/2021 19:51	WG1742742
Bromoform	U		0.000129	0.00100	1	09/19/2021 19:51	WG1742742
Bromomethane	U		0.000605	0.00500	1	09/19/2021 19:51	WG1742742
n-Butylbenzene	U		0.000157	0.00100	1	09/19/2021 19:51	WG1742742
sec-Butylbenzene	U		0.000125	0.00100	1	09/19/2021 19:51	WG1742742
Carbon disulfide	U		0.0000962	0.00100	1	09/19/2021 19:51	WG1742742
Carbon tetrachloride	U		0.000128	0.00100	1	09/19/2021 19:51	WG1742742
Chlorobenzene	U		0.000116	0.00100	1	09/19/2021 19:51	WG1742742
Chlorodibromomethane	U		0.000140	0.00100	1	09/19/2021 19:51	WG1742742
Chloroethane	U		0.000192	0.00500	1	09/19/2021 19:51	WG1742742
Chloroform	U		0.000111	0.00500	1	09/19/2021 19:51	WG1742742
Chloromethane	U		0.000960	0.00250	1	09/19/2021 19:51	WG1742742
1,2-Dibromoethane	U		0.000126	0.00100	1	09/19/2021 19:51	WG1742742
1,1-Dichloroethane	U		0.000100	0.00100	1	09/19/2021 19:51	WG1742742

EB-TEL-01
Collected date/time: 09/14/21 08:40
L1404404

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.0000819	0.00100	1	09/19/2021 19:51	WG1742742
1,1-Dichloroethene	U		0.000188	0.00100	1	09/19/2021 19:51	WG1742742
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	09/19/2021 19:51	WG1742742
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	09/19/2021 19:51	WG1742742
1,2-Dichloropropane	U		0.000149	0.00100	1	09/19/2021 19:51	WG1742742
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	09/19/2021 19:51	WG1742742
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	09/19/2021 19:51	WG1742742
Ethylbenzene	U		0.000137	0.00100	1	09/19/2021 19:51	WG1742742
Isopropylbenzene	U		0.000105	0.00100	1	09/19/2021 19:51	WG1742742
p-Isopropyltoluene	U		0.000120	0.00100	1	09/19/2021 19:51	WG1742742
2-Butanone (MEK)	U		0.00119	0.0100	1	09/19/2021 19:51	WG1742742
2-Hexanone	U		0.000787	0.0100	1	09/19/2021 19:51	WG1742742
Methylene Chloride	U		0.000430	0.00500	1	09/19/2021 19:51	WG1742742
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	09/19/2021 19:51	WG1742742
Methyl tert-butyl ether	U		0.000101	0.00100	1	09/19/2021 19:51	WG1742742
Naphthalene	U		0.00100	0.00500	1	09/19/2021 19:51	WG1742742
n-Propylbenzene	U		0.0000993	0.00100	1	09/19/2021 19:51	WG1742742
Styrene	U		0.000118	0.00100	1	09/19/2021 19:51	WG1742742
tert-Butyl alcohol	U		0.00406	0.00500	1	09/19/2021 19:51	WG1742742
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	09/19/2021 19:51	WG1742742
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	09/19/2021 19:51	WG1742742
Tetrachloroethene	U		0.000300	0.00100	1	09/19/2021 19:51	WG1742742
Toluene	U		0.000278	0.00100	1	09/19/2021 19:51	WG1742742
1,1,1-Trichloroethane	U		0.000149	0.00100	1	09/19/2021 19:51	WG1742742
1,1,2-Trichloroethane	U		0.000158	0.00100	1	09/19/2021 19:51	WG1742742
Trichloroethene	U		0.000190	0.00100	1	09/19/2021 19:51	WG1742742
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/19/2021 19:51	WG1742742
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/19/2021 19:51	WG1742742
Vinyl chloride	U		0.000234	0.00100	1	09/19/2021 19:51	WG1742742
o-Xylene	U		0.000174	0.00100	1	09/19/2021 19:51	WG1742742
m&p-Xylene	U		0.000430	0.00200	1	09/19/2021 19:51	WG1742742
Xylenes, Total	U		0.000174	0.00300	1	09/19/2021 19:51	WG1742742
(S) Toluene-d8	*94.6*			*80.0-120*		*09/19/2021 19:51*	WG1742742
(S) 4-Bromofluorobenzene	*92.6*			*77.0-126*		*09/19/2021 19:51*	WG1742742
(S) 1,2-Dichloroethane-d4	*95.8*			*70.0-130*		*09/19/2021 19:51*	WG1742742

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	U		0.0247	0.100	1	09/30/2021 10:30	WG1745180
(S) o-Terphenyl	*103*			*31.0-160*		*09/30/2021 10:30*	WG1745180

Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	0.000387	J	0.0000447	0.000400	1	09/21/2021 02:23	WG1742899
(S) Nitrobenzene-d5	*64.8*			*10.0-120*		*09/21/2021 02:23*	WG1742899

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	09/19/2021 02:55	WG1742353
Benzene	U		0.0000941	0.00100	1	09/19/2021 02:55	WG1742353
Bromodichloromethane	U		0.000136	0.00100	1	09/19/2021 02:55	WG1742353
Bromoform	U		0.000129	0.00100	1	09/19/2021 02:55	WG1742353
Bromomethane	U		0.000605	0.00500	1	09/19/2021 02:55	WG1742353
n-Butylbenzene	U		0.000157	0.00100	1	09/19/2021 02:55	WG1742353
sec-Butylbenzene	U		0.000125	0.00100	1	09/19/2021 02:55	WG1742353
Carbon disulfide	U		0.0000962	0.00100	1	09/19/2021 02:55	WG1742353
Carbon tetrachloride	U		0.000128	0.00100	1	09/19/2021 02:55	WG1742353
Chlorobenzene	U		0.000116	0.00100	1	09/19/2021 02:55	WG1742353
Chlorodibromomethane	U		0.000140	0.00100	1	09/19/2021 02:55	WG1742353
Chloroethane	U		0.000192	0.00500	1	09/19/2021 02:55	WG1742353
Chloroform	U		0.000111	0.00500	1	09/19/2021 02:55	WG1742353
Chloromethane	U		0.000960	0.00250	1	09/19/2021 02:55	WG1742353
1,2-Dibromoethane	U		0.000126	0.00100	1	09/19/2021 02:55	WG1742353
1,1-Dichloroethane	U		0.000100	0.00100	1	09/19/2021 02:55	WG1742353
1,2-Dichloroethane	U		0.0000819	0.00100	1	09/19/2021 02:55	WG1742353
1,1-Dichloroethene	U		0.000188	0.00100	1	09/19/2021 02:55	WG1742353
cis-1,2-Dichloroethene	0.000358	B J	0.000126	0.00100	1	09/19/2021 02:55	WG1742353
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	09/19/2021 02:55	WG1742353
1,2-Dichloropropane	U		0.000149	0.00100	1	09/19/2021 02:55	WG1742353
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	09/19/2021 02:55	WG1742353
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	09/19/2021 02:55	WG1742353
Ethylbenzene	U		0.000137	0.00100	1	09/19/2021 02:55	WG1742353
Isopropylbenzene	U		0.000105	0.00100	1	09/19/2021 02:55	WG1742353
p-Isopropyltoluene	U		0.000120	0.00100	1	09/19/2021 02:55	WG1742353
2-Butanone (MEK)	U		0.00119	0.0100	1	09/19/2021 02:55	WG1742353
2-Hexanone	U		0.000787	0.0100	1	09/19/2021 02:55	WG1742353
Methylene Chloride	U		0.000430	0.00500	1	09/19/2021 02:55	WG1742353
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	09/19/2021 02:55	WG1742353
Methyl tert-butyl ether	U		0.000101	0.00100	1	09/19/2021 02:55	WG1742353
Naphthalene	U		0.00100	0.00500	1	09/19/2021 02:55	WG1742353
n-Propylbenzene	U		0.0000993	0.00100	1	09/19/2021 02:55	WG1742353
Styrene	U		0.000118	0.00100	1	09/19/2021 02:55	WG1742353
tert-Butyl alcohol	U		0.00406	0.00500	1	09/19/2021 02:55	WG1742353
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	09/19/2021 02:55	WG1742353
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	09/19/2021 02:55	WG1742353
Tetrachloroethene	U		0.000300	0.00100	1	09/19/2021 02:55	WG1742353
Toluene	U		0.000278	0.00100	1	09/19/2021 02:55	WG1742353
1,1,1-Trichloroethane	U		0.000149	0.00100	1	09/19/2021 02:55	WG1742353
1,1,2-Trichloroethane	U		0.000158	0.00100	1	09/19/2021 02:55	WG1742353
Trichloroethene	U		0.000190	0.00100	1	09/19/2021 02:55	WG1742353
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/19/2021 02:55	WG1742353
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/19/2021 02:55	WG1742353
Vinyl chloride	U		0.000234	0.00100	1	09/19/2021 02:55	WG1742353
o-Xylene	U		0.000174	0.00100	1	09/19/2021 02:55	WG1742353
m&p-Xylene	U		0.000430	0.00200	1	09/19/2021 02:55	WG1742353
Xylenes, Total	U		0.000174	0.00300	1	09/19/2021 02:55	WG1742353
(S) Toluene-d8	*110*			*80.0-120*		*09/19/2021 02:55*	WG1742353
(S) 4-Bromofluorobenzene	*104*			*77.0-126*		*09/19/2021 02:55*	WG1742353
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*09/19/2021 02:55*	WG1742353

TRIP BLANK-TEL-01
Collected date/time: 09/14/21 00:00
L1404404

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	09/19/2021 03:15	WG1742353
Benzene	U		0.0000941	0.00100	1	09/19/2021 03:15	WG1742353
Bromodichloromethane	U		0.000136	0.00100	1	09/19/2021 03:15	WG1742353
Bromoform	U		0.000129	0.00100	1	09/19/2021 03:15	WG1742353
Bromomethane	U		0.000605	0.00500	1	09/19/2021 03:15	WG1742353
n-Butylbenzene	U		0.000157	0.00100	1	09/19/2021 03:15	WG1742353
sec-Butylbenzene	U		0.000125	0.00100	1	09/19/2021 03:15	WG1742353
Carbon disulfide	U		0.0000962	0.00100	1	09/19/2021 03:15	WG1742353
Carbon tetrachloride	U		0.000128	0.00100	1	09/19/2021 03:15	WG1742353
Chlorobenzene	U		0.000116	0.00100	1	09/19/2021 03:15	WG1742353
Chlorodibromomethane	U		0.000140	0.00100	1	09/19/2021 03:15	WG1742353
Chloroethane	U		0.000192	0.00500	1	09/19/2021 03:15	WG1742353
Chloroform	U		0.000111	0.00500	1	09/19/2021 03:15	WG1742353
Chloromethane	U		0.000960	0.00250	1	09/19/2021 03:15	WG1742353
1,2-Dibromoethane	U		0.000126	0.00100	1	09/19/2021 03:15	WG1742353
1,1-Dichloroethane	U		0.000100	0.00100	1	09/19/2021 03:15	WG1742353
1,2-Dichloroethane	U		0.0000819	0.00100	1	09/19/2021 03:15	WG1742353
1,1-Dichloroethene	U		0.000188	0.00100	1	09/19/2021 03:15	WG1742353
cis-1,2-Dichloroethene	0.000302	B J	0.000126	0.00100	1	09/19/2021 03:15	WG1742353
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	09/19/2021 03:15	WG1742353
1,2-Dichloropropane	U		0.000149	0.00100	1	09/19/2021 03:15	WG1742353
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	09/19/2021 03:15	WG1742353
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	09/19/2021 03:15	WG1742353
Ethylbenzene	U		0.000137	0.00100	1	09/19/2021 03:15	WG1742353
Isopropylbenzene	U		0.000105	0.00100	1	09/19/2021 03:15	WG1742353
p-Isopropyltoluene	U		0.000120	0.00100	1	09/19/2021 03:15	WG1742353
2-Butanone (MEK)	U		0.00119	0.0100	1	09/19/2021 03:15	WG1742353
2-Hexanone	U		0.000787	0.0100	1	09/19/2021 03:15	WG1742353
Methylene Chloride	U		0.000430	0.00500	1	09/19/2021 03:15	WG1742353
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	09/19/2021 03:15	WG1742353
Methyl tert-butyl ether	U		0.000101	0.00100	1	09/19/2021 03:15	WG1742353
Naphthalene	U		0.00100	0.00500	1	09/19/2021 03:15	WG1742353
n-Propylbenzene	U		0.0000993	0.00100	1	09/19/2021 03:15	WG1742353
Styrene	U		0.000118	0.00100	1	09/19/2021 03:15	WG1742353
tert-Butyl alcohol	U		0.00406	0.00500	1	09/19/2021 03:15	WG1742353
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	09/19/2021 03:15	WG1742353
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	09/19/2021 03:15	WG1742353
Tetrachloroethene	U		0.000300	0.00100	1	09/19/2021 03:15	WG1742353
Toluene	U		0.000278	0.00100	1	09/19/2021 03:15	WG1742353
1,1,1-Trichloroethane	U		0.000149	0.00100	1	09/19/2021 03:15	WG1742353
1,1,2-Trichloroethane	U		0.000158	0.00100	1	09/19/2021 03:15	WG1742353
Trichloroethene	U		0.000190	0.00100	1	09/19/2021 03:15	WG1742353
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/19/2021 03:15	WG1742353
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/19/2021 03:15	WG1742353
Vinyl chloride	U		0.000234	0.00100	1	09/19/2021 03:15	WG1742353
o-Xylene	U		0.000174	0.00100	1	09/19/2021 03:15	WG1742353
m&p-Xylene	U		0.000430	0.00200	1	09/19/2021 03:15	WG1742353
Xylenes, Total	U		0.000174	0.00300	1	09/19/2021 03:15	WG1742353
(S) Toluene-d8	*111*			*80.0-120*		*09/19/2021 03:15*	WG1742353
(S) 4-Bromofluorobenzene	*102*			*77.0-126*		*09/19/2021 03:15*	WG1742353
(S) 1,2-Dichloroethane-d4	*100*			*70.0-130*		*09/19/2021 03:15*	WG1742353

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3350		50.0	1	09/21/2021 14:21	WG1743639

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0500	0.100	1	09/24/2021 15:35	WG1745422

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	116		37.9	100	100	09/21/2021 12:01	WG1743622
Fluoride	0.795		0.0640	0.150	1	09/21/2021 11:46	WG1743622
Sulfate	1710		59.4	500	100	09/21/2021 12:01	WG1743622

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00715		0.000180	0.00200	1	09/23/2021 01:36	WG1742035
Barium	0.0298		0.000381	0.00200	1	09/23/2021 01:36	WG1742035
Calcium	361		0.0936	1.00	1	09/23/2021 01:36	WG1742035
Chromium	U		0.00124	0.00200	1	09/23/2021 01:36	WG1742035
Iron	0.355		0.0281	0.100	1	09/23/2021 01:36	WG1742035
Lead	U		0.000849	0.00200	1	09/23/2021 01:36	WG1742035
Manganese	1.35		0.000704	0.00500	1	09/23/2021 01:36	WG1742035
Potassium	0.466	J	0.108	2.00	1	09/23/2021 01:36	WG1742035
Selenium	U		0.000300	0.00200	1	09/23/2021 01:36	WG1742035
Sodium	207		0.376	2.00	1	09/23/2021 01:36	WG1742035

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.635		0.0314	0.100	1	09/23/2021 08:59	WG1744155
(S) a,a,a-Trifluorotoluene(FID)	*102*			*78.0-120*		*09/23/2021 08:59*	WG1744155

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	09/19/2021 06:39	WG1742353
Benzene	U		0.0000941	0.00100	1	09/19/2021 06:39	WG1742353
Bromodichloromethane	U		0.000136	0.00100	1	09/19/2021 06:39	WG1742353
Bromoform	U		0.000129	0.00100	1	09/19/2021 06:39	WG1742353
Bromomethane	U		0.000605	0.00500	1	09/19/2021 06:39	WG1742353
n-Butylbenzene	0.000167	B J	0.000157	0.00100	1	09/19/2021 06:39	WG1742353
sec-Butylbenzene	0.00810		0.000125	0.00100	1	09/19/2021 06:39	WG1742353
Carbon disulfide	U		0.0000962	0.00100	1	09/19/2021 06:39	WG1742353
Carbon tetrachloride	U		0.000128	0.00100	1	09/19/2021 06:39	WG1742353
Chlorobenzene	U		0.000116	0.00100	1	09/19/2021 06:39	WG1742353
Chlorodibromomethane	U		0.000140	0.00100	1	09/19/2021 06:39	WG1742353
Chloroethane	U		0.000192	0.00500	1	09/19/2021 06:39	WG1742353
Chloroform	U		0.000111	0.00500	1	09/19/2021 06:39	WG1742353
Chloromethane	U		0.000960	0.00250	1	09/19/2021 06:39	WG1742353
1,2-Dibromoethane	U		0.000126	0.00100	1	09/19/2021 06:39	WG1742353
1,1-Dichloroethane	U		0.000100	0.00100	1	09/19/2021 06:39	WG1742353

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.0000819	0.00100	1	09/19/2021 06:39	WG1742353
1,1-Dichloroethene	U		0.000188	0.00100	1	09/19/2021 06:39	WG1742353
cis-1,2-Dichloroethene	0.000128	B J	0.000126	0.00100	1	09/19/2021 06:39	WG1742353
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	09/19/2021 06:39	WG1742353
1,2-Dichloropropane	U		0.000149	0.00100	1	09/19/2021 06:39	WG1742353
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	09/19/2021 06:39	WG1742353
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	09/19/2021 06:39	WG1742353
Ethylbenzene	U		0.000137	0.00100	1	09/19/2021 06:39	WG1742353
Isopropylbenzene	0.0163		0.000105	0.00100	1	09/19/2021 06:39	WG1742353
p-Isopropyltoluene	U		0.000120	0.00100	1	09/19/2021 06:39	WG1742353
2-Butanone (MEK)	U		0.00119	0.0100	1	09/19/2021 06:39	WG1742353
2-Hexanone	U		0.000787	0.0100	1	09/19/2021 06:39	WG1742353
Methylene Chloride	U		0.000430	0.00500	1	09/19/2021 06:39	WG1742353
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	09/19/2021 06:39	WG1742353
Methyl tert-butyl ether	U		0.000101	0.00100	1	09/19/2021 06:39	WG1742353
Naphthalene	U		0.00100	0.00500	1	09/19/2021 06:39	WG1742353
n-Propylbenzene	0.00309		0.0000993	0.00100	1	09/19/2021 06:39	WG1742353
Styrene	U		0.000118	0.00100	1	09/19/2021 06:39	WG1742353
tert-Butyl alcohol	U		0.00406	0.00500	1	09/19/2021 06:39	WG1742353
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	09/19/2021 06:39	WG1742353
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	09/19/2021 06:39	WG1742353
Tetrachloroethene	U		0.000300	0.00100	1	09/19/2021 06:39	WG1742353
Toluene	U		0.000278	0.00100	1	09/19/2021 06:39	WG1742353
1,1,1-Trichloroethane	U		0.000149	0.00100	1	09/19/2021 06:39	WG1742353
1,1,2-Trichloroethane	U		0.000158	0.00100	1	09/19/2021 06:39	WG1742353
Trichloroethene	U		0.000190	0.00100	1	09/19/2021 06:39	WG1742353
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/19/2021 06:39	WG1742353
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/19/2021 06:39	WG1742353
Vinyl chloride	U		0.000234	0.00100	1	09/19/2021 06:39	WG1742353
o-Xylene	U		0.000174	0.00100	1	09/19/2021 06:39	WG1742353
m&p-Xylene	U		0.000430	0.00200	1	09/19/2021 06:39	WG1742353
Xylenes, Total	U		0.000174	0.00300	1	09/19/2021 06:39	WG1742353
(S) Toluene-d8	*101*			*80.0-120*		*09/19/2021 06:39*	WG1742353
(S) 4-Bromofluorobenzene	*98.5*			*77.0-126*		*09/19/2021 06:39*	WG1742353
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*09/19/2021 06:39*	WG1742353

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	1.91		0.0247	0.100	1	09/21/2021 16:41	WG1743064
(S) o-Terphenyl	*112*			*31.0-160*		*09/21/2021 16:41*	WG1743064

Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	U		0.0000447	0.000400	1	09/19/2021 10:23	WG1742189
(S) Nitrobenzene-d5	*18.1*			*10.0-120*		*09/19/2021 10:23*	WG1742189

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	9740		100	1	09/21/2021 14:21	WG1743639

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	266		5.00	10.0	100	09/24/2021 15:37	WG1745422

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	477		37.9	100	100	09/21/2021 12:33	WG1743622
Fluoride	5.41		0.0640	0.150	1	09/21/2021 12:17	WG1743622
Sulfate	4950		59.4	500	100	09/21/2021 12:33	WG1743622

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00292		0.000180	0.00200	1	09/23/2021 01:56	WG1742035
Barium	0.0142		0.000381	0.00200	1	09/23/2021 01:56	WG1742035
Calcium	513		0.0936	1.00	1	09/23/2021 01:56	WG1742035
Chromium	U		0.00124	0.00200	1	09/23/2021 01:56	WG1742035
Iron	0.191		0.0281	0.100	1	09/23/2021 01:56	WG1742035
Lead	U		0.000849	0.00200	1	09/23/2021 01:56	WG1742035
Manganese	0.156		0.000704	0.00500	1	09/23/2021 01:56	WG1742035
Potassium	9.75		0.108	2.00	1	09/23/2021 01:56	WG1742035
Selenium	0.120		0.000300	0.00200	1	09/23/2021 01:56	WG1742035
Sodium	851		0.376	2.00	1	09/23/2021 01:56	WG1742035

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	09/19/2021 07:00	WG1742353
Benzene	U		0.0000941	0.00100	1	09/19/2021 07:00	WG1742353
Bromodichloromethane	U		0.000136	0.00100	1	09/19/2021 07:00	WG1742353
Bromoform	U		0.000129	0.00100	1	09/19/2021 07:00	WG1742353
Bromomethane	U		0.000605	0.00500	1	09/19/2021 07:00	WG1742353
n-Butylbenzene	U		0.000157	0.00100	1	09/19/2021 07:00	WG1742353
sec-Butylbenzene	0.000621	B J	0.000125	0.00100	1	09/19/2021 07:00	WG1742353
Carbon disulfide	U		0.0000962	0.00100	1	09/19/2021 07:00	WG1742353
Carbon tetrachloride	U		0.000128	0.00100	1	09/19/2021 07:00	WG1742353
Chlorobenzene	U		0.000116	0.00100	1	09/19/2021 07:00	WG1742353
Chlorodibromomethane	U		0.000140	0.00100	1	09/19/2021 07:00	WG1742353
Chloroethane	U		0.000192	0.00500	1	09/19/2021 07:00	WG1742353
Chloroform	U		0.000111	0.00500	1	09/19/2021 07:00	WG1742353
Chloromethane	U		0.000960	0.00250	1	09/19/2021 07:00	WG1742353
1,2-Dibromoethane	U		0.000126	0.00100	1	09/19/2021 07:00	WG1742353
1,1-Dichloroethane	U		0.000100	0.00100	1	09/19/2021 07:00	WG1742353
1,2-Dichloroethane	U		0.0000819	0.00100	1	09/19/2021 07:00	WG1742353
1,1-Dichloroethene	U		0.000188	0.00100	1	09/19/2021 07:00	WG1742353
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	09/19/2021 07:00	WG1742353
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	09/19/2021 07:00	WG1742353
1,2-Dichloropropane	U		0.000149	0.00100	1	09/19/2021 07:00	WG1742353
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	09/19/2021 07:00	WG1742353
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	09/19/2021 07:00	WG1742353

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Ethylbenzene	U		0.000137	0.00100	1	09/19/2021 07:00	WG1742353
Isopropylbenzene	0.000722	J	0.000105	0.00100	1	09/19/2021 07:00	WG1742353
p-Isopropyltoluene	U		0.000120	0.00100	1	09/19/2021 07:00	WG1742353
2-Butanone (MEK)	U		0.00119	0.0100	1	09/19/2021 07:00	WG1742353
2-Hexanone	U		0.000787	0.0100	1	09/19/2021 07:00	WG1742353
Methylene Chloride	U		0.000430	0.00500	1	09/19/2021 07:00	WG1742353
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	09/19/2021 07:00	WG1742353
Methyl tert-butyl ether	U		0.000101	0.00100	1	09/19/2021 07:00	WG1742353
Naphthalene	U		0.00100	0.00500	1	09/19/2021 07:00	WG1742353
n-Propylbenzene	0.000219	J	0.0000993	0.00100	1	09/19/2021 07:00	WG1742353
Styrene	U		0.000118	0.00100	1	09/19/2021 07:00	WG1742353
tert-Butyl alcohol	U		0.00406	0.00500	1	09/19/2021 07:00	WG1742353
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	09/19/2021 07:00	WG1742353
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	09/19/2021 07:00	WG1742353
Tetrachloroethene	U		0.000300	0.00100	1	09/19/2021 07:00	WG1742353
Toluene	U		0.000278	0.00100	1	09/19/2021 07:00	WG1742353
1,1,1-Trichloroethane	U		0.000149	0.00100	1	09/19/2021 07:00	WG1742353
1,1,2-Trichloroethane	U		0.000158	0.00100	1	09/19/2021 07:00	WG1742353
Trichloroethene	U		0.000190	0.00100	1	09/19/2021 07:00	WG1742353
1,2,4-Trimethylbenzene	0.000688	J	0.000322	0.00100	1	09/19/2021 07:00	WG1742353
1,3,5-Trimethylbenzene	0.000143	J	0.000104	0.00100	1	09/19/2021 07:00	WG1742353
Vinyl chloride	U		0.000234	0.00100	1	09/19/2021 07:00	WG1742353
o-Xylene	U		0.000174	0.00100	1	09/19/2021 07:00	WG1742353
m&p-Xylene	U		0.000430	0.00200	1	09/19/2021 07:00	WG1742353
Xylenes, Total	U		0.000174	0.00300	1	09/19/2021 07:00	WG1742353
(S) Toluene-d8	*109*			*80.0-120*		*09/19/2021 07:00*	WG1742353
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*09/19/2021 07:00*	WG1742353
(S) 1,2-Dichloroethane-d4	*99.6*			*70.0-130*		*09/19/2021 07:00*	WG1742353

EDB / DBCP by Method 8011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Ethylene Dibromide	U		0.00000536	0.0000200	1	09/21/2021 05:14	WG1742964

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.437		0.0247	0.100	1	09/21/2021 17:07	WG1743064
(S) o-Terphenyl	*103*			*31.0-160*		*09/21/2021 17:07*	WG1743064

Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	U		0.0000447	0.000400	1	09/19/2021 16:10	WG1742189
(S) Nitrobenzene-d5	*21.4*			*10.0-120*		*09/19/2021 16:10*	WG1742189

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4090		50.0	1	09/21/2021 14:21	WG1743639

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		1.00	2.00	20	09/24/2021 15:38	WG1745422

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	163		37.9	100	100	09/21/2021 13:05	WG1743622
Fluoride	3.03		0.0640	0.150	1	09/21/2021 12:49	WG1743622
Sulfate	2330		59.4	500	100	09/21/2021 13:05	WG1743622

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00920		0.000180	0.00200	1	09/23/2021 02:00	WG1742035
Barium	0.0174		0.000381	0.00200	1	09/23/2021 02:00	WG1742035
Calcium	452		0.0936	1.00	1	09/23/2021 02:00	WG1742035
Chromium	U		0.00124	0.00200	1	09/23/2021 02:00	WG1742035
Iron	0.800		0.0281	0.100	1	09/23/2021 02:00	WG1742035
Lead	U		0.000849	0.00200	1	09/23/2021 02:00	WG1742035
Manganese	0.533		0.000704	0.00500	1	09/23/2021 02:00	WG1742035
Potassium	1.75	J	0.108	2.00	1	09/23/2021 02:00	WG1742035
Selenium	0.00178	J	0.000300	0.00200	1	09/23/2021 02:00	WG1742035
Sodium	133		0.376	2.00	1	09/23/2021 02:00	WG1742035

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.384		0.0314	0.100	1	09/23/2021 18:30	WG1745490
(S) a,a,a-Trifluorotoluene(FID)	*95.5*			*78.0-120*		*09/23/2021 18:30*	WG1745490

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.113	0.500	10	09/20/2021 19:53	WG1743286
Benzene	0.00730	J	0.000941	0.0100	10	09/20/2021 19:53	WG1743286
Bromodichloromethane	U		0.00136	0.0100	10	09/20/2021 19:53	WG1743286
Bromoform	U		0.00129	0.0100	10	09/20/2021 19:53	WG1743286
Bromomethane	U		0.00605	0.0500	10	09/20/2021 19:53	WG1743286
n-Butylbenzene	U		0.00157	0.0100	10	09/20/2021 19:53	WG1743286
sec-Butylbenzene	0.00498	J	0.00125	0.0100	10	09/20/2021 19:53	WG1743286
Carbon disulfide	U		0.000962	0.0100	10	09/20/2021 19:53	WG1743286
Carbon tetrachloride	U		0.00128	0.0100	10	09/20/2021 19:53	WG1743286
Chlorobenzene	U		0.00116	0.0100	10	09/20/2021 19:53	WG1743286
Chlorodibromomethane	U		0.00140	0.0100	10	09/20/2021 19:53	WG1743286
Chloroethane	U		0.00192	0.0500	10	09/20/2021 19:53	WG1743286
Chloroform	U		0.00111	0.0500	10	09/20/2021 19:53	WG1743286
Chloromethane	U		0.00960	0.0250	10	09/20/2021 19:53	WG1743286
1,2-Dibromoethane	U		0.00126	0.0100	10	09/20/2021 19:53	WG1743286
1,1-Dichloroethane	U		0.00100	0.0100	10	09/20/2021 19:53	WG1743286

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.000819	0.0100	10	09/20/2021 19:53	WG1743286
1,1-Dichloroethene	U		0.00188	0.0100	10	09/20/2021 19:53	WG1743286
cis-1,2-Dichloroethene	U		0.00126	0.0100	10	09/20/2021 19:53	WG1743286
trans-1,2-Dichloroethene	U		0.00149	0.0100	10	09/20/2021 19:53	WG1743286
1,2-Dichloropropane	U		0.00149	0.0100	10	09/20/2021 19:53	WG1743286
cis-1,3-Dichloropropene	U		0.00111	0.0100	10	09/20/2021 19:53	WG1743286
trans-1,3-Dichloropropene	U		0.00118	0.0100	10	09/20/2021 19:53	WG1743286
Ethylbenzene	U		0.00137	0.0100	10	09/20/2021 19:53	WG1743286
Isopropylbenzene	0.0265		0.00105	0.0100	10	09/20/2021 19:53	WG1743286
p-Isopropyltoluene	U		0.00120	0.0100	10	09/20/2021 19:53	WG1743286
2-Butanone (MEK)	U	J3	0.0119	0.100	10	09/20/2021 19:53	WG1743286
2-Hexanone	U		0.00787	0.100	10	09/20/2021 19:53	WG1743286
Methylene Chloride	U		0.00430	0.0500	10	09/20/2021 19:53	WG1743286
4-Methyl-2-pentanone (MIBK)	U		0.00478	0.100	10	09/20/2021 19:53	WG1743286
Methyl tert-butyl ether	U		0.00101	0.0100	10	09/20/2021 19:53	WG1743286
Naphthalene	U		0.0100	0.0500	10	09/23/2021 23:46	WG1745489
n-Propylbenzene	0.00903	J	0.000993	0.0100	10	09/20/2021 19:53	WG1743286
Styrene	U		0.00118	0.0100	10	09/20/2021 19:53	WG1743286
tert-Butyl alcohol	U	J3	0.0406	0.0500	10	09/20/2021 19:53	WG1743286
1,1,1,2-Tetrachloroethane	U		0.00147	0.0100	10	09/20/2021 19:53	WG1743286
1,1,2,2-Tetrachloroethane	U		0.00133	0.0100	10	09/20/2021 19:53	WG1743286
Tetrachloroethene	U		0.00300	0.0100	10	09/20/2021 19:53	WG1743286
Toluene	U		0.00278	0.0100	10	09/20/2021 19:53	WG1743286
1,1,1-Trichloroethane	U		0.00149	0.0100	10	09/20/2021 19:53	WG1743286
1,1,2-Trichloroethane	U		0.00158	0.0100	10	09/20/2021 19:53	WG1743286
Trichloroethene	U		0.00190	0.0100	10	09/20/2021 19:53	WG1743286
1,2,4-Trimethylbenzene	U		0.00322	0.0100	10	09/20/2021 19:53	WG1743286
1,3,5-Trimethylbenzene	U		0.00104	0.0100	10	09/20/2021 19:53	WG1743286
Vinyl chloride	U		0.00234	0.0100	10	09/20/2021 19:53	WG1743286
o-Xylene	U		0.00174	0.0100	10	09/20/2021 19:53	WG1743286
m&p-Xylene	U		0.00430	0.0200	10	09/20/2021 19:53	WG1743286
Xylenes, Total	U		0.00174	0.0300	10	09/20/2021 19:53	WG1743286
(S) Toluene-d8	*105*			*80.0-120*		*09/20/2021 19:53*	WG1743286
(S) Toluene-d8	*99.7*			*80.0-120*		*09/23/2021 23:46*	WG1745489
(S) 4-Bromofluorobenzene	*92.6*			*77.0-126*		*09/20/2021 19:53*	WG1743286
(S) 4-Bromofluorobenzene	*90.9*			*77.0-126*		*09/23/2021 23:46*	WG1745489
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*09/20/2021 19:53*	WG1743286
(S) 1,2-Dichloroethane-d4	*124*			*70.0-130*		*09/23/2021 23:46*	WG1745489

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	3.31		0.0247	0.100	1	09/21/2021 17:32	WG1743064
(S) o-Terphenyl	*102*			*31.0-160*		*09/21/2021 17:32*	WG1743064

Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	U		0.0000447	0.000400	1	09/19/2021 10:42	WG1742189
(S) Nitrobenzene-d5	*26.2*			*10.0-120*		*09/19/2021 10:42*	WG1742189

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1800		40.0	1	09/21/2021 14:21	WG1743639

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.500	1.00	10	09/24/2021 15:39	WG1745422

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	129		3.79	10.0	10	09/21/2021 15:29	WG1743622
Fluoride	1.37		0.0640	0.150	1	09/21/2021 14:24	WG1743622
Sulfate	422		5.94	50.0	10	09/21/2021 15:29	WG1743622

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00294		0.000180	0.00200	1	09/23/2021 02:03	WG1742035
Barium	0.175		0.000381	0.00200	1	09/23/2021 02:03	WG1742035
Calcium	207		0.0936	1.00	1	09/23/2021 02:03	WG1742035
Chromium	U		0.00124	0.00200	1	09/23/2021 02:03	WG1742035
Iron	0.892		0.0281	0.100	1	09/23/2021 02:03	WG1742035
Lead	U		0.000849	0.00200	1	09/23/2021 02:03	WG1742035
Manganese	0.0364		0.000704	0.00500	1	09/23/2021 02:03	WG1742035
Potassium	1.29	J	0.108	2.00	1	09/23/2021 02:03	WG1742035
Selenium	0.000317	J	0.000300	0.00200	1	09/23/2021 02:03	WG1742035
Sodium	193		0.376	2.00	1	09/23/2021 02:03	WG1742035

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	14.5		0.314	1.00	10	09/23/2021 09:59	WG1744681
(S) a,a,a-Trifluorotoluene(FID)	*108*			*78.0-120*		*09/23/2021 09:59*	WG1744681

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.113	0.500	10	09/19/2021 09:22	WG1742353
Benzene	0.00122	J	0.000941	0.0100	10	09/19/2021 09:22	WG1742353
Bromodichloromethane	U		0.00136	0.0100	10	09/19/2021 09:22	WG1742353
Bromoform	U		0.00129	0.0100	10	09/19/2021 09:22	WG1742353
Bromomethane	U		0.00605	0.0500	10	09/19/2021 09:22	WG1742353
n-Butylbenzene	0.00493	B J	0.00157	0.0100	10	09/19/2021 09:22	WG1742353
sec-Butylbenzene	0.0111	B	0.00125	0.0100	10	09/19/2021 09:22	WG1742353
Carbon disulfide	U		0.000962	0.0100	10	09/19/2021 09:22	WG1742353
Carbon tetrachloride	U		0.00128	0.0100	10	09/19/2021 09:22	WG1742353
Chlorobenzene	U		0.00116	0.0100	10	09/19/2021 09:22	WG1742353
Chlorodibromomethane	U		0.00140	0.0100	10	09/19/2021 09:22	WG1742353
Chloroethane	U		0.00192	0.0500	10	09/19/2021 09:22	WG1742353
Chloroform	U		0.00111	0.0500	10	09/19/2021 09:22	WG1742353
Chloromethane	U		0.00960	0.0250	10	09/19/2021 09:22	WG1742353
1,2-Dibromoethane	U		0.00126	0.0100	10	09/19/2021 09:22	WG1742353
1,1-Dichloroethane	U		0.00100	0.0100	10	09/19/2021 09:22	WG1742353

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.000819	0.0100	10	09/19/2021 09:22	WG1742353
1,1-Dichloroethene	U		0.00188	0.0100	10	09/19/2021 09:22	WG1742353
cis-1,2-Dichloroethene	U		0.00126	0.0100	10	09/19/2021 09:22	WG1742353
trans-1,2-Dichloroethene	U		0.00149	0.0100	10	09/19/2021 09:22	WG1742353
1,2-Dichloropropane	U		0.00149	0.0100	10	09/19/2021 09:22	WG1742353
cis-1,3-Dichloropropene	U		0.00111	0.0100	10	09/19/2021 09:22	WG1742353
trans-1,3-Dichloropropene	U		0.00118	0.0100	10	09/19/2021 09:22	WG1742353
Ethylbenzene	0.00320	J	0.00137	0.0100	10	09/19/2021 09:22	WG1742353
Isopropylbenzene	0.0683		0.00105	0.0100	10	09/19/2021 09:22	WG1742353
p-Isopropyltoluene	U		0.00120	0.0100	10	09/19/2021 09:22	WG1742353
2-Butanone (MEK)	U		0.0119	0.100	10	09/19/2021 09:22	WG1742353
2-Hexanone	U		0.00787	0.100	10	09/19/2021 09:22	WG1742353
Methylene Chloride	U		0.00430	0.0500	10	09/19/2021 09:22	WG1742353
4-Methyl-2-pentanone (MIBK)	U		0.00478	0.100	10	09/19/2021 09:22	WG1742353
Methyl tert-butyl ether	29.5		0.0505	0.500	500	09/20/2021 20:13	WG1743286
Naphthalene	0.0248	J	0.0100	0.0500	10	09/19/2021 09:22	WG1742353
n-Propylbenzene	0.0591		0.000993	0.0100	10	09/19/2021 09:22	WG1742353
Styrene	U		0.00118	0.0100	10	09/19/2021 09:22	WG1742353
tert-Butyl alcohol	U		0.0406	0.0500	10	09/19/2021 09:22	WG1742353
1,1,1,2-Tetrachloroethane	U		0.00147	0.0100	10	09/19/2021 09:22	WG1742353
1,1,2,2-Tetrachloroethane	U		0.00133	0.0100	10	09/19/2021 09:22	WG1742353
Tetrachloroethene	U		0.00300	0.0100	10	09/19/2021 09:22	WG1742353
Toluene	U		0.00278	0.0100	10	09/19/2021 09:22	WG1742353
1,1,1-Trichloroethane	U		0.00149	0.0100	10	09/19/2021 09:22	WG1742353
1,1,2-Trichloroethane	U		0.00158	0.0100	10	09/19/2021 09:22	WG1742353
Trichloroethene	U		0.00190	0.0100	10	09/19/2021 09:22	WG1742353
1,2,4-Trimethylbenzene	0.0116		0.00322	0.0100	10	09/19/2021 09:22	WG1742353
1,3,5-Trimethylbenzene	0.00109	J	0.00104	0.0100	10	09/19/2021 09:22	WG1742353
Vinyl chloride	U		0.00234	0.0100	10	09/19/2021 09:22	WG1742353
o-Xylene	0.00179	J	0.00174	0.0100	10	09/19/2021 09:22	WG1742353
m&p-Xylene	U		0.00430	0.0200	10	09/19/2021 09:22	WG1742353
Xylenes, Total	0.00179	J	0.00174	0.0300	10	09/19/2021 09:22	WG1742353
(S) Toluene-d8	*111*			*80.0-120*		*09/19/2021 09:22*	WG1742353
(S) Toluene-d8	*104*			*80.0-120*		*09/20/2021 20:13*	WG1743286
(S) 4-Bromofluorobenzene	*106*			*77.0-126*		*09/19/2021 09:22*	WG1742353
(S) 4-Bromofluorobenzene	*91.6*			*77.0-126*		*09/20/2021 20:13*	WG1743286
(S) 1,2-Dichloroethane-d4	*100*			*70.0-130*		*09/19/2021 09:22*	WG1742353
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*09/20/2021 20:13*	WG1743286

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	8.33		0.0247	0.100	1	09/21/2021 17:58	WG1743064
(S) o-Terphenyl	*144*			*31.0-160*		*09/21/2021 17:58*	WG1743064

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2520		50.0	1	09/21/2021 14:21	WG1743639

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0500	0.100	1	09/24/2021 15:40	WG1745422

Wet Chemistry by Method 4500CN E-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Cyanide	U		0.00180	0.00500	1	09/23/2021 16:52	WG1745026

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	448		37.9	100	100	09/21/2021 13:36	WG1743622
Fluoride	1.58		0.0640	0.150	1	09/21/2021 13:20	WG1743622
Sulfate	770		59.4	500	100	09/21/2021 13:36	WG1743622

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U		0.000100	0.000200	1	09/22/2021 15:03	WG1741778

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	0.608		0.0200	0.200	1	09/23/2021 03:48	WG1742039

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00611		0.000180	0.00200	1	09/23/2021 02:07	WG1742035
Barium	0.0144		0.000381	0.00200	1	09/23/2021 02:07	WG1742035
Cadmium	U		0.000150	0.00100	1	09/23/2021 02:07	WG1742035
Calcium	282		0.0936	1.00	1	09/23/2021 02:07	WG1742035
Chromium	U		0.00124	0.00200	1	09/23/2021 02:07	WG1742035
Cobalt	0.000311	J	0.0000596	0.00200	1	09/23/2021 02:07	WG1742035
Iron	U		0.0281	0.100	1	09/23/2021 02:07	WG1742035
Lead	U		0.000849	0.00200	1	09/23/2021 02:07	WG1742035
Manganese	0.202		0.000704	0.00500	1	09/23/2021 02:07	WG1742035
Nickel	0.00617		0.000816	0.00200	1	09/23/2021 02:07	WG1742035
Potassium	0.644	J	0.108	2.00	1	09/23/2021 02:07	WG1742035
Selenium	0.00121	J	0.000300	0.00200	1	09/23/2021 02:07	WG1742035
Sodium	199		0.376	2.00	1	09/23/2021 02:07	WG1742035
Uranium	0.0272		0.0000789	0.00100	1	09/23/2021 02:07	WG1742035
Vanadium	0.0176		0.000664	0.00500	1	09/23/2021 02:07	WG1742035

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.187		0.0314	0.100	1	09/23/2021 09:16	WG1744681

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
(S) a,a,a-Trifluorotoluene(FID)	*111*			*78.0-120*		*09/23/2021 09:16*	WG1744681

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	09/19/2021 07:20	WG1742353
Benzene	U		0.0000941	0.00100	1	09/19/2021 07:20	WG1742353
Bromodichloromethane	U		0.000136	0.00100	1	09/19/2021 07:20	WG1742353
Bromoform	U		0.000129	0.00100	1	09/19/2021 07:20	WG1742353
Bromomethane	U		0.000605	0.00500	1	09/19/2021 07:20	WG1742353
n-Butylbenzene	U		0.000157	0.00100	1	09/19/2021 07:20	WG1742353
sec-Butylbenzene	0.000184	B J	0.000125	0.00100	1	09/19/2021 07:20	WG1742353
Carbon disulfide	U		0.0000962	0.00100	1	09/19/2021 07:20	WG1742353
Carbon tetrachloride	U		0.000128	0.00100	1	09/19/2021 07:20	WG1742353
Chlorobenzene	U		0.000116	0.00100	1	09/19/2021 07:20	WG1742353
Chlorodibromomethane	U		0.000140	0.00100	1	09/19/2021 07:20	WG1742353
Chloroethane	U		0.000192	0.00500	1	09/19/2021 07:20	WG1742353
Chloroform	U		0.000111	0.00500	1	09/19/2021 07:20	WG1742353
Chloromethane	U		0.000960	0.00250	1	09/19/2021 07:20	WG1742353
1,2-Dibromoethane	U		0.000126	0.00100	1	09/19/2021 07:20	WG1742353
1,1-Dichloroethane	U		0.000100	0.00100	1	09/19/2021 07:20	WG1742353
1,2-Dichloroethane	U		0.0000819	0.00100	1	09/19/2021 07:20	WG1742353
1,1-Dichloroethene	U		0.000188	0.00100	1	09/19/2021 07:20	WG1742353
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	09/19/2021 07:20	WG1742353
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	09/19/2021 07:20	WG1742353
1,2-Dichloropropane	U		0.000149	0.00100	1	09/19/2021 07:20	WG1742353
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	09/19/2021 07:20	WG1742353
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	09/19/2021 07:20	WG1742353
Ethylbenzene	U		0.000137	0.00100	1	09/19/2021 07:20	WG1742353
Isopropylbenzene	U		0.000105	0.00100	1	09/19/2021 07:20	WG1742353
p-Isopropyltoluene	U		0.000120	0.00100	1	09/19/2021 07:20	WG1742353
2-Butanone (MEK)	U		0.00119	0.0100	1	09/19/2021 07:20	WG1742353
2-Hexanone	U		0.000787	0.0100	1	09/19/2021 07:20	WG1742353
Methylene Chloride	U		0.000430	0.00500	1	09/19/2021 07:20	WG1742353
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	09/19/2021 07:20	WG1742353
Methyl tert-butyl ether	0.318		0.00101	0.0100	10	09/20/2021 20:33	WG1743286
Naphthalene	U		0.00100	0.00500	1	09/19/2021 07:20	WG1742353
n-Propylbenzene	U		0.0000993	0.00100	1	09/19/2021 07:20	WG1742353
Styrene	U		0.000118	0.00100	1	09/19/2021 07:20	WG1742353
tert-Butyl alcohol	U		0.00406	0.00500	1	09/19/2021 07:20	WG1742353
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	09/19/2021 07:20	WG1742353
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	09/19/2021 07:20	WG1742353
Tetrachloroethene	U		0.000300	0.00100	1	09/19/2021 07:20	WG1742353
Toluene	U		0.000278	0.00100	1	09/19/2021 07:20	WG1742353
1,1,1-Trichloroethane	U		0.000149	0.00100	1	09/19/2021 07:20	WG1742353
1,1,2-Trichloroethane	U		0.000158	0.00100	1	09/19/2021 07:20	WG1742353
Trichloroethene	U		0.000190	0.00100	1	09/19/2021 07:20	WG1742353
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/19/2021 07:20	WG1742353
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/19/2021 07:20	WG1742353
Vinyl chloride	U		0.000234	0.00100	1	09/19/2021 07:20	WG1742353
o-Xylene	U		0.000174	0.00100	1	09/19/2021 07:20	WG1742353
m&p-Xylene	U		0.000430	0.00200	1	09/19/2021 07:20	WG1742353
Xylenes, Total	U		0.000174	0.00300	1	09/19/2021 07:20	WG1742353
(S) Toluene-d8	*108*			*80.0-120*		*09/19/2021 07:20*	WG1742353
(S) Toluene-d8	*102*			*80.0-120*		*09/20/2021 20:33*	WG1743286

MW-33
Collected date/time: 09/14/21 14:20
L1404404

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
(S) 4-Bromofluorobenzene	*104*			*77.0-126*		*09/19/2021 07:20*	WG1742353
(S) 4-Bromofluorobenzene	*91.4*			*77.0-126*		*09/20/2021 20:33*	WG1743286
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*09/19/2021 07:20*	WG1742353
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*09/20/2021 20:33*	WG1743286

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) High Fraction	1.41		0.0247	0.100	1	09/21/2021 18:24	WG1743064
(S) o-Terphenyl	*123*			*31.0-160*		*09/21/2021 18:24*	WG1743064

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3690		50.0	1	09/21/2021 14:21	WG1743639

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0500	0.100	1	09/24/2021 15:42	WG1745422

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	647		37.9	100	100	09/21/2021 16:17	WG1743622
Fluoride	2.90		0.0640	0.150	1	09/21/2021 16:01	WG1743622
Sulfate	1340		59.4	500	100	09/21/2021 16:17	WG1743622

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00642		0.000180	0.00200	1	09/23/2021 02:10	WG1742035
Barium	0.0206		0.000381	0.00200	1	09/23/2021 02:10	WG1742035
Calcium	548		0.0936	1.00	1	09/23/2021 02:10	WG1742035
Chromium	U		0.00124	0.00200	1	09/23/2021 02:10	WG1742035
Iron	3.17		0.0281	0.100	1	09/23/2021 02:10	WG1742035
Lead	U		0.000849	0.00200	1	09/23/2021 02:10	WG1742035
Manganese	0.167		0.000704	0.00500	1	09/23/2021 02:10	WG1742035
Potassium	6.37		0.108	2.00	1	09/23/2021 02:10	WG1742035
Selenium	0.00154	J	0.000300	0.00200	1	09/23/2021 02:10	WG1742035
Sodium	254		0.376	2.00	1	09/23/2021 02:10	WG1742035

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	09/18/2021 13:05	WG1742363
Benzene	U		0.0000941	0.00100	1	09/18/2021 13:05	WG1742363
Bromodichloromethane	U		0.000136	0.00100	1	09/18/2021 13:05	WG1742363
Bromoform	U		0.000129	0.00100	1	09/18/2021 13:05	WG1742363
Bromomethane	U		0.000605	0.00500	1	09/18/2021 13:05	WG1742363
n-Butylbenzene	U		0.000157	0.00100	1	09/18/2021 13:05	WG1742363
sec-Butylbenzene	U		0.000125	0.00100	1	09/18/2021 13:05	WG1742363
Carbon disulfide	U		0.0000962	0.00100	1	09/18/2021 13:05	WG1742363
Carbon tetrachloride	U		0.000128	0.00100	1	09/18/2021 13:05	WG1742363
Chlorobenzene	U		0.000116	0.00100	1	09/18/2021 13:05	WG1742363
Chlorodibromomethane	U		0.000140	0.00100	1	09/18/2021 13:05	WG1742363
Chloroethane	U		0.000192	0.00500	1	09/18/2021 13:05	WG1742363
Chloroform	U		0.000111	0.00500	1	09/18/2021 13:05	WG1742363
Chloromethane	U		0.000960	0.00250	1	09/18/2021 13:05	WG1742363
1,2-Dibromoethane	U		0.000126	0.00100	1	09/18/2021 13:05	WG1742363
1,1-Dichloroethane	U		0.000100	0.00100	1	09/18/2021 13:05	WG1742363
1,2-Dichloroethane	U		0.0000819	0.00100	1	09/18/2021 13:05	WG1742363
1,1-Dichloroethene	U		0.000188	0.00100	1	09/18/2021 13:05	WG1742363
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	09/18/2021 13:05	WG1742363
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	09/18/2021 13:05	WG1742363
1,2-Dichloropropane	U		0.000149	0.00100	1	09/18/2021 13:05	WG1742363
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	09/18/2021 13:05	WG1742363
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	09/18/2021 13:05	WG1742363

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Ethylbenzene	U		0.000137	0.00100	1	09/18/2021 13:05	WG1742363
Isopropylbenzene	U		0.000105	0.00100	1	09/18/2021 13:05	WG1742363
p-Isopropyltoluene	U		0.000120	0.00100	1	09/18/2021 13:05	WG1742363
2-Butanone (MEK)	U		0.00119	0.0100	1	09/18/2021 13:05	WG1742363
2-Hexanone	U		0.000787	0.0100	1	09/18/2021 13:05	WG1742363
Methylene Chloride	U		0.000430	0.00500	1	09/18/2021 13:05	WG1742363
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	09/18/2021 13:05	WG1742363
Methyl tert-butyl ether	0.000377	J	0.000101	0.00100	1	09/18/2021 13:05	WG1742363
Naphthalene	U		0.00100	0.00500	1	09/18/2021 13:05	WG1742363
n-Propylbenzene	U		0.0000993	0.00100	1	09/18/2021 13:05	WG1742363
Styrene	U		0.000118	0.00100	1	09/18/2021 13:05	WG1742363
tert-Butyl alcohol	U		0.00406	0.00500	1	09/18/2021 13:05	WG1742363
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	09/18/2021 13:05	WG1742363
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	09/18/2021 13:05	WG1742363
Tetrachloroethene	U		0.000300	0.00100	1	09/18/2021 13:05	WG1742363
Toluene	U		0.000278	0.00100	1	09/18/2021 13:05	WG1742363
1,1,1-Trichloroethane	U		0.000149	0.00100	1	09/18/2021 13:05	WG1742363
1,1,2-Trichloroethane	U		0.000158	0.00100	1	09/18/2021 13:05	WG1742363
Trichloroethene	U		0.000190	0.00100	1	09/18/2021 13:05	WG1742363
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/18/2021 13:05	WG1742363
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/18/2021 13:05	WG1742363
Vinyl chloride	U		0.000234	0.00100	1	09/18/2021 13:05	WG1742363
o-Xylene	U		0.000174	0.00100	1	09/18/2021 13:05	WG1742363
m&p-Xylene	U		0.000430	0.00200	1	09/18/2021 13:05	WG1742363
Xylenes, Total	U		0.000174	0.00300	1	09/18/2021 13:05	WG1742363
(S) Toluene-d8	*106*			*80.0-120*		*09/18/2021 13:05*	WG1742363
(S) 4-Bromofluorobenzene	*99.2*			*77.0-126*		*09/18/2021 13:05*	WG1742363
(S) 1,2-Dichloroethane-d4	*93.7*			*70.0-130*		*09/18/2021 13:05*	WG1742363

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	10.2		0.0494	0.200	2	09/21/2021 23:45	WG1743064
(S) o-Terphenyl	*77.0*			*31.0-160*		*09/21/2021 23:45*	WG1743064

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2550		50.0	1	09/21/2021 14:21	WG1743639

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0500	0.100	1	09/24/2021 15:43	WG1745422

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	125		37.9	100	100	09/21/2021 16:49	WG1743622
Fluoride	1.84		0.0640	0.150	1	09/21/2021 16:33	WG1743622
Sulfate	1170		59.4	500	100	09/21/2021 16:49	WG1743622

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0188		0.000180	0.00200	1	09/23/2021 02:13	WG1742035
Barium	0.0190		0.000381	0.00200	1	09/23/2021 02:13	WG1742035
Calcium	334		0.0936	1.00	1	09/23/2021 02:13	WG1742035
Chromium	U		0.00124	0.00200	1	09/23/2021 02:13	WG1742035
Iron	0.661		0.0281	0.100	1	09/23/2021 02:13	WG1742035
Lead	U		0.000849	0.00200	1	09/23/2021 02:13	WG1742035
Manganese	0.743		0.000704	0.00500	1	09/23/2021 02:13	WG1742035
Potassium	2.12		0.108	2.00	1	09/23/2021 02:13	WG1742035
Selenium	U		0.000300	0.00200	1	09/23/2021 02:13	WG1742035
Sodium	136		0.376	2.00	1	09/23/2021 02:13	WG1742035

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	09/18/2021 13:25	WG1742363
Benzene	U		0.0000941	0.00100	1	09/18/2021 13:25	WG1742363
Bromodichloromethane	U		0.000136	0.00100	1	09/18/2021 13:25	WG1742363
Bromoform	U		0.000129	0.00100	1	09/18/2021 13:25	WG1742363
Bromomethane	U		0.000605	0.00500	1	09/18/2021 13:25	WG1742363
n-Butylbenzene	U		0.000157	0.00100	1	09/18/2021 13:25	WG1742363
sec-Butylbenzene	U		0.000125	0.00100	1	09/18/2021 13:25	WG1742363
Carbon disulfide	U		0.0000962	0.00100	1	09/18/2021 13:25	WG1742363
Carbon tetrachloride	U		0.000128	0.00100	1	09/18/2021 13:25	WG1742363
Chlorobenzene	U		0.000116	0.00100	1	09/18/2021 13:25	WG1742363
Chlorodibromomethane	U		0.000140	0.00100	1	09/18/2021 13:25	WG1742363
Chloroethane	U		0.000192	0.00500	1	09/18/2021 13:25	WG1742363
Chloroform	U		0.000111	0.00500	1	09/18/2021 13:25	WG1742363
Chloromethane	U		0.000960	0.00250	1	09/18/2021 13:25	WG1742363
1,2-Dibromoethane	U		0.000126	0.00100	1	09/18/2021 13:25	WG1742363
1,1-Dichloroethane	U		0.000100	0.00100	1	09/18/2021 13:25	WG1742363
1,2-Dichloroethane	U		0.0000819	0.00100	1	09/18/2021 13:25	WG1742363
1,1-Dichloroethene	U		0.000188	0.00100	1	09/18/2021 13:25	WG1742363
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	09/18/2021 13:25	WG1742363
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	09/18/2021 13:25	WG1742363
1,2-Dichloropropane	U		0.000149	0.00100	1	09/18/2021 13:25	WG1742363
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	09/18/2021 13:25	WG1742363
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	09/18/2021 13:25	WG1742363

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Ethylbenzene	U		0.000137	0.00100	1	09/18/2021 13:25	WG1742363
Isopropylbenzene	0.000503	J	0.000105	0.00100	1	09/18/2021 13:25	WG1742363
p-Isopropyltoluene	U		0.000120	0.00100	1	09/18/2021 13:25	WG1742363
2-Butanone (MEK)	U		0.00119	0.0100	1	09/18/2021 13:25	WG1742363
2-Hexanone	U		0.000787	0.0100	1	09/18/2021 13:25	WG1742363
Methylene Chloride	U		0.000430	0.00500	1	09/18/2021 13:25	WG1742363
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	09/18/2021 13:25	WG1742363
Methyl tert-butyl ether	0.000313	J	0.000101	0.00100	1	09/18/2021 13:25	WG1742363
Naphthalene	U		0.00100	0.00500	1	09/18/2021 13:25	WG1742363
n-Propylbenzene	U		0.0000993	0.00100	1	09/18/2021 13:25	WG1742363
Styrene	U		0.000118	0.00100	1	09/18/2021 13:25	WG1742363
tert-Butyl alcohol	U		0.00406	0.00500	1	09/18/2021 13:25	WG1742363
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	09/18/2021 13:25	WG1742363
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	09/18/2021 13:25	WG1742363
Tetrachloroethene	U		0.000300	0.00100	1	09/18/2021 13:25	WG1742363
Toluene	U		0.000278	0.00100	1	09/18/2021 13:25	WG1742363
1,1,1-Trichloroethane	U		0.000149	0.00100	1	09/18/2021 13:25	WG1742363
1,1,2-Trichloroethane	U		0.000158	0.00100	1	09/18/2021 13:25	WG1742363
Trichloroethene	U		0.000190	0.00100	1	09/18/2021 13:25	WG1742363
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/18/2021 13:25	WG1742363
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/18/2021 13:25	WG1742363
Vinyl chloride	U		0.000234	0.00100	1	09/18/2021 13:25	WG1742363
o-Xylene	U		0.000174	0.00100	1	09/18/2021 13:25	WG1742363
m&p-Xylene	U		0.000430	0.00200	1	09/18/2021 13:25	WG1742363
Xylenes, Total	U		0.000174	0.00300	1	09/18/2021 13:25	WG1742363
(S) Toluene-d8	*99.4*			*80.0-120*		*09/18/2021 13:25*	WG1742363
(S) 4-Bromofluorobenzene	*96.3*			*77.0-126*		*09/18/2021 13:25*	WG1742363
(S) 1,2-Dichloroethane-d4	*94.9*			*70.0-130*		*09/18/2021 13:25*	WG1742363

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	3.77		0.247	1.00	10	09/22/2021 19:05	WG1743797
(S) o-Terphenyl	*77.4*			*31.0-160*		*09/22/2021 19:05*	WG1743797

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2920		50.0	1	09/21/2021 14:21	WG1743639

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	4.59		0.0500	0.100	1	09/24/2021 15:44	WG1745422

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	92.6		0.379	1.00	1	09/21/2021 17:36	WG1743622
Fluoride	1.45		0.0640	0.150	1	09/21/2021 17:36	WG1743622
Sulfate	1650		59.4	500	100	09/21/2021 17:52	WG1743622

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00214		0.000180	0.00200	1	09/23/2021 02:17	WG1742035
Barium	0.0185		0.000381	0.00200	1	09/23/2021 02:17	WG1742035
Calcium	453		0.0936	1.00	1	09/23/2021 02:17	WG1742035
Chromium	0.00301		0.00124	0.00200	1	09/23/2021 02:17	WG1742035
Iron	0.676		0.0281	0.100	1	09/23/2021 02:17	WG1742035
Lead	0.00172	J	0.000849	0.00200	1	09/23/2021 02:17	WG1742035
Manganese	1.67		0.000704	0.00500	1	09/23/2021 02:17	WG1742035
Potassium	3.39		0.108	2.00	1	09/23/2021 02:17	WG1742035
Selenium	0.00265		0.000300	0.00200	1	09/23/2021 02:17	WG1742035
Sodium	98.0		0.376	2.00	1	09/23/2021 02:17	WG1742035

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	09/18/2021 13:46	WG1742363
Benzene	U		0.0000941	0.00100	1	09/18/2021 13:46	WG1742363
Bromodichloromethane	U		0.000136	0.00100	1	09/18/2021 13:46	WG1742363
Bromoform	U		0.000129	0.00100	1	09/18/2021 13:46	WG1742363
Bromomethane	U		0.000605	0.00500	1	09/18/2021 13:46	WG1742363
n-Butylbenzene	U		0.000157	0.00100	1	09/18/2021 13:46	WG1742363
sec-Butylbenzene	U		0.000125	0.00100	1	09/18/2021 13:46	WG1742363
Carbon disulfide	U		0.0000962	0.00100	1	09/18/2021 13:46	WG1742363
Carbon tetrachloride	U		0.000128	0.00100	1	09/18/2021 13:46	WG1742363
Chlorobenzene	U		0.000116	0.00100	1	09/18/2021 13:46	WG1742363
Chlorodibromomethane	U		0.000140	0.00100	1	09/18/2021 13:46	WG1742363
Chloroethane	U		0.000192	0.00500	1	09/18/2021 13:46	WG1742363
Chloroform	U		0.000111	0.00500	1	09/18/2021 13:46	WG1742363
Chloromethane	U		0.000960	0.00250	1	09/18/2021 13:46	WG1742363
1,2-Dibromoethane	U		0.000126	0.00100	1	09/18/2021 13:46	WG1742363
1,1-Dichloroethane	U		0.000100	0.00100	1	09/18/2021 13:46	WG1742363
1,2-Dichloroethane	U		0.0000819	0.00100	1	09/18/2021 13:46	WG1742363
1,1-Dichloroethene	U		0.000188	0.00100	1	09/18/2021 13:46	WG1742363
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	09/18/2021 13:46	WG1742363
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	09/18/2021 13:46	WG1742363
1,2-Dichloropropane	U		0.000149	0.00100	1	09/18/2021 13:46	WG1742363
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	09/18/2021 13:46	WG1742363
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	09/18/2021 13:46	WG1742363

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Ethylbenzene	U		0.000137	0.00100	1	09/18/2021 13:46	WG1742363
Isopropylbenzene	U		0.000105	0.00100	1	09/18/2021 13:46	WG1742363
p-Isopropyltoluene	U		0.000120	0.00100	1	09/18/2021 13:46	WG1742363
2-Butanone (MEK)	U		0.00119	0.0100	1	09/18/2021 13:46	WG1742363
2-Hexanone	U		0.000787	0.0100	1	09/18/2021 13:46	WG1742363
Methylene Chloride	U		0.000430	0.00500	1	09/18/2021 13:46	WG1742363
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	09/18/2021 13:46	WG1742363
Methyl tert-butyl ether	U		0.000101	0.00100	1	09/18/2021 13:46	WG1742363
Naphthalene	U		0.00100	0.00500	1	09/18/2021 13:46	WG1742363
n-Propylbenzene	U		0.0000993	0.00100	1	09/18/2021 13:46	WG1742363
Styrene	U		0.000118	0.00100	1	09/18/2021 13:46	WG1742363
tert-Butyl alcohol	U		0.00406	0.00500	1	09/18/2021 13:46	WG1742363
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	09/18/2021 13:46	WG1742363
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	09/18/2021 13:46	WG1742363
Tetrachloroethene	U		0.000300	0.00100	1	09/18/2021 13:46	WG1742363
Toluene	U		0.000278	0.00100	1	09/18/2021 13:46	WG1742363
1,1,1-Trichloroethane	U		0.000149	0.00100	1	09/18/2021 13:46	WG1742363
1,1,2-Trichloroethane	U		0.000158	0.00100	1	09/18/2021 13:46	WG1742363
Trichloroethene	U		0.000190	0.00100	1	09/18/2021 13:46	WG1742363
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/18/2021 13:46	WG1742363
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/18/2021 13:46	WG1742363
Vinyl chloride	U		0.000234	0.00100	1	09/18/2021 13:46	WG1742363
o-Xylene	U		0.000174	0.00100	1	09/18/2021 13:46	WG1742363
m&p-Xylene	U		0.000430	0.00200	1	09/18/2021 13:46	WG1742363
Xylenes, Total	U		0.000174	0.00300	1	09/18/2021 13:46	WG1742363
(S) Toluene-d8	*104*			*80.0-120*		*09/18/2021 13:46*	WG1742363
(S) 4-Bromofluorobenzene	*96.8*			*77.0-126*		*09/18/2021 13:46*	WG1742363
(S) 1,2-Dichloroethane-d4	*93.7*			*70.0-130*		*09/18/2021 13:46*	WG1742363

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	1.56		0.0247	0.100	1	09/22/2021 13:00	WG1743797
(S) o-Terphenyl	*74.2*			*31.0-160*		*09/22/2021 13:00*	WG1743797

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2190		40.0	1	09/21/2021 14:21	WG1743639

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		2.50	5.00	50	09/24/2021 15:46	WG1745422

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	40.3		0.379	1.00	1	09/21/2021 18:08	WG1743622
Fluoride	1.90		0.0640	0.150	1	09/21/2021 18:08	WG1743622
Sulfate	963		59.4	500	100	09/21/2021 18:24	WG1743622

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00103	J	0.000180	0.00200	1	09/23/2021 02:20	WG1742035
Barium	0.0593		0.000381	0.00200	1	09/23/2021 02:20	WG1742035
Calcium	308		0.0936	1.00	1	09/23/2021 02:20	WG1742035
Chromium	0.00152	J	0.00124	0.00200	1	09/23/2021 02:20	WG1742035
Iron	0.363		0.0281	0.100	1	09/23/2021 02:20	WG1742035
Lead	U		0.000849	0.00200	1	09/23/2021 02:20	WG1742035
Manganese	0.0665		0.000704	0.00500	1	09/23/2021 02:20	WG1742035
Potassium	0.801	J	0.108	2.00	1	09/23/2021 02:20	WG1742035
Selenium	U		0.000300	0.00200	1	09/23/2021 02:20	WG1742035
Sodium	63.0		0.376	2.00	1	09/23/2021 02:20	WG1742035

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.113	0.500	10	09/18/2021 17:32	WG1742363
Benzene	0.141		0.000941	0.0100	10	09/18/2021 17:32	WG1742363
Bromodichloromethane	U		0.00136	0.0100	10	09/18/2021 17:32	WG1742363
Bromoform	U		0.00129	0.0100	10	09/18/2021 17:32	WG1742363
Bromomethane	U		0.00605	0.0500	10	09/18/2021 17:32	WG1742363
n-Butylbenzene	U		0.00157	0.0100	10	09/18/2021 17:32	WG1742363
sec-Butylbenzene	0.00291	J	0.00125	0.0100	10	09/18/2021 17:32	WG1742363
Carbon disulfide	U		0.000962	0.0100	10	09/18/2021 17:32	WG1742363
Carbon tetrachloride	U		0.00128	0.0100	10	09/18/2021 17:32	WG1742363
Chlorobenzene	U		0.00116	0.0100	10	09/18/2021 17:32	WG1742363
Chlorodibromomethane	U		0.00140	0.0100	10	09/18/2021 17:32	WG1742363
Chloroethane	U		0.00192	0.0500	10	09/18/2021 17:32	WG1742363
Chloroform	U		0.00111	0.0500	10	09/18/2021 17:32	WG1742363
Chloromethane	U		0.00960	0.0250	10	09/18/2021 17:32	WG1742363
1,2-Dibromoethane	U		0.00126	0.0100	10	09/18/2021 17:32	WG1742363
1,1-Dichloroethane	U		0.00100	0.0100	10	09/18/2021 17:32	WG1742363
1,2-Dichloroethane	U		0.000819	0.0100	10	09/18/2021 17:32	WG1742363
1,1-Dichloroethene	U		0.00188	0.0100	10	09/18/2021 17:32	WG1742363
cis-1,2-Dichloroethene	U		0.00126	0.0100	10	09/18/2021 17:32	WG1742363
trans-1,2-Dichloroethene	U		0.00149	0.0100	10	09/18/2021 17:32	WG1742363
1,2-Dichloropropane	U		0.00149	0.0100	10	09/18/2021 17:32	WG1742363
cis-1,3-Dichloropropene	U		0.00111	0.0100	10	09/18/2021 17:32	WG1742363
trans-1,3-Dichloropropene	U		0.00118	0.0100	10	09/18/2021 17:32	WG1742363

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Ethylbenzene	U		0.00137	0.0100	10	09/18/2021 17:32	WG1742363
Isopropylbenzene	0.0184		0.00105	0.0100	10	09/18/2021 17:32	WG1742363
p-Isopropyltoluene	U		0.00120	0.0100	10	09/18/2021 17:32	WG1742363
2-Butanone (MEK)	U		0.0119	0.100	10	09/18/2021 17:32	WG1742363
2-Hexanone	U		0.00787	0.100	10	09/18/2021 17:32	WG1742363
Methylene Chloride	U		0.00430	0.0500	10	09/18/2021 17:32	WG1742363
4-Methyl-2-pentanone (MIBK)	U		0.00478	0.100	10	09/18/2021 17:32	WG1742363
Methyl tert-butyl ether	0.00231	J	0.00101	0.0100	10	09/18/2021 17:32	WG1742363
Naphthalene	U		0.0100	0.0500	10	09/18/2021 17:32	WG1742363
n-Propylbenzene	0.0141		0.000993	0.0100	10	09/18/2021 17:32	WG1742363
Styrene	U		0.00118	0.0100	10	09/18/2021 17:32	WG1742363
tert-Butyl alcohol	U		0.0406	0.0500	10	09/18/2021 17:32	WG1742363
1,1,1,2-Tetrachloroethane	U		0.00147	0.0100	10	09/18/2021 17:32	WG1742363
1,1,2,2-Tetrachloroethane	U		0.00133	0.0100	10	09/18/2021 17:32	WG1742363
Tetrachloroethene	U		0.00300	0.0100	10	09/18/2021 17:32	WG1742363
Toluene	U		0.00278	0.0100	10	09/18/2021 17:32	WG1742363
1,1,1-Trichloroethane	U		0.00149	0.0100	10	09/18/2021 17:32	WG1742363
1,1,2-Trichloroethane	U		0.00158	0.0100	10	09/18/2021 17:32	WG1742363
Trichloroethene	U		0.00190	0.0100	10	09/18/2021 17:32	WG1742363
1,2,4-Trimethylbenzene	0.00684	J	0.00322	0.0100	10	09/18/2021 17:32	WG1742363
1,3,5-Trimethylbenzene	U		0.00104	0.0100	10	09/18/2021 17:32	WG1742363
Vinyl chloride	U		0.00234	0.0100	10	09/18/2021 17:32	WG1742363
o-Xylene	U		0.00174	0.0100	10	09/18/2021 17:32	WG1742363
m&p-Xylene	0.0194	J	0.00430	0.0200	10	09/18/2021 17:32	WG1742363
Xylenes, Total	0.0194	J	0.00174	0.0300	10	09/18/2021 17:32	WG1742363
(S) Toluene-d8	*104*			*80.0-120*		*09/18/2021 17:32*	WG1742363
(S) 4-Bromofluorobenzene	*97.8*			*77.0-126*		*09/18/2021 17:32*	WG1742363
(S) 1,2-Dichloroethane-d4	*93.1*			*70.0-130*		*09/18/2021 17:32*	WG1742363

EDB / DBCP by Method 8011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Ethylene Dibromide	U		0.00000536	0.0000200	1	09/21/2021 17:23	WG1743427

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	2.90		0.0247	0.100	1	09/22/2021 13:52	WG1743797
(S) o-Terphenyl	*86.3*			*31.0-160*		*09/22/2021 13:52*	WG1743797

Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	U		0.0000447	0.000400	1	09/19/2021 11:01	WG1742189
(S) Nitrobenzene-d5	*41.7*			*10.0-120*		*09/19/2021 11:01*	WG1742189

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1680		20.0	1	09/21/2021 14:21	WG1743639

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0500	0.100	1	09/24/2021 15:51	WG1745422

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	50.2		0.379	1.00	1	09/21/2021 18:40	WG1743622
Fluoride	1.67		0.0640	0.150	1	09/21/2021 18:40	WG1743622
Sulfate	828		59.4	500	100	09/21/2021 18:56	WG1743622

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0104		0.000180	0.00200	1	09/19/2021 11:37	WG1742413
Barium	0.0217		0.000381	0.00200	1	09/19/2021 11:37	WG1742413
Calcium	206		0.0936	1.00	1	09/19/2021 11:37	WG1742413
Chromium	U		0.00124	0.00200	1	09/19/2021 11:37	WG1742413
Iron	0.526		0.0281	0.100	1	09/19/2021 11:37	WG1742413
Lead	0.000940	J	0.000849	0.00200	1	09/19/2021 11:37	WG1742413
Manganese	1.47		0.000704	0.00500	1	09/19/2021 11:37	WG1742413
Potassium	0.346	J	0.108	2.00	1	09/19/2021 11:37	WG1742413
Selenium	U		0.000300	0.00200	1	09/19/2021 11:37	WG1742413
Sodium	43.1		0.376	2.00	1	09/19/2021 11:37	WG1742413

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	09/18/2021 14:07	WG1742363
Benzene	U		0.0000941	0.00100	1	09/18/2021 14:07	WG1742363
Bromodichloromethane	U		0.000136	0.00100	1	09/18/2021 14:07	WG1742363
Bromoform	U		0.000129	0.00100	1	09/18/2021 14:07	WG1742363
Bromomethane	U		0.000605	0.00500	1	09/18/2021 14:07	WG1742363
n-Butylbenzene	U		0.000157	0.00100	1	09/18/2021 14:07	WG1742363
sec-Butylbenzene	0.000231	J	0.000125	0.00100	1	09/18/2021 14:07	WG1742363
Carbon disulfide	U		0.0000962	0.00100	1	09/18/2021 14:07	WG1742363
Carbon tetrachloride	U		0.000128	0.00100	1	09/18/2021 14:07	WG1742363
Chlorobenzene	U		0.000116	0.00100	1	09/18/2021 14:07	WG1742363
Chlorodibromomethane	U		0.000140	0.00100	1	09/18/2021 14:07	WG1742363
Chloroethane	U		0.000192	0.00500	1	09/18/2021 14:07	WG1742363
Chloroform	U		0.000111	0.00500	1	09/18/2021 14:07	WG1742363
Chloromethane	U		0.000960	0.00250	1	09/18/2021 14:07	WG1742363
1,2-Dibromoethane	U		0.000126	0.00100	1	09/18/2021 14:07	WG1742363
1,1-Dichloroethane	U		0.000100	0.00100	1	09/18/2021 14:07	WG1742363
1,2-Dichloroethane	U		0.0000819	0.00100	1	09/18/2021 14:07	WG1742363
1,1-Dichloroethene	U		0.000188	0.00100	1	09/18/2021 14:07	WG1742363
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	09/18/2021 14:07	WG1742363
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	09/18/2021 14:07	WG1742363
1,2-Dichloropropane	U		0.000149	0.00100	1	09/18/2021 14:07	WG1742363
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	09/18/2021 14:07	WG1742363
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	09/18/2021 14:07	WG1742363

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Ethylbenzene	U		0.000137	0.00100	1	09/18/2021 14:07	WG1742363
Isopropylbenzene	0.000152	J	0.000105	0.00100	1	09/18/2021 14:07	WG1742363
p-Isopropyltoluene	U		0.000120	0.00100	1	09/18/2021 14:07	WG1742363
2-Butanone (MEK)	U		0.00119	0.0100	1	09/18/2021 14:07	WG1742363
2-Hexanone	U		0.000787	0.0100	1	09/18/2021 14:07	WG1742363
Methylene Chloride	U		0.000430	0.00500	1	09/18/2021 14:07	WG1742363
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	09/18/2021 14:07	WG1742363
Methyl tert-butyl ether	U		0.000101	0.00100	1	09/18/2021 14:07	WG1742363
Naphthalene	0.00185	J	0.00100	0.00500	1	09/18/2021 14:07	WG1742363
n-Propylbenzene	U		0.0000993	0.00100	1	09/18/2021 14:07	WG1742363
Styrene	U		0.000118	0.00100	1	09/18/2021 14:07	WG1742363
tert-Butyl alcohol	U		0.00406	0.00500	1	09/18/2021 14:07	WG1742363
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	09/18/2021 14:07	WG1742363
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	09/18/2021 14:07	WG1742363
Tetrachloroethene	U		0.000300	0.00100	1	09/18/2021 14:07	WG1742363
Toluene	U		0.000278	0.00100	1	09/18/2021 14:07	WG1742363
1,1,1-Trichloroethane	U		0.000149	0.00100	1	09/18/2021 14:07	WG1742363
1,1,2-Trichloroethane	U		0.000158	0.00100	1	09/18/2021 14:07	WG1742363
Trichloroethene	U		0.000190	0.00100	1	09/18/2021 14:07	WG1742363
1,2,4-Trimethylbenzene	0.000439	J	0.000322	0.00100	1	09/18/2021 14:07	WG1742363
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/18/2021 14:07	WG1742363
Vinyl chloride	U		0.000234	0.00100	1	09/18/2021 14:07	WG1742363
o-Xylene	U		0.000174	0.00100	1	09/18/2021 14:07	WG1742363
m&p-Xylene	U		0.000430	0.00200	1	09/18/2021 14:07	WG1742363
Xylenes, Total	U		0.000174	0.00300	1	09/18/2021 14:07	WG1742363
(S) Toluene-d8	*103*			*80.0-120*		*09/18/2021 14:07*	WG1742363
(S) 4-Bromofluorobenzene	*97.1*			*77.0-126*		*09/18/2021 14:07*	WG1742363
(S) 1,2-Dichloroethane-d4	*93.9*			*70.0-130*		*09/18/2021 14:07*	WG1742363

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.720		0.0247	0.100	1	09/22/2021 14:18	WG1743797
(S) o-Terphenyl	*86.8*			*31.0-160*		*09/22/2021 14:18*	WG1743797

Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	U		0.0000447	0.000400	1	09/19/2021 16:29	WG1742189
(S) Nitrobenzene-d5	*40.7*			*10.0-120*		*09/19/2021 16:29*	WG1742189

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2300		50.0	1	09/21/2021 14:21	WG1743639

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0500	0.100	1	09/24/2021 15:52	WG1745422

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	221		37.9	100	100	09/21/2021 19:28	WG1743622
Fluoride	1.03		0.0640	0.150	1	09/21/2021 19:12	WG1743622
Sulfate	923		59.4	500	100	09/21/2021 19:28	WG1743622

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00450		0.000180	0.00200	1	09/19/2021 11:40	WG1742413
Barium	0.0163		0.000381	0.00200	1	09/19/2021 11:40	WG1742413
Calcium	410		0.0936	1.00	1	09/19/2021 11:40	WG1742413
Chromium	U		0.00124	0.00200	1	09/19/2021 11:40	WG1742413
Iron	0.135		0.0281	0.100	1	09/19/2021 11:40	WG1742413
Lead	U		0.000849	0.00200	1	09/19/2021 11:40	WG1742413
Manganese	0.768		0.000704	0.00500	1	09/19/2021 11:40	WG1742413
Potassium	0.319	J	0.108	2.00	1	09/19/2021 11:40	WG1742413
Selenium	0.000825	J	0.000300	0.00200	1	09/19/2021 11:40	WG1742413
Sodium	61.1		0.376	2.00	1	09/19/2021 11:40	WG1742413

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	09/18/2021 14:27	WG1742363
Benzene	U		0.0000941	0.00100	1	09/18/2021 14:27	WG1742363
Bromodichloromethane	U		0.000136	0.00100	1	09/18/2021 14:27	WG1742363
Bromoform	U		0.000129	0.00100	1	09/18/2021 14:27	WG1742363
Bromomethane	U		0.000605	0.00500	1	09/18/2021 14:27	WG1742363
n-Butylbenzene	U		0.000157	0.00100	1	09/18/2021 14:27	WG1742363
sec-Butylbenzene	U		0.000125	0.00100	1	09/18/2021 14:27	WG1742363
Carbon disulfide	U		0.0000962	0.00100	1	09/18/2021 14:27	WG1742363
Carbon tetrachloride	U		0.000128	0.00100	1	09/18/2021 14:27	WG1742363
Chlorobenzene	U		0.000116	0.00100	1	09/18/2021 14:27	WG1742363
Chlorodibromomethane	U		0.000140	0.00100	1	09/18/2021 14:27	WG1742363
Chloroethane	U		0.000192	0.00500	1	09/18/2021 14:27	WG1742363
Chloroform	U		0.000111	0.00500	1	09/18/2021 14:27	WG1742363
Chloromethane	U		0.000960	0.00250	1	09/18/2021 14:27	WG1742363
1,2-Dibromoethane	U		0.000126	0.00100	1	09/18/2021 14:27	WG1742363
1,1-Dichloroethane	U		0.000100	0.00100	1	09/18/2021 14:27	WG1742363
1,2-Dichloroethane	U		0.0000819	0.00100	1	09/18/2021 14:27	WG1742363
1,1-Dichloroethene	U		0.000188	0.00100	1	09/18/2021 14:27	WG1742363
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	09/18/2021 14:27	WG1742363
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	09/18/2021 14:27	WG1742363
1,2-Dichloropropane	U		0.000149	0.00100	1	09/18/2021 14:27	WG1742363
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	09/18/2021 14:27	WG1742363
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	09/18/2021 14:27	WG1742363

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Ethylbenzene	U		0.000137	0.00100	1	09/18/2021 14:27	WG1742363
Isopropylbenzene	U		0.000105	0.00100	1	09/18/2021 14:27	WG1742363
p-Isopropyltoluene	U		0.000120	0.00100	1	09/18/2021 14:27	WG1742363
2-Butanone (MEK)	U		0.00119	0.0100	1	09/18/2021 14:27	WG1742363
2-Hexanone	U		0.000787	0.0100	1	09/18/2021 14:27	WG1742363
Methylene Chloride	U		0.000430	0.00500	1	09/18/2021 14:27	WG1742363
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	09/18/2021 14:27	WG1742363
Methyl tert-butyl ether	U		0.000101	0.00100	1	09/18/2021 14:27	WG1742363
Naphthalene	0.00170	J	0.00100	0.00500	1	09/18/2021 14:27	WG1742363
n-Propylbenzene	U		0.0000993	0.00100	1	09/18/2021 14:27	WG1742363
Styrene	U		0.000118	0.00100	1	09/18/2021 14:27	WG1742363
tert-Butyl alcohol	U		0.00406	0.00500	1	09/18/2021 14:27	WG1742363
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	09/18/2021 14:27	WG1742363
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	09/18/2021 14:27	WG1742363
Tetrachloroethene	U		0.000300	0.00100	1	09/18/2021 14:27	WG1742363
Toluene	U		0.000278	0.00100	1	09/18/2021 14:27	WG1742363
1,1,1-Trichloroethane	U		0.000149	0.00100	1	09/18/2021 14:27	WG1742363
1,1,2-Trichloroethane	U		0.000158	0.00100	1	09/18/2021 14:27	WG1742363
Trichloroethene	U		0.000190	0.00100	1	09/18/2021 14:27	WG1742363
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/18/2021 14:27	WG1742363
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/18/2021 14:27	WG1742363
Vinyl chloride	U		0.000234	0.00100	1	09/18/2021 14:27	WG1742363
o-Xylene	U		0.000174	0.00100	1	09/18/2021 14:27	WG1742363
m&p-Xylene	U		0.000430	0.00200	1	09/18/2021 14:27	WG1742363
Xylenes, Total	U		0.000174	0.00300	1	09/18/2021 14:27	WG1742363
(S) Toluene-d8	*105*			*80.0-120*		*09/18/2021 14:27*	WG1742363
(S) 4-Bromofluorobenzene	*97.2*			*77.0-126*		*09/18/2021 14:27*	WG1742363
(S) 1,2-Dichloroethane-d4	*96.2*			*70.0-130*		*09/18/2021 14:27*	WG1742363

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	3.89		0.0247	0.100	1	09/29/2021 14:47	WG1745180
(S) o-Terphenyl	*82.6*			*31.0-160*		*09/29/2021 14:47*	WG1745180

Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	U		0.0000447	0.000400	1	09/19/2021 11:21	WG1742189
(S) Nitrobenzene-d5	*43.3*			*10.0-120*		*09/19/2021 11:21*	WG1742189

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3400		50.0	1	09/21/2021 14:21	WG1743639

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	13.3		0.250	0.500	5	09/24/2021 15:53	WG1745422

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	105		37.9	100	100	09/21/2021 20:00	WG1743622
Fluoride	0.697		0.0640	0.150	1	09/21/2021 19:44	WG1743622
Sulfate	1980		59.4	500	100	09/21/2021 20:00	WG1743622

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00149	J	0.000180	0.00200	1	09/19/2021 11:44	WG1742413
Barium	0.0112		0.000381	0.00200	1	09/19/2021 11:44	WG1742413
Calcium	491		0.0936	1.00	1	09/19/2021 11:44	WG1742413
Chromium	U		0.00124	0.00200	1	09/19/2021 11:44	WG1742413
Iron	U		0.0281	0.100	1	09/19/2021 11:44	WG1742413
Lead	U		0.000849	0.00200	1	09/19/2021 11:44	WG1742413
Manganese	U		0.000704	0.00500	1	09/19/2021 11:44	WG1742413
Potassium	0.726	J	0.108	2.00	1	09/19/2021 11:44	WG1742413
Selenium	0.0121		0.000300	0.00200	1	09/19/2021 11:44	WG1742413
Sodium	140		0.376	2.00	1	09/19/2021 11:44	WG1742413

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	09/18/2021 14:48	WG1742363
Benzene	U		0.0000941	0.00100	1	09/18/2021 14:48	WG1742363
Bromodichloromethane	U		0.000136	0.00100	1	09/18/2021 14:48	WG1742363
Bromoform	U		0.000129	0.00100	1	09/18/2021 14:48	WG1742363
Bromomethane	U		0.000605	0.00500	1	09/18/2021 14:48	WG1742363
n-Butylbenzene	U		0.000157	0.00100	1	09/18/2021 14:48	WG1742363
sec-Butylbenzene	U		0.000125	0.00100	1	09/18/2021 14:48	WG1742363
Carbon disulfide	U		0.0000962	0.00100	1	09/18/2021 14:48	WG1742363
Carbon tetrachloride	U		0.000128	0.00100	1	09/18/2021 14:48	WG1742363
Chlorobenzene	U		0.000116	0.00100	1	09/18/2021 14:48	WG1742363
Chlorodibromomethane	U		0.000140	0.00100	1	09/18/2021 14:48	WG1742363
Chloroethane	U		0.000192	0.00500	1	09/18/2021 14:48	WG1742363
Chloroform	U		0.000111	0.00500	1	09/18/2021 14:48	WG1742363
Chloromethane	U		0.000960	0.00250	1	09/18/2021 14:48	WG1742363
1,2-Dibromoethane	U		0.000126	0.00100	1	09/18/2021 14:48	WG1742363
1,1-Dichloroethane	U		0.000100	0.00100	1	09/18/2021 14:48	WG1742363
1,2-Dichloroethane	U		0.0000819	0.00100	1	09/18/2021 14:48	WG1742363
1,1-Dichloroethene	U		0.000188	0.00100	1	09/18/2021 14:48	WG1742363
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	09/18/2021 14:48	WG1742363
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	09/18/2021 14:48	WG1742363
1,2-Dichloropropane	U		0.000149	0.00100	1	09/18/2021 14:48	WG1742363
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	09/18/2021 14:48	WG1742363
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	09/18/2021 14:48	WG1742363

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Ethylbenzene	U		0.000137	0.00100	1	09/18/2021 14:48	WG1742363
Isopropylbenzene	U		0.000105	0.00100	1	09/18/2021 14:48	WG1742363
p-Isopropyltoluene	U		0.000120	0.00100	1	09/18/2021 14:48	WG1742363
2-Butanone (MEK)	U		0.00119	0.0100	1	09/18/2021 14:48	WG1742363
2-Hexanone	U		0.000787	0.0100	1	09/18/2021 14:48	WG1742363
Methylene Chloride	U		0.000430	0.00500	1	09/18/2021 14:48	WG1742363
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	09/18/2021 14:48	WG1742363
Methyl tert-butyl ether	U		0.000101	0.00100	1	09/18/2021 14:48	WG1742363
Naphthalene	U		0.00100	0.00500	1	09/18/2021 14:48	WG1742363
n-Propylbenzene	U		0.0000993	0.00100	1	09/18/2021 14:48	WG1742363
Styrene	U		0.000118	0.00100	1	09/18/2021 14:48	WG1742363
tert-Butyl alcohol	U		0.00406	0.00500	1	09/18/2021 14:48	WG1742363
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	09/18/2021 14:48	WG1742363
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	09/18/2021 14:48	WG1742363
Tetrachloroethene	U		0.000300	0.00100	1	09/18/2021 14:48	WG1742363
Toluene	U		0.000278	0.00100	1	09/18/2021 14:48	WG1742363
1,1,1-Trichloroethane	U		0.000149	0.00100	1	09/18/2021 14:48	WG1742363
1,1,2-Trichloroethane	U		0.000158	0.00100	1	09/18/2021 14:48	WG1742363
Trichloroethene	U		0.000190	0.00100	1	09/18/2021 14:48	WG1742363
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/18/2021 14:48	WG1742363
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/18/2021 14:48	WG1742363
Vinyl chloride	U		0.000234	0.00100	1	09/18/2021 14:48	WG1742363
o-Xylene	U		0.000174	0.00100	1	09/18/2021 14:48	WG1742363
m&p-Xylene	U		0.000430	0.00200	1	09/18/2021 14:48	WG1742363
Xylenes, Total	U		0.000174	0.00300	1	09/18/2021 14:48	WG1742363
(S) Toluene-d8	*104*			*80.0-120*		*09/18/2021 14:48*	WG1742363
(S) 4-Bromofluorobenzene	*95.9*			*77.0-126*		*09/18/2021 14:48*	WG1742363
(S) 1,2-Dichloroethane-d4	*97.4*			*70.0-130*		*09/18/2021 14:48*	WG1742363

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	U		0.0247	0.100	1	09/23/2021 13:30	WG1743797
(S) o-Terphenyl	*105*			*31.0-160*		*09/23/2021 13:30*	WG1743797

Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	U		0.0000447	0.000400	1	09/19/2021 11:40	WG1742189
(S) Nitrobenzene-d5	*61.8*			*10.0-120*		*09/19/2021 11:40*	WG1742189

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3340		50.0	1	09/21/2021 14:21	WG1743639

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	13.3		0.250	0.500	5	09/24/2021 15:54	WG1745422

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	105		37.9	100	100	09/21/2021 21:03	WG1743622
Fluoride	0.704		0.0640	0.150	1	09/21/2021 20:47	WG1743622
Sulfate	1970		59.4	500	100	09/21/2021 21:03	WG1743622

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00145	J	0.000180	0.00200	1	09/19/2021 11:47	WG1742413
Barium	0.0129		0.000381	0.00200	1	09/19/2021 11:47	WG1742413
Calcium	483		0.0936	1.00	1	09/19/2021 11:47	WG1742413
Chromium	U		0.00124	0.00200	1	09/19/2021 11:47	WG1742413
Iron	U		0.0281	0.100	1	09/19/2021 11:47	WG1742413
Lead	U		0.000849	0.00200	1	09/19/2021 11:47	WG1742413
Manganese	U		0.000704	0.00500	1	09/19/2021 11:47	WG1742413
Potassium	0.710	J	0.108	2.00	1	09/19/2021 11:47	WG1742413
Selenium	0.0105		0.000300	0.00200	1	09/19/2021 11:47	WG1742413
Sodium	140		0.376	2.00	1	09/19/2021 11:47	WG1742413

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	09/18/2021 15:08	WG1742363
Benzene	U		0.0000941	0.00100	1	09/18/2021 15:08	WG1742363
Bromodichloromethane	U		0.000136	0.00100	1	09/18/2021 15:08	WG1742363
Bromoform	U		0.000129	0.00100	1	09/18/2021 15:08	WG1742363
Bromomethane	U		0.000605	0.00500	1	09/18/2021 15:08	WG1742363
n-Butylbenzene	U		0.000157	0.00100	1	09/18/2021 15:08	WG1742363
sec-Butylbenzene	U		0.000125	0.00100	1	09/18/2021 15:08	WG1742363
Carbon disulfide	U		0.0000962	0.00100	1	09/18/2021 15:08	WG1742363
Carbon tetrachloride	U		0.000128	0.00100	1	09/18/2021 15:08	WG1742363
Chlorobenzene	U		0.000116	0.00100	1	09/18/2021 15:08	WG1742363
Chlorodibromomethane	U		0.000140	0.00100	1	09/18/2021 15:08	WG1742363
Chloroethane	U		0.000192	0.00500	1	09/18/2021 15:08	WG1742363
Chloroform	U		0.000111	0.00500	1	09/18/2021 15:08	WG1742363
Chloromethane	U		0.000960	0.00250	1	09/18/2021 15:08	WG1742363
1,2-Dibromoethane	U		0.000126	0.00100	1	09/18/2021 15:08	WG1742363
1,1-Dichloroethane	U		0.000100	0.00100	1	09/18/2021 15:08	WG1742363
1,2-Dichloroethane	U		0.0000819	0.00100	1	09/18/2021 15:08	WG1742363
1,1-Dichloroethene	U		0.000188	0.00100	1	09/18/2021 15:08	WG1742363
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	09/18/2021 15:08	WG1742363
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	09/18/2021 15:08	WG1742363
1,2-Dichloropropane	U		0.000149	0.00100	1	09/18/2021 15:08	WG1742363
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	09/18/2021 15:08	WG1742363
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	09/18/2021 15:08	WG1742363

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Ethylbenzene	U		0.000137	0.00100	1	09/18/2021 15:08	WG1742363
Isopropylbenzene	U		0.000105	0.00100	1	09/18/2021 15:08	WG1742363
p-Isopropyltoluene	U		0.000120	0.00100	1	09/18/2021 15:08	WG1742363
2-Butanone (MEK)	U		0.00119	0.0100	1	09/18/2021 15:08	WG1742363
2-Hexanone	U		0.000787	0.0100	1	09/18/2021 15:08	WG1742363
Methylene Chloride	U		0.000430	0.00500	1	09/18/2021 15:08	WG1742363
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	09/18/2021 15:08	WG1742363
Methyl tert-butyl ether	U		0.000101	0.00100	1	09/18/2021 15:08	WG1742363
Naphthalene	U		0.00100	0.00500	1	09/18/2021 15:08	WG1742363
n-Propylbenzene	U		0.0000993	0.00100	1	09/18/2021 15:08	WG1742363
Styrene	U		0.000118	0.00100	1	09/18/2021 15:08	WG1742363
tert-Butyl alcohol	U		0.00406	0.00500	1	09/18/2021 15:08	WG1742363
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	09/18/2021 15:08	WG1742363
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	09/18/2021 15:08	WG1742363
Tetrachloroethene	U		0.000300	0.00100	1	09/18/2021 15:08	WG1742363
Toluene	U		0.000278	0.00100	1	09/18/2021 15:08	WG1742363
1,1,1-Trichloroethane	U		0.000149	0.00100	1	09/18/2021 15:08	WG1742363
1,1,2-Trichloroethane	U		0.000158	0.00100	1	09/18/2021 15:08	WG1742363
Trichloroethene	U		0.000190	0.00100	1	09/18/2021 15:08	WG1742363
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/18/2021 15:08	WG1742363
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/18/2021 15:08	WG1742363
Vinyl chloride	U		0.000234	0.00100	1	09/18/2021 15:08	WG1742363
o-Xylene	U		0.000174	0.00100	1	09/18/2021 15:08	WG1742363
m&p-Xylene	U		0.000430	0.00200	1	09/18/2021 15:08	WG1742363
Xylenes, Total	U		0.000174	0.00300	1	09/18/2021 15:08	WG1742363
(S) Toluene-d8	*106*			*80.0-120*		*09/18/2021 15:08*	WG1742363
(S) 4-Bromofluorobenzene	*96.9*			*77.0-126*		*09/18/2021 15:08*	WG1742363
(S) 1,2-Dichloroethane-d4	*94.1*			*70.0-130*		*09/18/2021 15:08*	WG1742363

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0925	B J	0.0247	0.100	1	09/22/2021 15:36	WG1743797
(S) o-Terphenyl	*59.5*			*31.0-160*		*09/22/2021 15:36*	WG1743797

Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	U		0.0000447	0.000400	1	09/19/2021 11:59	WG1742189
(S) Nitrobenzene-d5	*44.3*			*10.0-120*		*09/19/2021 11:59*	WG1742189

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	ND		10.0	1	09/21/2021 14:21	WG1743639

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0500	0.100	1	09/24/2021 15:56	WG1745422

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	U		0.379	1.00	1	09/21/2021 21:19	WG1743622
Fluoride	U		0.0640	0.150	1	09/21/2021 21:19	WG1743622
Sulfate	U		0.594	5.00	1	09/21/2021 21:19	WG1743622

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	U		0.000180	0.00200	1	09/19/2021 11:50	WG1742413
Barium	0.000520	J	0.000381	0.00200	1	09/19/2021 11:50	WG1742413
Calcium	0.101	J	0.0936	1.00	1	09/19/2021 11:50	WG1742413
Chromium	U		0.00124	0.00200	1	09/19/2021 11:50	WG1742413
Iron	U		0.0281	0.100	1	09/19/2021 11:50	WG1742413
Lead	U		0.000849	0.00200	1	09/19/2021 11:50	WG1742413
Manganese	U		0.000704	0.00500	1	09/19/2021 11:50	WG1742413
Potassium	U		0.108	2.00	1	09/19/2021 11:50	WG1742413
Selenium	U		0.000300	0.00200	1	09/19/2021 11:50	WG1742413
Sodium	U		0.376	2.00	1	09/19/2021 11:50	WG1742413

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	09/18/2021 15:29	WG1742363
Benzene	U		0.0000941	0.00100	1	09/18/2021 15:29	WG1742363
Bromodichloromethane	U		0.000136	0.00100	1	09/18/2021 15:29	WG1742363
Bromoform	U		0.000129	0.00100	1	09/18/2021 15:29	WG1742363
Bromomethane	U		0.000605	0.00500	1	09/18/2021 15:29	WG1742363
n-Butylbenzene	U		0.000157	0.00100	1	09/18/2021 15:29	WG1742363
sec-Butylbenzene	U		0.000125	0.00100	1	09/18/2021 15:29	WG1742363
Carbon disulfide	U		0.0000962	0.00100	1	09/18/2021 15:29	WG1742363
Carbon tetrachloride	U		0.000128	0.00100	1	09/18/2021 15:29	WG1742363
Chlorobenzene	U		0.000116	0.00100	1	09/18/2021 15:29	WG1742363
Chlorodibromomethane	U		0.000140	0.00100	1	09/18/2021 15:29	WG1742363
Chloroethane	U		0.000192	0.00500	1	09/18/2021 15:29	WG1742363
Chloroform	U		0.000111	0.00500	1	09/18/2021 15:29	WG1742363
Chloromethane	U		0.000960	0.00250	1	09/18/2021 15:29	WG1742363
1,2-Dibromoethane	U		0.000126	0.00100	1	09/18/2021 15:29	WG1742363
1,1-Dichloroethane	U		0.000100	0.00100	1	09/18/2021 15:29	WG1742363
1,2-Dichloroethane	U		0.0000819	0.00100	1	09/18/2021 15:29	WG1742363
1,1-Dichloroethene	U		0.000188	0.00100	1	09/18/2021 15:29	WG1742363
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	09/18/2021 15:29	WG1742363
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	09/18/2021 15:29	WG1742363
1,2-Dichloropropane	U		0.000149	0.00100	1	09/18/2021 15:29	WG1742363
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	09/18/2021 15:29	WG1742363
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	09/18/2021 15:29	WG1742363

LB-NCL-01
Collected date/time: 09/14/21 12:55
L1404404

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Ethylbenzene	U		0.000137	0.00100	1	09/18/2021 15:29	WG1742363
Isopropylbenzene	U		0.000105	0.00100	1	09/18/2021 15:29	WG1742363
p-Isopropyltoluene	U		0.000120	0.00100	1	09/18/2021 15:29	WG1742363
2-Butanone (MEK)	U		0.00119	0.0100	1	09/18/2021 15:29	WG1742363
2-Hexanone	U		0.000787	0.0100	1	09/18/2021 15:29	WG1742363
Methylene Chloride	U		0.000430	0.00500	1	09/18/2021 15:29	WG1742363
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	09/18/2021 15:29	WG1742363
Methyl tert-butyl ether	U		0.000101	0.00100	1	09/18/2021 15:29	WG1742363
Naphthalene	U		0.00100	0.00500	1	09/18/2021 15:29	WG1742363
n-Propylbenzene	U		0.0000993	0.00100	1	09/18/2021 15:29	WG1742363
Styrene	U		0.000118	0.00100	1	09/18/2021 15:29	WG1742363
tert-Butyl alcohol	U		0.00406	0.00500	1	09/18/2021 15:29	WG1742363
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	09/18/2021 15:29	WG1742363
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	09/18/2021 15:29	WG1742363
Tetrachloroethene	U		0.000300	0.00100	1	09/18/2021 15:29	WG1742363
Toluene	U		0.000278	0.00100	1	09/18/2021 15:29	WG1742363
1,1,1-Trichloroethane	U		0.000149	0.00100	1	09/18/2021 15:29	WG1742363
1,1,2-Trichloroethane	U		0.000158	0.00100	1	09/18/2021 15:29	WG1742363
Trichloroethene	U		0.000190	0.00100	1	09/18/2021 15:29	WG1742363
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/18/2021 15:29	WG1742363
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/18/2021 15:29	WG1742363
Vinyl chloride	U		0.000234	0.00100	1	09/18/2021 15:29	WG1742363
o-Xylene	U		0.000174	0.00100	1	09/18/2021 15:29	WG1742363
m&p-Xylene	U		0.000430	0.00200	1	09/18/2021 15:29	WG1742363
Xylenes, Total	U		0.000174	0.00300	1	09/18/2021 15:29	WG1742363
(S) Toluene-d8	*106*			*80.0-120*		*09/18/2021 15:29*	WG1742363
(S) 4-Bromofluorobenzene	*99.1*			*77.0-126*		*09/18/2021 15:29*	WG1742363
(S) 1,2-Dichloroethane-d4	*94.7*			*70.0-130*		*09/18/2021 15:29*	WG1742363

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0729	B J	0.0247	0.100	1	09/22/2021 16:02	WG1743797
(S) o-Terphenyl	*63.7*			*31.0-160*		*09/22/2021 16:02*	WG1743797

Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	U		0.0000447	0.000400	1	09/19/2021 12:18	WG1742189
(S) Nitrobenzene-d5	*59.0*			*10.0-120*		*09/19/2021 12:18*	WG1742189

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	09/28/2021 00:05	WG1747354
Benzene	U		0.0000941	0.00100	1	09/28/2021 00:05	WG1747354
Bromodichloromethane	U		0.000136	0.00100	1	09/28/2021 00:05	WG1747354
Bromoform	U		0.000129	0.00100	1	09/28/2021 00:05	WG1747354
Bromomethane	U		0.000605	0.00500	1	09/28/2021 00:05	WG1747354
n-Butylbenzene	U		0.000157	0.00100	1	09/28/2021 00:05	WG1747354
sec-Butylbenzene	U		0.000125	0.00100	1	09/28/2021 00:05	WG1747354
Carbon disulfide	U		0.0000962	0.00100	1	09/28/2021 00:05	WG1747354
Carbon tetrachloride	U		0.000128	0.00100	1	09/28/2021 00:05	WG1747354
Chlorobenzene	U		0.000116	0.00100	1	09/28/2021 00:05	WG1747354
Chlorodibromomethane	U		0.000140	0.00100	1	09/28/2021 00:05	WG1747354
Chloroethane	U		0.000192	0.00500	1	09/28/2021 00:05	WG1747354
Chloroform	U		0.000111	0.00500	1	09/28/2021 00:05	WG1747354
Chloromethane	U		0.000960	0.00250	1	09/28/2021 00:05	WG1747354
1,2-Dibromoethane	U		0.000126	0.00100	1	09/28/2021 00:05	WG1747354
1,1-Dichloroethane	U		0.000100	0.00100	1	09/28/2021 00:05	WG1747354
1,2-Dichloroethane	U		0.0000819	0.00100	1	09/28/2021 00:05	WG1747354
1,1-Dichloroethene	U		0.000188	0.00100	1	09/28/2021 00:05	WG1747354
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	09/28/2021 00:05	WG1747354
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	09/28/2021 00:05	WG1747354
1,2-Dichloropropane	U		0.000149	0.00100	1	09/28/2021 00:05	WG1747354
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	09/28/2021 00:05	WG1747354
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	09/28/2021 00:05	WG1747354
Ethylbenzene	U		0.000137	0.00100	1	09/28/2021 00:05	WG1747354
Isopropylbenzene	U		0.000105	0.00100	1	09/28/2021 00:05	WG1747354
p-Isopropyltoluene	U		0.000120	0.00100	1	09/28/2021 00:05	WG1747354
2-Butanone (MEK)	U		0.00119	0.0100	1	09/28/2021 00:05	WG1747354
2-Hexanone	U		0.000787	0.0100	1	09/28/2021 00:05	WG1747354
Methylene Chloride	U		0.000430	0.00500	1	09/28/2021 00:05	WG1747354
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	09/28/2021 00:05	WG1747354
Methyl tert-butyl ether	U		0.000101	0.00100	1	09/28/2021 00:05	WG1747354
Naphthalene	U		0.00100	0.00500	1	09/28/2021 00:05	WG1747354
n-Propylbenzene	U		0.0000993	0.00100	1	09/28/2021 00:05	WG1747354
Styrene	U		0.000118	0.00100	1	09/28/2021 00:05	WG1747354
tert-Butyl alcohol	U		0.00406	0.00500	1	09/28/2021 00:05	WG1747354
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	09/28/2021 00:05	WG1747354
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	09/28/2021 00:05	WG1747354
Tetrachloroethene	U		0.000300	0.00100	1	09/28/2021 00:05	WG1747354
Toluene	0.000541	J	0.000278	0.00100	1	09/28/2021 00:05	WG1747354
1,1,1-Trichloroethane	U		0.000149	0.00100	1	09/28/2021 00:05	WG1747354
1,1,2-Trichloroethane	U		0.000158	0.00100	1	09/28/2021 00:05	WG1747354
Trichloroethene	U		0.000190	0.00100	1	09/28/2021 00:05	WG1747354
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/28/2021 00:05	WG1747354
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/28/2021 00:05	WG1747354
Vinyl chloride	U		0.000234	0.00100	1	09/28/2021 00:05	WG1747354
o-Xylene	U		0.000174	0.00100	1	09/28/2021 00:05	WG1747354
m&p-Xylene	U		0.000430	0.00200	1	09/28/2021 00:05	WG1747354
Xylenes, Total	U		0.000174	0.00300	1	09/28/2021 00:05	WG1747354
(S) Toluene-d8	*105*			*80.0-120*		*09/28/2021 00:05*	WG1747354
(S) 4-Bromofluorobenzene	*99.9*			*77.0-126*		*09/28/2021 00:05*	WG1747354
(S) 1,2-Dichloroethane-d4	*94.1*			*70.0-130*		*09/28/2021 00:05*	WG1747354

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Method Blank (MB)

(MB) R3706935-1 09/19/21 00:24

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1403888-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1403888-02 09/19/21 00:24 • (DUP) R3706935-3 09/19/21 00:24

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	1100	1150	1	3.82		5

L1404404-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1404404-04 09/19/21 00:24 • (DUP) R3706935-4 09/19/21 00:24

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	4240	4300	1	1.26		5

Laboratory Control Sample (LCS)

(LCS) R3706935-2 09/19/21 00:24

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8540	97.0	77.4-123	

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Method Blank (MB)

(MB) R3706856-1 09/19/21 02:55

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1404404-20 Original Sample (OS) • Duplicate (DUP)

(OS) L1404404-20 09/19/21 02:55 • (DUP) R3706856-3 09/19/21 02:55

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	6630	6740	1	1.65		5

L1405097-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1405097-04 09/19/21 02:55 • (DUP) R3706856-4 09/19/21 02:55

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	727	730	1	0.412		5

Laboratory Control Sample (LCS)

(LCS) R3706856-2 09/19/21 02:55

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8550	97.2	77.4-123	

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QUALITY CONTROL SUMMARY

L1404404-35,36,38,40,41,42,43,44,46,47,48,49,50,52,53,54,55

Method Blank (MB)

(MB) R3706875-1 09/19/21 05:03

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1404064-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1404064-01 09/19/21 05:03 • (DUP) R3706875-3 09/19/21 05:03

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	3700	3820	1	3.20		5

L1404404-55 Original Sample (OS) • Duplicate (DUP)

(OS) L1404404-55 09/19/21 05:03 • (DUP) R3706875-4 09/19/21 05:03

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	4330	4320	1	0.278		5

Laboratory Control Sample (LCS)

(LCS) R3706875-2 09/19/21 05:03

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8620	98.0	77.4-123	

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Method Blank (MB)

(MB) R3708010-1 09/21/21 14:21

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1404404-98 Original Sample (OS) • Duplicate (DUP)

(OS) L1404404-98 09/21/21 14:21 • (DUP) R3708010-3 09/21/21 14:21

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	4700	4620	1	1.72		5

L1404404-99 Original Sample (OS) • Duplicate (DUP)

(OS) L1404404-99 09/21/21 14:21 • (DUP) R3708010-4 09/21/21 14:21

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	ND	ND	1	0.000		5

Laboratory Control Sample (LCS)

(LCS) R3708010-2 09/21/21 14:21

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8760	99.5	77.4-123	

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Method Blank (MB)

(MB) R3708033-1 09/21/21 13:31

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1404404-72 Original Sample (OS) • Duplicate (DUP)

(OS) L1404404-72 09/21/21 13:31 • (DUP) R3708033-3 09/21/21 13:31

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	3970	4080	1	2.61		5

L1404404-73 Original Sample (OS) • Duplicate (DUP)

(OS) L1404404-73 09/21/21 13:31 • (DUP) R3708033-4 09/21/21 13:31

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	ND	13.0	1	200	P1	5

Laboratory Control Sample (LCS)

(LCS) R3708033-2 09/21/21 13:31

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8660	98.4	77.4-123	

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Method Blank (MB)

(MB) R3708526-1 09/21/21 16:36

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1404407-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1404407-01 09/21/21 16:36 • (DUP) R3708526-3 09/21/21 16:36

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	645	654	1	1.39		5

L1404407-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1404407-02 09/21/21 16:36 • (DUP) R3708526-4 09/21/21 16:36

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	533	526	1	1.32		5

Laboratory Control Sample (LCS)

(LCS) R3708526-2 09/21/21 16:36

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8910	101	77.4-123	

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QUALITY CONTROL SUMMARY

L1404404-89,95,96,97

Method Blank (MB)

(MB) R3708154-1 09/22/21 16:04

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1404051-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1404051-02 09/22/21 16:04 • (DUP) R3708154-3 09/22/21 16:04

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	946	1040	1	9.08	J3	5

L1404071-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1404071-01 09/22/21 16:04 • (DUP) R3708154-4 09/22/21 16:04

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	1400	1560	1	10.8	J3	5

Laboratory Control Sample (LCS)

(LCS) R3708154-2 09/22/21 16:04

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	9250	105	77.4-123	

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Method Blank (MB)

(MB) R3707992-1 09/23/21 15:08

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Nitrate-Nitrite	U		0.0500	0.100

L1404328-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1404328-01 09/23/21 15:11 • (DUP) R3707992-3 09/23/21 15:12

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate-Nitrite	U	U	1	0.000		20

L1404404-19 Original Sample (OS) • Duplicate (DUP)

(OS) L1404404-19 09/23/21 15:45 • (DUP) R3707992-6 09/23/21 15:46

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate-Nitrite	1.76	1.77	1	0.567		20

Laboratory Control Sample (LCS)

(LCS) R3707992-2 09/23/21 15:09

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Nitrate-Nitrite	2.50	2.73	109	90.0-110	

L1404328-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1404328-02 09/23/21 15:13 • (MS) R3707992-4 09/23/21 15:14 • (MSD) R3707992-5 09/23/21 15:16

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Nitrate-Nitrite	2.50	0.568	3.17	3.21	104	106	1	90.0-110			1.25	20

L1404404-20 Original Sample (OS) • Matrix Spike (MS)

(OS) L1404404-20 09/23/21 15:47 • (MS) R3707992-7 09/23/21 15:49

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Nitrate-Nitrite	2.50	U	2.68	107	1	90.0-110	

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Method Blank (MB)

(MB) R3708552-1 09/24/21 15:19

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Nitrate-Nitrite	U		0.0500	0.100

L1401957-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1401957-01 09/24/21 15:24 • (DUP) R3708552-3 09/24/21 15:25

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Nitrate-Nitrite	1.16	1.15	1	0.866		20

L1404404-115 Original Sample (OS) • Duplicate (DUP)

(OS) L1404404-115 09/24/21 15:56 • (DUP) R3708552-6 09/24/21 15:57

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Nitrate-Nitrite	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3708552-2 09/24/21 15:20

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/l	mg/l	%	%	
Nitrate-Nitrite	2.50	2.57	103	90.0-110	

L1402527-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1402527-03 09/24/21 15:26 • (MS) R3708552-4 09/24/21 15:28 • (MSD) R3708552-5 09/24/21 15:29

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Nitrate-Nitrite	2.50	1.30	3.82	3.79	101	99.6	1	90.0-110			0.788	20

L1404609-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1404609-01 09/24/21 15:58 • (MS) R3708552-7 09/24/21 15:59

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
	mg/l	mg/l	mg/l	%		%	
Nitrate-Nitrite	2.50	2.63	4.84	88.4	1	90.0-110	J6

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Method Blank (MB)

(MB) R3708553-1 09/24/21 16:11

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Nitrate-Nitrite	U		0.0500	0.100

L1404404-22 Original Sample (OS) • Duplicate (DUP)

(OS) L1404404-22 09/24/21 16:18 • (DUP) R3708553-5 09/24/21 16:19

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate-Nitrite	1.35	1.35	1	0.000		20

L1404404-35 Original Sample (OS) • Duplicate (DUP)

(OS) L1404404-35 09/24/21 16:34 • (DUP) R3708553-6 09/24/21 16:36

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate-Nitrite	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3708553-2 09/24/21 16:13

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Nitrate-Nitrite	2.50	2.56	102	90.0-110	

L1404404-21 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1404404-21 09/24/21 16:14 • (MS) R3708553-3 09/24/21 16:15 • (MSD) R3708553-4 09/24/21 16:17

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Nitrate-Nitrite	2.50	U	2.62	2.61	105	104	1	90.0-110			0.382	20

L1404404-36 Original Sample (OS) • Matrix Spike (MS)

(OS) L1404404-36 09/24/21 16:37 • (MS) R3708553-7 09/24/21 16:38

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Nitrate-Nitrite	2.50	U	2.66	106	1	90.0-110	

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Method Blank (MB)

(MB) R3708760-1 09/25/21 20:57

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Nitrate-Nitrite	U		0.0500	0.100

L1404404-48 Original Sample (OS) • Duplicate (DUP)

(OS) L1404404-48 09/25/21 21:28 • (DUP) R3708760-3 09/25/21 21:30

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate-Nitrite	1.05	1.05	1	0.000		20

L1404404-69 Original Sample (OS) • Duplicate (DUP)

(OS) L1404404-69 09/25/21 21:53 • (DUP) R3708760-5 09/25/21 21:54

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate-Nitrite	34.2	33.9	10	0.881		20

Laboratory Control Sample (LCS)

(LCS) R3708760-2 09/25/21 20:58

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Nitrate-Nitrite	2.50	2.56	102	90.0-110	

L1404404-49 Original Sample (OS) • Matrix Spike (MS)

(OS) L1404404-49 09/25/21 21:31 • (MS) R3708760-4 09/25/21 21:32

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Nitrate-Nitrite	2.50	U	2.56	103	5	90.0-110	

L1404404-70 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1404404-70 09/25/21 21:55 • (MS) R3708760-6 09/25/21 21:56 • (MSD) R3708760-7 09/25/21 21:58

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Nitrate-Nitrite	2.50	10.6	13.4	13.5	112	116	5	90.0-110	V	V	0.743	20

QUALITY CONTROL SUMMARY

L1404404-71,73,75,76,77,78,79,84,85,89,90,91,93,94,95,96,97,98,99

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Method Blank (MB)

(MB) R3708067-1 09/23/21 17:06

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Nitrate-Nitrite	U		0.0500	0.100

L1404404-78 Original Sample (OS) • Duplicate (DUP)

(OS) L1404404-78 09/23/21 17:15 • (DUP) R3708067-3 09/23/21 17:17

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate-Nitrite	0.709	0.713	1	0.563		20

L1404404-99 Original Sample (OS) • Duplicate (DUP)

(OS) L1404404-99 09/23/21 17:43 • (DUP) R3708067-6 09/23/21 17:45

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate-Nitrite	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3708067-2 09/23/21 17:08

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Nitrate-Nitrite	2.50	2.71	108	90.0-110	

L1404404-79 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1404404-79 09/23/21 17:22 • (MS) R3708067-4 09/23/21 17:23 • (MSD) R3708067-5 09/23/21 17:24

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Nitrate-Nitrite	2.50	U	2.47	2.66	98.8	106	1	90.0-110			7.41	20

L1404460-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L1404460-03 09/23/21 17:46 • (MS) R3708067-7 09/23/21 17:47

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Nitrate-Nitrite	2.50	0.743	3.33	103	1	90.0-110	

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Method Blank (MB)

(MB) R3709219-1 09/27/21 14:31

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Nitrate-Nitrite	U		0.0500	0.100

L1404780-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1404780-01 09/27/21 14:37 • (DUP) R3709219-3 09/27/21 14:38

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate-Nitrite	0.145	0.162	1	11.1		20

L1404905-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1404905-04 09/27/21 15:07 • (DUP) R3709219-6 09/27/21 15:08

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate-Nitrite	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3709219-2 09/27/21 14:33

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Nitrate-Nitrite	2.50	2.66	106	90.0-110	

L1404780-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1404780-02 09/27/21 14:39 • (MS) R3709219-4 09/27/21 14:40 • (MSD) R3709219-5 09/27/21 14:42

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Nitrate-Nitrite	2.50	0.569	2.97	3.15	96.0	103	1	90.0-110			5.88	20

L1405176-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1405176-01 09/27/21 15:12 • (MS) R3709219-7 09/27/21 15:13

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Nitrate-Nitrite	2.50	0.669	3.24	103	1	90.0-110	

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Method Blank (MB)

(MB) R3708053-1 09/23/21 16:35

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Cyanide	U		0.00180	0.00500

L1403995-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1403995-02 09/23/21 16:42 • (DUP) R3708053-5 09/23/21 16:43

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Cyanide	U	U	1	0.000		20

L1404404-41 Original Sample (OS) • Duplicate (DUP)

(OS) L1404404-41 09/23/21 16:55 • (DUP) R3708053-6 09/23/21 16:56

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Cyanide	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3708053-2 09/23/21 16:36

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/l	mg/l	%	%	
Cyanide	0.100	0.106	106	87.1-120	

L1403995-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1403995-01 09/23/21 16:39 • (MS) R3708053-3 09/23/21 16:40 • (MSD) R3708053-4 09/23/21 16:41

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Cyanide	0.100	U	0.0187	0.0165	18.7	16.5	1	90.0-110	J6	J6	12.5	20

L1404404-54 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1404404-54 09/23/21 17:01 • (MS) R3708053-7 09/23/21 17:02 • (MSD) R3708053-8 09/23/21 17:03

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Cyanide	0.100	U	0.0831	0.0825	83.1	82.5	1	90.0-110	J6	J6	0.725	20

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QUALITY CONTROL SUMMARY

L1404404-96

Method Blank (MB)

(MB) R3708368-1 09/24/21 11:53

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Cyanide	U		0.00180	0.00500

L1404404-96 Original Sample (OS) • Duplicate (DUP)

(OS) L1404404-96 09/24/21 12:01 • (DUP) R3708368-5 09/24/21 12:02

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	U	U	1	0.000		20

L1404849-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1404849-02 09/24/21 12:20 • (DUP) R3708368-8 09/24/21 12:21

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	0.00238	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3708368-2 09/24/21 11:54

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Cyanide	0.100	0.105	105	87.1-120	

L1403275-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1403275-02 09/24/21 11:57 • (MS) R3708368-3 09/24/21 11:58 • (MSD) R3708368-4 09/24/21 12:00

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Cyanide	0.100	0.00544	0.105	0.0963	99.6	90.9	1	90.0-110			8.64	20

L1404844-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1404844-04 09/24/21 12:15 • (MS) R3708368-6 09/24/21 12:18 • (MSD) R3708368-7 09/24/21 12:19

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Cyanide	0.100	U	0.0741	0.0685	74.1	68.5	1	90.0-110	J6	J6	7.85	20

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Method Blank (MB)

(MB) R3707704-1 09/21/21 09:28

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.379	1.00
Fluoride	U		0.0640	0.150
Sulfate	U		0.594	5.00

L1404404-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1404404-01 09/21/21 11:06 • (DUP) R3707704-3 09/21/21 11:22

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Fluoride	3.75	3.76	1	0.322		15

L1404404-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1404404-01 09/21/21 11:38 • (DUP) R3707704-4 09/21/21 11:54

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	1330	1320	100	0.493		15
Sulfate	3010	2980	100	0.788		15

L1404404-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1404404-11 09/21/21 18:47 • (DUP) R3707704-7 09/21/21 19:04

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	U	U	1	0.000		15
Fluoride	U	U	1	0.000		15
Sulfate	0.702	U	1	200	P1	15

Laboratory Control Sample (LCS)

(LCS) R3707704-2 09/21/21 09:44

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	39.0	97.6	80.0-120	
Fluoride	8.00	8.06	101	80.0-120	
Sulfate	40.0	38.7	96.8	80.0-120	

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L1404404-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1404404-10 09/21/21 17:42 • (MS) R3707704-5 09/21/21 17:58 • (MSD) R3707704-6 09/21/21 18:14

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50.0	146	190	190	88.1	87.8	1	80.0-120	E	E	0.0710	15
Fluoride	5.00	0.710	5.48	5.58	95.4	97.4	1	80.0-120			1.74	15
Sulfate	50.0	909	894	894	0.000	0.000	1	80.0-120	E V	E V	0.0131	15

L1404404-12 Original Sample (OS) • Matrix Spike (MS)

(OS) L1404404-12 09/21/21 19:20 • (MS) R3707704-8 09/21/21 19:36

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	0.696	49.8	98.2	1	80.0-120	
Fluoride	5.00	U	5.03	101	1	80.0-120	
Sulfate	50.0	U	49.3	98.6	1	80.0-120	

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Method Blank (MB)

(MB) R3707468-1 09/21/21 09:28

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.379	1.00
Fluoride	U		0.0640	0.150
Sulfate	U		0.594	5.00

L1404404-28 Original Sample (OS) • Duplicate (DUP)

(OS) L1404404-28 09/21/21 15:01 • (DUP) R3707468-3 09/21/21 15:16

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Fluoride	1.90	1.92	1	1.06		15

L1404404-28 Original Sample (OS) • Duplicate (DUP)

(OS) L1404404-28 09/21/21 15:32 • (DUP) R3707468-4 09/21/21 15:48

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	1470	1460	100	0.769		15
Sulfate	2400	2390	100	0.651		15

L1404404-44 Original Sample (OS) • Duplicate (DUP)

(OS) L1404404-44 09/21/21 22:43 • (DUP) R3707468-8 09/21/21 22:59

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	0.438	0.407	1	7.33	J	15
Fluoride	0.0643	U	1	200	P1	15
Sulfate	0.628	U	1	200	P1	15

Laboratory Control Sample (LCS)

(LCS) R3707468-2 09/21/21 09:44

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	39.6	98.9	80.0-120	
Fluoride	8.00	8.11	101	80.0-120	
Sulfate	40.0	39.8	99.6	80.0-120	

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L1404404-29 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1404404-29 09/21/21 16:04 • (MS) R3707468-5 09/21/21 16:20 • (MSD) R3707468-6 09/21/21 16:37

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50.0	0.515	51.3	51.3	102	102	1	80.0-120			0.0891	15
Fluoride	5.00	U	5.11	5.14	102	103	1	80.0-120			0.634	15
Sulfate	50.0	0.665	49.4	49.6	97.4	98.0	1	80.0-120			0.511	15

L1404404-43 Original Sample (OS) • Matrix Spike (MS)

(OS) L1404404-43 09/21/21 21:55 • (MS) R3707468-7 09/21/21 22:11

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	61.9	110	96.5	1	80.0-120	E
Fluoride	5.00	1.44	6.53	102	1	80.0-120	
Sulfate	50.0	331	381	99.4	1	80.0-120	E

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Method Blank (MB)

(MB) R3707210-1 09/21/21 09:34

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.379	1.00
Fluoride	U		0.0640	0.150
Sulfate	U		0.594	5.00

L1404404-105 Original Sample (OS) • Duplicate (DUP)

(OS) L1404404-105 09/21/21 14:24 • (DUP) R3707210-3 09/21/21 14:40

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Fluoride	1.37	1.38	1	0.386		15

L1404404-105 Original Sample (OS) • Duplicate (DUP)

(OS) L1404404-105 09/21/21 15:29 • (DUP) R3707210-6 09/21/21 15:45

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	129	128	10	0.876		15
Sulfate	422	419	10	0.714		15

L1404404-115 Original Sample (OS) • Duplicate (DUP)

(OS) L1404404-115 09/21/21 21:19 • (DUP) R3707210-7 09/21/21 21:35

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	U	U	1	0.000		15
Fluoride	U	U	1	0.000		15
Sulfate	U	U	1	0.000		15

Laboratory Control Sample (LCS)

(LCS) R3707210-2 09/21/21 09:50

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	39.9	99.6	80.0-120	
Fluoride	8.00	8.05	101	80.0-120	
Sulfate	40.0	40.1	100	80.0-120	

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L1404404-105 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1404404-105 09/21/21 14:24 • (MS) R3707210-4 09/21/21 14:58 • (MSD) R3707210-5 09/21/21 15:13

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50.0	134	178	177	88.0	86.1	1	80.0-120	E	E	0.539	15
Fluoride	5.00	1.37	6.17	6.06	96.0	93.7	1	80.0-120			1.82	15
Sulfate	50.0	441	468	471	54.2	60.5	1	80.0-120	E V	E V	0.676	15

L1404404-115 Original Sample (OS) • Matrix Spike (MS)

(OS) L1404404-115 09/21/21 21:19 • (MS) R3707210-8 09/21/21 21:51

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	U	48.4	96.7	1	80.0-120	
Fluoride	5.00	U	4.88	97.5	1	80.0-120	
Sulfate	50.0	U	48.2	96.5	1	80.0-120	

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Method Blank (MB)

(MB) R3707234-1 09/21/21 14:25

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	0.470	J	0.379	1.00
Fluoride	U		0.0640	0.150
Sulfate	U		0.594	5.00

L1404404-59 Original Sample (OS) • Duplicate (DUP)

(OS) L1404404-59 09/21/21 17:29 • (DUP) R3707234-3 09/21/21 17:44

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	0.558	0.553	1	0.882	J	15
Fluoride	U	U	1	0.000		15
Sulfate	U	U	1	0.000		15

L1404404-73 Original Sample (OS) • Duplicate (DUP)

(OS) L1404404-73 09/22/21 01:13 • (DUP) R3707234-6 09/22/21 01:28

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	0.486	0.488	1	0.308	J	15
Fluoride	U	U	1	0.000		15
Sulfate	U	U	1	0.000		15

Laboratory Control Sample (LCS)

(LCS) R3707234-2 09/21/21 14:40

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	39.5	98.8	80.0-120	
Fluoride	8.00	8.14	102	80.0-120	
Sulfate	40.0	39.2	98.1	80.0-120	

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L1404404-59 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1404404-59 09/21/21 17:29 • (MS) R3707234-4 09/21/21 17:59 • (MSD) R3707234-5 09/21/21 18:14

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50.0	0.558	49.7	50.0	98.3	98.8	1	80.0-120			0.528	15
Fluoride	5.00	U	4.95	4.98	99.0	99.7	1	80.0-120			0.677	15
Sulfate	50.0	U	49.3	49.6	98.7	99.3	1	80.0-120			0.585	15

L1404404-73 Original Sample (OS) • Matrix Spike (MS)

(OS) L1404404-73 09/22/21 01:13 • (MS) R3707234-7 09/22/21 01:43

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	0.486	46.8	92.5	1	80.0-120	
Fluoride	5.00	U	4.64	92.9	1	80.0-120	
Sulfate	50.0	U	46.7	93.4	1	80.0-120	

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Method Blank (MB)

(MB) R3707705-1 09/22/21 02:04

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.379	1.00
Fluoride	U		0.0640	0.150
Sulfate	U		0.594	5.00

L1404404-85 Original Sample (OS) • Duplicate (DUP)

(OS) L1404404-85 09/22/21 06:01 • (DUP) R3707705-3 09/22/21 06:17

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	U	U	1	0.000		15
Fluoride	U	U	1	0.000		15
Sulfate	U	U	1	0.000		15

L1404404-99 Original Sample (OS) • Duplicate (DUP)

(OS) L1404404-99 09/22/21 21:00 • (DUP) R3707705-8 09/22/21 21:17

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	0.471	U	1	200	P1	15
Fluoride	U	U	1	0.000		15
Sulfate	U	U	1	0.000		15

Laboratory Control Sample (LCS)

(LCS) R3707705-2 09/22/21 02:20

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	38.9	97.2	80.0-120	
Fluoride	8.00	7.98	99.7	80.0-120	
Sulfate	40.0	38.6	96.4	80.0-120	

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L1404404-87 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1404404-87 09/22/21 07:07 • (MS) R3707705-4 09/22/21 07:23 • (MSD) R3707705-5 09/22/21 07:39

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50.0	U	46.1	46.1	92.3	92.2	1	80.0-120			0.105	15
Fluoride	5.00	U	4.57	4.58	91.5	91.7	1	80.0-120			0.192	15
Sulfate	50.0	U	45.4	45.3	90.8	90.6	1	80.0-120			0.167	15

L1404404-99 Original Sample (OS) • Matrix Spike (MS)

(OS) L1404404-99 09/22/21 21:00 • (MS) R3707705-9 09/22/21 21:33

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	0.471	52.4	104	1	80.0-120	
Fluoride	5.00	U	5.30	106	1	80.0-120	
Sulfate	50.0	U	51.9	104	1	80.0-120	

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QUALITY CONTROL SUMMARY

L1404404-25,38,41,49,53,54,67,70,71,72,73,95,96,106

Method Blank (MB)

(MB) R3707543-1 09/22/21 14:39

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury	U		0.000100	0.000200

Laboratory Control Sample (LCS)

(LCS) R3707543-2 09/22/21 14:41

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.00300	0.00356	119	80.0-120	

L1403999-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1403999-04 09/22/21 14:43 • (MS) R3707543-3 09/22/21 14:45 • (MSD) R3707543-4 09/22/21 14:47

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.00300	U	0.00351	0.00345	117	115	1	75.0-125			1.84	20

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QUALITY CONTROL SUMMARY

L1404404-25,38,41,49,53,54,67,70,71,72,73,95,96,106

Method Blank (MB)

(MB) R3707735-1 09/23/21 03:42

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Boron	U		0.0200	0.200

Laboratory Control Sample (LCS)

(LCS) R3707735-2 09/23/21 03:44

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron	1.00	0.970	97.0	80.0-120	

L1404404-106 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1404404-106 09/23/21 03:48 • (MS) R3707735-4 09/23/21 03:54 • (MSD) R3707735-5 09/23/21 03:57

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Boron	1.00	0.608	1.62	1.59	101	98.1	1	75.0-125			2.11	20

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Method Blank (MB)

(MB) R3707759-1 09/23/21 02:33

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic	U		0.000180	0.00200
Barium	U		0.000381	0.00200
Calcium	U		0.0936	1.00
Chromium	U		0.00124	0.00200
Iron	U		0.0281	0.100
Lead	U		0.000849	0.00200
Manganese	U		0.000704	0.00500
Potassium	U		0.108	2.00
Selenium	U		0.000300	0.00200
Sodium	0.523	J	0.376	2.00

Laboratory Control Sample (LCS)

(LCS) R3707759-2 09/23/21 02:36

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	0.0500	0.0462	92.4	80.0-120	
Barium	0.0500	0.0465	92.9	80.0-120	
Calcium	5.00	4.78	95.6	80.0-120	
Chromium	0.0500	0.0472	94.3	80.0-120	
Iron	5.00	4.82	96.4	80.0-120	
Lead	0.0500	0.0462	92.4	80.0-120	
Manganese	0.0500	0.0456	91.2	80.0-120	
Potassium	5.00	4.23	84.7	80.0-120	
Selenium	0.0500	0.0473	94.5	80.0-120	
Sodium	5.00	5.79	116	80.0-120	

L1404404-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1404404-01 09/23/21 02:40 • (MS) R3707759-4 09/23/21 02:46 • (MSD) R3707759-5 09/23/21 02:49

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	0.0500	0.00561	0.0525	0.0539	93.7	96.5	1	75.0-125			2.58	20
Barium	0.0500	0.0104	0.0593	0.0597	97.8	98.5	1	75.0-125			0.641	20
Calcium	5.00	607	593	613	0.000	119	1	75.0-125	V		3.27	20
Chromium	0.0500	U	0.0463	0.0471	92.6	94.1	1	75.0-125			1.65	20
Potassium	5.00	2.23	7.15	7.82	98.5	112	1	75.0-125			8.91	20
Iron	5.00	4.29	8.98	9.36	93.8	102	1	75.0-125			4.21	20
Lead	0.0500	U	0.0441	0.0458	88.3	91.6	1	75.0-125			3.67	20

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L1404404-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1404404-01 09/23/21 02:40 • (MS) R3707759-4 09/23/21 02:46 • (MSD) R3707759-5 09/23/21 02:49

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Manganese	0.0500	1.36	1.40	1.43	77.9	137	1	75.0-125		V	2.10	20
Selenium	0.0500	0.000527	0.0495	0.0510	98.0	101	1	75.0-125			3.02	20
Sodium	5.00	1110	1170	1180	1180	1530	1	75.0-125	E V	E V	1.51	20

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QUALITY CONTROL SUMMARY

L1404404-22,23,24,25,26,27,28,29,31,32,33,34,35,36,37,38,39,40,41,42

Method Blank (MB)

(MB) R3707744-1 09/23/21 00:52

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic	U		0.000180	0.00200
Barium	U		0.000381	0.00200
Cadmium	U		0.000150	0.00100
Calcium	U		0.0936	1.00
Chromium	U		0.00124	0.00200
Cobalt	U		0.0000596	0.00200
Iron	U		0.0281	0.100
Lead	U		0.000849	0.00200
Manganese	U		0.000704	0.00500
Nickel	U		0.000816	0.00200
Potassium	U		0.108	2.00
Selenium	U		0.000300	0.00200
Sodium	U		0.376	2.00
Uranium	U		0.0000789	0.00100
Vanadium	U		0.000664	0.00500

Laboratory Control Sample (LCS)

(LCS) R3707744-2 09/23/21 00:55

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	0.0500	0.0444	88.9	80.0-120	
Barium	0.0500	0.0442	88.3	80.0-120	
Cadmium	0.0500	0.0482	96.3	80.0-120	
Calcium	5.00	4.78	95.5	80.0-120	
Chromium	0.0500	0.0456	91.2	80.0-120	
Cobalt	0.0500	0.0467	93.4	80.0-120	
Iron	5.00	4.60	92.1	80.0-120	
Lead	0.0500	0.0440	88.1	80.0-120	
Manganese	0.0500	0.0451	90.2	80.0-120	
Nickel	0.0500	0.0470	94.1	80.0-120	
Potassium	5.00	4.10	82.0	80.0-120	
Selenium	0.0500	0.0463	92.6	80.0-120	
Sodium	5.00	4.86	97.1	80.0-120	
Uranium	0.0500	0.0444	88.9	80.0-120	
Vanadium	0.0500	0.0452	90.4	80.0-120	

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QUALITY CONTROL SUMMARY

L1404404-22,23,24,25,26,27,28,29,31,32,33,34,35,36,37,38,39,40,41,42

L1404404-22 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1404404-22 09/23/21 00:59 • (MS) R3707744-4 09/23/21 01:05 • (MSD) R3707744-5 09/23/21 01:08

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	0.0500	0.0304	0.0769	0.0780	93.0	95.1	1	75.0-125			1.33	20
Barium	0.0500	0.0130	0.0619	0.0608	97.7	95.6	1	75.0-125			1.73	20
Cadmium	0.0500	U	0.0484	0.0490	96.9	98.0	1	75.0-125			1.20	20
Calcium	5.00	505	520	526	306	432	1	75.0-125	V	V	1.20	20
Chromium	0.0500	U	0.0472	0.0477	94.3	95.4	1	75.0-125			1.09	20
Cobalt	0.0500	0.000499	0.0465	0.0472	92.0	93.3	1	75.0-125			1.39	20
Potassium	5.00	5.14	10.6	10.7	108	111	1	75.0-125			1.08	20
Iron	5.00	0.465	4.92	5.17	89.1	94.1	1	75.0-125			4.99	20
Lead	0.0500	U	0.0456	0.0480	91.1	96.0	1	75.0-125			5.15	20
Manganese	0.0500	2.17	2.15	2.18	0.000	23.9	1	75.0-125	V	V	1.52	20
Nickel	0.0500	0.00365	0.0492	0.0505	91.1	93.8	1	75.0-125			2.72	20
Selenium	0.0500	0.000490	0.0510	0.0512	101	101	1	75.0-125			0.337	20
Sodium	5.00	924	912	951	0.000	539	1	75.0-125	V	V	4.20	20
Uranium	0.0500	0.000718	0.0488	0.0501	96.2	98.9	1	75.0-125			2.69	20
Vanadium	0.0500	0.00144	0.0492	0.0502	95.5	97.4	1	75.0-125			1.97	20

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Method Blank (MB)

(MB) R3707790-1 09/23/21 03:12

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic	U		0.000180	0.00200
Barium	U		0.000381	0.00200
Cadmium	U		0.000150	0.00100
Calcium	U		0.0936	1.00
Chromium	U		0.00124	0.00200
Cobalt	U		0.0000596	0.00200
Iron	U		0.0281	0.100
Lead	U		0.000849	0.00200
Manganese	U		0.000704	0.00500
Nickel	U		0.000816	0.00200
Potassium	U		0.108	2.00
Selenium	U		0.000300	0.00200
Sodium	U		0.376	2.00
Uranium	U		0.0000789	0.00100
Vanadium	U		0.000664	0.00500

Laboratory Control Sample (LCS)

(LCS) R3707790-2 09/23/21 03:15

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	0.0500	0.0491	98.3	80.0-120	
Barium	0.0500	0.0498	99.5	80.0-120	
Cadmium	0.0500	0.0495	98.9	80.0-120	
Calcium	5.00	5.05	101	80.0-120	
Chromium	0.0500	0.0516	103	80.0-120	
Cobalt	0.0500	0.0507	101	80.0-120	
Iron	5.00	4.99	99.7	80.0-120	
Lead	0.0500	0.0492	98.3	80.0-120	
Manganese	0.0500	0.0533	107	80.0-120	
Nickel	0.0500	0.0524	105	80.0-120	
Potassium	5.00	5.02	100	80.0-120	
Selenium	0.0500	0.0505	101	80.0-120	
Sodium	5.00	5.21	104	80.0-120	
Uranium	0.0500	0.0483	96.7	80.0-120	
Vanadium	0.0500	0.0506	101	80.0-120	

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L1404404-43 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1404404-43 09/23/21 03:19 • (MS) R3707790-4 09/23/21 03:26 • (MSD) R3707790-5 09/23/21 03:29

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	0.0500	0.0278	0.0741	0.0725	92.8	89.5	1	75.0-125			2.21	20
Barium	0.0500	0.0602	0.111	0.106	102	91.3	1	75.0-125			5.08	20
Cadmium	0.0500	U	0.0497	0.0493	99.5	98.6	1	75.0-125			0.850	20
Calcium	5.00	84.5	88.1	88.0	72.5	70.9	1	75.0-125	V	V	0.0878	20
Chromium	0.0500	U	0.0494	0.0479	98.8	95.9	1	75.0-125			2.98	20
Cobalt	0.0500	0.00211	0.0498	0.0491	95.4	94.0	1	75.0-125			1.45	20
Potassium	5.00	0.171	5.00	4.95	96.6	95.6	1	75.0-125			1.01	20
Iron	5.00	2.22	6.94	6.76	94.5	91.0	1	75.0-125			2.59	20
Lead	0.0500	0.00124	0.0472	0.0476	91.8	92.7	1	75.0-125			0.937	20
Manganese	0.0500	1.54	1.56	1.53	25.3	0.000	1	75.0-125	V	V	1.54	20
Nickel	0.0500	0.00601	0.0547	0.0528	97.3	93.6	1	75.0-125			3.41	20
Selenium	0.0500	U	0.0529	0.0507	106	101	1	75.0-125			4.26	20
Sodium	5.00	246	249	245	73.1	0.000	1	75.0-125	V	V	1.52	20
Uranium	0.0500	0.000726	0.0496	0.0496	97.7	97.8	1	75.0-125			0.108	20
Vanadium	0.0500	U	0.0490	0.0484	97.9	96.9	1	75.0-125			1.08	20

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Method Blank (MB)

(MB) R3707558-1 09/22/21 21:37

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic	U		0.000180	0.00200
Barium	U		0.000381	0.00200
Cadmium	U		0.000150	0.00100
Calcium	U		0.0936	1.00
Chromium	U		0.00124	0.00200
Cobalt	U		0.0000596	0.00200
Iron	U		0.0281	0.100
Lead	U		0.000849	0.00200
Manganese	U		0.000704	0.00500
Nickel	U		0.000816	0.00200
Potassium	U		0.108	2.00
Selenium	U		0.000300	0.00200
Sodium	U		0.376	2.00
Uranium	U		0.0000789	0.00100
Vanadium	U		0.000664	0.00500

Laboratory Control Sample (LCS)

(LCS) R3707558-2 09/22/21 21:40

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	0.0500	0.0484	96.8	80.0-120	
Barium	0.0500	0.0482	96.5	80.0-120	
Cadmium	0.0500	0.0502	100	80.0-120	
Calcium	5.00	4.91	98.2	80.0-120	
Chromium	0.0500	0.0517	103	80.0-120	
Cobalt	0.0500	0.0504	101	80.0-120	
Iron	5.00	4.99	99.8	80.0-120	
Lead	0.0500	0.0504	101	80.0-120	
Manganese	0.0500	0.0508	102	80.0-120	
Nickel	0.0500	0.0517	103	80.0-120	
Potassium	5.00	4.74	94.9	80.0-120	
Selenium	0.0500	0.0504	101	80.0-120	
Sodium	5.00	5.10	102	80.0-120	
Uranium	0.0500	0.0487	97.5	80.0-120	
Vanadium	0.0500	0.0509	102	80.0-120	

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QUALITY CONTROL SUMMARY

L1404404-67,68,69,70,71,72,73,75,76,77,78,79,80,81,82,83,84,85,86,87

L1404404-67 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1404404-67 09/22/21 21:48 • (MS) R3707558-4 09/22/21 21:52 • (MSD) R3707558-5 09/22/21 21:55

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	0.0500	0.00287	0.0516	0.0509	97.5	96.1	1	75.0-125			1.38	20
Barium	0.0500	0.0125	0.0607	0.0614	96.5	97.9	1	75.0-125			1.12	20
Cadmium	0.0500	U	0.0527	0.0521	105	104	1	75.0-125			1.07	20
Calcium	5.00	542	544	544	32.8	31.1	1	75.0-125	V	V	0.0160	20
Chromium	0.0500	U	0.0521	0.0500	104	100	1	75.0-125			4.07	20
Cobalt	0.0500	0.000760	0.0516	0.0486	102	95.6	1	75.0-125			5.98	20
Potassium	5.00	2.42	7.03	7.11	92.2	93.7	1	75.0-125			1.07	20
Iron	5.00	0.0558	5.07	4.84	100	95.8	1	75.0-125			4.58	20
Lead	0.0500	U	0.0500	0.0490	100	98.0	1	75.0-125			2.04	20
Manganese	0.0500	0.0162	0.0662	0.0644	100	96.4	1	75.0-125			2.81	20
Nickel	0.0500	0.00251	0.0530	0.0515	101	98.0	1	75.0-125			2.80	20
Selenium	0.0500	0.00591	0.0592	0.0581	107	104	1	75.0-125			1.87	20
Sodium	5.00	115	117	117	36.2	48.0	1	75.0-125	V	V	0.506	20
Uranium	0.0500	0.0396	0.0914	0.0894	104	99.6	1	75.0-125			2.21	20
Vanadium	0.0500	0.0149	0.0674	0.0649	105	100	1	75.0-125			3.75	20

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QUALITY CONTROL SUMMARY

L1404404-89,90,91,93,94,95,96,97,98,99,102,103,104,105,106,107,108,109,110

Method Blank (MB)

(MB) R3707782-1 09/23/21 01:29

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic	U		0.000180	0.00200
Barium	U		0.000381	0.00200
Cadmium	U		0.000150	0.00100
Calcium	U		0.0936	1.00
Chromium	U		0.00124	0.00200
Cobalt	U		0.0000596	0.00200
Iron	U		0.0281	0.100
Lead	U		0.000849	0.00200
Manganese	U		0.000704	0.00500
Nickel	U		0.000816	0.00200
Potassium	U		0.108	2.00
Selenium	U		0.000300	0.00200
Sodium	U		0.376	2.00
Uranium	U		0.0000789	0.00100
Vanadium	U		0.000664	0.00500

Laboratory Control Sample (LCS)

(LCS) R3707782-2 09/23/21 01:32

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	0.0500	0.0466	93.2	80.0-120	
Barium	0.0500	0.0475	94.9	80.0-120	
Cadmium	0.0500	0.0482	96.5	80.0-120	
Calcium	5.00	4.67	93.4	80.0-120	
Chromium	0.0500	0.0494	98.9	80.0-120	
Cobalt	0.0500	0.0484	96.8	80.0-120	
Iron	5.00	4.75	95.0	80.0-120	
Lead	0.0500	0.0459	91.8	80.0-120	
Manganese	0.0500	0.0490	98.0	80.0-120	
Nickel	0.0500	0.0506	101	80.0-120	
Potassium	5.00	4.77	95.4	80.0-120	
Selenium	0.0500	0.0488	97.7	80.0-120	
Sodium	5.00	4.66	93.2	80.0-120	
Uranium	0.0500	0.0467	93.3	80.0-120	
Vanadium	0.0500	0.0492	98.4	80.0-120	

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QUALITY CONTROL SUMMARY

L1404404-89,90,91,93,94,95,96,97,98,99,102,103,104,105,106,107,108,109,110

L1404404-102 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1404404-102 09/23/21 01:36 • (MS) R3707782-4 09/23/21 01:42 • (MSD) R3707782-5 09/23/21 01:46

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	0.0500	0.00715	0.0535	0.0515	92.6	88.7	1	75.0-125			3.70	20
Barium	0.0500	0.0298	0.0768	0.0779	94.0	96.1	1	75.0-125			1.37	20
Cadmium	0.0500	U	0.0484	0.0494	96.7	98.8	1	75.0-125			2.11	20
Calcium	5.00	361	356	356	0.000	0.000	1	75.0-125	V	V	0.0655	20
Chromium	0.0500	U	0.0469	0.0466	93.7	93.3	1	75.0-125			0.509	20
Cobalt	0.0500	0.00268	0.0481	0.0481	90.8	90.8	1	75.0-125			0.0232	20
Potassium	5.00	0.466	5.17	5.12	94.0	93.0	1	75.0-125			0.919	20
Iron	5.00	0.355	4.83	4.78	89.4	88.4	1	75.0-125			1.00	20
Lead	0.0500	U	0.0467	0.0474	93.5	94.9	1	75.0-125			1.49	20
Manganese	0.0500	1.35	1.36	1.35	2.89	0.000	1	75.0-125	V	V	0.265	20
Nickel	0.0500	0.00417	0.0492	0.0489	90.1	89.4	1	75.0-125			0.711	20
Selenium	0.0500	U	0.0509	0.0534	102	107	1	75.0-125			4.74	20
Sodium	5.00	207	205	211	0.000	74.2	1	75.0-125	V	V	2.79	20
Uranium	0.0500	0.00241	0.0510	0.0502	97.2	95.5	1	75.0-125			1.66	20
Vanadium	0.0500	0.00530	0.0517	0.0509	92.7	91.1	1	75.0-125			1.57	20

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Method Blank (MB)

(MB) R3706012-1 09/19/21 10:40

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic	U		0.000180	0.00200
Barium	U		0.000381	0.00200
Calcium	U		0.0936	1.00
Chromium	U		0.00124	0.00200
Iron	U		0.0281	0.100
Lead	U		0.000849	0.00200
Manganese	U		0.000704	0.00500
Potassium	U		0.108	2.00
Selenium	U		0.000300	0.00200
Sodium	U		0.376	2.00

Laboratory Control Sample (LCS)

(LCS) R3706012-2 09/19/21 10:43

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	0.0500	0.0518	104	80.0-120	
Barium	0.0500	0.0475	95.0	80.0-120	
Calcium	5.00	5.06	101	80.0-120	
Chromium	0.0500	0.0528	106	80.0-120	
Iron	5.00	5.21	104	80.0-120	
Lead	0.0500	0.0477	95.4	80.0-120	
Manganese	0.0500	0.0510	102	80.0-120	
Potassium	5.00	5.05	101	80.0-120	
Selenium	0.0500	0.0537	107	80.0-120	
Sodium	5.00	5.18	104	80.0-120	

L1404433-16 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1404433-16 09/19/21 10:47 • (MS) R3706012-4 09/19/21 10:54 • (MSD) R3706012-5 09/19/21 10:57

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	0.0500	0.00722	0.0560	0.0563	97.6	98.2	1	75.0-125			0.498	20
Barium	0.0500	0.147	0.188	0.192	82.4	89.9	1	75.0-125			1.97	20
Calcium	5.00	39.6	44.0	44.1	86.8	89.5	1	75.0-125			0.308	20
Chromium	0.0500	U	0.0505	0.0514	101	103	1	75.0-125			1.80	20
Potassium	5.00	3.59	8.66	8.71	101	102	1	75.0-125			0.549	20
Iron	5.00	0.752	5.76	5.81	100	101	1	75.0-125			0.936	20
Lead	0.0500	0.0289	0.0779	0.0777	98.0	97.6	1	75.0-125			0.230	20

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QUALITY CONTROL SUMMARY

L1404404-111,112,113,114,115

L1404433-16 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1404433-16 09/19/21 10:47 • (MS) R3706012-4 09/19/21 10:54 • (MSD) R3706012-5 09/19/21 10:57

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Manganese	0.0500	0.410	0.458	0.459	96.4	99.3	1	75.0-125			0.316	20
Selenium	0.0500	0.000767	0.0518	0.0511	102	101	1	75.0-125			1.46	20
Sodium	5.00	29.0	33.7	33.7	93.2	94.4	1	75.0-125			0.175	20

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Method Blank (MB)

(MB) R3708116-3 09/23/21 01:24

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*98.2*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R3708116-2 09/23/21 00:18

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	6.04	110	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*107*	*78.0-120*	

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Method Blank (MB)

(MB) R3709231-2 09/23/21 00:54

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*99.9*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R3709231-1 09/23/21 00:00

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.83	106	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*107*	*78.0-120*	

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Method Blank (MB)

(MB) R3707800-2 09/23/21 03:00

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*112*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R3707800-1 09/23/21 02:16

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.66	103	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*98.6*	*78.0-120*	

L1404677-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1404677-03 09/23/21 04:49 • (MS) R3707800-3 09/23/21 10:42 • (MSD) R3707800-4 09/23/21 11:03

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	U	6.29	6.79	114	123	1	10.0-160			7.65	22
(S) a,a,a-Trifluorotoluene(FID)					*97.1*	*97.9*		*78.0-120*				

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Method Blank (MB)

(MB) R3709306-2 09/25/21 00:37

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*94.5*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R3709306-1 09/24/21 23:40

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	6.34	115	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*107*	*78.0-120*	

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Method Blank (MB)

(MB) R3709087-2 09/23/21 12:07

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*97.6*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R3709087-1 09/23/21 11:13

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.52	100	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*105*	*78.0-120*	

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Method Blank (MB)

(MB) R3709309-2 09/24/21 01:33

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*114*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R3709309-1 09/24/21 00:50

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.61	102	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*103*	*78.0-120*	

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Method Blank (MB)

(MB) R3709089-2 09/23/21 12:07

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*97.6*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R3709089-1 09/23/21 11:13

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.52	100	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*105*	*78.0-120*	

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Method Blank (MB)

(MB) R3709047-2 09/24/21 02:06

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*97.8*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R3709047-1 09/24/21 01:10

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	6.04	110	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*106*	*78.0-120*	

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QUALITY CONTROL SUMMARY

L1404404-42,46,53,54,55,56,57,59,60

Method Blank (MB)

(MB) R3709013-1 09/26/21 13:43

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*94.7*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R3709013-2 09/26/21 14:11

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.96	108	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*106*	*78.0-120*	

L1404404-42 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1404404-42 09/26/21 22:45 • (MS) R3709013-3 09/27/21 00:38 • (MSD) R3709013-4 09/27/21 01:06

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	138	5.69	87.4	115	59.2	79.2	25	10.0-160		J3	27.3	22
(S) a,a,a-Trifluorotoluene(FID)					*101*	*103*		*78.0-120*				

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Method Blank (MB)

(MB) R3709571-2 09/27/21 04:15

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*94.8*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R3709571-1 09/27/21 03:11

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	4.96	90.2	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*104*	*78.0-120*	

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Method Blank (MB)

(MB) R3709573-2 09/27/21 04:15

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*94.8*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R3709573-1 09/27/21 03:11

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	4.96	90.2	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*104*	*78.0-120*	

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QUALITY CONTROL SUMMARY

L1404404-90,94,95

Method Blank (MB)

(MB) R3709833-3 09/28/21 02:54

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*95.1*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R3709833-2 09/28/21 02:00

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.03	91.5	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*102*	*78.0-120*	

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Method Blank (MB)

(MB) R3706462-3 09/19/21 02:35

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0113	0.0500
Benzene	U		0.0000941	0.00100
Bromodichloromethane	U		0.000136	0.00100
Bromoform	U		0.000129	0.00100
Bromomethane	U		0.000605	0.00500
n-Butylbenzene	0.000257	J	0.000157	0.00100
sec-Butylbenzene	0.000216	J	0.000125	0.00100
Carbon disulfide	U		0.0000962	0.00100
Carbon tetrachloride	U		0.000128	0.00100
Chlorobenzene	U		0.000116	0.00100
Chlorodibromomethane	U		0.000140	0.00100
Chloroethane	U		0.000192	0.00500
Chloroform	U		0.000111	0.00500
Chloromethane	U		0.000960	0.00250
1,2-Dibromoethane	U		0.000126	0.00100
1,1-Dichloroethane	U		0.000100	0.00100
1,2-Dichloroethane	U		0.0000819	0.00100
1,1-Dichloroethene	U		0.000188	0.00100
cis-1,2-Dichloroethene	0.000471	J	0.000126	0.00100
trans-1,2-Dichloroethene	U		0.000149	0.00100
1,2-Dichloropropane	U		0.000149	0.00100
cis-1,3-Dichloropropene	U		0.000111	0.00100
trans-1,3-Dichloropropene	U		0.000118	0.00100
Ethylbenzene	U		0.000137	0.00100
2-Hexanone	U		0.000787	0.0100
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	0.000174	J	0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
Methylene Chloride	U		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100
Methyl tert-butyl ether	U		0.000101	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.0000993	0.00100
Styrene	U		0.000118	0.00100
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100
Tetrachloroethene	U		0.000300	0.00100
Toluene	U		0.000278	0.00100
1,1,1-Trichloroethane	U		0.000149	0.00100
1,1,2-Trichloroethane	U		0.000158	0.00100

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QUALITY CONTROL SUMMARY

L1404404-01,10,100,101,102,103,105,106

Method Blank (MB)

(MB) R3706462-3 09/19/21 02:35

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Trichloroethene	U		0.000190	0.00100
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
Vinyl chloride	U		0.000234	0.00100
Xylenes, Total	U		0.000174	0.00300
o-Xylene	U		0.000174	0.00100
m&p-Xylenes	U		0.000430	0.00200
tert-Butyl alcohol	U		0.00406	0.00500
(S) Toluene-d8	*110*			*80.0-120*
(S) 4-Bromofluorobenzene	*103*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3706462-1 09/19/21 01:34 • (LCSD) R3706462-2 09/19/21 01:54

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.0250	0.0250	0.0260	100	104	19.0-160			3.92	27
Benzene	0.00500	0.00457	0.00440	91.4	88.0	70.0-123			3.79	20
Bromodichloromethane	0.00500	0.00481	0.00467	96.2	93.4	75.0-120			2.95	20
Bromoform	0.00500	0.00474	0.00481	94.8	96.2	68.0-132			1.47	20
Bromomethane	0.00500	0.00519	0.00488	104	97.6	10.0-160			6.16	25
n-Butylbenzene	0.00500	0.00520	0.00525	104	105	73.0-125			0.957	20
sec-Butylbenzene	0.00500	0.00514	0.00537	103	107	75.0-125			4.38	20
Carbon disulfide	0.00500	0.00462	0.00456	92.4	91.2	61.0-128			1.31	20
Carbon tetrachloride	0.00500	0.00504	0.00467	101	93.4	68.0-126			7.62	20
Chlorobenzene	0.00500	0.00511	0.00511	102	102	80.0-121			0.000	20
Chlorodibromomethane	0.00500	0.00528	0.00503	106	101	77.0-125			4.85	20
Chloroethane	0.00500	0.00487	0.00455	97.4	91.0	47.0-150			6.79	20
Chloroform	0.00500	0.00492	0.00463	98.4	92.6	73.0-120			6.07	20
Chloromethane	0.00500	0.00482	0.00459	96.4	91.8	41.0-142			4.89	20
1,2-Dibromoethane	0.00500	0.00514	0.00503	103	101	80.0-122			2.16	20
1,1-Dichloroethane	0.00500	0.00498	0.00468	99.6	93.6	70.0-126			6.21	20
1,2-Dichloroethane	0.00500	0.00485	0.00482	97.0	96.4	70.0-128			0.620	20
1,1-Dichloroethene	0.00500	0.00484	0.00463	96.8	92.6	71.0-124			4.44	20
cis-1,2-Dichloroethene	0.00500	0.00591	0.00533	118	107	73.0-120			10.3	20
trans-1,2-Dichloroethene	0.00500	0.00480	0.00464	96.0	92.8	73.0-120			3.39	20
1,2-Dichloropropane	0.00500	0.00496	0.00484	99.2	96.8	77.0-125			2.45	20
cis-1,3-Dichloropropene	0.00500	0.00468	0.00450	93.6	90.0	80.0-123			3.92	20

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Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3706462-1 09/19/21 01:34 • (LCSD) R3706462-2 09/19/21 01:54

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
trans-1,3-Dichloropropene	0.00500	0.00490	0.00488	98.0	97.6	78.0-124			0.409	20
Ethylbenzene	0.00500	0.00516	0.00478	103	95.6	79.0-123			7.65	20
2-Hexanone	0.0250	0.0263	0.0272	105	109	67.0-149			3.36	20
Isopropylbenzene	0.00500	0.00522	0.00522	104	104	76.0-127			0.000	20
p-Isopropyltoluene	0.00500	0.00558	0.00571	112	114	76.0-125			2.30	20
2-Butanone (MEK)	0.0250	0.0252	0.0263	101	105	44.0-160			4.27	20
Methylene Chloride	0.00500	0.00455	0.00469	91.0	93.8	67.0-120			3.03	20
4-Methyl-2-pentanone (MIBK)	0.0250	0.0265	0.0266	106	106	68.0-142			0.377	20
Methyl tert-butyl ether	0.00500	0.00488	0.00482	97.6	96.4	68.0-125			1.24	20
Naphthalene	0.00500	0.00507	0.00583	101	117	54.0-135			13.9	20
n-Propylbenzene	0.00500	0.00521	0.00533	104	107	77.0-124			2.28	20
Styrene	0.00500	0.00515	0.00504	103	101	73.0-130			2.16	20
1,1,1,2-Tetrachloroethane	0.00500	0.00492	0.00487	98.4	97.4	75.0-125			1.02	20
1,1,2,2-Tetrachloroethane	0.00500	0.00498	0.00536	99.6	107	65.0-130			7.35	20
Tetrachloroethene	0.00500	0.00523	0.00504	105	101	72.0-132			3.70	20
Toluene	0.00500	0.00499	0.00483	99.8	96.6	79.0-120			3.26	20
1,1,1-Trichloroethane	0.00500	0.00476	0.00462	95.2	92.4	73.0-124			2.99	20
1,1,2-Trichloroethane	0.00500	0.00513	0.00483	103	96.6	80.0-120			6.02	20
Trichloroethene	0.00500	0.00521	0.00470	104	94.0	78.0-124			10.3	20
1,2,4-Trimethylbenzene	0.00500	0.00522	0.00533	104	107	76.0-121			2.09	20
1,3,5-Trimethylbenzene	0.00500	0.00525	0.00538	105	108	76.0-122			2.45	20
Vinyl chloride	0.00500	0.00556	0.00530	111	106	67.0-131			4.79	20
Xylenes, Total	0.0150	0.0156	0.0153	104	102	79.0-123			1.94	20
o-Xylene	0.00500	0.00530	0.00518	106	104	80.0-122			2.29	20
m&p-Xylenes	0.0100	0.0103	0.0101	103	101	80.0-122			1.96	20
tert-Butyl alcohol	0.0250	0.0218	0.0243	87.2	97.2	27.0-160			10.8	30
(S) Toluene-d8				*108*	*107*	*80.0-120*				
(S) 4-Bromofluorobenzene				*105*	*103*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*102*	*104*	*70.0-130*				

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Method Blank (MB)

(MB) R3707518-2 09/18/21 09:13

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0113	0.0500
Benzene	U		0.0000941	0.00100
Bromodichloromethane	U		0.000136	0.00100
Bromoform	U		0.000129	0.00100
Bromomethane	U		0.000605	0.00500
n-Butylbenzene	U		0.000157	0.00100
sec-Butylbenzene	U		0.000125	0.00100
Carbon disulfide	U		0.0000962	0.00100
Carbon tetrachloride	U		0.000128	0.00100
Chlorobenzene	U		0.000116	0.00100
Chlorodibromomethane	U		0.000140	0.00100
Chloroethane	U		0.000192	0.00500
Chloroform	U		0.000111	0.00500
Chloromethane	U		0.000960	0.00250
1,2-Dibromoethane	U		0.000126	0.00100
1,1-Dichloroethane	U		0.000100	0.00100
1,2-Dichloroethane	U		0.0000819	0.00100
1,1-Dichloroethene	U		0.000188	0.00100
cis-1,2-Dichloroethene	U		0.000126	0.00100
trans-1,2-Dichloroethene	U		0.000149	0.00100
1,2-Dichloropropane	U		0.000149	0.00100
cis-1,3-Dichloropropene	U		0.000111	0.00100
trans-1,3-Dichloropropene	U		0.000118	0.00100
Ethylbenzene	U		0.000137	0.00100
2-Hexanone	U		0.000787	0.0100
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
Methylene Chloride	U		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100
Methyl tert-butyl ether	U		0.000101	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.0000993	0.00100
Styrene	U		0.000118	0.00100
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100
Tetrachloroethene	U		0.000300	0.00100
Toluene	U		0.000278	0.00100
1,1,1-Trichloroethane	U		0.000149	0.00100
1,1,2-Trichloroethane	U		0.000158	0.00100

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QUALITY CONTROL SUMMARY

L1404404-13,24,26,30,41,42,43,45,46,47,107,108,109,110,111,112,113,114,115

Method Blank (MB)

(MB) R3707518-2 09/18/21 09:13

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Trichloroethene	U		0.000190	0.00100
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
Vinyl chloride	U		0.000234	0.00100
Xylenes, Total	U		0.000174	0.00300
o-Xylene	U		0.000174	0.00100
m&p-Xylenes	U		0.000430	0.00200
tert-Butyl alcohol	U		0.00406	0.00500
(S) Toluene-d8	*102*			*80.0-120*
(S) 4-Bromofluorobenzene	*97.6*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*94.2*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3707518-1 09/18/21 08:32

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.0250	0.0309	124	19.0-160	
Benzene	0.00500	0.00502	100	70.0-123	
Bromodichloromethane	0.00500	0.00476	95.2	75.0-120	
Bromoform	0.00500	0.00534	107	68.0-132	
Bromomethane	0.00500	0.00671	134	10.0-160	
n-Butylbenzene	0.00500	0.00458	91.6	73.0-125	
sec-Butylbenzene	0.00500	0.00473	94.6	75.0-125	
Carbon disulfide	0.00500	0.00440	88.0	61.0-128	
Carbon tetrachloride	0.00500	0.00469	93.8	68.0-126	
Chlorobenzene	0.00500	0.00538	108	80.0-121	
Chlorodibromomethane	0.00500	0.00489	97.8	77.0-125	
Chloroethane	0.00500	0.00485	97.0	47.0-150	
Chloroform	0.00500	0.00516	103	73.0-120	
Chloromethane	0.00500	0.00446	89.2	41.0-142	
1,2-Dibromoethane	0.00500	0.00518	104	80.0-122	
1,1-Dichloroethane	0.00500	0.00438	87.6	70.0-126	
1,2-Dichloroethane	0.00500	0.00506	101	70.0-128	
1,1-Dichloroethene	0.00500	0.00450	90.0	71.0-124	
cis-1,2-Dichloroethene	0.00500	0.00487	97.4	73.0-120	
trans-1,2-Dichloroethene	0.00500	0.00483	96.6	73.0-120	
1,2-Dichloropropane	0.00500	0.00519	104	77.0-125	
cis-1,3-Dichloropropene	0.00500	0.00505	101	80.0-123	

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Laboratory Control Sample (LCS)

(LCS) R3707518-1 09/18/21 08:32

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
trans-1,3-Dichloropropene	0.00500	0.00479	95.8	78.0-124	
Ethylbenzene	0.00500	0.00540	108	79.0-123	
2-Hexanone	0.0250	0.0227	90.8	67.0-149	
Isopropylbenzene	0.00500	0.00508	102	76.0-127	
p-Isopropyltoluene	0.00500	0.00452	90.4	76.0-125	
2-Butanone (MEK)	0.0250	0.0296	118	44.0-160	
Methylene Chloride	0.00500	0.00497	99.4	67.0-120	
4-Methyl-2-pentanone (MIBK)	0.0250	0.0268	107	68.0-142	
Methyl tert-butyl ether	0.00500	0.00486	97.2	68.0-125	
Naphthalene	0.00500	0.00355	71.0	54.0-135	
n-Propylbenzene	0.00500	0.00449	89.8	77.0-124	
Styrene	0.00500	0.00510	102	73.0-130	
1,1,1,2-Tetrachloroethane	0.00500	0.00520	104	75.0-125	
1,1,2,2-Tetrachloroethane	0.00500	0.00467	93.4	65.0-130	
Tetrachloroethene	0.00500	0.00617	123	72.0-132	
Toluene	0.00500	0.00503	101	79.0-120	
1,1,1-Trichloroethane	0.00500	0.00479	95.8	73.0-124	
1,1,2-Trichloroethane	0.00500	0.00508	102	80.0-120	
Trichloroethene	0.00500	0.00537	107	78.0-124	
1,2,4-Trimethylbenzene	0.00500	0.00448	89.6	76.0-121	
1,3,5-Trimethylbenzene	0.00500	0.00465	93.0	76.0-122	
Vinyl chloride	0.00500	0.00416	83.2	67.0-131	
Xylenes, Total	0.0150	0.0156	104	79.0-123	
o-Xylene	0.00500	0.00504	101	80.0-122	
m&p-Xylenes	0.0100	0.0106	106	80.0-122	
tert-Butyl alcohol	0.0250	0.0247	98.8	27.0-160	
(S) Toluene-d8			*104*	*80.0-120*	
(S) 4-Bromofluorobenzene			*98.8*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*95.9*	*70.0-130*	

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QUALITY CONTROL SUMMARY

L1404404-48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,64,65,66,67,68

Method Blank (MB)

(MB) R3709226-2 09/19/21 14:19

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0113	0.0500
Benzene	U		0.0000941	0.00100
Bromodichloromethane	U		0.000136	0.00100
Bromoform	U		0.000129	0.00100
Bromomethane	U		0.000605	0.00500
n-Butylbenzene	U		0.000157	0.00100
sec-Butylbenzene	U		0.000125	0.00100
Carbon disulfide	U		0.0000962	0.00100
Carbon tetrachloride	U		0.000128	0.00100
Chlorobenzene	U		0.000116	0.00100
Chlorodibromomethane	U		0.000140	0.00100
Chloroethane	U		0.000192	0.00500
Chloroform	U		0.000111	0.00500
Chloromethane	U		0.000960	0.00250
1,2-Dibromoethane	U		0.000126	0.00100
1,1-Dichloroethane	U		0.000100	0.00100
1,2-Dichloroethane	U		0.0000819	0.00100
1,1-Dichloroethene	U		0.000188	0.00100
cis-1,2-Dichloroethene	U		0.000126	0.00100
trans-1,2-Dichloroethene	U		0.000149	0.00100
1,2-Dichloropropane	U		0.000149	0.00100
cis-1,3-Dichloropropene	U		0.000111	0.00100
trans-1,3-Dichloropropene	U		0.000118	0.00100
Ethylbenzene	U		0.000137	0.00100
2-Hexanone	U		0.000787	0.0100
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
Methylene Chloride	U		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100
Methyl tert-butyl ether	U		0.000101	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.0000993	0.00100
Styrene	U		0.000118	0.00100
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100
Tetrachloroethene	U		0.000300	0.00100
Toluene	U		0.000278	0.00100
1,1,1-Trichloroethane	U		0.000149	0.00100
1,1,2-Trichloroethane	U		0.000158	0.00100

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Method Blank (MB)

(MB) R3709226-2 09/19/21 14:19

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Trichloroethene	U		0.000190	0.00100
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
Vinyl chloride	U		0.000234	0.00100
Xylenes, Total	U		0.000174	0.00300
o-Xylene	U		0.000174	0.00100
m&p-Xylenes	U		0.000430	0.00200
tert-Butyl alcohol	U		0.00406	0.00500
(S) Toluene-d8	*98.3*			*80.0-120*
(S) 4-Bromofluorobenzene	*93.2*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*115*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3709226-1 09/19/21 13:17

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.0250	0.0284	114	19.0-160	
Benzene	0.00500	0.00539	108	70.0-123	
Bromodichloromethane	0.00500	0.00544	109	75.0-120	
Bromoform	0.00500	0.00483	96.6	68.0-132	
Bromomethane	0.00500	0.00369	73.8	10.0-160	
n-Butylbenzene	0.00500	0.00406	81.2	73.0-125	
sec-Butylbenzene	0.00500	0.00447	89.4	75.0-125	
Carbon disulfide	0.00500	0.00526	105	61.0-128	
Carbon tetrachloride	0.00500	0.00577	115	68.0-126	
Chlorobenzene	0.00500	0.00479	95.8	80.0-121	
Chlorodibromomethane	0.00500	0.00479	95.8	77.0-125	
Chloroethane	0.00500	0.00559	112	47.0-150	
Chloroform	0.00500	0.00534	107	73.0-120	
Chloromethane	0.00500	0.00460	92.0	41.0-142	
1,2-Dibromoethane	0.00500	0.00453	90.6	80.0-122	
1,1-Dichloroethane	0.00500	0.00565	113	70.0-126	
1,2-Dichloroethane	0.00500	0.00584	117	70.0-128	
1,1-Dichloroethene	0.00500	0.00483	96.6	71.0-124	
cis-1,2-Dichloroethene	0.00500	0.00486	97.2	73.0-120	
trans-1,2-Dichloroethene	0.00500	0.00531	106	73.0-120	
1,2-Dichloropropane	0.00500	0.00556	111	77.0-125	
cis-1,3-Dichloropropene	0.00500	0.00515	103	80.0-123	

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Laboratory Control Sample (LCS)

(LCS) R3709226-1 09/19/21 13:17

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
trans-1,3-Dichloropropene	0.00500	0.00463	92.6	78.0-124	
Ethylbenzene	0.00500	0.00465	93.0	79.0-123	
2-Hexanone	0.0250	0.0235	94.0	67.0-149	
Isopropylbenzene	0.00500	0.00464	92.8	76.0-127	
p-Isopropyltoluene	0.00500	0.00426	85.2	76.0-125	
2-Butanone (MEK)	0.0250	0.0282	113	44.0-160	
Methylene Chloride	0.00500	0.00500	100	67.0-120	
4-Methyl-2-pentanone (MIBK)	0.0250	0.0269	108	68.0-142	
Methyl tert-butyl ether	0.00500	0.00539	108	68.0-125	
Naphthalene	0.00500	0.00291	58.2	54.0-135	
n-Propylbenzene	0.00500	0.00443	88.6	77.0-124	
Styrene	0.00500	0.00419	83.8	73.0-130	
1,1,1,2-Tetrachloroethane	0.00500	0.00459	91.8	75.0-125	
1,1,2,2-Tetrachloroethane	0.00500	0.00446	89.2	65.0-130	
Tetrachloroethene	0.00500	0.00518	104	72.0-132	
Toluene	0.00500	0.00456	91.2	79.0-120	
1,1,1-Trichloroethane	0.00500	0.00529	106	73.0-124	
1,1,2-Trichloroethane	0.00500	0.00457	91.4	80.0-120	
Trichloroethene	0.00500	0.00568	114	78.0-124	
1,2,4-Trimethylbenzene	0.00500	0.00447	89.4	76.0-121	
1,3,5-Trimethylbenzene	0.00500	0.00447	89.4	76.0-122	
Vinyl chloride	0.00500	0.00554	111	67.0-131	
Xylenes, Total	0.0150	0.0140	93.3	79.0-123	
o-Xylene	0.00500	0.00453	90.6	80.0-122	
m&p-Xylenes	0.0100	0.00942	94.2	80.0-122	
tert-Butyl alcohol	0.0250	0.0299	120	27.0-160	
(S) Toluene-d8			*93.8*	*80.0-120*	
(S) 4-Bromofluorobenzene			*95.3*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*111*	*70.0-130*	

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Method Blank (MB)

(MB) R3707864-3 09/19/21 15:32

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100
1,1,1-Trichloroethane	U		0.000149	0.00100
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100
1,1,2-Trichloroethane	U		0.000158	0.00100
1,1-Dichloroethane	U		0.000100	0.00100
1,1-Dichloroethene	U		0.000188	0.00100
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,2-Dibromoethane	U		0.000126	0.00100
1,2-Dichloroethane	U		0.0000819	0.00100
1,2-Dichloropropane	U		0.000149	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
2-Hexanone	U		0.000787	0.0100
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100
Acetone	U		0.0113	0.0500
Benzene	U		0.0000941	0.00100
Bromodichloromethane	U		0.000136	0.00100
Bromoform	U		0.000129	0.00100
Bromomethane	U		0.000605	0.00500
Carbon disulfide	U		0.0000962	0.00100
Carbon tetrachloride	U		0.000128	0.00100
Chlorobenzene	U		0.000116	0.00100
Chlorodibromomethane	U		0.000140	0.00100
Chloroethane	U		0.000192	0.00500
Chloroform	U		0.000111	0.00500
Chloromethane	U		0.000960	0.00250
cis-1,2-Dichloroethene	U		0.000126	0.00100
cis-1,3-Dichloropropene	U		0.000111	0.00100
Ethylbenzene	U		0.000137	0.00100
Isopropylbenzene	U		0.000105	0.00100
m&p-Xylene	U		0.000430	0.00200
Methyl tert-butyl ether	U		0.000101	0.00100
Methylene Chloride	U		0.000430	0.00500
Naphthalene	U		0.00100	0.00500
n-Butylbenzene	U		0.000157	0.00100
n-Propylbenzene	U		0.0000993	0.00100
o-Xylene	U		0.000174	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
sec-Butylbenzene	U		0.000125	0.00100
Styrene	U		0.000118	0.00100

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Method Blank (MB)

(MB) R3707864-3 09/19/21 15:32

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
tert-Butyl alcohol	U		0.00406	0.00500
Tetrachloroethene	U		0.000300	0.00100
Toluene	U		0.000278	0.00100
trans-1,2-Dichloroethene	U		0.000149	0.00100
trans-1,3-Dichloropropene	U		0.000118	0.00100
Trichloroethene	U		0.000190	0.00100
Vinyl chloride	U		0.000234	0.00100
Xylenes, Total	U		0.000174	0.00300
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*
(S) 4-Bromofluorobenzene	*110*			*77.0-126*
(S) Toluene-d8	*107*			*80.0-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3707864-1 09/19/21 14:07 • (LCSD) R3707864-2 09/19/21 14:28

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,1,1,2-Tetrachloroethane	0.00500	0.00496	0.00432	99.2	86.4	75.0-125			13.8	20
1,1,1-Trichloroethane	0.00500	0.00479	0.00428	95.8	85.6	73.0-124			11.2	20
1,1,2,2-Tetrachloroethane	0.00500	0.00553	0.00466	111	93.2	65.0-130			17.1	20
1,1,2-Trichloroethane	0.00500	0.00503	0.00460	101	92.0	80.0-120			8.93	20
1,1-Dichloroethane	0.00500	0.00463	0.00435	92.6	87.0	70.0-126			6.24	20
1,1-Dichloroethene	0.00500	0.00454	0.00405	90.8	81.0	71.0-124			11.4	20
1,2,4-Trimethylbenzene	0.00500	0.00502	0.00438	100	87.6	76.0-121			13.6	20
1,2-Dibromoethane	0.00500	0.00502	0.00417	100	83.4	80.0-122			18.5	20
1,2-Dichloroethane	0.00500	0.00482	0.00444	96.4	88.8	70.0-128			8.21	20
1,2-Dichloropropane	0.00500	0.00469	0.00426	93.8	85.2	77.0-125			9.61	20
1,3,5-Trimethylbenzene	0.00500	0.00503	0.00433	101	86.6	76.0-122			15.0	20
2-Butanone (MEK)	0.0250	0.0229	0.0221	91.6	88.4	44.0-160			3.56	20
2-Hexanone	0.0250	0.0257	0.0239	103	95.6	67.0-149			7.26	20
4-Methyl-2-pentanone (MIBK)	0.0250	0.0251	0.0222	100	88.8	68.0-142			12.3	20
Acetone	0.0250	0.0235	0.0222	94.0	88.8	19.0-160			5.69	27
Benzene	0.00500	0.00481	0.00425	96.2	85.0	70.0-123			12.4	20
Bromodichloromethane	0.00500	0.00488	0.00443	97.6	88.6	75.0-120			9.67	20
Bromoform	0.00500	0.00501	0.00443	100	88.6	68.0-132			12.3	20
Bromomethane	0.00500	0.00633	0.00493	127	98.6	10.0-160			24.9	25
Carbon disulfide	0.00500	0.00430	0.00400	86.0	80.0	61.0-128			7.23	20
Carbon tetrachloride	0.00500	0.00474	0.00437	94.8	87.4	68.0-126			8.12	20
Chlorobenzene	0.00500	0.00487	0.00439	97.4	87.8	80.0-121			10.4	20

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Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3707864-1 09/19/21 14:07 • (LCSD) R3707864-2 09/19/21 14:28

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chlorodibromomethane	0.00500	0.00504	0.00429	101	85.8	77.0-125			16.1	20
Chloroethane	0.00500	0.00477	0.00452	95.4	90.4	47.0-150			5.38	20
Chloroform	0.00500	0.00453	0.00423	90.6	84.6	73.0-120			6.85	20
Chloromethane	0.00500	0.00493	0.00443	98.6	88.6	41.0-142			10.7	20
cis-1,2-Dichloroethene	0.00500	0.00484	0.00451	96.8	90.2	73.0-120			7.06	20
cis-1,3-Dichloropropene	0.00500	0.00467	0.00432	93.4	86.4	80.0-123			7.79	20
Ethylbenzene	0.00500	0.00481	0.00417	96.2	83.4	79.0-123			14.3	20
Isopropylbenzene	0.00500	0.00490	0.00425	98.0	85.0	76.0-127			14.2	20
m&p-Xylene	0.0100	0.0101	0.00892	101	89.2	80.0-122			12.4	20
Methyl tert-butyl ether	0.00500	0.00475	0.00453	95.0	90.6	68.0-125			4.74	20
Methylene Chloride	0.00500	0.00476	0.00451	95.2	90.2	67.0-120			5.39	20
Naphthalene	0.00500	0.00461	0.00414	92.2	82.8	54.0-135			10.7	20
n-Butylbenzene	0.00500	0.00496	0.00437	99.2	87.4	73.0-125			12.6	20
n-Propylbenzene	0.00500	0.00486	0.00466	97.2	93.2	77.0-124			4.20	20
o-Xylene	0.00500	0.00482	0.00428	96.4	85.6	80.0-122			11.9	20
p-Isopropyltoluene	0.00500	0.00490	0.00445	98.0	89.0	76.0-125			9.63	20
sec-Butylbenzene	0.00500	0.00502	0.00452	100	90.4	75.0-125			10.5	20
Styrene	0.00500	0.00478	0.00391	95.6	78.2	73.0-130			20.0	20
tert-Butyl alcohol	0.0250	0.0251	0.0228	100	91.2	27.0-160			9.60	30
Tetrachloroethene	0.00500	0.00483	0.00424	96.6	84.8	72.0-132			13.0	20
Toluene	0.00500	0.00473	0.00417	94.6	83.4	79.0-120			12.6	20
trans-1,2-Dichloroethene	0.00500	0.00400	0.00424	80.0	84.8	73.0-120			5.83	20
trans-1,3-Dichloropropene	0.00500	0.00485	0.00449	97.0	89.8	78.0-124			7.71	20
Trichloroethene	0.00500	0.00473	0.00452	94.6	90.4	78.0-124			4.54	20
Vinyl chloride	0.00500	0.00460	0.00443	92.0	88.6	67.0-131			3.77	20
Xylenes, Total	0.0150	0.0149	0.0132	99.3	88.0	79.0-123			12.1	20
(S) 1,2-Dichloroethane-d4				*103*	*108*	*70.0-130*				
(S) 4-Bromofluorobenzene				*108*	*102*	*77.0-126*				
(S) Toluene-d8				*104*	*103*	*80.0-120*				

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QUALITY CONTROL SUMMARY

L1404404-85,86,87,88,89,91,93,96,97,98,99

Method Blank (MB)

(MB) R3709259-3 09/19/21 15:13

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0113	0.0500
Benzene	U		0.0000941	0.00100
Bromodichloromethane	U		0.000136	0.00100
Bromoform	U		0.000129	0.00100
Bromomethane	U		0.000605	0.00500
n-Butylbenzene	U		0.000157	0.00100
sec-Butylbenzene	U		0.000125	0.00100
Carbon disulfide	U		0.0000962	0.00100
Carbon tetrachloride	U		0.000128	0.00100
Chlorobenzene	U		0.000116	0.00100
Chlorodibromomethane	U		0.000140	0.00100
Chloroethane	U		0.000192	0.00500
Chloroform	U		0.000111	0.00500
Chloromethane	U		0.000960	0.00250
1,2-Dibromoethane	U		0.000126	0.00100
1,1-Dichloroethane	U		0.000100	0.00100
1,2-Dichloroethane	U		0.0000819	0.00100
1,1-Dichloroethene	U		0.000188	0.00100
cis-1,2-Dichloroethene	U		0.000126	0.00100
trans-1,2-Dichloroethene	U		0.000149	0.00100
1,2-Dichloropropane	U		0.000149	0.00100
cis-1,3-Dichloropropene	U		0.000111	0.00100
trans-1,3-Dichloropropene	U		0.000118	0.00100
Ethylbenzene	U		0.000137	0.00100
2-Hexanone	U		0.000787	0.0100
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
Methylene Chloride	U		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100
Methyl tert-butyl ether	U		0.000101	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.0000993	0.00100
Styrene	U		0.000118	0.00100
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100
Tetrachloroethene	U		0.000300	0.00100
Toluene	U		0.000278	0.00100
1,1,1-Trichloroethane	U		0.000149	0.00100
1,1,2-Trichloroethane	U		0.000158	0.00100

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Method Blank (MB)

(MB) R3709259-3 09/19/21 15:13

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Trichloroethene	U		0.000190	0.00100
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
Vinyl chloride	U		0.000234	0.00100
Xylenes, Total	U		0.000174	0.00300
o-Xylene	U		0.000174	0.00100
m&p-Xylenes	U		0.000430	0.00200
tert-Butyl alcohol	U		0.00406	0.00500
(S) Toluene-d8	*100*			*80.0-120*
(S) 4-Bromofluorobenzene	*101*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*91.8*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3709259-1 09/19/21 13:30 • (LCSD) R3709259-2 09/19/21 13:51

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.0250	0.0232	0.0263	92.8	105	19.0-160			12.5	27
Benzene	0.00500	0.00480	0.00469	96.0	93.8	70.0-123			2.32	20
Bromodichloromethane	0.00500	0.00465	0.00498	93.0	99.6	75.0-120			6.85	20
Bromoform	0.00500	0.00521	0.00473	104	94.6	68.0-132			9.66	20
Bromomethane	0.00500	0.00423	0.00495	84.6	99.0	10.0-160			15.7	25
n-Butylbenzene	0.00500	0.00471	0.00484	94.2	96.8	73.0-125			2.72	20
sec-Butylbenzene	0.00500	0.00488	0.00478	97.6	95.6	75.0-125			2.07	20
Carbon disulfide	0.00500	0.00447	0.00450	89.4	90.0	61.0-128			0.669	20
Carbon tetrachloride	0.00500	0.00515	0.00518	103	104	68.0-126			0.581	20
Chlorobenzene	0.00500	0.00504	0.00519	101	104	80.0-121			2.93	20
Chlorodibromomethane	0.00500	0.00491	0.00513	98.2	103	77.0-125			4.38	20
Chloroethane	0.00500	0.00540	0.00546	108	109	47.0-150			1.10	20
Chloroform	0.00500	0.00469	0.00498	93.8	99.6	73.0-120			6.00	20
Chloromethane	0.00500	0.00473	0.00490	94.6	98.0	41.0-142			3.53	20
1,2-Dibromoethane	0.00500	0.00520	0.00510	104	102	80.0-122			1.94	20
1,1-Dichloroethane	0.00500	0.00476	0.00508	95.2	102	70.0-126			6.50	20
1,2-Dichloroethane	0.00500	0.00494	0.00521	98.8	104	70.0-128			5.32	20
1,1-Dichloroethene	0.00500	0.00497	0.00498	99.4	99.6	71.0-124			0.201	20
cis-1,2-Dichloroethene	0.00500	0.00475	0.00515	95.0	103	73.0-120			8.08	20
trans-1,2-Dichloroethene	0.00500	0.00481	0.00514	96.2	103	73.0-120			6.63	20
1,2-Dichloropropane	0.00500	0.00474	0.00490	94.8	98.0	77.0-125			3.32	20
cis-1,3-Dichloropropene	0.00500	0.00492	0.00500	98.4	100	80.0-123			1.61	20

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QUALITY CONTROL SUMMARY

L1404404-85,86,87,88,89,91,93,96,97,98,99

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3709259-1 09/19/21 13:30 • (LCSD) R3709259-2 09/19/21 13:51

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
trans-1,3-Dichloropropene	0.00500	0.00515	0.00517	103	103	78.0-124			0.388	20
Ethylbenzene	0.00500	0.00507	0.00497	101	99.4	79.0-123			1.99	20
2-Hexanone	0.0250	0.0257	0.0254	103	102	67.0-149			1.17	20
Isopropylbenzene	0.00500	0.00504	0.00512	101	102	76.0-127			1.57	20
p-Isopropyltoluene	0.00500	0.00466	0.00473	93.2	94.6	76.0-125			1.49	20
2-Butanone (MEK)	0.0250	0.0252	0.0246	101	98.4	44.0-160			2.41	20
Methylene Chloride	0.00500	0.00488	0.00505	97.6	101	67.0-120			3.42	20
4-Methyl-2-pentanone (MIBK)	0.0250	0.0259	0.0255	104	102	68.0-142			1.56	20
Methyl tert-butyl ether	0.00500	0.00497	0.00497	99.4	99.4	68.0-125			0.000	20
Naphthalene	0.00500	0.00445	0.00496	89.0	99.2	54.0-135			10.8	20
n-Propylbenzene	0.00500	0.00459	0.00465	91.8	93.0	77.0-124			1.30	20
Styrene	0.00500	0.00503	0.00515	101	103	73.0-130			2.36	20
1,1,1,2-Tetrachloroethane	0.00500	0.00495	0.00491	99.0	98.2	75.0-125			0.811	20
1,1,2,2-Tetrachloroethane	0.00500	0.00470	0.00495	94.0	99.0	65.0-130			5.18	20
Tetrachloroethene	0.00500	0.00525	0.00502	105	100	72.0-132			4.48	20
Toluene	0.00500	0.00469	0.00488	93.8	97.6	79.0-120			3.97	20
1,1,1-Trichloroethane	0.00500	0.00497	0.00515	99.4	103	73.0-124			3.56	20
1,1,2-Trichloroethane	0.00500	0.00481	0.00482	96.2	96.4	80.0-120			0.208	20
Trichloroethene	0.00500	0.00464	0.00484	92.8	96.8	78.0-124			4.22	20
1,2,4-Trimethylbenzene	0.00500	0.00469	0.00483	93.8	96.6	76.0-121			2.94	20
1,3,5-Trimethylbenzene	0.00500	0.00449	0.00464	89.8	92.8	76.0-122			3.29	20
Vinyl chloride	0.00500	0.00480	0.00500	96.0	100	67.0-131			4.08	20
Xylenes, Total	0.0150	0.0146	0.0149	97.3	99.3	79.0-123			2.03	20
o-Xylene	0.00500	0.00487	0.00484	97.4	96.8	80.0-122			0.618	20
m&p-Xylenes	0.0100	0.00969	0.0101	96.9	101	80.0-122			4.14	20
tert-Butyl alcohol	0.0250	0.0280	0.0278	112	111	27.0-160			0.717	30
(S) Toluene-d8				*99.1*	*97.3*	*80.0-120*				
(S) 4-Bromofluorobenzene				*94.7*	*97.9*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*96.9*	*99.5*	*70.0-130*				

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Method Blank (MB)

(MB) R3706756-3 09/20/21 18:03

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0113	0.0500
Benzene	U		0.0000941	0.00100
Bromodichloromethane	U		0.000136	0.00100
Bromoform	U		0.000129	0.00100
Bromomethane	U		0.000605	0.00500
n-Butylbenzene	U		0.000157	0.00100
sec-Butylbenzene	U		0.000125	0.00100
Carbon disulfide	U		0.0000962	0.00100
Carbon tetrachloride	U		0.000128	0.00100
Chlorobenzene	U		0.000116	0.00100
Chlorodibromomethane	U		0.000140	0.00100
Chloroethane	U		0.000192	0.00500
Chloroform	U		0.000111	0.00500
Chloromethane	U		0.000960	0.00250
1,2-Dibromoethane	U		0.000126	0.00100
1,1-Dichloroethane	U		0.000100	0.00100
1,2-Dichloroethane	U		0.0000819	0.00100
1,1-Dichloroethene	U		0.000188	0.00100
cis-1,2-Dichloroethene	U		0.000126	0.00100
trans-1,2-Dichloroethene	U		0.000149	0.00100
1,2-Dichloropropane	U		0.000149	0.00100
cis-1,3-Dichloropropene	U		0.000111	0.00100
trans-1,3-Dichloropropene	U		0.000118	0.00100
Ethylbenzene	U		0.000137	0.00100
2-Hexanone	U		0.000787	0.0100
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
Methylene Chloride	U		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100
Methyl tert-butyl ether	U		0.000101	0.00100
n-Propylbenzene	U		0.0000993	0.00100
Styrene	U		0.000118	0.00100
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100
Tetrachloroethene	U		0.000300	0.00100
Toluene	U		0.000278	0.00100
1,1,1-Trichloroethane	U		0.000149	0.00100
1,1,2-Trichloroethane	U		0.000158	0.00100
Trichloroethene	U		0.000190	0.00100

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Method Blank (MB)

(MB) R3706756-3 09/20/21 18:03

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
Vinyl chloride	U		0.000234	0.00100
Xylenes, Total	U		0.000174	0.00300
o-Xylene	U		0.000174	0.00100
m&p-Xylenes	U		0.000430	0.00200
tert-Butyl alcohol	U		0.00406	0.00500
(S) Toluene-d8	*105*			*80.0-120*
(S) 4-Bromofluorobenzene	*90.3*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3706756-1 09/20/21 16:42 • (LCSD) R3706756-2 09/20/21 17:03

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.0250	0.0226	0.0190	90.4	76.0	19.0-160			17.3	27
Benzene	0.00500	0.00489	0.00505	97.8	101	70.0-123			3.22	20
Bromodichloromethane	0.00500	0.00488	0.00501	97.6	100	75.0-120			2.63	20
Bromoform	0.00500	0.00425	0.00385	85.0	77.0	68.0-132			9.88	20
Bromomethane	0.00500	0.00476	0.00524	95.2	105	10.0-160			9.60	25
n-Butylbenzene	0.00500	0.00488	0.00511	97.6	102	73.0-125			4.60	20
sec-Butylbenzene	0.00500	0.00534	0.00559	107	112	75.0-125			4.57	20
Carbon disulfide	0.00500	0.00443	0.00441	88.6	88.2	61.0-128			0.452	20
Carbon tetrachloride	0.00500	0.00497	0.00508	99.4	102	68.0-126			2.19	20
Chlorobenzene	0.00500	0.00543	0.00571	109	114	80.0-121			5.03	20
Chlorodibromomethane	0.00500	0.00493	0.00496	98.6	99.2	77.0-125			0.607	20
Chloroethane	0.00500	0.00523	0.00517	105	103	47.0-150			1.15	20
Chloroform	0.00500	0.00484	0.00485	96.8	97.0	73.0-120			0.206	20
Chloromethane	0.00500	0.00591	0.00623	118	125	41.0-142			5.27	20
1,2-Dibromoethane	0.00500	0.00489	0.00460	97.8	92.0	80.0-122			6.11	20
1,1-Dichloroethane	0.00500	0.00525	0.00545	105	109	70.0-126			3.74	20
1,2-Dichloroethane	0.00500	0.00557	0.00522	111	104	70.0-128			6.49	20
1,1-Dichloroethene	0.00500	0.00451	0.00432	90.2	86.4	71.0-124			4.30	20
cis-1,2-Dichloroethene	0.00500	0.00451	0.00435	90.2	87.0	73.0-120			3.61	20
trans-1,2-Dichloroethene	0.00500	0.00443	0.00443	88.6	88.6	73.0-120			0.000	20
1,2-Dichloropropane	0.00500	0.00600	0.00626	120	125	77.0-125			4.24	20
cis-1,3-Dichloropropene	0.00500	0.00512	0.00519	102	104	80.0-123			1.36	20
trans-1,3-Dichloropropene	0.00500	0.00482	0.00482	96.4	96.4	78.0-124			0.000	20

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Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3706756-1 09/20/21 16:42 • (LCSD) R3706756-2 09/20/21 17:03

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethylbenzene	0.00500	0.00530	0.00549	106	110	79.0-123			3.52	20
2-Hexanone	0.0250	0.0209	0.0175	83.6	70.0	67.0-149			17.7	20
Isopropylbenzene	0.00500	0.00492	0.00501	98.4	100	76.0-127			1.81	20
p-Isopropyltoluene	0.00500	0.00531	0.00549	106	110	76.0-125			3.33	20
2-Butanone (MEK)	0.0250	0.0219	0.0179	87.6	71.6	44.0-160		J3	20.1	20
Methylene Chloride	0.00500	0.00480	0.00481	96.0	96.2	67.0-120			0.208	20
4-Methyl-2-pentanone (MIBK)	0.0250	0.0228	0.0193	91.2	77.2	68.0-142			16.6	20
Methyl tert-butyl ether	0.00500	0.00471	0.00442	94.2	88.4	68.0-125			6.35	20
n-Propylbenzene	0.00500	0.00533	0.00547	107	109	77.0-124			2.59	20
Styrene	0.00500	0.00490	0.00488	98.0	97.6	73.0-130			0.409	20
1,1,1,2-Tetrachloroethane	0.00500	0.00547	0.00559	109	112	75.0-125			2.17	20
1,1,2,2-Tetrachloroethane	0.00500	0.00490	0.00424	98.0	84.8	65.0-130			14.4	20
Tetrachloroethene	0.00500	0.00567	0.00592	113	118	72.0-132			4.31	20
Toluene	0.00500	0.00492	0.00513	98.4	103	79.0-120			4.18	20
1,1,1-Trichloroethane	0.00500	0.00490	0.00494	98.0	98.8	73.0-124			0.813	20
1,1,2-Trichloroethane	0.00500	0.00478	0.00463	95.6	92.6	80.0-120			3.19	20
Trichloroethene	0.00500	0.00544	0.00565	109	113	78.0-124			3.79	20
1,2,4-Trimethylbenzene	0.00500	0.00551	0.00573	110	115	76.0-121			3.91	20
1,3,5-Trimethylbenzene	0.00500	0.00561	0.00600	112	120	76.0-122			6.72	20
Vinyl chloride	0.00500	0.00520	0.00569	104	114	67.0-131			9.00	20
Xylenes, Total	0.0150	0.0151	0.0154	101	103	79.0-123			1.97	20
o-Xylene	0.00500	0.00499	0.00513	99.8	103	80.0-122			2.77	20
m&p-Xylenes	0.0100	0.0101	0.0103	101	103	80.0-122			1.96	20
tert-Butyl alcohol	0.0250	0.0261	0.0191	104	76.4	27.0-160		J3	31.0	30
(S) Toluene-d8				*102*	*103*	*80.0-120*				
(S) 4-Bromofluorobenzene				*95.0*	*93.3*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*103*	*99.1*	*70.0-130*				

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QUALITY CONTROL SUMMARY

L1404404-63

Method Blank (MB)

(MB) R3709280-2 09/20/21 20:53

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0113	0.0500
Benzene	U		0.0000941	0.00100
Bromodichloromethane	U		0.000136	0.00100
Bromoform	U		0.000129	0.00100
Bromomethane	U		0.000605	0.00500
n-Butylbenzene	U		0.000157	0.00100
sec-Butylbenzene	U		0.000125	0.00100
Carbon disulfide	U		0.0000962	0.00100
Carbon tetrachloride	U		0.000128	0.00100
Chlorobenzene	U		0.000116	0.00100
Chlorodibromomethane	U		0.000140	0.00100
Chloroethane	U		0.000192	0.00500
Chloroform	U		0.000111	0.00500
Chloromethane	U		0.000960	0.00250
1,2-Dibromoethane	U		0.000126	0.00100
1,1-Dichloroethane	U		0.000100	0.00100
1,2-Dichloroethane	U		0.0000819	0.00100
1,1-Dichloroethene	U		0.000188	0.00100
cis-1,2-Dichloroethene	U		0.000126	0.00100
trans-1,2-Dichloroethene	U		0.000149	0.00100
1,2-Dichloropropane	U		0.000149	0.00100
cis-1,3-Dichloropropene	U		0.000111	0.00100
trans-1,3-Dichloropropene	U		0.000118	0.00100
Ethylbenzene	U		0.000137	0.00100
2-Hexanone	U		0.000787	0.0100
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
Methylene Chloride	U		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100
Methyl tert-butyl ether	U		0.000101	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.0000993	0.00100
Styrene	U		0.000118	0.00100
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100
Tetrachloroethene	U		0.000300	0.00100
Toluene	U		0.000278	0.00100
1,1,1-Trichloroethane	U		0.000149	0.00100
1,1,2-Trichloroethane	U		0.000158	0.00100

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Method Blank (MB)

(MB) R3709280-2 09/20/21 20:53

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Trichloroethene	U		0.000190	0.00100
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
Vinyl chloride	U		0.000234	0.00100
Xylenes, Total	U		0.000174	0.00300
o-Xylene	U		0.000174	0.00100
m&p-Xylenes	U		0.000430	0.00200
tert-Butyl alcohol	U		0.00406	0.00500
(S) Toluene-d8	*96.2*			*80.0-120*
(S) 4-Bromofluorobenzene	*90.8*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*116*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3709280-1 09/20/21 20:12

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.0250	0.0299	120	19.0-160	
Benzene	0.00500	0.00559	112	70.0-123	
Bromodichloromethane	0.00500	0.00571	114	75.0-120	
Bromoform	0.00500	0.00529	106	68.0-132	
Bromomethane	0.00500	0.00383	76.6	10.0-160	
n-Butylbenzene	0.00500	0.00417	83.4	73.0-125	
sec-Butylbenzene	0.00500	0.00474	94.8	75.0-125	
Carbon disulfide	0.00500	0.00558	112	61.0-128	
Carbon tetrachloride	0.00500	0.00597	119	68.0-126	
Chlorobenzene	0.00500	0.00499	99.8	80.0-121	
Chlorodibromomethane	0.00500	0.00482	96.4	77.0-125	
Chloroethane	0.00500	0.00599	120	47.0-150	
Chloroform	0.00500	0.00586	117	73.0-120	
Chloromethane	0.00500	0.00460	92.0	41.0-142	
1,2-Dibromoethane	0.00500	0.00475	95.0	80.0-122	
1,1-Dichloroethane	0.00500	0.00613	123	70.0-126	
1,2-Dichloroethane	0.00500	0.00612	122	70.0-128	
1,1-Dichloroethene	0.00500	0.00515	103	71.0-124	
cis-1,2-Dichloroethene	0.00500	0.00521	104	73.0-120	
trans-1,2-Dichloroethene	0.00500	0.00537	107	73.0-120	
1,2-Dichloropropane	0.00500	0.00598	120	77.0-125	
cis-1,3-Dichloropropene	0.00500	0.00539	108	80.0-123	

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Laboratory Control Sample (LCS)

(LCS) R3709280-1 09/20/21 20:12

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
trans-1,3-Dichloropropene	0.00500	0.00507	101	78.0-124	
Ethylbenzene	0.00500	0.00500	100	79.0-123	
2-Hexanone	0.0250	0.0240	96.0	67.0-149	
Isopropylbenzene	0.00500	0.00486	97.2	76.0-127	
p-Isopropyltoluene	0.00500	0.00456	91.2	76.0-125	
2-Butanone (MEK)	0.0250	0.0292	117	44.0-160	
Methylene Chloride	0.00500	0.00554	111	67.0-120	
4-Methyl-2-pentanone (MIBK)	0.0250	0.0284	114	68.0-142	
Methyl tert-butyl ether	0.00500	0.00576	115	68.0-125	
Naphthalene	0.00500	0.00294	58.8	54.0-135	
n-Propylbenzene	0.00500	0.00469	93.8	77.0-124	
Styrene	0.00500	0.00468	93.6	73.0-130	
1,1,1,2-Tetrachloroethane	0.00500	0.00507	101	75.0-125	
1,1,2,2-Tetrachloroethane	0.00500	0.00482	96.4	65.0-130	
Tetrachloroethene	0.00500	0.00560	112	72.0-132	
Toluene	0.00500	0.00503	101	79.0-120	
1,1,1-Trichloroethane	0.00500	0.00555	111	73.0-124	
1,1,2-Trichloroethane	0.00500	0.00518	104	80.0-120	
Trichloroethene	0.00500	0.00605	121	78.0-124	
1,2,4-Trimethylbenzene	0.00500	0.00458	91.6	76.0-121	
1,3,5-Trimethylbenzene	0.00500	0.00487	97.4	76.0-122	
Vinyl chloride	0.00500	0.00599	120	67.0-131	
Xylenes, Total	0.0150	0.0150	100	79.0-123	
o-Xylene	0.00500	0.00468	93.6	80.0-122	
m&p-Xylenes	0.0100	0.0103	103	80.0-122	
tert-Butyl alcohol	0.0250	0.0277	111	27.0-160	
(S) Toluene-d8			*97.4*	*80.0-120*	
(S) 4-Bromofluorobenzene			*96.6*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*116*	*70.0-130*	

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QUALITY CONTROL SUMMARY

L1404404-76,77,84

Method Blank (MB)

(MB) R3708388-3 09/23/21 16:52

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.0000941	0.00100
(S) Toluene-d8	*105*			*80.0-120*
(S) 4-Bromofluorobenzene	*85.8*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*95.8*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3708388-1 09/23/21 15:50 • (LCSD) R3708388-2 09/23/21 16:11

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.00500	0.00534	0.00475	107	95.0	70.0-123			11.7	20
(S) Toluene-d8				*102*	*102*	*80.0-120*				
(S) 4-Bromofluorobenzene				*87.6*	*87.3*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*89.0*	*91.4*	*70.0-130*				

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Method Blank (MB)

(MB) R3708352-4 09/23/21 13:32

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Naphthalene	U		0.00100	0.00500
(S) Toluene-d8	*100*			*80.0-120*
(S) 4-Bromofluorobenzene	*89.0*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*121*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3708352-1 09/23/21 12:11 • (LCSD) R3708352-2 09/23/21 12:31

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Naphthalene	0.00500	0.00410	0.00414	82.0	82.8	54.0-135			0.971	20
(S) Toluene-d8				*94.5*	*96.9*	*80.0-120*				
(S) 4-Bromofluorobenzene				*91.3*	*91.7*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*122*	*124*	*70.0-130*				

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QUALITY CONTROL SUMMARY

L1404404-75

Method Blank (MB)

(MB) R3708523-3 09/23/21 11:31

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0113	0.0500
Benzene	U		0.0000941	0.00100
Bromodichloromethane	U		0.000136	0.00100
Bromoform	U		0.000129	0.00100
Bromomethane	U		0.000605	0.00500
n-Butylbenzene	U		0.000157	0.00100
sec-Butylbenzene	U		0.000125	0.00100
Carbon disulfide	U		0.0000962	0.00100
Carbon tetrachloride	U		0.000128	0.00100
Chlorobenzene	U		0.000116	0.00100
Chlorodibromomethane	U		0.000140	0.00100
Chloroethane	U		0.000192	0.00500
Chloroform	U		0.000111	0.00500
Chloromethane	U		0.000960	0.00250
1,2-Dibromoethane	U		0.000126	0.00100
1,1-Dichloroethane	U		0.000100	0.00100
1,2-Dichloroethane	U		0.0000819	0.00100
1,1-Dichloroethene	U		0.000188	0.00100
cis-1,2-Dichloroethene	U		0.000126	0.00100
trans-1,2-Dichloroethene	U		0.000149	0.00100
1,2-Dichloropropane	U		0.000149	0.00100
cis-1,3-Dichloropropene	U		0.000111	0.00100
trans-1,3-Dichloropropene	U		0.000118	0.00100
Ethylbenzene	U		0.000137	0.00100
2-Hexanone	U		0.000787	0.0100
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
Methylene Chloride	U		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100
Methyl tert-butyl ether	U		0.000101	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.0000993	0.00100
Styrene	U		0.000118	0.00100
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100
Tetrachloroethene	U		0.000300	0.00100
Toluene	U		0.000278	0.00100
1,1,1-Trichloroethane	U		0.000149	0.00100
1,1,2-Trichloroethane	U		0.000158	0.00100

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Method Blank (MB)

(MB) R3708523-3 09/23/21 11:31

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Trichloroethene	U		0.000190	0.00100
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
Vinyl chloride	U		0.000234	0.00100
Xylenes, Total	U		0.000174	0.00300
o-Xylene	U		0.000174	0.00100
m&p-Xylenes	U		0.000430	0.00200
tert-Butyl alcohol	U		0.00406	0.00500
(S) Toluene-d8	*110*			*80.0-120*
(S) 4-Bromofluorobenzene	*104*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3708523-1 09/23/21 09:50 • (LCSD) R3708523-2 09/23/21 10:10

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.0250	0.0255	0.0282	102	113	19.0-160			10.1	27
Benzene	0.00500	0.00431	0.00471	86.2	94.2	70.0-123			8.87	20
Bromodichloromethane	0.00500	0.00509	0.00563	102	113	75.0-120			10.1	20
Bromoform	0.00500	0.00473	0.00480	94.6	96.0	68.0-132			1.47	20
Bromomethane	0.00500	0.00534	0.00582	107	116	10.0-160			8.60	25
n-Butylbenzene	0.00500	0.00505	0.00616	101	123	73.0-125			19.8	20
sec-Butylbenzene	0.00500	0.00541	0.00627	108	125	75.0-125			14.7	20
Carbon disulfide	0.00500	0.00465	0.00512	93.0	102	61.0-128			9.62	20
Carbon tetrachloride	0.00500	0.00552	0.00624	110	125	68.0-126			12.2	20
Chlorobenzene	0.00500	0.00482	0.00531	96.4	106	80.0-121			9.67	20
Chlorodibromomethane	0.00500	0.00551	0.00583	110	117	77.0-125			5.64	20
Chloroethane	0.00500	0.00502	0.00543	100	109	47.0-150			7.85	20
Chloroform	0.00500	0.00548	0.00582	110	116	73.0-120			6.02	20
Chloromethane	0.00500	0.00464	0.00535	92.8	107	41.0-142			14.2	20
1,2-Dibromoethane	0.00500	0.00511	0.00536	102	107	80.0-122			4.78	20
1,1-Dichloroethane	0.00500	0.00516	0.00553	103	111	70.0-126			6.92	20
1,2-Dichloroethane	0.00500	0.00579	0.00604	116	121	70.0-128			4.23	20
1,1-Dichloroethene	0.00500	0.00441	0.00503	88.2	101	71.0-124			13.1	20
cis-1,2-Dichloroethene	0.00500	0.00486	0.00512	97.2	102	73.0-120			5.21	20
trans-1,2-Dichloroethene	0.00500	0.00454	0.00542	90.8	108	73.0-120			17.7	20
1,2-Dichloropropane	0.00500	0.00465	0.00492	93.0	98.4	77.0-125			5.64	20
cis-1,3-Dichloropropene	0.00500	0.00485	0.00503	97.0	101	80.0-123			3.64	20

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Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3708523-1 09/23/21 09:50 • (LCSD) R3708523-2 09/23/21 10:10

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
trans-1,3-Dichloropropene	0.00500	0.00494	0.00535	98.8	107	78.0-124			7.97	20
Ethylbenzene	0.00500	0.00470	0.00539	94.0	108	79.0-123			13.7	20
2-Hexanone	0.0250	0.0257	0.0265	103	106	67.0-149			3.07	20
Isopropylbenzene	0.00500	0.00519	0.00602	104	120	76.0-127			14.8	20
p-Isopropyltoluene	0.00500	0.00565	0.00645	113	129	76.0-125		J4	13.2	20
2-Butanone (MEK)	0.0250	0.0261	0.0275	104	110	44.0-160			5.22	20
Methylene Chloride	0.00500	0.00469	0.00497	93.8	99.4	67.0-120			5.80	20
4-Methyl-2-pentanone (MIBK)	0.0250	0.0258	0.0267	103	107	68.0-142			3.43	20
Methyl tert-butyl ether	0.00500	0.00518	0.00540	104	108	68.0-125			4.16	20
Naphthalene	0.00500	0.00484	0.00599	96.8	120	54.0-135		J3	21.2	20
n-Propylbenzene	0.00500	0.00525	0.00605	105	121	77.0-124			14.2	20
Styrene	0.00500	0.00500	0.00527	100	105	73.0-130			5.26	20
1,1,1,2-Tetrachloroethane	0.00500	0.00524	0.00558	105	112	75.0-125			6.28	20
1,1,2,2-Tetrachloroethane	0.00500	0.00479	0.00515	95.8	103	65.0-130			7.24	20
Tetrachloroethene	0.00500	0.00513	0.00575	103	115	72.0-132			11.4	20
Toluene	0.00500	0.00460	0.00506	92.0	101	79.0-120			9.52	20
1,1,1-Trichloroethane	0.00500	0.00550	0.00603	110	121	73.0-124			9.19	20
1,1,2-Trichloroethane	0.00500	0.00475	0.00505	95.0	101	80.0-120			6.12	20
Trichloroethene	0.00500	0.00506	0.00544	101	109	78.0-124			7.24	20
1,2,4-Trimethylbenzene	0.00500	0.00531	0.00624	106	125	76.0-121		J4	16.1	20
1,3,5-Trimethylbenzene	0.00500	0.00542	0.00619	108	124	76.0-122		J4	13.3	20
Vinyl chloride	0.00500	0.00535	0.00635	107	127	67.0-131			17.1	20
Xylenes, Total	0.0150	0.0153	0.0165	102	110	79.0-123			7.55	20
o-Xylene	0.00500	0.00514	0.00565	103	113	80.0-122			9.45	20
m&p-Xylenes	0.0100	0.0102	0.0109	102	109	80.0-122			6.64	20
tert-Butyl alcohol	0.0250	0.0273	0.0301	109	120	27.0-160			9.76	30
(S) Toluene-d8				*105*	*106*	*80.0-120*				
(S) 4-Bromofluorobenzene				*104*	*105*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*125*	*123*	*70.0-130*				

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QUALITY CONTROL SUMMARY

L1404404-116

Method Blank (MB)

(MB) R3709662-2 09/27/21 23:25

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0113	0.0500
Benzene	U		0.0000941	0.00100
Bromodichloromethane	U		0.000136	0.00100
Bromoform	U		0.000129	0.00100
Bromomethane	U		0.000605	0.00500
n-Butylbenzene	U		0.000157	0.00100
sec-Butylbenzene	U		0.000125	0.00100
Carbon disulfide	U		0.0000962	0.00100
Carbon tetrachloride	U		0.000128	0.00100
Chlorobenzene	U		0.000116	0.00100
Chlorodibromomethane	U		0.000140	0.00100
Chloroethane	U		0.000192	0.00500
Chloroform	U		0.000111	0.00500
Chloromethane	U		0.000960	0.00250
1,2-Dibromoethane	U		0.000126	0.00100
1,1-Dichloroethane	U		0.000100	0.00100
1,2-Dichloroethane	U		0.0000819	0.00100
1,1-Dichloroethene	U		0.000188	0.00100
cis-1,2-Dichloroethene	U		0.000126	0.00100
trans-1,2-Dichloroethene	U		0.000149	0.00100
1,2-Dichloropropane	U		0.000149	0.00100
cis-1,3-Dichloropropene	U		0.000111	0.00100
trans-1,3-Dichloropropene	U		0.000118	0.00100
Ethylbenzene	U		0.000137	0.00100
2-Hexanone	U		0.000787	0.0100
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
Methylene Chloride	U		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100
Methyl tert-butyl ether	U		0.000101	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.0000993	0.00100
Styrene	U		0.000118	0.00100
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100
Tetrachloroethene	U		0.000300	0.00100
Toluene	U		0.000278	0.00100
1,1,1-Trichloroethane	U		0.000149	0.00100
1,1,2-Trichloroethane	U		0.000158	0.00100

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QUALITY CONTROL SUMMARY

L1404404-116

Method Blank (MB)

(MB) R3709662-2 09/27/21 23:25

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Trichloroethene	U		0.000190	0.00100
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
Vinyl chloride	U		0.000234	0.00100
Xylenes, Total	U		0.000174	0.00300
o-Xylene	U		0.000174	0.00100
m&p-Xylenes	U		0.000430	0.00200
tert-Butyl alcohol	U		0.00406	0.00500
(S) Toluene-d8	*104*			*80.0-120*
(S) 4-Bromofluorobenzene	*96.8*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*92.0*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3709662-1 09/27/21 22:44

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.0250	0.0259	104	19.0-160	
Benzene	0.00500	0.00505	101	70.0-123	
Bromodichloromethane	0.00500	0.00445	89.0	75.0-120	
Bromoform	0.00500	0.00502	100	68.0-132	
Bromomethane	0.00500	0.00614	123	10.0-160	
n-Butylbenzene	0.00500	0.00445	89.0	73.0-125	
sec-Butylbenzene	0.00500	0.00467	93.4	75.0-125	
Carbon disulfide	0.00500	0.00407	81.4	61.0-128	
Carbon tetrachloride	0.00500	0.00484	96.8	68.0-126	
Chlorobenzene	0.00500	0.00537	107	80.0-121	
Chlorodibromomethane	0.00500	0.00498	99.6	77.0-125	
Chloroethane	0.00500	0.00496	99.2	47.0-150	
Chloroform	0.00500	0.00497	99.4	73.0-120	
Chloromethane	0.00500	0.00420	84.0	41.0-142	
1,2-Dibromoethane	0.00500	0.00543	109	80.0-122	
1,1-Dichloroethane	0.00500	0.00423	84.6	70.0-126	
1,2-Dichloroethane	0.00500	0.00483	96.6	70.0-128	
1,1-Dichloroethene	0.00500	0.00437	87.4	71.0-124	
cis-1,2-Dichloroethene	0.00500	0.00463	92.6	73.0-120	
trans-1,2-Dichloroethene	0.00500	0.00465	93.0	73.0-120	
1,2-Dichloropropane	0.00500	0.00501	100	77.0-125	
cis-1,3-Dichloropropene	0.00500	0.00497	99.4	80.0-123	

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Laboratory Control Sample (LCS)

(LCS) R3709662-1 09/27/21 22:44

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
trans-1,3-Dichloropropene	0.00500	0.00490	98.0	78.0-124	
Ethylbenzene	0.00500	0.00555	111	79.0-123	
2-Hexanone	0.0250	0.0213	85.2	67.0-149	
Isopropylbenzene	0.00500	0.00493	98.6	76.0-127	
p-Isopropyltoluene	0.00500	0.00456	91.2	76.0-125	
2-Butanone (MEK)	0.0250	0.0280	112	44.0-160	
Methylene Chloride	0.00500	0.00472	94.4	67.0-120	
4-Methyl-2-pentanone (MIBK)	0.0250	0.0256	102	68.0-142	
Methyl tert-butyl ether	0.00500	0.00443	88.6	68.0-125	
Naphthalene	0.00500	0.00387	77.4	54.0-135	
n-Propylbenzene	0.00500	0.00425	85.0	77.0-124	
Styrene	0.00500	0.00478	95.6	73.0-130	
1,1,1,2-Tetrachloroethane	0.00500	0.00537	107	75.0-125	
1,1,2,2-Tetrachloroethane	0.00500	0.00424	84.8	65.0-130	
Tetrachloroethene	0.00500	0.00662	132	72.0-132	
Toluene	0.00500	0.00514	103	79.0-120	
1,1,1-Trichloroethane	0.00500	0.00492	98.4	73.0-124	
1,1,2-Trichloroethane	0.00500	0.00526	105	80.0-120	
Trichloroethene	0.00500	0.00566	113	78.0-124	
1,2,4-Trimethylbenzene	0.00500	0.00428	85.6	76.0-121	
1,3,5-Trimethylbenzene	0.00500	0.00442	88.4	76.0-122	
Vinyl chloride	0.00500	0.00406	81.2	67.0-131	
Xylenes, Total	0.0150	0.0158	105	79.0-123	
o-Xylene	0.00500	0.00501	100	80.0-122	
m&p-Xylenes	0.0100	0.0108	108	80.0-122	
tert-Butyl alcohol	0.0250	0.0251	100	27.0-160	
(S) Toluene-d8			*102*	*80.0-120*	
(S) 4-Bromofluorobenzene			*95.2*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*92.4*	*70.0-130*	

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Method Blank (MB)

(MB) R3709663-2 09/27/21 23:25

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Ethylbenzene	U		0.000137	0.00100
Methyl tert-butyl ether	U		0.000101	0.00100
n-Propylbenzene	U		0.0000993	0.00100
1,2,4-Trimethylbenzene	U		0.000322	0.00100
(S) Toluene-d8	*104*			*80.0-120*
(S) 4-Bromofluorobenzene	*96.8*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*92.0*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3709663-1 09/27/21 22:44

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ethylbenzene	0.00500	0.00555	111	79.0-123	
Methyl tert-butyl ether	0.00500	0.00443	88.6	68.0-125	
n-Propylbenzene	0.00500	0.00425	85.0	77.0-124	
1,2,4-Trimethylbenzene	0.00500	0.00428	85.6	76.0-121	
(S) Toluene-d8			*102*	*80.0-120*	
(S) 4-Bromofluorobenzene			*95.2*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*92.4*	*70.0-130*	

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QUALITY CONTROL SUMMARY

L1404404-89,90,94,95

Method Blank (MB)

(MB) R3709664-2 09/27/21 23:25

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0113	0.0500
Benzene	U		0.0000941	0.00100
Bromodichloromethane	U		0.000136	0.00100
Bromoform	U		0.000129	0.00100
Bromomethane	U		0.000605	0.00500
n-Butylbenzene	U		0.000157	0.00100
sec-Butylbenzene	U		0.000125	0.00100
Carbon disulfide	U		0.0000962	0.00100
Carbon tetrachloride	U		0.000128	0.00100
Chlorobenzene	U		0.000116	0.00100
Chlorodibromomethane	U		0.000140	0.00100
Chloroethane	U		0.000192	0.00500
Chloroform	U		0.000111	0.00500
Chloromethane	U		0.000960	0.00250
1,2-Dibromoethane	U		0.000126	0.00100
1,1-Dichloroethane	U		0.000100	0.00100
1,2-Dichloroethane	U		0.0000819	0.00100
1,1-Dichloroethene	U		0.000188	0.00100
cis-1,2-Dichloroethene	U		0.000126	0.00100
trans-1,2-Dichloroethene	U		0.000149	0.00100
1,2-Dichloropropane	U		0.000149	0.00100
cis-1,3-Dichloropropene	U		0.000111	0.00100
trans-1,3-Dichloropropene	U		0.000118	0.00100
Ethylbenzene	U		0.000137	0.00100
2-Hexanone	U		0.000787	0.0100
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
Methylene Chloride	U		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100
Methyl tert-butyl ether	U		0.000101	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.0000993	0.00100
Styrene	U		0.000118	0.00100
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100
Tetrachloroethene	U		0.000300	0.00100
Toluene	U		0.000278	0.00100
1,1,1-Trichloroethane	U		0.000149	0.00100
1,1,2-Trichloroethane	U		0.000158	0.00100

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Method Blank (MB)

(MB) R3709664-2 09/27/21 23:25

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Trichloroethene	U		0.000190	0.00100
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
Vinyl chloride	U		0.000234	0.00100
Xylenes, Total	U		0.000174	0.00300
o-Xylene	U		0.000174	0.00100
m&p-Xylenes	U		0.000430	0.00200
tert-Butyl alcohol	U		0.00406	0.00500
(S) Toluene-d8	*104*			*80.0-120*
(S) 4-Bromofluorobenzene	*96.8*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*92.0*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3709664-1 09/27/21 22:44

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.0250	0.0259	104	19.0-160	
Benzene	0.00500	0.00505	101	70.0-123	
Bromodichloromethane	0.00500	0.00445	89.0	75.0-120	
Bromoform	0.00500	0.00502	100	68.0-132	
Bromomethane	0.00500	0.00614	123	10.0-160	
n-Butylbenzene	0.00500	0.00445	89.0	73.0-125	
sec-Butylbenzene	0.00500	0.00467	93.4	75.0-125	
Carbon disulfide	0.00500	0.00407	81.4	61.0-128	
Carbon tetrachloride	0.00500	0.00484	96.8	68.0-126	
Chlorobenzene	0.00500	0.00537	107	80.0-121	
Chlorodibromomethane	0.00500	0.00498	99.6	77.0-125	
Chloroethane	0.00500	0.00496	99.2	47.0-150	
Chloroform	0.00500	0.00497	99.4	73.0-120	
Chloromethane	0.00500	0.00420	84.0	41.0-142	
1,2-Dibromoethane	0.00500	0.00543	109	80.0-122	
1,1-Dichloroethane	0.00500	0.00423	84.6	70.0-126	
1,2-Dichloroethane	0.00500	0.00483	96.6	70.0-128	
1,1-Dichloroethene	0.00500	0.00437	87.4	71.0-124	
cis-1,2-Dichloroethene	0.00500	0.00463	92.6	73.0-120	
trans-1,2-Dichloroethene	0.00500	0.00465	93.0	73.0-120	
1,2-Dichloropropane	0.00500	0.00501	100	77.0-125	
cis-1,3-Dichloropropene	0.00500	0.00497	99.4	80.0-123	

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Laboratory Control Sample (LCS)

(LCS) R3709664-1 09/27/21 22:44

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
trans-1,3-Dichloropropene	0.00500	0.00490	98.0	78.0-124	
Ethylbenzene	0.00500	0.00555	111	79.0-123	
2-Hexanone	0.0250	0.0213	85.2	67.0-149	
Isopropylbenzene	0.00500	0.00493	98.6	76.0-127	
p-Isopropyltoluene	0.00500	0.00456	91.2	76.0-125	
2-Butanone (MEK)	0.0250	0.0280	112	44.0-160	
Methylene Chloride	0.00500	0.00472	94.4	67.0-120	
4-Methyl-2-pentanone (MIBK)	0.0250	0.0256	102	68.0-142	
Methyl tert-butyl ether	0.00500	0.00443	88.6	68.0-125	
Naphthalene	0.00500	0.00387	77.4	54.0-135	
n-Propylbenzene	0.00500	0.00425	85.0	77.0-124	
Styrene	0.00500	0.00478	95.6	73.0-130	
1,1,1,2-Tetrachloroethane	0.00500	0.00537	107	75.0-125	
1,1,2,2-Tetrachloroethane	0.00500	0.00424	84.8	65.0-130	
Tetrachloroethene	0.00500	0.00662	132	72.0-132	
Toluene	0.00500	0.00514	103	79.0-120	
1,1,1-Trichloroethane	0.00500	0.00492	98.4	73.0-124	
1,1,2-Trichloroethane	0.00500	0.00526	105	80.0-120	
Trichloroethene	0.00500	0.00566	113	78.0-124	
1,2,4-Trimethylbenzene	0.00500	0.00428	85.6	76.0-121	
1,3,5-Trimethylbenzene	0.00500	0.00442	88.4	76.0-122	
Vinyl chloride	0.00500	0.00406	81.2	67.0-131	
Xylenes, Total	0.0150	0.0158	105	79.0-123	
o-Xylene	0.00500	0.00501	100	80.0-122	
m&p-Xylenes	0.0100	0.0108	108	80.0-122	
tert-Butyl alcohol	0.0250	0.0251	100	27.0-160	
(S) Toluene-d8			*102*	*80.0-120*	
(S) 4-Bromofluorobenzene			*95.2*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*92.4*	*70.0-130*	

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Method Blank (MB)

(MB) R3707762-1 09/21/21 00:08

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Ethylene Dibromide	U		0.00000536	0.0000200

L1403762-26 Original Sample (OS) • Duplicate (DUP)

(OS) L1403762-26 09/21/21 00:57 • (DUP) R3707762-3 09/21/21 00:45

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ethylene Dibromide	U	U	1	0.000		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3707762-4 09/21/21 02:59 • (LCSD) R3707762-5 09/21/21 05:38

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethylene Dibromide	0.000250	0.000255	0.000258	102	103	60.0-140			1.17	20

L1403762-30 Original Sample (OS) • Matrix Spike (MS)

(OS) L1403762-30 09/21/21 00:33 • (MS) R3707762-2 09/21/21 00:21

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Ethylene Dibromide	0.000100	U	0.000110	110	1	64.0-159	

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Method Blank (MB)

(MB) R3707860-1 09/21/21 16:34

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Ethylene Dibromide	U		0.00000536	0.0000200

L1404404-110 Original Sample (OS) • Duplicate (DUP)

(OS) L1404404-110 09/21/21 17:23 • (DUP) R3707860-3 09/21/21 17:11

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ethylene Dibromide	U	U	1	0.000		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3707860-4 09/21/21 19:26 • (LCSD) R3707860-5 09/21/21 22:06

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethylene Dibromide	0.000250	0.000252	0.000261	101	104	60.0-140			3.51	20

L1404537-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L1404537-03 09/21/21 16:59 • (MS) R3707860-2 09/21/21 16:47

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Ethylene Dibromide	0.000100	U	0.000106	106	1	64.0-159	

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Method Blank (MB)

(MB) R3706711-1 09/21/21 09:21

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) High Fraction	U		0.0247	0.100
(S) o-Terphenyl	*95.5*			*31.0-160*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3706711-2 09/21/21 09:47 • (LCSD) R3706711-3 09/21/21 10:13

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) High Fraction	1.50	1.29	1.38	86.0	92.0	50.0-150			6.74	20
(S) o-Terphenyl				*101*	*109*	*31.0-160*				

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Method Blank (MB)

(MB) R3707294-1 09/22/21 08:29

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) High Fraction	0.0322	J	0.0247	0.100
(S) o-Terphenyl	*51.5*			*31.0-160*

Laboratory Control Sample (LCS)

(LCS) R3707294-2 09/22/21 08:55

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) High Fraction	1.50	1.46	97.3	50.0-150	
(S) o-Terphenyl			*96.5*	*31.0-160*	

L1406169-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1406169-02 09/22/21 09:47 • (MS) R3707294-3 09/22/21 10:13 • (MSD) R3707294-4 09/22/21 10:39

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) High Fraction	1.43	4.71	3.17	2.73	0.000	0.000	1	50.0-150	J6	J6	14.9	20
(S) o-Terphenyl					*64.7*	*53.2*		*31.0-160*				

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Method Blank (MB)

(MB) R3709964-1 09/28/21 15:03

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) High Fraction	U		0.0247	0.100
(S) o-Terphenyl	*105*			*31.0-160*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3709964-2 09/28/21 15:29 • (LCSD) R3709964-3 09/28/21 15:54

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) High Fraction	1.50	1.75	1.75	117	117	50.0-150			0.000	20
(S) o-Terphenyl				*130*	*130*	*31.0-160*				

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Method Blank (MB)

(MB) R3710437-1 09/29/21 06:55

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
TPH (GC/FID) High Fraction	U		0.0247	0.100
(S) o-Terphenyl	*93.0*			*31.0-160*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3710437-2 09/29/21 07:15 • (LCSD) R3710437-3 09/29/21 07:38

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
TPH (GC/FID) High Fraction	1.50	1.15	1.19	76.7	79.3	50.0-150			3.42	20
(S) o-Terphenyl				*91.5*	*86.5*	*31.0-160*				

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Method Blank (MB)

(MB) R3710563-1 09/29/21 13:30

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) High Fraction	U		0.0247	0.100
(S) o-Terphenyl	*109*			*31.0-160*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3710563-2 09/29/21 13:56 • (LCSD) R3710563-3 09/29/21 14:21

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) High Fraction	1.50	1.81	1.81	121	121	50.0-150			0.000	20
(S) o-Terphenyl				*132*	*134*	*31.0-160*				

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Method Blank (MB)

(MB) R3709629-1 09/28/21 11:01

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) High Fraction	U		0.0247	0.100
(S) o-Terphenyl	*101*			*31.0-160*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3709629-2 09/28/21 11:21 • (LCSD) R3709629-3 09/28/21 11:41

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) High Fraction	1.46	1.33	1.38	91.1	94.5	50.0-150			3.69	20
(S) o-Terphenyl				*111*	*110*	*31.0-160*				

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Method Blank (MB)

(MB) R3705984-2 09/18/21 10:25

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,4-Dioxane	U		0.0000447	0.000400
(S) Nitrobenzene-d5	*55.9*			*10.0-120*

Laboratory Control Sample (LCS)

(LCS) R3705984-1 09/18/21 10:06

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
1,4-Dioxane	0.0500	0.0639	128	73.0-146	
(S) Nitrobenzene-d5			*59.5*	*10.0-120*	

L1404698-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1404698-11 09/18/21 15:53 • (MS) R3705984-3 09/18/21 16:12 • (MSD) R3705984-4 09/18/21 16:32

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
1,4-Dioxane	0.0500	0.000785	0.0675	0.0686	133	136	1	38.0-160			1.62	21
(S) Nitrobenzene-d5					*55.0*	*45.8*		*10.0-120*				

L1404698-14 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1404698-14 09/18/21 16:51 • (MS) R3705984-5 09/18/21 17:10 • (MSD) R3705984-6 09/18/21 17:30

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
1,4-Dioxane	0.0500	U	0.0631	0.0596	126	119	1	38.0-160			5.70	21
(S) Nitrobenzene-d5					*62.1*	*60.1*		*10.0-120*				

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Method Blank (MB)

(MB) R3706370-3 09/19/21 10:04

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,4-Dioxane	U		0.0000447	0.000400
(S) Nitrobenzene-d5	*59.6*			*10.0-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3706370-1 09/19/21 09:25 • (LCSD) R3706370-2 09/19/21 09:45

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,4-Dioxane	0.0500	0.0584	0.0554	117	111	73.0-146			5.27	20
(S) Nitrobenzene-d5				*57.1*	*58.2*	*10.0-120*				

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Method Blank (MB)

(MB) R3706678-3 09/20/21 21:13

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,4-Dioxane	U		0.0000447	0.000400
(S) Nitrobenzene-d5	*58.6*			*10.0-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3706678-1 09/20/21 20:35 • (LCSD) R3706678-2 09/20/21 20:54

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,4-Dioxane	0.0500	0.0655	0.0713	131	143	73.0-146			8.48	20
(S) Nitrobenzene-d5				*63.5*	*55.3*	*10.0-120*				

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Method Blank (MB)

(MB) R3706940-3 09/21/21 00:29

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acenaphthene	U		0.0000886	0.00100
Acenaphthylene	U		0.0000921	0.00100
Acetophenone	U		0.000208	0.0100
Anthracene	U		0.0000804	0.00100
Atrazine	U		0.000255	0.0100
Benzaldehyde	U		0.00169	0.0100
Benzo(a)anthracene	U		0.000199	0.00100
Benzo(b)fluoranthene	U		0.000130	0.00100
Benzo(k)fluoranthene	U		0.000120	0.00100
Benzo(g,h,i)perylene	U		0.000121	0.00100
Benzo(a)pyrene	U		0.0000381	0.000200
Biphenyl	U		0.000790	0.0100
Bis(2-chlorethoxy)methane	U		0.000116	0.0100
Bis(2-chloroethyl)ether	U		0.000137	0.0100
2,2-Oxybis(1-Chloropropane)	U		0.000210	0.0100
4-Bromophenyl-phenylether	U		0.0000877	0.0100
Caprolactam	U		0.000309	0.0100
Carbazole	U		0.000111	0.0100
4-Chloroaniline	U		0.000234	0.0100
2-Chloronaphthalene	U		0.0000648	0.00100
4-Chlorophenyl-phenylether	U		0.0000926	0.0100
Chrysene	U		0.000130	0.00100
Dibenz(a,h)anthracene	U		0.0000644	0.000200
Dibenzofuran	U		0.0000970	0.0100
3,3-Dichlorobenzidine	U		0.000212	0.0100
2,4-Dinitrotoluene	U		0.0000983	0.0100
2,6-Dinitrotoluene	U		0.000250	0.0100
Fluoranthene	U		0.000102	0.00100
Fluorene	U		0.0000844	0.00100
Hexachlorobenzene	U		0.0000755	0.00100
Hexachloro-1,3-butadiene	U		0.0000968	0.0100
Hexachlorocyclopentadiene	U		0.0000598	0.0100
Hexachloroethane	U		0.000127	0.0100
Indeno(1,2,3-cd)pyrene	U		0.000279	0.00100
Isophorone	U		0.000143	0.0100
1-Methylnaphthalene	U		0.0000790	0.00100
2-Methylnaphthalene	U		0.000117	0.00100
Naphthalene	U		0.000159	0.00100
2-Nitroaniline	U		0.000102	0.0100
3-Nitroaniline	U		0.0000869	0.0100

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Method Blank (MB)

(MB) R3706940-3 09/21/21 00:29

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
4-Nitroaniline	U		0.0000910	0.0100
Nitrobenzene	U		0.000297	0.0100
n-Nitrosodiphenylamine	U		0.00237	0.0100
n-Nitrosodi-n-propylamine	U		0.000261	0.0100
Phenanthrene	U		0.000112	0.00100
Benzylbutyl phthalate	U		0.000765	0.00300
Bis(2-ethylhexyl)phthalate	U		0.000895	0.00300
Di-n-butyl phthalate	U		0.000453	0.00300
Diethyl phthalate	U		0.000287	0.00300
Dimethyl phthalate	U		0.000260	0.00300
Di-n-octyl phthalate	U		0.000932	0.00300
Pyrene	U		0.000107	0.00100
1,2,4-Trichlorobenzene	U		0.0000698	0.0100
4-Chloro-3-methylphenol	U		0.000131	0.0100
2-Chlorophenol	U		0.000133	0.0100
2-Methylphenol	U		0.0000929	0.0100
3&4-Methyl Phenol	U		0.000168	0.0100
2,4-Dichlorophenol	U		0.000102	0.0100
2,4-Dimethylphenol	U		0.0000636	0.0100
4,6-Dinitro-2-methylphenol	U		0.00112	0.0100
2,4-Dinitrophenol	U		0.00593	0.0100
2-Nitrophenol	U		0.000117	0.0100
4-Nitrophenol	U		0.000143	0.0100
Pentachlorophenol	U		0.000313	0.0100
Phenol	U		0.00433	0.0100
2,4,5-Trichlorophenol	U		0.000109	0.0100
2,4,6-Trichlorophenol	U		0.000100	0.0100
(S) Nitrobenzene-d5	*61.8*			*10.0-127*
(S) 2-Fluorobiphenyl	*74.8*			*10.0-130*
(S) p-Terphenyl-d14	*71.6*			*10.0-128*
(S) Phenol-d5	*25.1*			*10.0-120*
(S) 2-Fluorophenol	*42.2*			*10.0-120*
(S) 2,4,6-Tribromophenol	*67.5*			*10.0-155*

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Laboratory Control Sample (LCS)

(LCS) R3706940-1 09/20/21 23:45

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acenaphthene	0.0500	0.0378	75.6	41.0-120	
Acenaphthylene	0.0500	0.0409	81.8	43.0-120	
Acetophenone	0.0500	0.0390	78.0	29.0-120	
Anthracene	0.0500	0.0383	76.6	45.0-120	
Atrazine	0.0500	0.0434	86.8	39.0-141	
Benzaldehyde	0.0500	0.0860	172	10.0-160	J4
Benzo(a)anthracene	0.0500	0.0433	86.6	47.0-120	
Benzo(b)fluoranthene	0.0500	0.0392	78.4	46.0-120	
Benzo(k)fluoranthene	0.0500	0.0391	78.2	46.0-120	
Benzo(g,h,i)perylene	0.0500	0.0355	71.0	48.0-121	
Benzo(a)pyrene	0.0500	0.0393	78.6	47.0-120	
Biphenyl	0.0500	0.0382	76.4	38.0-120	
Bis(2-chlorethoxy)methane	0.0500	0.0334	66.8	33.0-120	
Bis(2-chloroethyl)ether	0.0500	0.0376	75.2	23.0-120	
2,2-Oxybis(1-Chloropropane)	0.0500	0.0352	70.4	28.0-120	
4-Bromophenyl-phenylether	0.0500	0.0388	77.6	45.0-120	
Caprolactam	0.0500	0.0123	24.6	10.0-120	
Carbazole	0.0500	0.0401	80.2	51.0-122	
4-Chloroaniline	0.0500	0.0319	63.8	25.0-120	
2-Chloronaphthalene	0.0500	0.0387	77.4	37.0-120	
4-Chlorophenyl-phenylether	0.0500	0.0408	81.6	44.0-120	
Chrysene	0.0500	0.0427	85.4	48.0-120	
Dibenz(a,h)anthracene	0.0500	0.0344	68.8	47.0-120	
Dibenzofuran	0.0500	0.0401	80.2	44.0-120	
3,3-Dichlorobenzidine	0.100	0.0847	84.7	44.0-120	
2,4-Dinitrotoluene	0.0500	0.0444	88.8	49.0-124	
2,6-Dinitrotoluene	0.0500	0.0394	78.8	46.0-120	
Fluoranthene	0.0500	0.0411	82.2	51.0-120	
Fluorene	0.0500	0.0405	81.0	47.0-120	
Hexachlorobenzene	0.0500	0.0374	74.8	44.0-120	
Hexachloro-1,3-butadiene	0.0500	0.0341	68.2	19.0-120	
Hexachlorocyclopentadiene	0.0500	0.0276	55.2	15.0-120	
Hexachloroethane	0.0500	0.0342	68.4	15.0-120	
Indeno(1,2,3-cd)pyrene	0.0500	0.0353	70.6	49.0-122	
Isophorone	0.0500	0.0331	66.2	36.0-120	
1-Methylnaphthalene	0.0500	0.0345	69.0	33.0-120	
2-Methylnaphthalene	0.0500	0.0333	66.6	33.0-120	
Naphthalene	0.0500	0.0329	65.8	27.0-120	
2-Nitroaniline	0.0500	0.0412	82.4	43.0-120	
3-Nitroaniline	0.0500	0.0394	78.8	38.0-120	

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Laboratory Control Sample (LCS)

(LCS) R3706940-1 09/20/21 23:45

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
4-Nitroaniline	0.0500	0.0417	83.4	18.0-160	
Nitrobenzene	0.0500	0.0339	67.8	27.0-120	
n-Nitrosodiphenylamine	0.0500	0.0363	72.6	47.0-120	
n-Nitrosodi-n-propylamine	0.0500	0.0367	73.4	31.0-120	
Phenanthrene	0.0500	0.0384	76.8	46.0-120	
Benzylbutyl phthalate	0.0500	0.0369	73.8	43.0-121	
Bis(2-ethylhexyl)phthalate	0.0500	0.0358	71.6	43.0-122	
Di-n-butyl phthalate	0.0500	0.0391	78.2	49.0-121	
Diethyl phthalate	0.0500	0.0388	77.6	48.0-122	
Dimethyl phthalate	0.0500	0.0391	78.2	48.0-120	
Di-n-octyl phthalate	0.0500	0.0354	70.8	42.0-125	
Pyrene	0.0500	0.0402	80.4	47.0-120	
1,2,4-Trichlorobenzene	0.0500	0.0348	69.6	24.0-120	
4-Chloro-3-methylphenol	0.0500	0.0325	65.0	40.0-120	
2-Chlorophenol	0.0500	0.0345	69.0	25.0-120	
2-Methylphenol	0.0500	0.0306	61.2	28.0-120	
3&4-Methyl Phenol	0.0500	0.0320	64.0	31.0-120	
2,4-Dichlorophenol	0.0500	0.0348	69.6	36.0-120	
2,4-Dimethylphenol	0.0500	0.0318	63.6	33.0-120	
4,6-Dinitro-2-methylphenol	0.0500	0.0542	108	38.0-138	
2,4-Dinitrophenol	0.0500	0.0528	106	10.0-120	
2-Nitrophenol	0.0500	0.0363	72.6	31.0-120	
4-Nitrophenol	0.0500	0.0172	34.4	10.0-120	
Pentachlorophenol	0.0500	0.0484	96.8	23.0-120	
Phenol	0.0500	0.0146	29.2	10.0-120	
2,4,5-Trichlorophenol	0.0500	0.0413	82.6	44.0-120	
2,4,6-Trichlorophenol	0.0500	0.0408	81.6	42.0-120	
(S) Nitrobenzene-d5			*56.5*	*10.0-127*	
(S) 2-Fluorobiphenyl			*78.0*	*10.0-130*	
(S) p-Terphenyl-d14			*73.7*	*10.0-128*	
(S) Phenol-d5			*26.7*	*10.0-120*	
(S) 2-Fluorophenol			*43.4*	*10.0-120*	
(S) 2,4,6-Tribromophenol			*78.0*	*10.0-155*	

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L1404421-20 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1404421-20 09/21/21 00:50 • (MS) R3706940-4 09/21/21 01:12 • (MSD) R3706940-5 09/21/21 01:34

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acenaphthene	0.0459	U	0.0331	0.0344	72.1	74.9	1	28.0-120			3.85	25
Acenaphthylene	0.0459	U	0.0364	0.0380	79.3	82.8	1	31.0-121			4.30	25
Acetophenone	0.0459	U	0.0337	0.0354	73.4	77.1	1	20.0-120			4.92	35
Anthracene	0.0459	U	0.0346	0.0358	75.4	78.0	1	36.0-120			3.41	23
Atrazine	0.0459	U	0.0373	0.0375	81.3	81.7	1	39.0-130			0.535	23
Benzaldehyde	0.0459	U	0.0735	0.0803	160	175	1	10.0-160		J5	8.84	40
Benzo(a)anthracene	0.0459	U	0.0390	0.0399	85.0	86.9	1	39.0-120			2.28	23
Benzo(b)fluoranthene	0.0459	U	0.0352	0.0360	76.7	78.4	1	37.0-120			2.25	23
Benzo(k)fluoranthene	0.0459	U	0.0350	0.0359	76.3	78.2	1	37.0-120			2.54	26
Benzo(g,h,i)perylene	0.0459	U	0.0340	0.0338	74.1	73.6	1	37.0-123			0.590	25
Benzo(a)pyrene	0.0459	U	0.0357	0.0367	77.8	80.0	1	37.0-120			2.76	24
Biphenyl	0.0459	U	0.0338	0.0354	73.6	77.1	1	29.0-120			4.62	33
Bis(2-chlorethoxy)methane	0.0459	U	0.0300	0.0308	65.4	67.1	1	17.0-120			2.63	31
Bis(2-chloroethyl)ether	0.0459	U	0.0325	0.0340	70.8	74.1	1	14.0-120			4.51	33
2,2-Oxybis(1-Chloropropane)	0.0459	U	0.0301	0.0316	65.6	68.8	1	18.0-120			4.86	34
4-Bromophenyl-phenylether	0.0459	U	0.0347	0.0358	75.6	78.0	1	37.0-120			3.12	24
Caprolactam	0.0459	U	0.00994	0.0100	21.7	21.8	1	10.0-120			0.602	40
Carbazole	0.0459	U	0.0353	0.0364	76.9	79.3	1	38.0-127			3.07	21
4-Chloroaniline	0.0459	U	0.0301	0.0264	65.6	57.5	1	10.0-120			13.1	31
2-Chloronaphthalene	0.0459	U	0.0347	0.0362	75.6	78.9	1	29.0-120			4.23	28
4-Chlorophenyl-phenylether	0.0459	U	0.0357	0.0374	77.8	81.5	1	36.0-120			4.65	23
Chrysene	0.0459	U	0.0387	0.0402	84.3	87.6	1	38.0-120			3.80	23
Dibenz(a,h)anthracene	0.0459	U	0.0323	0.0327	70.4	71.2	1	36.0-121			1.23	24
Dibenzofuran	0.0459	U	0.0357	0.0369	77.8	80.4	1	32.0-120			3.31	26
3,3-Dichlorobenzidine	0.0918	U	0.0775	0.0792	84.4	86.3	1	10.0-134			2.17	30
2,4-Dinitrotoluene	0.0459	U	0.0389	0.0404	84.7	88.0	1	39.0-125			3.78	25
2,6-Dinitrotoluene	0.0459	U	0.0353	0.0371	76.9	80.8	1	36.0-120			4.97	27
Fluoranthene	0.0459	U	0.0355	0.0368	77.3	80.2	1	41.0-121			3.60	22
Fluorene	0.0459	U	0.0359	0.0368	78.2	80.2	1	37.0-120			2.48	24
Hexachlorobenzene	0.0459	U	0.0332	0.0355	72.3	77.3	1	35.0-122			6.70	24
Hexachloro-1,3-butadiene	0.0459	U	0.0295	0.0321	64.3	69.9	1	12.0-120			8.44	34
Hexachlorocyclopentadiene	0.0459	U	0.0254	0.0272	55.3	59.3	1	10.0-120			6.84	33
Hexachloroethane	0.0459	U	0.0286	0.0312	62.3	68.0	1	10.0-120			8.70	40
Indeno(1,2,3-cd)pyrene	0.0459	U	0.0338	0.0347	73.6	75.6	1	38.0-125			2.63	24
Isophorone	0.0459	U	0.0300	0.0306	65.4	66.7	1	21.0-120			1.98	27
1-Methylnaphthalene	0.0459	U	0.0307	0.0321	66.9	69.9	1	11.0-120			4.46	27
2-Methylnaphthalene	0.0459	U	0.0293	0.0307	63.8	66.9	1	17.0-120			4.67	28
Naphthalene	0.0459	0.000177	0.0287	0.0304	62.1	65.8	1	10.0-120			5.75	31
2-Nitroaniline	0.0459	U	0.0366	0.0381	79.7	83.0	1	33.0-120			4.02	27
3-Nitroaniline	0.0459	U	0.0356	0.0352	77.6	76.7	1	20.0-120			1.13	27

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L1404421-20 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1404421-20 09/21/21 00:50 • (MS) R3706940-4 09/21/21 01:12 • (MSD) R3706940-5 09/21/21 01:34

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
4-Nitroaniline	0.0459	U	0.0364	0.0375	79.3	81.7	1	10.0-160			2.98	26
Nitrobenzene	0.0459	U	0.0292	0.0309	63.6	67.3	1	12.0-120			5.66	30
n-Nitrosodiphenylamine	0.0459	U	0.0334	0.0344	72.8	74.9	1	37.0-120			2.95	24
n-Nitrosodi-n-propylamine	0.0459	U	0.0324	0.0331	70.6	72.1	1	16.0-120			2.14	30
Phenanthrene	0.0459	U	0.0347	0.0356	75.6	77.6	1	33.0-120			2.56	22
Benzylbutyl phthalate	0.0459	U	0.0319	0.0332	69.5	72.3	1	34.0-126			3.99	24
Bis(2-ethylhexyl)phthalate	0.0459	U	0.0308	0.0317	67.1	69.1	1	33.0-126			2.88	25
Di-n-butyl phthalate	0.0459	U	0.0340	0.0344	74.1	74.9	1	35.0-128			1.17	23
Diethyl phthalate	0.0459	U	0.0343	0.0348	74.7	75.8	1	39.0-125			1.45	24
Dimethyl phthalate	0.0459	U	0.0349	0.0354	76.0	77.1	1	37.0-120			1.42	24
Di-n-octyl phthalate	0.0459	U	0.0316	0.0335	68.8	73.0	1	25.0-135			5.84	26
Pyrene	0.0459	U	0.0354	0.0360	77.1	78.4	1	39.0-120			1.68	22
1,2,4-Trichlorobenzene	0.0459	U	0.0295	0.0318	64.3	69.3	1	15.0-120			7.50	31
4-Chloro-3-methylphenol	0.0459	U	0.0295	0.0297	64.3	64.7	1	26.0-120			0.676	27
2-Chlorophenol	0.0459	U	0.0298	0.0320	64.9	69.7	1	18.0-120			7.12	34
2-Methylphenol	0.0459	U	0.0269	0.0272	58.6	59.3	1	10.0-120			1.11	30
3&4-Methyl Phenol	0.0459	U	0.0277	0.0282	60.3	61.4	1	10.0-120			1.79	36
2,4-Dichlorophenol	0.0459	U	0.0307	0.0320	66.9	69.7	1	19.0-120			4.15	27
2,4-Dimethylphenol	0.0459	U	0.0286	0.0255	62.3	55.6	1	15.0-120			11.5	28
4,6-Dinitro-2-methylphenol	0.0459	U	0.0476	0.0488	104	106	1	10.0-144			2.49	39
2,4-Dinitrophenol	0.0459	U	0.0457	0.0470	99.6	102	1	10.0-120			2.80	40
2-Nitrophenol	0.0459	U	0.0316	0.0334	68.8	72.8	1	20.0-120			5.54	30
4-Nitrophenol	0.0459	U	0.0149	0.0153	32.5	33.3	1	10.0-120			2.65	40
Pentachlorophenol	0.0459	U	0.0434	0.0445	94.6	96.9	1	10.0-128			2.50	37
Phenol	0.0459	U	0.0131	0.0130	28.5	28.3	1	10.0-120			0.766	40
2,4,5-Trichlorophenol	0.0459	U	0.0366	0.0379	79.7	82.6	1	33.0-120			3.49	31
2,4,6-Trichlorophenol	0.0459	U	0.0368	0.0376	80.2	81.9	1	26.0-120			2.15	31
(S) Nitrobenzene-d5					*52.7*	*58.4*		*10.0-127*				
(S) 2-Fluorobiphenyl					*74.4*	*79.6*		*10.0-130*				
(S) p-Terphenyl-d14					*68.0*	*71.6*		*10.0-128*				
(S) Phenol-d5					*24.0*	*26.3*		*10.0-120*				
(S) 2-Fluorophenol					*39.2*	*42.4*		*10.0-120*				
(S) 2,4,6-Tribromophenol					*73.9*	*77.2*		*10.0-155*				

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Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.
O1	The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.

Qualifier	Description
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
V	The sample concentration is too high to evaluate accurate spike recoveries.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

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3.1+0=3.1 4.4+0=4.4 3.9+0=3.9 .2+0=.2 1.7+0=1.7 1.8+0=1.8 1.6+0=1.6 3.0+0=3.0 5.0+0=5.0

TRC Solutions - Austin, TX **505 E. Huntland Dr, Ste 250** **Austin, TX 78752**	Billing Information: **Accounts Payable** **21 Griffin Road North** **Windsor, CT 06095** **apinvoiceapproval@trcsolutions.com**	Pres Chk
Report to: **Julie Speer**	Email To: **jspeer@trccompanies.com**	
Project Description: **Artesia Fall 2021**	City/State Collected: **Artesia, NM**	
Phone: **512-684-3170** Fax:	Client Project # **425135.0000.0000.**	Lab Project # **TRCATX-ARTESIA**
Collected by (print): **Scott Ude/HMI Team**	Site/Facility ID # **(Navajo - Artesia)**	P.O. # **165614**
Collected by (signature): Scott Ude Immediately Packed on Ice N ___ Y ✓	***Rush?*** (Lab MUST Be Notified) ___ Same Day ___ Five Day ___ Next Day ___ 5 Day (Rad Only) ___ Two Day ___ 10 Day (Rad Only) ___ Three Day Date Results Needed	Quote #

Chain of Custody Page 1 of 19

Pace Analytical® National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# M04464

Table #

Acctnum: **TRCATX**

Template: **T194233**

Prelogin: **P870645**

TSR: **526**

PB:

Shipped Via:

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260OXY - 40mlAmb HCl	DROLVI- 40mlAmb-HCl-BT	GRO - 40mlAmb HCl	Total Short List Metals 250mlHDPE-HNO3	Anions. TDS - 250mlHDPE-NoPres	NO2NO3 - 250mlHDPE-H2SO4	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
MW-85	Grab	GW		LNAPL		10	X	X	X	X	X	X						
MW-86	Grab	GW		LNAPL		11	X	X	X		X	X	X	X				
MW-120	Grab	GW		9/14/21	950	12	X	X	X	X	X	X				X		01
MW-121	Grab	GW		9/14/21	1035	7		X	X	X	X	X						02
MW-84	Grab	GW		9/14/21	1650	7		X	X	X	X	X						03
MW-122	Grab	GW		9/14/21	1215	7		X	X	X	X	X						04
MW-79	Grab	GW		9/14/21	1125	7		X	X	X	X	X						05
MW-74	Grab	GW		9/14/21	1535	7		X	X	X	X	X						06
MW-2A	Grab	GW		9/14/21	1300	7		X	X	X	X	X						07
OCD-6	Grab	GW		9/14/21	1400	7		X	X	X	X	X						08

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:
2799/2777/1460/9185/9163/9174/2768/1471
2803/2262/1954/1583/1932/1420
Cations are being analyzed with Total Metals except where noted.

pH Temp Flow Other

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking # 516377205417721443/2355/1955

Sample Receipt Checklist

COC Seal Present/Intact:	__NP	__Y __N
COC Signed/Accurate:		__Y __N
Bottles arrive intact:		__Y __N
Correct bottles used:		__Y __N
Sufficient volume sent:		__Y __N
If Applicable		
VOA Zero Headspace:		__Y __N
Preservation Correct/Checked:		__Y __N

Relinquished by : (Signature) Scott Ude	Date: 9/15/21	Time: 1200	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4.7 °C Bottles Received: 2.6+0=2.6 1018	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) K. Nolan	Date: 9/16/21	Time: 9:00	Hold:	Condition: NCF / OK

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TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Report to: **Julie Speer**
Email To: **jspeer@trccompanies.com**

Project Description: **Artesia Fall 2021**
City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:
Client Project # **425135.0000.0000.**
Lab Project # **TRCATX-ARTESIA**

Collected by (print): **Scott Ude/HMI Team**
Site/Facility ID # **(Navajo - Artesia)**
P.O. # **165614**

Collected by (signature): Scott Ude
Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day
Date Results Needed
Quote #

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page 2 of 19

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Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 142441
Table #
Acctnum: TRCATX
Template: T194233
Prelogin: P870645
TSR: 526
PB:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260OXY - 40mlAmb HCl	DROLVI- 40mlAmb-HCl-BT	GRO - 40mlAmb HCl	Total Short List Metals 250mlHDPE-HNO3	Anions. TDS - 250mlHDPE-NoPres	NO2NO3 - 250mlHDPE-H2SO4	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
OCD-7AR	Grab	GW		9/14/21	1440	7		X	X	X	X	X						09
MW-48	~~Grab~~	~~GW~~				~~10~~	X	X	X	X	X	X	buried; unlocated					-
MW-130	Grab	GW		9/14/21	825	10	X	X	X	X	X	X						10
KWB-4	~~Grab~~	~~GW~~		LNAPL	—	~~8~~	X	X		X	X	X						
EB-EP-01	Grab	GW		9/14/21	1550	7		X	X	X	X	X						11
EB-EP-04	Grab	GW		9/14/21	1140	7		X	X	X	X	X						12
TRIP BLANK-EP-01	Grab	GW		9/14/21	—	1	X											13

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____
Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP ✓Y __N
COC Signed/Accurate: Y __N
Bottles arrive intact: Y __N
Correct bottles used: Y __N
Sufficient volume sent: Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
Scott Ude	9/15/21	1200			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 2.6 °C 2.6+0=2.6 Bottles Received: 1018	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) K. Mercer	Date: 9/16/21 Time: 9:02	Hold: Condition: NCF / OK

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Pres Chk

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com**

Project Description: **Artesia Fall 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
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Client Project # **425135.0000.0000.**

Lab Project # **TRCATX-ARTESIA**

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Site/Facility ID # **(Navajo - Artesia)**

P.O. # **165614**

Collected by (signature): Scott Ude

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
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Quote #

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Chain of Custody Page 3 of 19

Pace Analytical® National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L # 404404

Table #

Acctnum: TRCATX
Template: T194233
Prelogin: P870645
TSR: 526
PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260OXY - 40mlAmb HCl	DROLVI- 40mlAmb-HCl-BT	GRO - 40mlAmb HCl	Total Short List Metals 250mlHDPE-HNO3 <2	Anions. TDS - 250mlHDPE-NoPres	NO2NO3 - 250mlHDPE-H2SO4	Total Long List Metals 250mlHDPE-HNO3 <2	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
MW-76	Grab	GW		9/14/21	1710	7		X	X	X	X	X						14
MW-75	Grab	GW		9/14/21	1805	7		X	X	X	X	X						15
MW-83	Grab	GW		9/14/21	1625	7		X	X	X	X	X						16
MW-3	Grab	GW		9/14/21	1535	7		X	X	X	X	X						17
MW-88	Grab	GW		9/14/21	1220	5		X	X	X							No Cations	18
MW-22A	Grab	GW		9/14/21	1300	7		X	X	X	X	X						19
MW-10	Grab	GW		9/14/21	1400	7		X	X	X	X	X						20
MW-123	Grab	GW		9/14/21	1445	7		X	X	X	X	X						21
MW-4A	Grab	GW		9/14/21	1125	7		X	X	X	X	X						22
MW-5A	Grab	GW		9/14/21	1020	7		X	X	X	X	X						23

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Scott Ude	9/15/21	1200		9
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4.7 2.6 °C 2.6±0=2.6 Bottles Received: 18
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) K. Rocerun	Date: 9/16/21 Time: 9:00

If preservation required by Login: Date/Time

Hold: Condition: NCF / OK

Released to Imaging: 2/7/2025 11:08:22 AM
Received by OCD: 1/9/2025 2:41:44 PM

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Pres Chk

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com**

Project Description: **Artesia Fall 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **425135.0000.0000.**

Lab Project # **TRCATX-ARTESIA**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **(Navajo - Artesia)**

P.O. # **165614**

Collected by (signature): Scott Ude
Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page 4 of 19

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Prelogin: **P870645**
TSR: **526**
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Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260OXY - 40mlAmb HCl	DROLVI- 40mlAmb-HCl-BT	GRO - 40mlAmb HCl	Total Short List Metals 250mlHDPE-HNO3	Anions. TDS - 250mlHDPE-NoPres	NO2NO3 - 250mlHDPE-H2SO4	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
MW-7A	Grab	GW		9/14/21	920	10	X	X	X	X	X	X						24
OCD-8A	Grab	GW		9/14/21	835	8		X	X		X	X	X	X				25
DUP-EP-01	Grab	GW		9/14/21	900	10	X	X	X	X	X	X						26
DUP-EP-02	Grab	GW		9/14/21	1200	7		X	X	X	X	X						27
DUP-EP-03	Grab	GW		9/14/21	1300	7		X	X	X	X	X						28
EB-EP-03	Grab	GW		9/14/21	1035	7		X	X	X	X	X						29
TRIP BLANK-EP-02	Grab	GW		9/14/21	—	1	X											30

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP Y __N
COC Signed/Accurate: Y __N
Bottles arrive intact: Y __N
Correct bottles used: Y __N
Sufficient volume sent: Y __N
If Applicable
VOA Zero Headspace: Y __N
Preservation Correct/Checked: Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
Scott Ude	9/15/21	1200			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4.7+2 °C 2.6±0.2=2.6 Bottles Received: 1018	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) K. Toleen	Date: 9/16/21 Time: 9:00	Hold: Condition: NCF / OK

Page 1292 of 1716

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Email To: **jspeer@trccompanies.com**

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Chain of Custody Page 5 of 19

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L # 140404

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Prelogin: P870645
TSR: 526
PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260OXY - 40mlAmb HCl	DROLVI- 40mlAmb-HCl-BT	GRO - 40mlAmb HCl	Total Short List Metals 250mlHDPE-HNO3	Anions. TDS - 250mlHDPE-NoPres	NO2NO3 - 250mlHDPE-H2SO4	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
OCD-1R	Grab	GW		9/14/21	1610	7		X	X	X	X	X						31
OCD-2A	Grab	GW		9/14/21	1220	5		X	X	X							No Cations	32
OCD-3	Grab	GW		9/14/21	1305	5		X	X	X							No Cations	33
OCD-4	Grab	GW		9/14/21	1345	5		X	X	X							No Cations	34
MW-11A	Grab	GW		9/14/21	1510	3				X	X	X					Only Cats.	35
OCD-5	Grab	GW		9/14/21	1430	7		X	X	X	X	X						36
MW-87	Grab	GW		9/14/21	840	5		X	X	X							No Cations	37
MW-18A	Grab	GW		9/14/21	925	6		X			X	X	X	X				38
MW-70	Grab	GW		9/14/21	1020	5		X	X	X							No Cations	39
MW-124	Grab	GW		9/14/21	1110	7		X	X	X	X	X						40

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
Scott Ude	9/15/21	1200		9	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: ~~7.2~~ °C 2.6 ±0 = 2.6 Bottles Received: 1018	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) K. Holleran	Date: 9/16/21 Time: 9:50	Hold: Condition: NCF / OK

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Pres Chk

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com**

Project Description: **Artesia Fall 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **425135.0000.0000.**

Lab Project # **TRCATX-ARTESIA**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **(Navajo - Artesia)**

P.O. # **165614**

Collected by (signature): Scott Ude
Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

Quote #

Analysis / Container / Preservative

Chain of Custody Page 6 of 19

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L # 140404

Table #

Acctnum: **TRCATX**
Template: **T194233**
Prelogin: **P870645**
TSR: **526**
PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260OXY - 40mlAmb HCl	DROLVI- 40mlAmb-HCl-BT	GRO - 40mlAmb HCl	Total Short List Metals 250mlHDPE-HNO3	Anions. TDS - 250mlHDPE-NoPres	NO2NO3 - 250mlHDPE-H2SO4	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
MW-52	Grab	GW		9/15/21	950	11	X	X	X		X	X	X	X				41
MW-109	Grab	GW		9/15/21	830	12	X	X	X	X	X	X				X		42
MW-110	Grab	GW		9/15/21	910	12	X	X	X	X	X	X				X		43
EB-EP-02	Grab	GW		9/14/21	1125	7		X	X	X	X	X						44
TRIP BLANK-EP-03	Grab	GW		9/14/21	—	1	X											45

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP Y __N
COC Signed/Accurate: Y __N
Bottles arrive intact: Y __N
Correct bottles used: Y __N
Sufficient volume sent: Y __N
If Applicable
VOA Zero Headspace: Y __N
Preservation Correct/Checked: Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	9/15/21	1200	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			K. Holder

Trip Blank Received: Yes / No
HCL / MeoH
TBR

Temp: 4.7°C Bottles Received: 18
2.6+0=2.6

Date: 9/16/21 Time: 9:00

If preservation required by Login: Date/Time

Hold: Condition: NCF / OK

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Project Description: **Artesia Fall 2021**

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Phone: **512-684-3170**
Fax:

Client Project # **425135.0000.0000.**

Lab Project # **TRCATX-ARTESIA**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **(Navajo - Artesia)**

P.O. # **165614**

Collected by (signature): Scott Ude
Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page 7 of 19

Pace Analytical® National Center for Testing & Innovation
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Fax: 615-758-5859

L# 140464
Table #
Acctnum: TRCATX
Template: T194233
Prelogin: P870645
TSR: 526
PB:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260OXY - 40mlAmb HCl	DROLVI- 40mlAmb-HCl-BT	GRO - 40mlAmb HCl	Total Short List Metals 250mlHDPE-HNO3	Anions. TDS - 250mlHDPE-NoPres	NO2NO3 - 250mlHDPE-H2SO4	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
MW-113	Grab	GW		9/14/21	1530	14	X	X	X	X	X	X			X	X		46
KWB-8	~~Grab~~	~~GW~~		LNAPL		~~9~~	~~X~~	~~X~~			~~X~~	~~X~~	~~X~~	~~X~~				
MW-133	~~Grab~~	~~GW~~		LNAPL		~~10~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~						
MW-134	Grab	GW		9/15/21	840	12	X	X	X	X	X	X				X		47
RA-4798	Grab	GW		9/14/21	1745	10	X			X	X	X			X	X	Only Cats.	48
RA-4196 Not Sampled	Grab	GW	Pump shorted out; as previous			~~10~~	~~X~~			~~X~~	~~X~~	~~X~~			~~X~~	~~X~~	~~Only Cats.~~	
KWB-7	Grab	GW		9/14/21	1435	9	X	X			X	X	X	X				49
MW-135	Grab	GW		9/14/21	1655	12	X	X	X	X	X	X				X		50
NP-1	Grab	GW		9/15/21	955	7	X								X	X		51
MW-21	Grab	GW		9/15/21	1045	12	X	X	X	X	X	X				X		52

* Matrix:
SS - Soil AIR - Air F - Filter
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WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
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Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
Scott Ude	9/15/21	1200			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 2.6 °C Bottles Received: 10/8	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) K. Holleman	Date: 9/16/21 Time: 9:00	Hold: / Condition: NCF / OK

Page 1295 of 1716

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Chain of Custody Page 8 of 19

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KWB-11A	Grab	GW		9/14/21	1200	15	X	X	X		X	X	X	X	X	X		53
KWB-11B	Grab	GW		9/14/21	1245	15	X	X	X		X	X	X	X	X	X		54
MW-115	Grab	GW		9/14/21	1100	10	X	X	X	X	X	X						55
MW-114	Grab	GW		9/14/21	1015	14	X	X	X	X	X	X			X	X		56
MW-125	Grab	GW		9/14/21	930	10	X	X	X	X	X	X						57
DUP-REST-01	Grab	GW		9/14/21	1200	14	X	X	X	X	X	X			X	X		58
EB-REST-01	Grab	GW		9/14/21	1550	14	X	X	X	X	X	X			X	X		59
DUP-REST-03	Grab	GW		9/15/21	800	12	X	X	X	X	X	X				X		60
EB-REST-03	Grab	GW		9/15/21	900	12	X	X	X	X	X	X				X		61
TRIP BLANK-REST-01	Grab	GW		9/15/21	—	1	X											62

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Preservation Correct/Checked: Y N

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Scott Ude	9/15/21	1200		9
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4.7 °C 2.6+0=2.6 Bottles Received: 10
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) K. Holen	Date: 9/16/21 Time: 9:00

If preservation required by Login: Date/Time

Hold: Condition: NCF / OK

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Chain of Custody Page 9 of 19

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L# 1704404

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TSR: **526**
PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260OXY - 40mlAmb HCl	DROLVI- 40mlAmb-HCl-BT	GRO - 40mlAmb HCl	Total Short List Metals 250mlHDPE-HNO3	Anions. TDS - 250mlHDPE-NoPres	NO2NO3 - 250mlHDPE-H2SO4	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
TRIP BLANK-TMD-01	Grab	GW		9/15/21	—	1	X											63
MW-117	Grab	GW		9/14/21	1350	12	X	X	X	X	X	X				X		64
MW-118	Grab	GW		9/14/21	1305	10	X	X	X	X	X	X						65
MW-119	Grab	GW		9/14/21	1215	10	X	X	X	X	X	X						66
MW-136	Grab	GW		9/14/21	855	11	X	X	X		X	X	X	X				67
MW-126A	~~Grab~~	~~GW~~		LNAPL	—	~~10~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~						
MW-126B	Grab	GW		9/14/21	1000	14	X	X	X	X	X	X			X	X		68
MW-127	~~Grab~~	~~GW~~		~~9/14/21~~	LNAPL	~~14~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~			~~X~~	~~X~~		
KWB-1A	~~Grab~~	~~GW~~		LNAPL	—	~~9~~	~~X~~	~~X~~			~~X~~	~~X~~	~~X~~	~~X~~				
KWB-10R	~~Grab~~	~~GW~~		LNAPL	—	~~10~~	~~X~~	~~X~~		~~X~~	~~X~~	~~X~~				~~X~~		

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP __Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	9/15/21	1200	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			K. Holder

Trip Blank Received: Yes / No
HCL / MeoH
TBR

Temp: +1.8°C Bottles Received:
2.6 + 0 = 2.6 1018

Date: 9/16/21 Time: 9:00

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Released to Imaging: 2/7/2025 11:08:22 AM
Received by OCD: 1/9/2025 2:41:44 PM

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Pres Chk

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com**

Project Description: **Artesia Fall 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **425135.0000.0000.**

Lab Project # **TRCATX-ARTESIA**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **(Navajo - Artesia)**

P.O. # **165614**

Collected by (signature): Scott Ude

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page 10 of 19

Pace Analytical® National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 140404

Table #

Acctnum: TRCATX
Template: T194233
Prelogin: P870645
TSR: 526
PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260OXY - 40mlAmb HCl	DROLVI- 40mlAmb-HCl-BT	GRO - 40mlAmb HCl	Total Short List Metals 250mlHDPE-HNO3	Anions. TDS - 250mlHDPE-NoPres	NO2NO3 - 250mlHDPE-H2SO4	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
MW-131	Grab	GW		LNAPL		10	X	X	X	X	X	X						
KWB-5	Grab	GW		LNAPL		8	X	X		X	X	X						
MW-111	Grab	GW		LNAPL		14	X	X	X	X	X	X			X	X		
KWB-6	Grab	GW		LNAPL		12	X	X		X	X	X			X	X		
MW-112	Grab	GW		LNAPL		10	X	X	X	X	X	X						
MW-132	Grab	GW		LNAPL		10	X	X	X	X	X	X						
MW-57	Grab	GW		9/14/21	1055	10	X	X	X	X	X	X						69
KWB-12A	Grab	GW		9/14/21	1000	11	X	X	X		X	X	X	X				70
KWB-12B	Grab	GW		9/14/21	905	11	X	X	X		X	X	X	X				71
KWB-2R	Grab	GW		LNAPL		10	X	X		X	X	X				X		

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP ✓Y __N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: ✓Y __N
Correct bottles used: ✓Y __N
Sufficient volume sent: ✓Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeOH TBR	If preservation required by Login: Date/Time
Scott Ude	9/15/21	1200			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4.7 °C 2.6+0=2.6 Bottles Received: 1018	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 9/16/21 Time: 9:00	Hold: / Condition: NCF / OK

Released to Imaging: 2/7/2025 11:08:22 AM
Received by OCD: 1/9/2025 2:41:44 PM

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Pres Chk

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com**

Project Description: **Artesia Fall 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **425135.0000.0000.**

Lab Project # **TRCATX-ARTESIA**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **(Navajo - Artesia)**

P.O. # **165614**

Collected by (signature): Scott Ude

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page 11 of 19

Pace Analytical® National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 140464

Table #

Acctnum: TRCATX

Template: T194233

Prelogin: P870645

TSR: 526

PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260OXY - 40mlAmb HCl	DROLVI- 40mlAmb-HCl-BT	GRO - 40mlAmb HCl	Total Short List Metals 250mlHDPE-HNO3	Anions. TDS - 250mlHDPE-NoPres	NO2NO3 - 250mlHDPE-H2SO4	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
MW-58	Grab	GW		LNAPL		9	X	X			X	X	X	X				
DUP-REST-05	Grab	GW		9/14/21	1200	11	X	X	X		X	X	X	X				72
EB-REST-05	Grab	GW		9/14/21	925	11	X	X	X		X	X	X	X				73
TRIP BLANK-REST-02	Grab	GW		9/14/21	—	1	X											74

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP ✓Y __N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: ✓Y __N
Correct bottles used: ✓Y __N
Sufficient volume sent: ✓Y __N
If Applicable
VOA Zero Headspace: ✓Y __N
Preservation Correct/Checked: ✓Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
Scott Ude	9/15/21	1200		Y	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: ATR °C Bottles Received:	
				2 to 0-2.6 1018	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date:	Time:
			K. Holeman	9/16/21	9:02

Hold: Condition: NCF / OK

Released to Imaging: 2/7/2025 11:08:22 AM
Received by OCD: 1/9/2025 2:41:44 PM

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
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Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Pres Chk

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com**

Project Description: **Artesia Fall 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **425135.0000.0000.**

Lab Project # **TRCATX-ARTESIA**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **(Navajo - Artesia)**

P.O. # **165614**

Collected by (signature): Scott Ude

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page 12 of 19

Pace Analytical® National Center for Testing & Innovation

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Mount Juliet, TN 37122
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Fax: 615-758-5859

L # 140464

Table #

Acctnum: TRCATX
Template: T194233
Prelogin: P870645
TSR: 526
PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260OXY - 40mlAmb HCl	DROLVI- 40mlAmb-HCl-BT	GRO - 40mlAmb HCl	Total Short List Metals 250mlHDPE-HNO3	Anions. TDS - 250mlHDPE-NoPres	NO2NO3 - 250mlHDPE-H2SO4	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
MW-104	Grab	GW		9/14/21	1315	12	X	X	X	X	X	X				X		75
MW-64	Grab	GW		9/14/21	1400	10	X	X	X	X	X	X						76
MW-65	~~Grab~~	~~GW~~		LNAPL		~~10~~	X	X	X	X	X	X						
MW-102	Grab	GW		9/14/21	1505	14	X	X	X	X	X	X			X	X		77
MW-99	~~Grab~~	~~GW~~		LNAPL		~~10~~	X	X	X	X	X	X						
MW-66	~~Grab~~	~~GW~~		LNAPL		~~11~~	X	X	X		X	X	X	X				
MW-28	~~Grab~~	~~GW~~		LNAPL		~~13~~	X	X	X		X	X	X	X		X		
MW-60	~~Grab~~	~~GW~~		LNAPL		~~15~~	X	X	X		X	X	X	X	X	X		
MW-128	~~Grab~~	~~GW~~		LNAPL		~~10~~	X	X	X	X	X	X						
MW-116	Grab	GW		9/15/21	1025	10	X	X	X	X	X	X						78

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP ✓Y __N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: ✓Y __N
Correct bottles used: ✓Y __N
Sufficient volume sent: ✓Y __N
If Applicable
VOA Zero Headspace: ✓Y __N
Preservation Correct/Checked: ✓Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Scott Ude	9/15/21	1200		9 0
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4.7 °C Bottles Received: 2.6-0.10=2.6 (018)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) K. Holeen	Date: 9/16/21 Time: 9:02

If preservation required by Login: Date/Time

Hold: Condition: NCF / OK

Released to Imaging: 2/7/2025 11:08:22 AM
Received by OCD: 1/9/2025 2:41:44 PM

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Report to: **Julie Speer**
Email To: **jspeer@trccompanies.com**

Project Description: **Artesia Fall 2021**
City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:
Client Project # **425135.0000.0000.**
Lab Project # **TRCATX-ARTESIA**

Collected by (print): **Scott Ude/HMI Team**
Site/Facility ID # **(Navajo - Artesia)**
P.O. # **165614**

Collected by (signature): Scott Ude
Immediately Packed on Ice N ___ Y ✓
Rush? (Lab MUST Be Notified) ___ Same Day ___ Five Day ___ Next Day ___ 5 Day (Rad Only) ___ Two Day ___ 10 Day (Rad Only) ___ Three Day
Quote #
Date Results Needed

Chain of Custody Page 13 of 19

Pace Analytical® National Center for Testing & Innovation
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L # 140404
Table #
Acctnum: TRCATX
Template: T194233
Prelogin: P870645
TSR: 526
PB:
Shipped Via:

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260OXY - 40mlAmb HCl	DROLVI- 40mlAmb-HCl-BT	GRO - 40mlAmb HCl	Total Short List Metals 250mlHDPE-HNO3	Anions. TDS - 250mlHDPE-NoPres	NO2NO3 - 250mlHDPE-H2SO4	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
MW-46R	Grab	GW		9/15/21	1045	8	X	X		X	X	X						79
MW-145	Grab	GW		9/14/21	1130	9	X	X	X	X	X						No Cations	80
MW-146	Grab	GW		9/14/21	1020	9	X	X	X	X	X						No Cations	81
MW-147	Grab	GW		9/14/21	855	9	X	X	X	X	X						No Cations	82
MW-148	Grab	GW		9/14/21	930	9	X	X	X	X	X						No Cations	83
DUP-REST-02	Grab	GW		9/14/21	1320	14	X	X	X	X	X	X			X	X		84
EB-REST-02	Grab	GW		9/14/21	1520	14	X	X	X	X	X	X			X	X		85
DUP-REST-04	Grab	GW		9/14/21	900	9	X	X	X	X	X						No Cations	86
EB-REST-04	Grab	GW		9/14/21	1035	9	X	X	X	X	X						No Cations	87
TRIP BLANK-REST-03	Grab	GW		9/15/21	—	1	X											88

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via: __ UPS ✓ FedEx __ Courier __ _____
Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
Scott Ude	9/15/21	1200			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4.7+0.2°C 2 to 0=2.6	Bottles Received: 10 18
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) K. Holden	Date: 9/16/21	Time: 9:02

Hold: | Condition: NCF / OK

Released to Imaging: 2/7/2025 11:08:22 AM
Received by OCD: 1/9/2025 2:41:44 PM

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
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Billing Information:
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Pres Chk

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com**

Project Description: **Artesia Fall 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **425135.0000.0000.**

Lab Project # **TRCATX-ARTESIA**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **(Navajo - Artesia)**

P.O. # **165614**

Collected by (signature): Scott Ude

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page 14 of 19

Pace Analytical® National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L # 424404

Table #

Acctnum: TRCATX

Template: T194233

Prelogin: P870645

TSR: 526

PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260OXY - 40mlAmb HCl	DROLVI- 40mlAmb-HCl-BT	GRO - 40mlAmb HCl	Total Short List Metals 250mlHDPE-HNO3	Anions. TDS - 250mlHDPE-NoPres	NO2NO3 - 250mlHDPE-H2SO4	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	SVOCs/8270DIOXANE-100ml Amb-NoPres+	Remarks	Sample # (lab only)
MW-101	Grab	GW		9/15/21	925	12	X	X	X	X	X	X				X	1,4-D only	89
MW-105	~~Grab~~	~~GW~~	not located; covered by const. gravel			~~10~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~—~~					
MW-61	Grab	GW		9/14/21	1155	12	X	X	X	X	X	X				X	1,4-D only	90
MW-62	Grab	GW		9/14/21	1240	14	X	X	X	X	X	X			X	X	1,4-D only	91
MW-62R	Grab	GW		9/14/21	1325	10	X	X	X	X	X	X						92
MW-43	~~Grab~~	~~GW~~		LNAPL		~~13~~	~~X~~	~~X~~	~~X~~	~~—~~	~~X~~	~~X~~	~~X~~	~~X~~	~~—~~	~~X~~	~~1,4-D only~~	
MW-137	~~Grab~~	~~GW~~		LNAPL		~~13~~	~~X~~	~~X~~	~~X~~	~~—~~	~~X~~	~~X~~	~~X~~	~~X~~	~~—~~	~~X~~	~~SVOCs only~~	
MW-137A	~~Grab~~	~~GW~~		LNAPL		~~11~~	~~X~~	~~X~~	~~X~~	~~—~~	~~X~~	~~X~~	~~X~~	~~X~~	~~—~~			
MW-138	~~Grab~~	~~GW~~		LNAPL		~~15~~	~~X~~	~~X~~	~~X~~	~~—~~	~~X~~	~~X~~	~~X~~	~~X~~	~~—~~	~~X~~	~~—~~	
MW-138A	~~Grab~~	~~GW~~		LNAPL		~~11~~	~~X~~	~~X~~	~~X~~	~~—~~	~~X~~	~~X~~	~~X~~	~~X~~	~~—~~		~~—~~	

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y N
COC Signed/Accurate:		Y N
Bottles arrive intact:		Y N
Correct bottles used:		Y N
Sufficient volume sent:		Y N
If Applicable		
VOA Zero Headspace:		Y N
Preservation Correct/Checked:		Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
Scott Ude	9/15/21	1200		Y	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 2.6 °C 2.6	Bottles Received: 18
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 9/16/21	Time: 9:02

Hold: | Condition: NCF / OK

Page 1302 of 1716

Released to Imaging: 2/7/2025 11:08:22 AM
Received by OCD: 1/9/2025 2:41:44 PM

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
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apinvoiceapproval@trcsolutions.com

Pres Chk

Report to: Julie Speer

Email To: jspeer@trccompanies.com

Project Description: Artesia Fall 2021

City/State Collected: Artesia, NM

Phone: 512-684-3170
Fax:

Client Project # 425135.0000.0000.

Lab Project # TRCATX-ARTESIA

Collected by (print): Scott Ude/HMI Team

Site/Facility ID # (Navajo - Artesia)

P.O. # 165614

Collected by (signature): Scott Ude

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260OXY - 40mlAmb HCl	DROLVI- 40mlAmb-HCl-BT	GRO - 40mlAmb HCl	Total Short List Metals 250mlHDPE-HNO3	Anions. TDS - 250mlHDPE-NoPres	NO2NO3 - 250mlHDPE-H2SO4	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
MW-23	Grab	GW		LNAPL		12	X	X	X	X	X	X				X		
TEL-4	Grab	GW		9/14/21	825	12	X	X	X	X	X	X				X		93
TEL-3	Grab	GW		LNAPL		10	X	X	X	X	X	X						
TEL-2	Grab	GW		LNAPL		10	X	X	X	X	X	X						
TEL-1	Grab	GW		LNAPL		10	X	X	X	X	X	X						
MW-39	Grab	GW		LNAPL		12	X	X	X	X	X	X				X		
MW-98	Grab	GW		9/14/21	1055	10	X	X	X	X	X	X						94
MW-49	Grab	GW		9/15/21	840	13	X	X	X		X	X	X	X		X		95
MW-106	Grab	GW	not located; covered by const. gravel			12	X	X	X	X	X	X				X		
MW-45	Grab	GW		9/15/21	930	11	X	X			X	X	X	X		X		96

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via: __ UPS ✓ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP ✓Y __N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: ✓Y __N
Correct bottles used: ✓Y __N
Sufficient volume sent: ✓Y __N
If Applicable
VOA Zero Headspace: ✓Y __N
Preservation Correct/Checked: ✓Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No (HCL / MeoH TBR)	If preservation required by Login: Date/Time
Scott Ude	9/15/21	1200			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4.7+0.2°C 2.6+0=2.6 Bottles Received: 10/8	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) K. Holeen	Date: 9/16/21 Time: 9:50	Hold: Condition: NCF / OK

Chain of Custody Page 15 of 19

Pace Analytical® National Center for Testing & Innovation
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L # 1044464
Table #
Acctnum: TRCATX
Template: T194233
Prelogin: P870645
TSR: 526
PB:
Shipped Via:

Page 1303 of 1716

Released to Imaging: 2/7/2025 11:08:22 AM
Received by OCD: 1/9/2025 2:41:44 PM

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Pres Chk

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com**

Project Description: **Artesia Fall 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **425135.0000.0000.**

Lab Project # **TRCATX-ARTESIA**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **(Navajo - Artesia)**

P.O. # **165614**

Collected by (signature): Scott Ude
Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page 16 of 19

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Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 142484
Table #
Acctnum: TRCATX
Template: T194233
Prelogin: P870645
TSR: 526
PB:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260OXY - 40mlAmb HCl	DROLVI- 40mlAmb-HCl-BT	GRO - 40mlAmb HCl	Total Short List Metals 250mlHDPE-HNO3	Anions. TDS - 250mlHDPE-NoPres	NO2NO3 - 250mlHDPE-H2SO4	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
MW-29	Grab	GW		9/15/21	1025	12	X	X	X	X	X	X				X		97
DUP-TEL-01	Grab	GW		9/14/21	900	12	X	X	X	X	X	X				X		98
EB-TEL-01	Grab	GW		9/14/21	840	12	X	X	X	X	X	X				X		99
TRIP BLANK-REST-04	Grab	GW		9/15/21	—	1	X											100
TRIP BLANK-TEL-01	Grab	GW		9/14/21	—	1	X											101

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP __Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	9/15/21	1200	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: Yes / No
HCl / MeoH
TBR

Temp: 4.7°C Bottles Received: 18
2.6+0=2.6

Date: 9/16/21 Time: 9:52

If preservation required by Login: Date/Time

Hold: Condition: NCF / OK

Page 1304 of 1716

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505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Pres Chk

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com**

Project Description: **Artesia Fall 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **425135.0000.0000.**

Lab Project # **TRCATX-ARTESIA**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **(Navajo - Artesia)**

P.O. # **165614**

Collected by (signature): Scott Ude
Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page 17 of 19

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Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 1404404

Table #

Acctnum: TRCATX
Template: T194233
Prelogin: P870645
TSR: 526
PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260OXY - 40mlAmb HCl	DROLVI- 40mlAmb-HCl-BT	GRO - 40mlAmb HCl	Total Short List Metals 250mlHDPE-HNO3	Anions. TDS - 250mlHDPE-NoPres	NO2NO3 - 250mlHDPE-H2SO4	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	SVOCs/8270DIOXANE-100mlAmb-NoPres	Remarks	Sample # (lab only)
MW-139	Grab	GW		9/14/21	1600	12	X	X	X	X	X	X				X	1,4-D only	102
MW-50	Grab	GW		9/14/21	940	12	X	X		X	X	X			X	X	1,4-D only	103
MW-97	~~Grab~~	~~GW~~	unable	to locate,	as previous	~~12~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~				X	~~SVOCs only~~	
MW-92	~~Grab~~	~~GW~~		LNAPL		~~12~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~				X	~~1,4-D only~~	
MW-91	~~Grab~~	~~GW~~		LNAPL		~~12~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~				X	~~1,4-D only~~	
MW-90	Grab	GW		9/14/21	1100	12	X	X	X	X	X	X				X	1,4-D only	104
MW-96	Grab	GW		9/14/21	1200	10	X	X	X	X	X	X						105
MW-94	~~Grab~~	~~GW~~		LNAPL		~~12~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~				X	~~1,4-D only~~	
MW-67	~~Grab~~	~~GW~~		LNAPL		~~13~~	~~X~~	~~X~~	~~X~~		~~X~~	~~X~~	~~X~~	~~X~~		X	~~1,4-D only~~	
MW-55	Grab	GW		9/14/21	1420	11	X	X	X		X	X	X	X				106

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Scott Ude	9/15/21	1200		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 2.6 °C Bottles Received: 10
				If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 9/16/21 Time: 9:02
			K. Dolan	Hold: Condition: NCF / OK

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505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Pres Chk

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com**

Project Description: **Artesia Fall 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **425135.0000.0000.**

Lab Project # **TRCATX-ARTESIA**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **(Navajo - Artesia)**

P.O. # **165614**

Collected by (signature): Scott Ude

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Chain of Custody

Pace Analytical® National Center for Testing & Innovation
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L # 140404

Table #

Acctnum: **TRCATX**
Template: **T194233**
Prelogin: **P870645**
TSR: **526**
PB:

Shipped Via:

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260OXY - 40mlAmb HCl	DROLVI- 40mlAmb-HCl-BT	GRO - 40mlAmb HCl	Total Short List Metals 250mlHDPE-HNO3	Anions. TDS - 250mlHDPE-NoPres	NO2NO3 - 250mlHDPE-H2SO4	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
~~NCL-34A~~	~~Grab~~	~~GW~~		LNAPL	~~—~~	8	X	X		X	X	X						
NCL-33	Grab	GW		9/14/21	1030	8	X	X		X	X	X						107
NCL-44	Grab	GW		9/14/21	950	8	X	X		X	X	X						108
NCL-32	Grab	GW		9/14/21	910	8	X	X		X	X	X						109
MW-108	Grab	GW		9/14/21	1300	12	X	X		X	X	X			X	X		110
NCL-31	Grab	GW		9/14/21	1130	10	X	X		X	X	X				X		111
MW-54A	Grab	GW		9/14/21	1405	10	X	X		X	X	X				X		112
NCL-49	Grab	GW		9/14/21	1240	10	X	X		X	X	X				X		113
DUP-NCL-01	Grab	GW		9/14/21	1000	10	X	X		X	X	X				X		114
EB-NCL-01	Grab	GW		9/14/21	1255	10	X	X		X	X	X				X		115

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP Y __N
COC Signed/Accurate: Y __N
Bottles arrive intact: Y __N
Correct bottles used: Y __N
Sufficient volume sent: Y __N
If Applicable
VOA Zero Headspace: Y __N
Preservation Correct/Checked: Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	9/15/21	1200	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			K Neer

Trip Blank Received: Yes / No (HCL / MeoH TBR)

Temp: 4.8°C Bottles Received: 10/8
2.6+0=2.6

Date: 9/16/21 Time: 9:10

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Page 1306 of 1716

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Received by OCD: 1/9/2025 2:41:44 PM

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Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Pres Chk

Report to: **Julie Speer**

Email To: **jspeer@trccompanies.com**

Project Description: **Artesia Fall 2021**

City/State Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project # **425135.0000.0000.**

Lab Project # **TRCATX-ARTESIA**

Collected by (print): **Scott Ude/HMI Team**

Site/Facility ID # **(Navajo - Artesia)**

P.O. # **165614**

Collected by (signature): Scott Ude

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260OXY - 40mlAmb HCl	DROLVI- 40mlAmb-HCl-BT	GRO - 40mlAmb HCl	Total Short List Metals 250mlHDPE-HNO3	Anions. TDS - 250mlHDPE-NoPres	NO2NO3 - 250mlHDPE-H2SO4	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
TRIP BLANK-NCL-01	Grab	GW		9/14/21	—	1	X											116

Chain of Custody Page 19 of 19

Pace Analytical® National Center for Testing & Innovation
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 140466

Table #

Acctnum: **TRCATX**
Template: **T194233**
Prelogin: **P870645**
TSR: **526**
PB:

Shipped Via:

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Scott Ude	9/15/21	1200		9
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4.7°C Bottles Received: 2.6+0=2.6 1018
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) K. Holder	Date: 9/16/21 Time: 9:02

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Torkelson Geochemistry, Inc.
2528 South Columbia Place, Tulsa, Oklahoma 74114-3233
Voice 918-749-8441

August 31, 2021

TRC Solutions
Julie Speer
505 E. Huntland Dr.
Suite 250
Austin, TX 78752

Subject: Hydrocarbon fingerprint analysis and evaluation of six product samples from the HFNR Artesia PSH Characterization (454821.00000) project, HFNR Navajo Refining, 501 E. Main Street, Artesia, New Mexico.

Introduction

Six product samples were submitted to Torkelson Geochemistry by TRC Solutions for hydrocarbon fingerprint (capillary gas chromatography) analysis and interpretation of results, see chain of Custody, Figure 1.

The following are my interpretations/opinions of the data. Please keep in mind that these interpretations are made without any hands on knowledge of the site or other analyses done on the samples. In addition, the petroleum in the samples has probably been altered/weathered which can make an accurate interpretation of product type somewhat more difficult since some of the key features of the product may have been altered or removed by the evaporation, water washing and perhaps bacterial processes.

Discussion of Results

The Dup-1 product sample appears to be a moderately weathered middle distillate probably either diesel fuel or fuel oil. The gas chromatogram of the Dup-1 sample (Figures 2 and 9) shows a series of peaks that starts at about normal heptane (nC7) and continues to about nC27 and a large unresolved hump that starts at about nC9, reaches a maximum at about nC14 or nC15 and continues to about nC27. These peaks and unresolved hump are in the middle distillate range (about nC8 to nC25. The peaks and unresolved hump in the middle distillate range are most likely a moderately weathered middle distillate possibly either diesel fuel or fuel oil. The weathering appears to be primarily biodegradation which selectively reduces the size of the normal paraffin peaks (labeled nC8 to nC25) relative to other peaks such as the isoprenoid peaks (labeled IP13, IP14, IP15, IP16, IP18, Pristane and Phytane). Based on the degree of biodegradation and the technique first developed by Christensen and Larsen (1993) and later confirmed and expanded upon by Schmidt, Beckmann and Torkelson (1999) and Hurst and Schmidt (2005) the Dup-1 sample is estimated to have been released about 4 +/-2 years ago.

The KWB-1B product sample appears to be a mixture of extremely weathered middle distillate probably either diesel fuel or fuel oil and an unidentified light material perhaps a naphtha of some sort. The gas chromatogram of the KWB-1B sample (Figures 3 and 10) shows a series of peaks that starts at about isopentane (iC5) and continues to about nC22 and a large unresolved hump that starts at about nC9, reaches a maximum at about nC13 or nC14 and continues to about nC22. These peaks and unresolved hump are in the gasoline range (nC4 to about nC14) and the middle distillate range (about nC8 to nC25). The peaks in the gasoline range are not gasoline and may be naphtha of some sort. Without a more specific identification an estimate of the degree of weathering or age estimate can not be made for the gasoline range. The peaks and unresolved hump in the middle distillate range are most likely an extremely weathered middle distillate possibly extremely weathered diesel fuel or fuel oil. The weathering appears to be predominantly biodegradation which has selectively reduced the size of the normal paraffin peaks (labeled nC8 to nC25) relative to other peaks such as the isoprenoid peaks (labeled IP13, IP14, IP15, IP16, IP18, Pristane and Phytane). Based on the degree of biodegradation and the technique

first developed by Christensen and Larsen (1993) and later confirmed and expanded upon by Schmidt, Beckmann and Torkelson (1999) and Hurst and Schmidt (2005) the middle distillate portion of the KWB-1B sample is estimated to have been released about 19 +/-2 years ago.

The MW-23 product sample appears to be a mixture of an unknown gasoline range material and an extremely weathered middle distillate probably either diesel fuel or fuel oil. The gas chromatogram of the MW-23 sample (Figures 4 and 11) shows a series of peaks that starts at normal butane (nC4) and continues to about nC24 and a large unresolved hump that starts at about nC9, reaches a maximum at about nC14 or nC15 and continues to about nC24. These peaks and unresolved hump are in the gasoline range (nC4 to about nC14) and the middle distillate range (about nC8 to nC25). The peaks in the gasoline range are the types of peaks (compounds) typically found in gasoline but the relative proportions differ significantly, specifically the normal paraffin peaks (nC7, nC8, nC9 and nC10) are much larger than usually found in gasoline. The exact identity of the gasoline portion of the MW-23 sample is not obvious.. The peaks and unresolved hump in the middle distillate range are most likely an extremely weathered middle distillate possibly extremely weathered diesel fuel or fuel oil. The weathering appears to be predominantly biodegradation which has selectively reduced the size of the normal paraffin peaks (labeled nC8 to nC25) relative to other peaks such as the isoprenoid peaks (labeled IP13, IP14, IP15, IP16, IP18, Pristane and Phytane). Based on the degree of biodegradation and the technique first developed by Christensen and Larsen (1993) and later confirmed and expanded upon by Schmidt, Beckmann and Torkelson (1999) and Hurst and Schmidt (2005) the middle distillate portion of the MW-23 sample is estimated to have been released about 17 +/-2 years ago.

The MW-66 product sample appears to be a mixture of extremely weathered middle distillate probably either jet fuel or kerosene and an unidentified light material perhaps a naphtha of some sort. The gas chromatogram of the MW-66 sample (Figures 5 and 12) shows a series of peaks that starts at about normal butane (nC4) and continues to about nC22 and a large unresolved hump that starts at about nC9, reaches a maximum at about nC12 or nC13 and continues to about nC22. These peaks and unresolved hump are in the gasoline range (nC4 to about nC14) and the middle distillate range (about nC8 to nC25). The peaks in the gasoline range are not gasoline and may be naphtha of some sort. Without a more specific identification an estimate of the degree of weathering or age estimate can not be made for the gasoline range. The peaks and unresolved hump in the middle distillate range are most likely an extremely weathered middle distillate possibly extremely weathered jet fuel or kerosene. The weathering appears to be predominantly biodegradation which has selectively reduced the size of the normal paraffin peaks (labeled nC8 to nC25) relative to other peaks such as the isoprenoid peaks (labeled IP13, IP14, IP15, IP16, IP18, Pristane and Phytane). Based on the degree of biodegradation and the technique first developed by Christensen and Larsen (1993) and later confirmed and expanded upon by Schmidt, Beckmann and Torkelson (1999) and Hurst and Schmidt (2005) the middle distillate portion of the MW-66 sample is estimated to have been released about 19 +/-2 years ago.

The MW-95 product sample appears to be a mixture of an unknown gasoline range material and an extremely weathered middle distillate probably either diesel fuel or fuel oil. The gas chromatogram of the MW-95 sample (Figures 6 and 13) shows a series of peaks that starts at normal pentane (nC5) and continues to about nC24 and a large unresolved hump that starts at about nC9, reaches a maximum at about nC16 and continues to about nC24. These peaks and unresolved hump are in the gasoline range (nC4 to about nC14) and the middle distillate range (about nC8 to nC25). The peaks in the gasoline range are the types of peaks (compounds) typically found in gasoline but the relative proportions differ significantly. Specifically the normal paraffin peaks (nC7, nC8, nC9 and nC10) are much larger than usually found in gasoline. The exact identity of the gasoline portion of the MW-23 sample is not obvious.. The peaks and unresolved hump in the middle distillate range are most likely an extremely weathered middle distillate possibly extremely weathered diesel fuel or fuel oil. The weathering appears to be predominantly biodegradation which has selectively reduced the size of the normal paraffin peaks (labeled nC8 to nC25) relative to other peaks such as the isoprenoid peaks (labeled IP13, IP14, IP15, IP16, IP18, Pristane and Phytane). Based on the degree of biodegradation and the technique first developed by Christensen and Larsen (1993) and later confirmed and expanded upon by Schmidt, Beckmann and Torkelson (1999) and Hurst and Schmidt (2005) the middle distillate portion of the MW-95 sample is estimated to have been released about 20 +/-2 years ago.

The RW-10 product sample appears to be a moderately weathered middle distillate probably either diesel fuel or fuel oil. The gas chromatogram of the RW-10 sample (Figures 7 and 14) shows a series of peaks that starts at about normal heptane (nC7) and continues to about nC27 and a large unresolved hump that starts at about nC9, reaches a maximum at about nC14 or nC15 and continues to about nC27. These peaks and unresolved hump are in the middle distillate range (about nC8 to nC25. The peaks and unresolved hump in the middle distillate range are most likely a moderately weathered middle distillate possibly either diesel fuel or fuel oil. The weathering appears to be primarily biodegradation which selectively reduces the size of the normal paraffin peaks (labeled nC8 to nC25) relative to other peaks such as the isoprenoid peaks (labeled IP13, IP14, IP15, IP16, IP18,

Pristane and Phytane). Based on the degree of biodegradation and the technique first developed by Christensen and Larsen (1993) and later confirmed and expanded upon by Schmidt, Beckmann and Torkelson (1999) and Hurst and Schmidt (2005) the RW-10 sample is estimated to have been released about 4 +/-2 years ago.

Comparison of Samples

The gas chromatograms of the Dup-1 and RW-10 samples are almost identical to each other. The gas chromatograms of the other four samples are all different from each other in some way. These differences are probably due to the origin or origins of the samples and to some degree differences in degree or type of weathering.

Please let me know if you have any questions.

Bruce Torkelson

Christensen, L. B. and Larsen, T. H., "Method for Determining the Age of Diesel Oil Spills in the Soil, Ground Water Monitoring and Remediation," Vol.. 13, No. 4, pp. 1420-149 (1993).

Schmidt, G.W., Beckmann, D.D., and Torkelson, B.E., "Advances in Correlation and Age Dating of Petroleum Products Released to Soils and Groundwater", proceedings of the IPEC meeting, Houston, TX, November, 1999.

Hurst, R.W. and Schmidt, G.W., "Age significance of nC17/Pr ratios in forensic investigations of refined product and crude oil releases", Environmental Geosciences, Vol 12, No. 3, September 2005, pp. 177-192.

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Torkelson Geochemistry, Inc.

CHAIN-OF-CUSTODY RECORD

2528 S. Columbia Place
Tulsa, OK 74114-3233
Phone: 918-749-8441
Fax: 918-749-6005
e-mail: BTorkelson@torkelsongeochemistry.com

Project: HFNR Artesia PSH Characterization (454821.00000)
Location: HFNR Navajo Refining
501 E Main St. Arteisa, NM

Proj. No.: 454821.0000.0000
P.O.:
Sampled By: [illegible]

Report/Bill To: Julie Speer; jspeer@trccompanies.con
Address: 505 E. Huntland Dr., Ste 250
Austin, TX 78752

Phone: 512-431-8184
Fax:
e-mail: jspeer@trccomapnies.com;
dhelbert@trccompanies.com

Additional Instructions

Requested Turn-Around Time: Standard

ITEM NO.	SAMPLE DESCRIPTION	DATE	MATRIX	LAB NO.	Total # OF Vials	PRESERVATIVES: None	ANALYSES REQUESTED: GC Characterization	Density	Viscosity	Water Surface Tension	NAPL Surface Tension	NAPL/Water Interfac. Tens.	Lead	Sulfur	REMARKS
1	MW-95	8/4/21	W		2		x								12:12
2	MW-66	"	"		2		x								13:45
3	RWB-1B	"	"		2		x								14:45
4	RW Standpipe	8/4/21	"		2		x								[illegible]
5	MW-23	"	"		2		x								9:15
6	Dup-1	[illegible]	"		2		x								[illegible]
7															
8															
9															
10															

RELINQUISHED BY	DATE	TIME	ACCEPTED BY	DATE	TIME
[signature]	8/4/21	1615	[signature]	8/4/21	1644
[signature]	8/5/21	1200	Bruce Torkelson	8-5-21	1200

Figure 1, Chain of Custody.

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Torkelson Geochemistry, Inc.
GC/FID

HFNR Artesia PSH Characterization (454821.00000)
HFNR Navajo Refining, 501 E. Main St., Artesia, NM
Sample ID : Dup-1
Acquired : Aug 11, 2021 12:49:22

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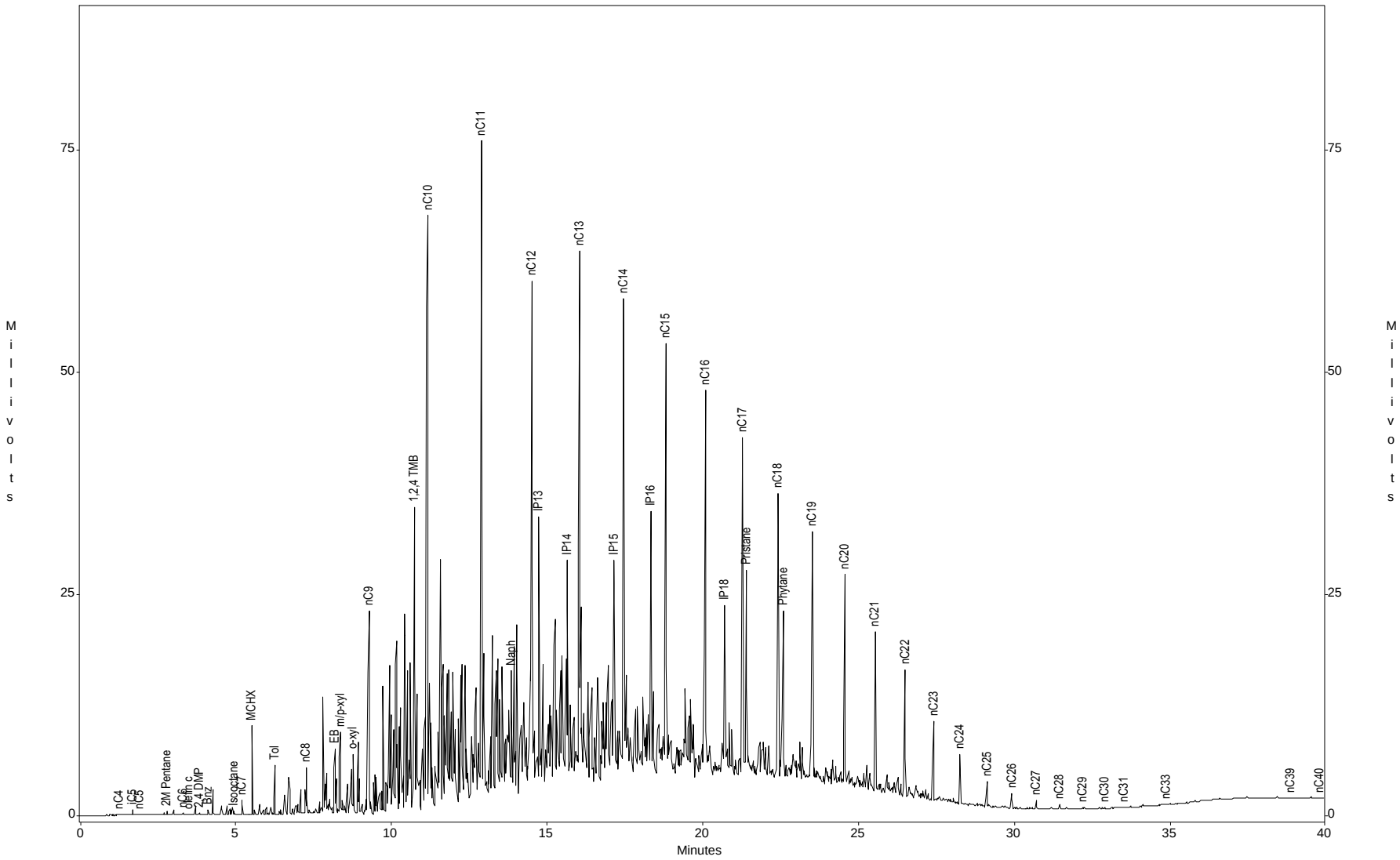


Figure 2, Gas chromatogram of the Dup-1 product sample.

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Torkelson Geochemistry, Inc.
GC/FID

HFNR Artesia PSH Characterization (454821.00000)
HFNR Navajo Refining, 501 E. Main St., Artesia, NM
Sample ID : KWB-1B
Acquired : Aug 11, 2021 13:38:32

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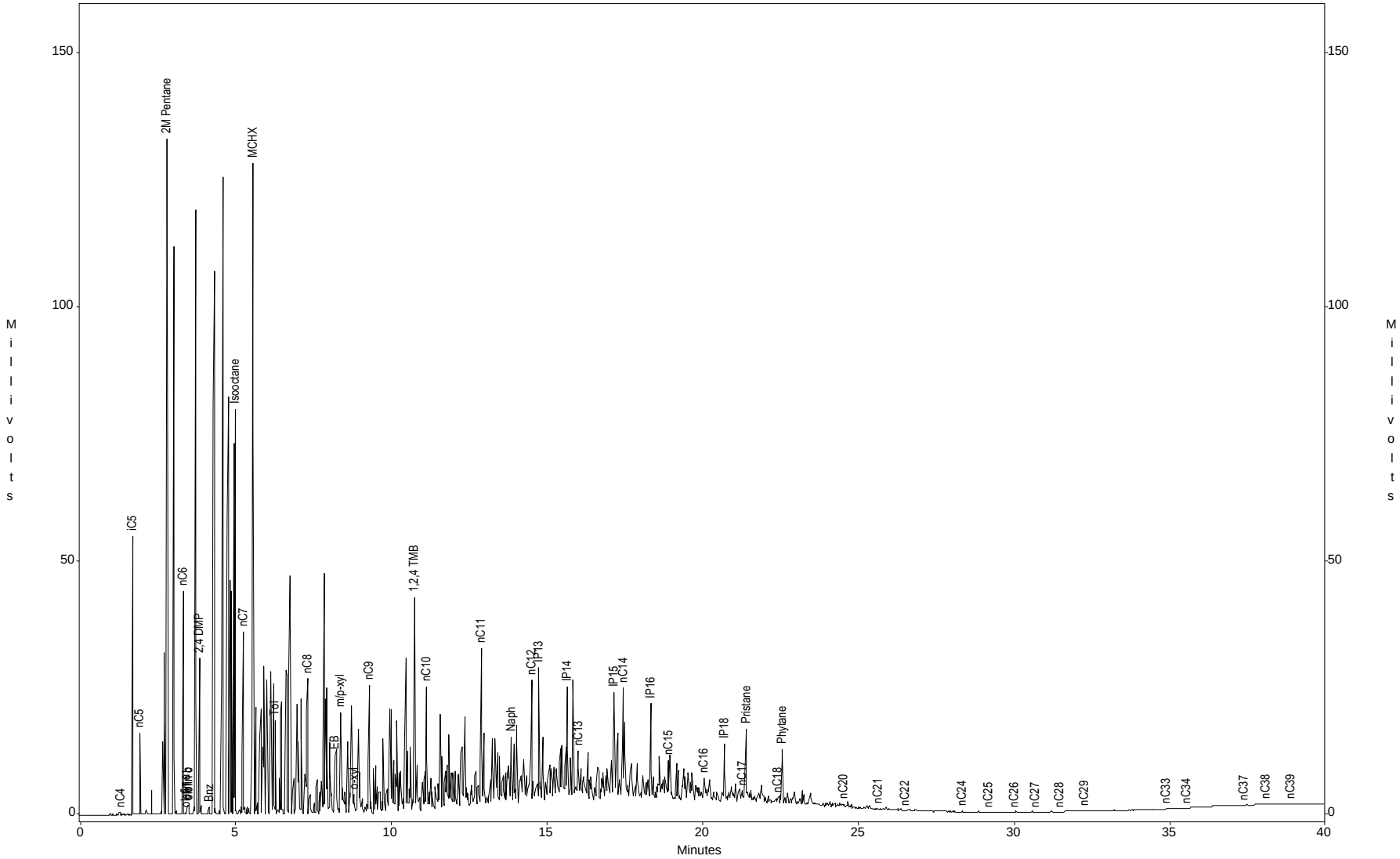


Figure 3, Gas chromatogram of the KWB-1B product sample.

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Torkelson Geochemistry, Inc.
GC/FID

HFNR Artesia PSH Characterization (454821.00000)
HFNR Navajo Refining, 501 E. Main St., Artesia, NM
Sample ID : MW-23
Acquired : Aug 11, 2021 14:28:10

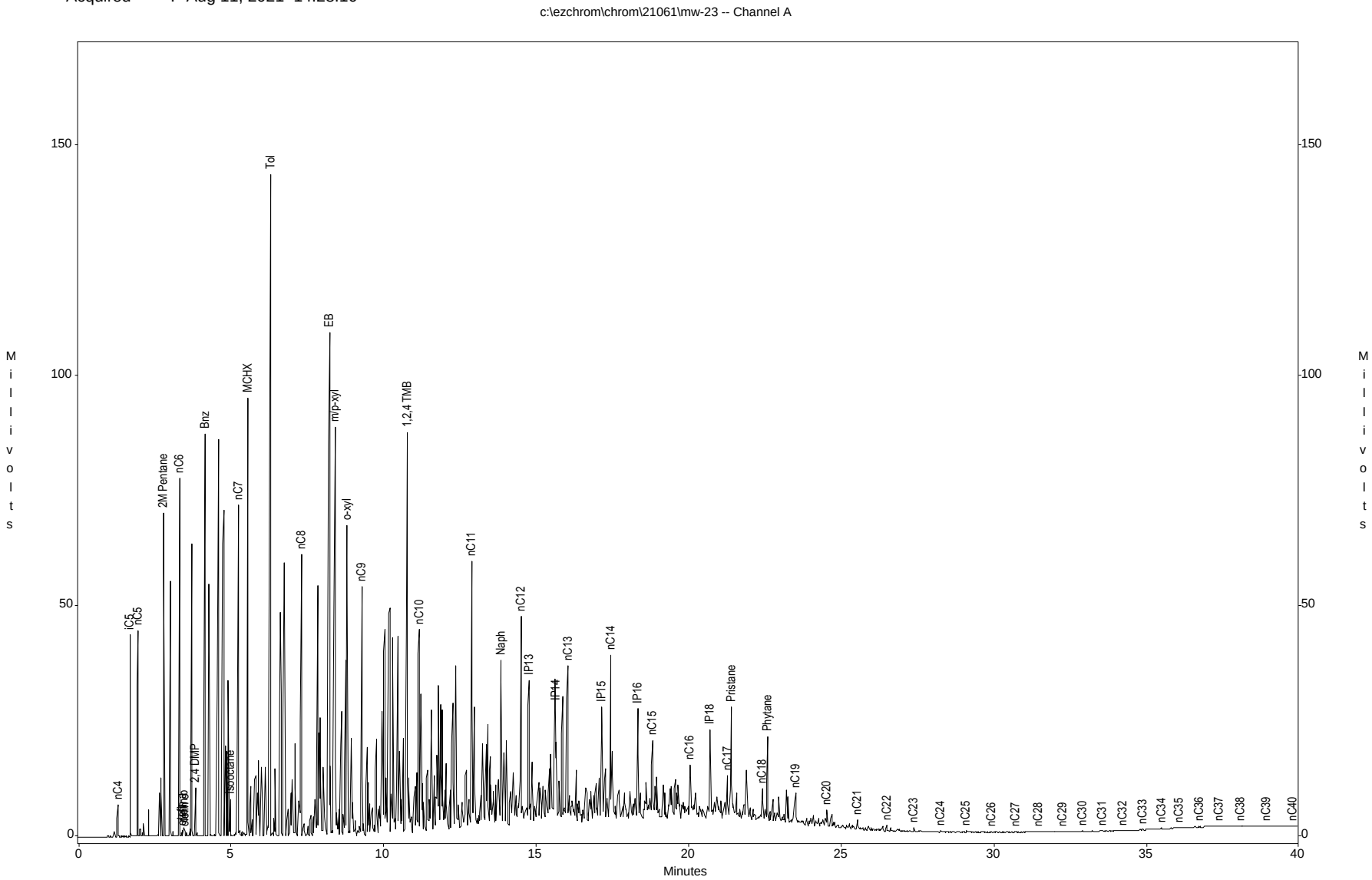


Figure 4, Gas chromatogram of the MW-23 product sample.

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HFNR Artesia PSH Characterization (454821.00000)
HFNR Navajo Refining, 501 E. Main St., Artesia, NM
Sample ID : MW-66
Acquired : Aug 11, 2021 15:17:11

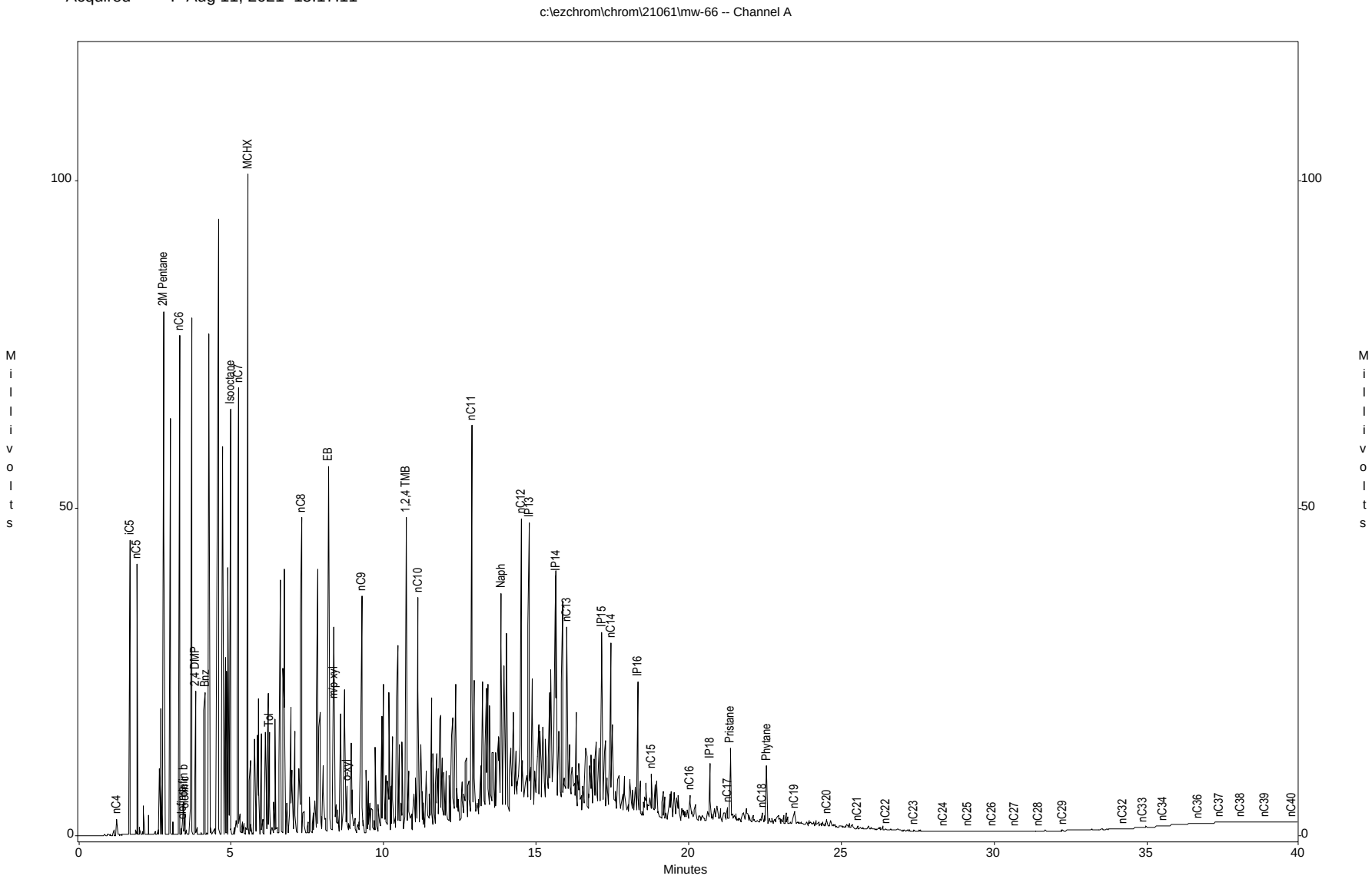


Figure 5, Gas chromatogram of the MW-66 product sample.

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Torkelson Geochemistry, Inc.
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HFNR Artesia PSH Characterization (454821.00000)
HFNR Navajo Refining, 501 E. Main St., Artesia, NM
Sample ID : MW-95
Acquired : Aug 11, 2021 11:49:16

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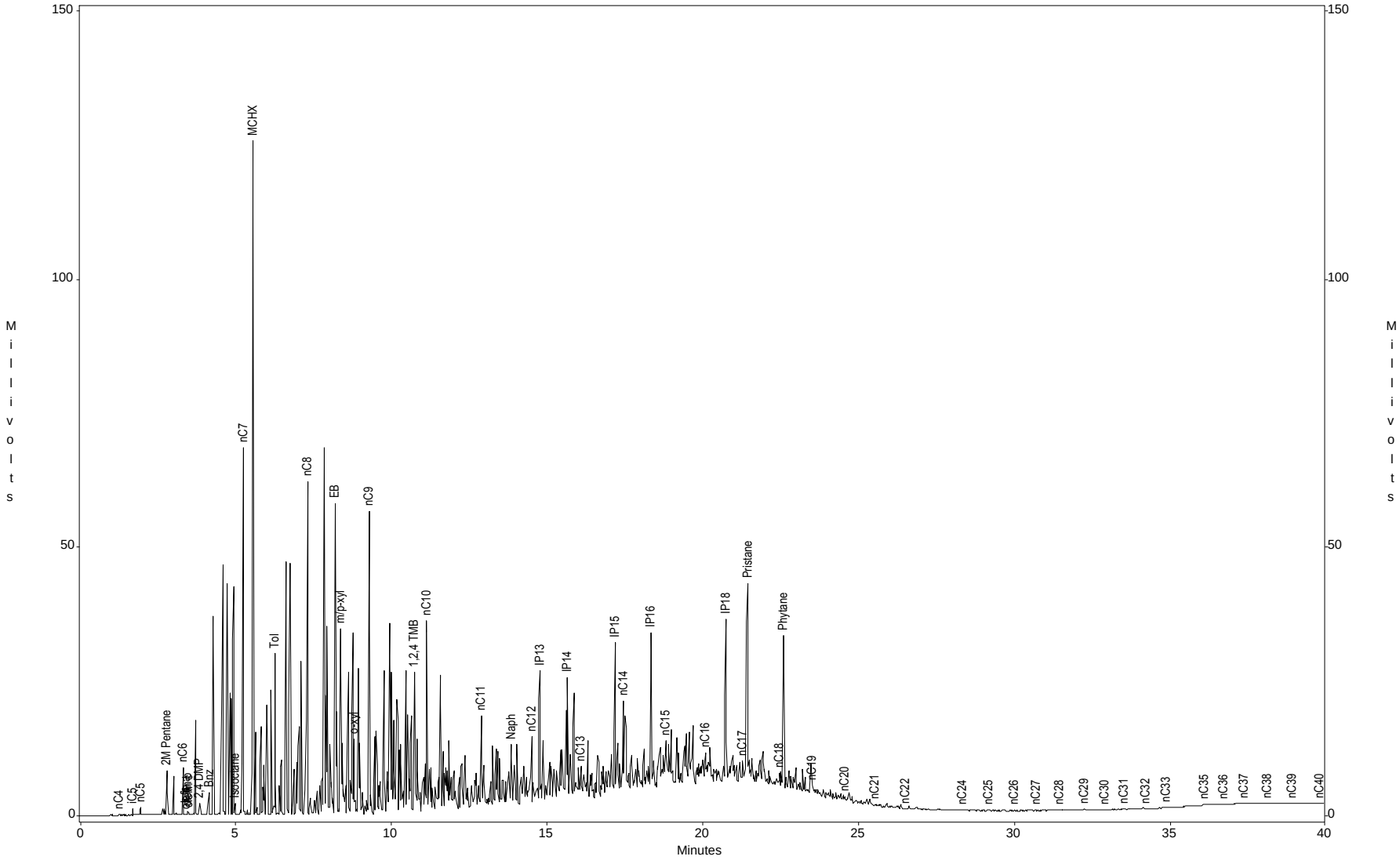


Figure 6, Gas chromatogram of the MW-95 product sample.

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HFNR Artesia PSH Characterization (454821.00000)
HFNR Navajo Refining, 501 E. Main St., Artesia, NM
Sample ID : RW-10
Acquired : Aug 11, 2021 11:00:21

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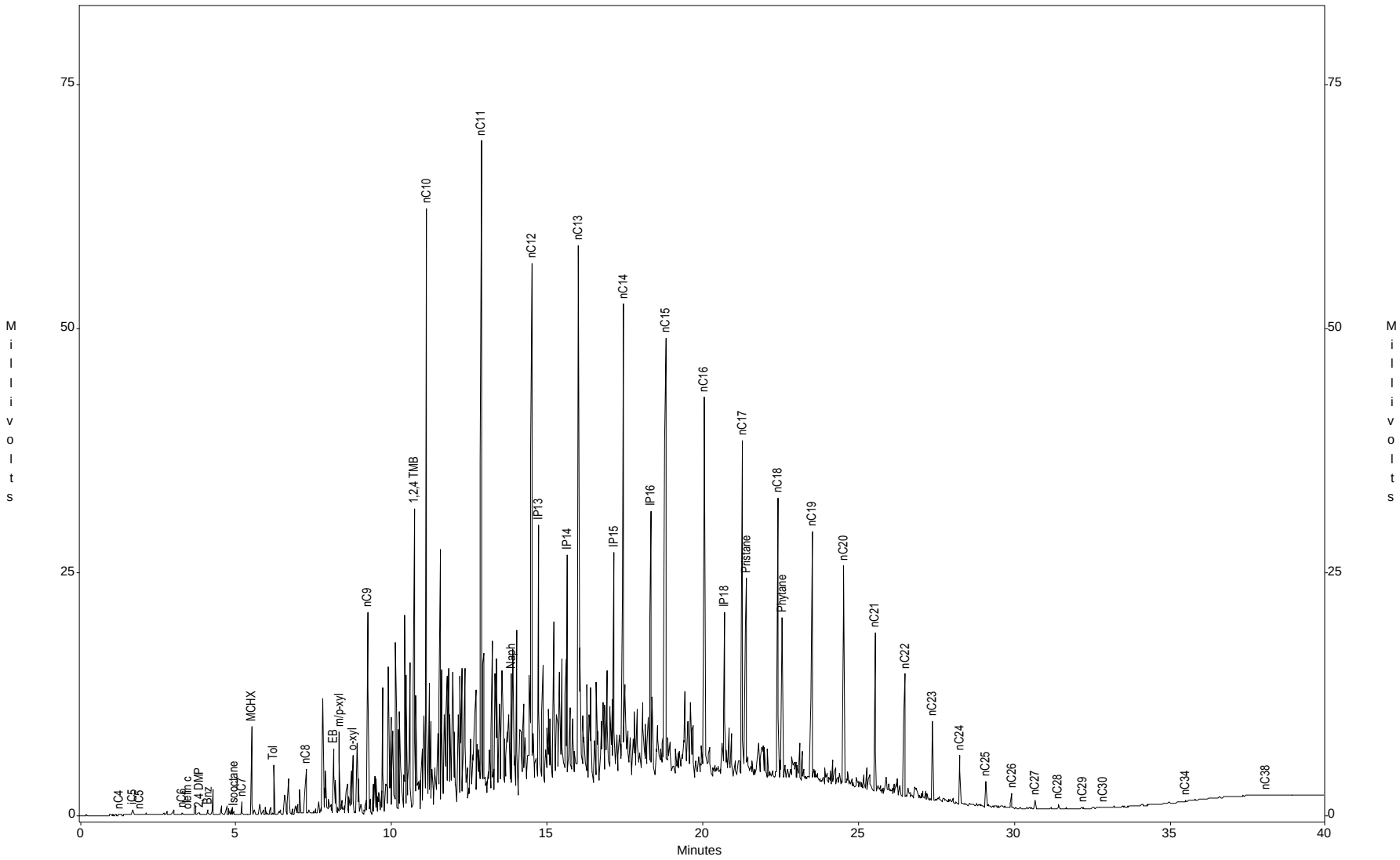


Figure 7, Gas chromatogram of the RW-10 product sample.

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HFNR Artesia PSH Characterization (454821.00000)
HFNR Navajo Refining, 501 E. Main St., Artesia, NM
Sample ID : Gas/Dies/Wax std
Acquired : Aug 11, 2021 10:10:45

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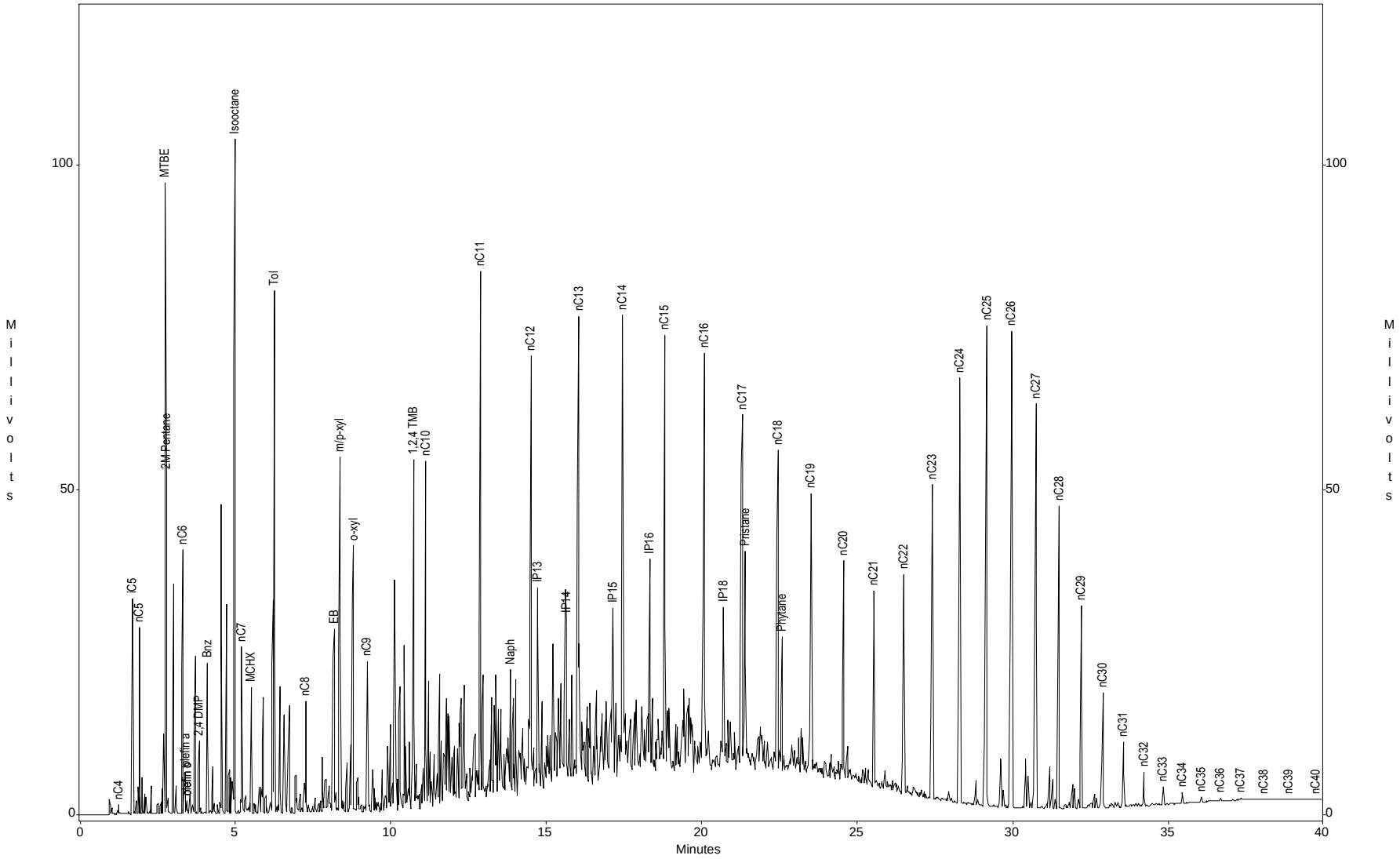


Figure 8, Gas chromatogram of laboratory standard (gasoline/diesel/wax mixture).

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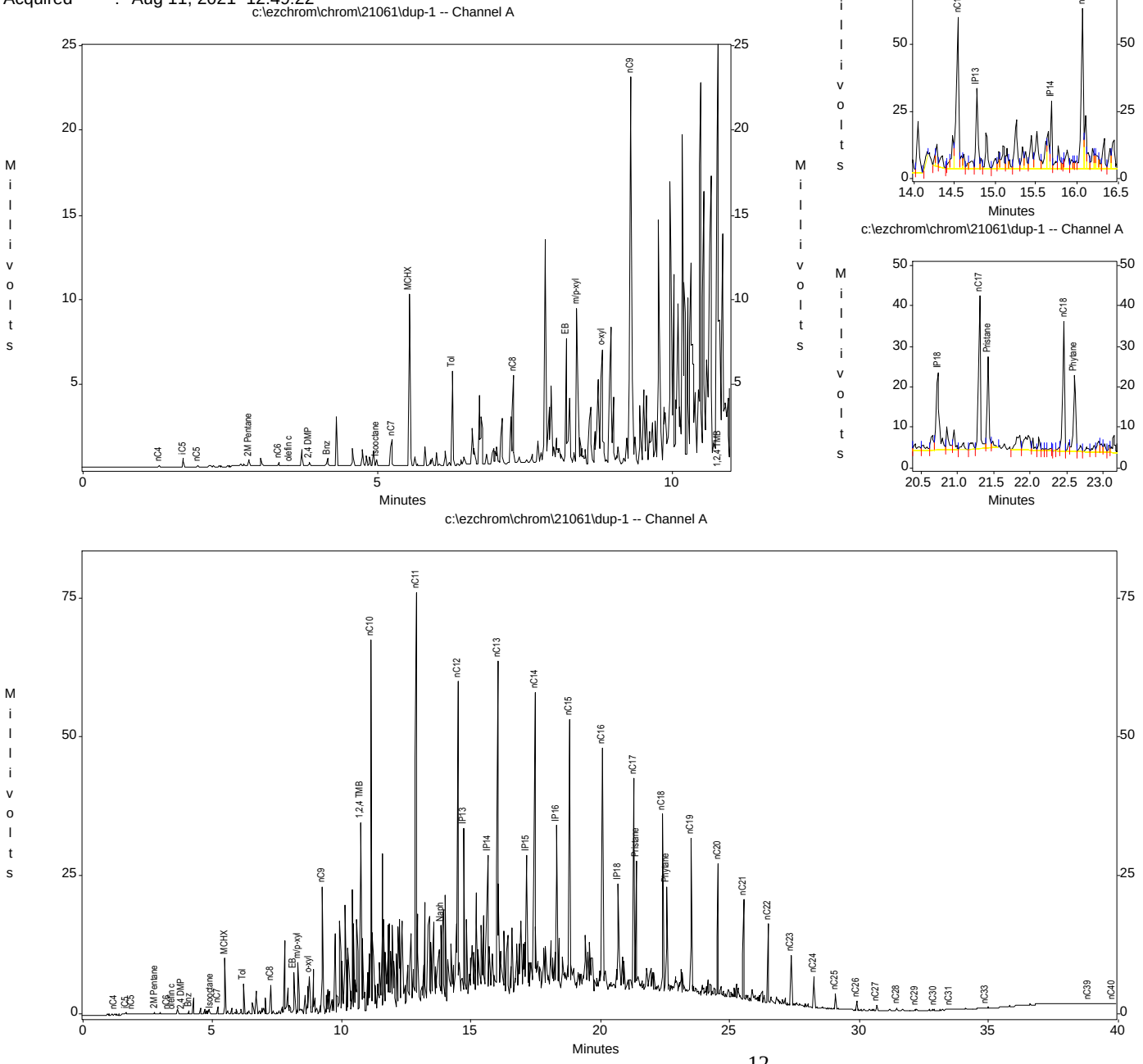
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HFNR Artesia PSH Characterization (454821.00000)
HFNR Navajo Refining, 501 E. Main St., Artesia, NM
Sample ID : Dup-1
Acquired : Aug 11, 2021 12:49:22



Channel A Results

Peak	Area	Height
nC4	71	94
iC5	361	491
nC5	70	90
MTBE	0	0
2M Pentane	387	416
nC6	216	222
olefin a	0	0
olefin b	0	0
olefin c	13	12
2,4 DMP	184	174
Bnz	512	478
Isooctane	388	335
nC7	1680	1486
MCHX	11995	10064
Tol	6585	5536
nC8	6232	5170
EB	9451	7252
m/p-xyl	15811	9138
o-xyl	11836	6643
nC9	41261	22792
1,2,4 TMB	56326	34090
nC10	116832	66780
nC11	139533	74212
Naph	22886	13982
nC12	105740	56309
IP13	47036	29711
IP14	37530	24827
nC13	119470	59862
IP15	51186	24639
nC14	120709	54039
IP16	60790	29731
nC15	105160	48478
nC16	92058	43561
IP18	53702	19172
nC17	71978	37709
Pristane	45150	22544
nC18	59959	32101
Phytane	40060	18939
nC19	54868	28211
nC20	43113	23806
nC21	31053	18090
nC22	23911	14351
nC23	14386	8950
nC24	8951	5611
nC25	5671	2850
nC26	2768	1675
nC27	1610	890
nC28	807	441
nC29	268	179
nC30	135	79
nC31	11	3
nC32	0	0
nC33	74	29
nC34	0	0
nC35	0	0
nC36	0	0
nC37	0	0
nC38	0	0
nC39	81	15
nC40	23	41

Figure 9, Multipanel display of gas chromatogram of the Dup-1 product sample.

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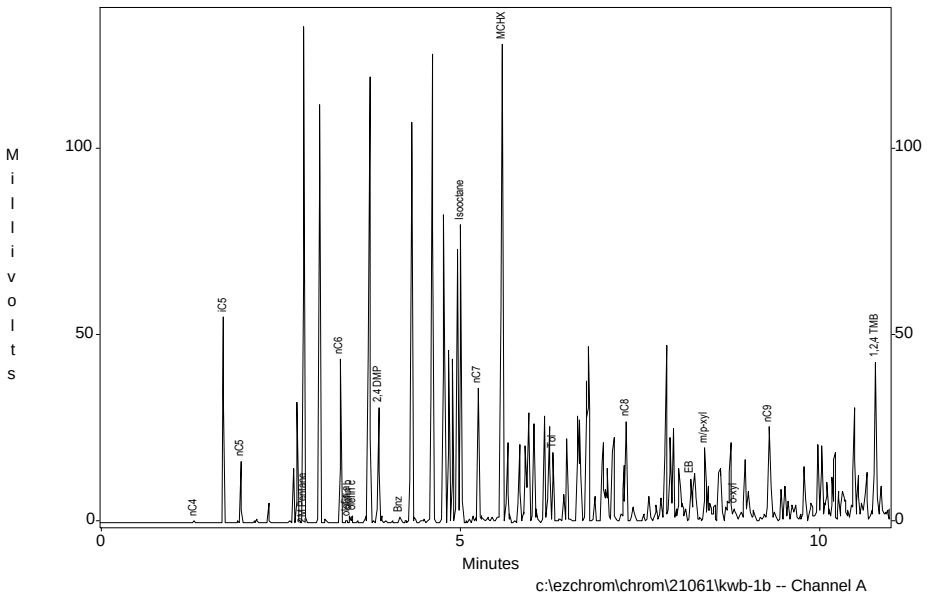
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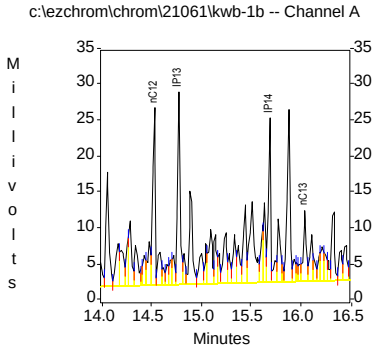
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HFNR Artesia PSH Characterization (454821.00000)
HFNR Navajo Refining, 501 E. Main St., Artesia, NM
Sample ID : KWB-1B
Acquired : Aug 11, 2021 13:38:32

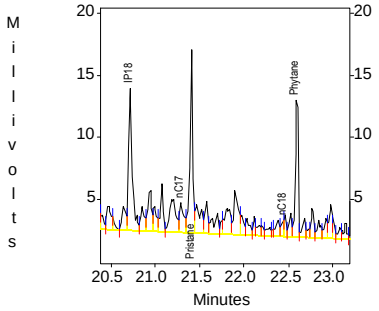
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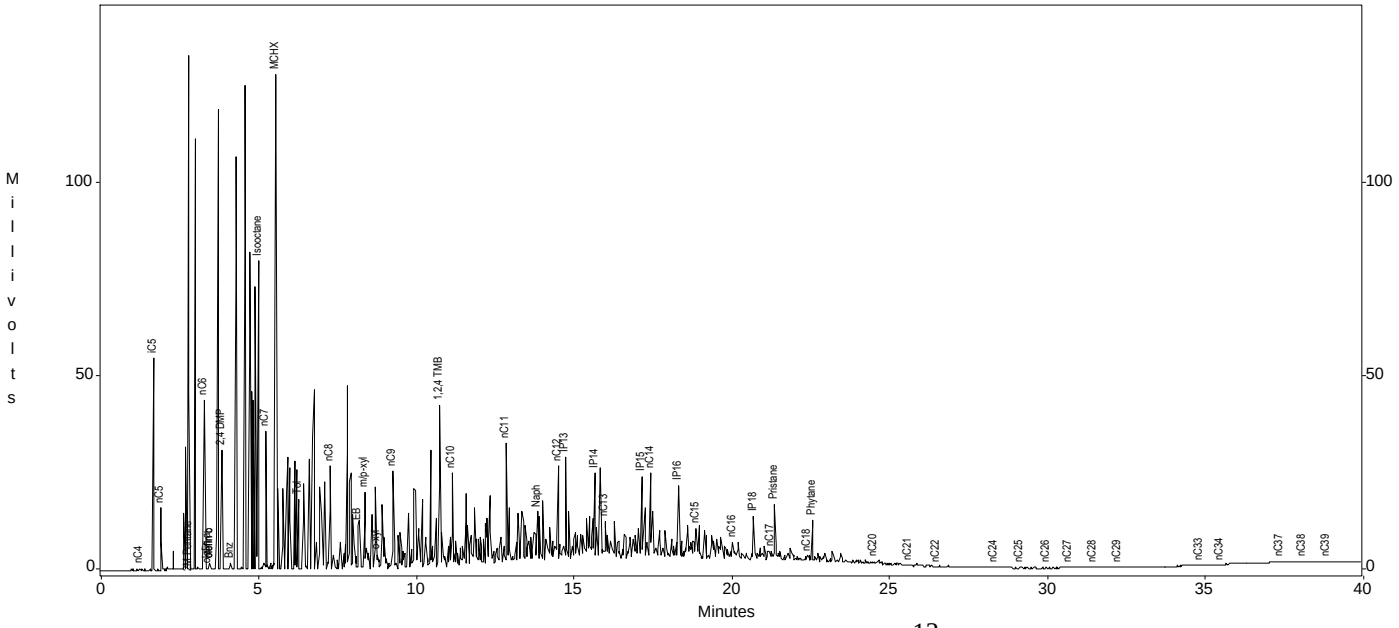
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c:\ezchrom\chrom\21061\kwb-1b -- Channel A



c:\ezchrom\chrom\21061\kwb-1b -- Channel A



Channel A Results

Peak	Area	Height
nC4	225	415
iC5	35612	54819
nC5	11309	16124
MTBE	0	0
2M Pentane	138650	132934
nC6	42996	43925
olefin a	460	343
olefin b	1588	1615
olefin c	1838	1731
2,4 DMP	32868	30764
Bnz	2166	1365
Isooctane	103197	79668
nC7	43835	35838
MCHX	220487	128199
Tol	22635	18220
nC8	33290	26598
EB	15743	11431
m/p-xyl	26632	19806
o-xyl	9650	3633
nC9	52610	25257
1,2,4 TMB	72795	40983
nC10	38101	24374
nC11	50269	31332
Naph	25963	13368
nC12	37160	24562
IP13	44985	26840
IP14	34809	22775
nC13	18920	9961
IP15	33908	20481
nC14	33489	18543
IP16	32008	18295
nC15	15333	7382
nC16	10421	4442
IP18	29888	11419
nC17	7397	2301
Pristane	32461	14681
nC18	2269	1293
Phytane	23241	10931
nC19	0	0
nC20	1679	563
nC21	409	211
nC22	384	79
nC23	0	0
nC24	284	85
nC25	359	60
nC26	134	35
nC27	146	56
nC28	111	23
nC29	292	146
nC30	0	0
nC31	0	0
nC32	0	0
nC33	51	29
nC34	100	44
nC35	0	0
nC36	0	0
nC37	44	16
nC38	45	13
nC39	21	8
nC40	0	0

Figure 10, Multipanel display of gas chromatogram of the KWB-1B product sample.

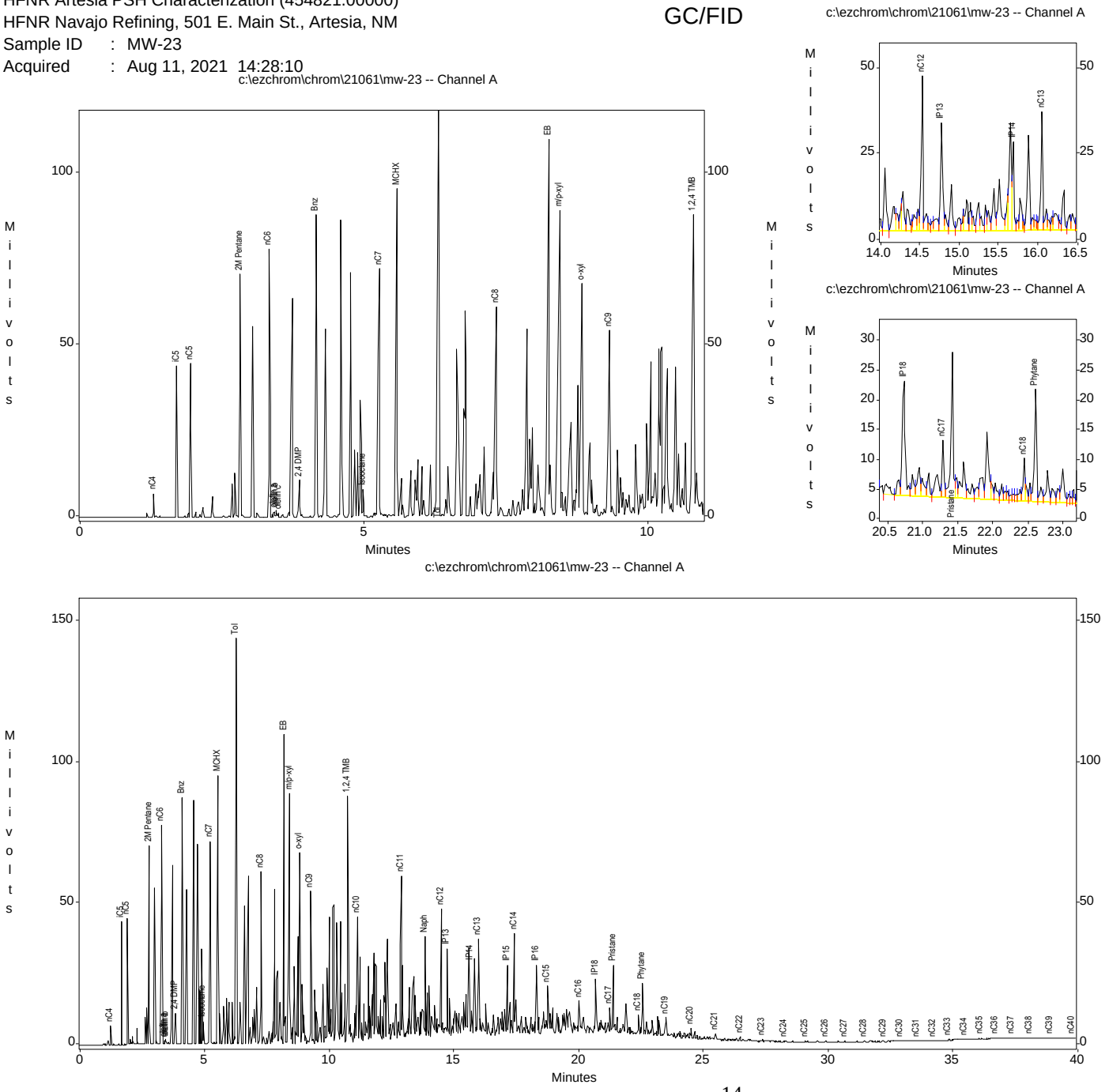
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Torkelson Geochemistry, Inc.

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HFNR Artesia PSH Characterization (454821.00000)
HFNR Navajo Refining, 501 E. Main St., Artesia, NM
Sample ID : MW-23
Acquired : Aug 11, 2021 14:28:10



Channel A Results

Peak	Area	Height
nC4	3560	6728
iC5	28496	43769
nC5	30692	44730
MTBE	0	0
2M Pentane	65609	70305
nC6	80945	77732
olefin a	1425	1288
olefin b	1730	1804
olefin c	1182	1107
2,4 DMP	11364	10686
Bnz	105139	87455
Isooctane	9053	8000
nC7	99372	71925
MCHX	144607	95003
Tol	158386	143553
nC8	90279	60901
EB	228963	109045
m/p-xyl	227064	88083
o-xyl	122267	67336
nC9	93895	53899
1,2,4 TMB	198094	86962
nC10	71845	44116
nC11	110514	57213
Naph	57228	35921
nC12	79788	45158
IP13	53907	31372
IP14	35977	25544
nC13	59991	34098
IP15	40235	24354
nC14	66323	35523
IP16	45251	23986
nC15	28878	15295
nC16	23630	10768
IP18	48516	19048
nC17	16454	9397
Pristane	57377	24338
nC18	14245	7193
Phytane	40651	18708
nC19	14051	6959
nC20	7556	3793
nC21	5541	2337
nC22	2803	1417
nC23	1674	943
nC24	972	546
nC25	704	431
nC26	607	337
nC27	735	301
nC28	659	279
nC29	328	181
nC30	319	150
nC31	243	145
nC32	295	158
nC33	526	213
nC34	182	122
nC35	219	101
nC36	179	97
nC37	155	64
nC38	228	72
nC39	239	65
nC40	213	61

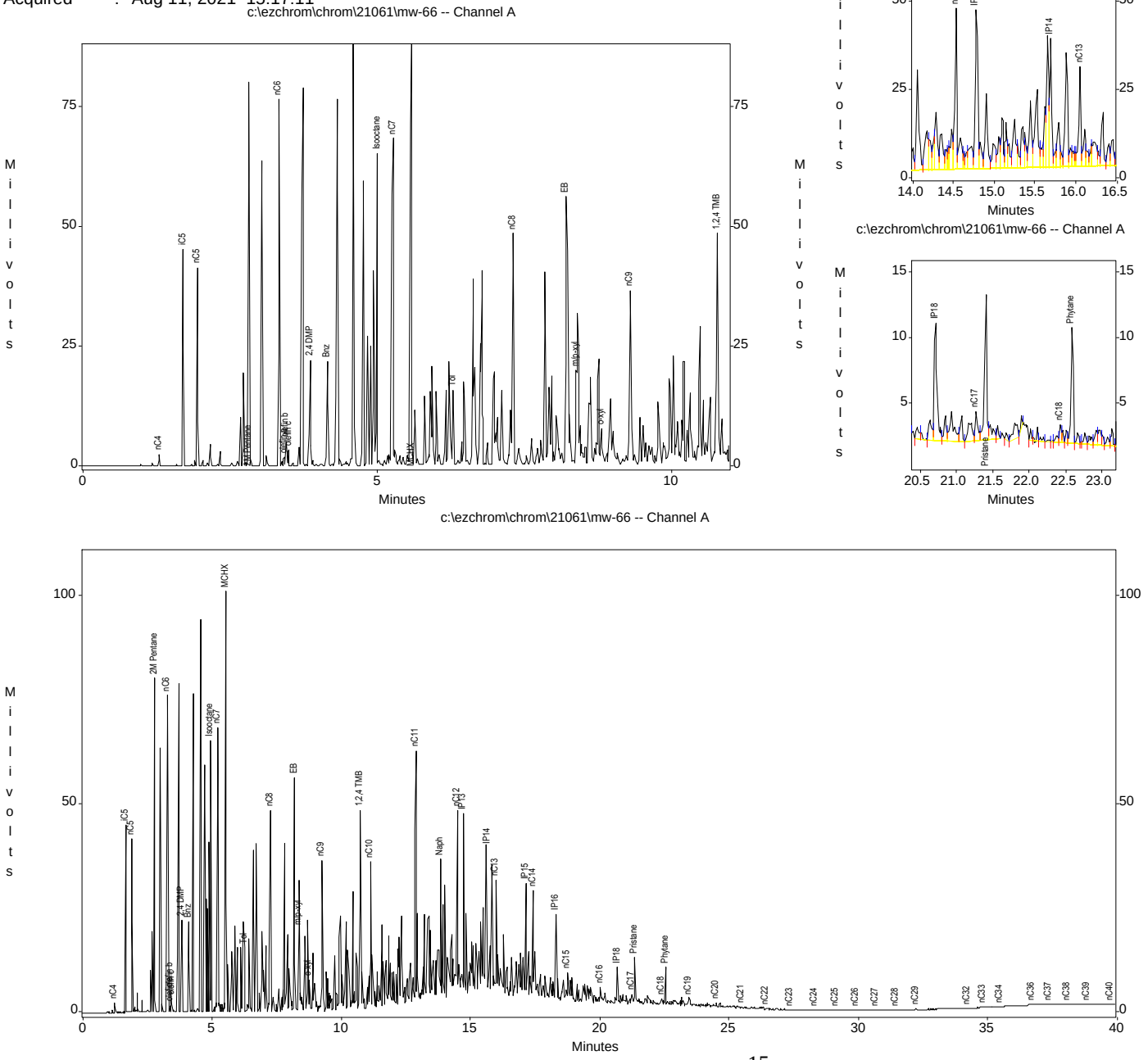
Figure 11, Multipanel display of gas chromatogram of the MW-23 product sample.

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Torkelson Geochemistry, Inc.

GC/FID

HFNR Artesia PSH Characterization (454821.00000)
HFNR Navajo Refining, 501 E. Main St., Artesia, NM
Sample ID : MW-66
Acquired : Aug 11, 2021 15:17:11



Channel A Results

Peak	Area	Height
nC4	1177	2276
iC5	29106	45049
nC5	28311	41420
MTBE	0	0
2M Pentane	77108	80055
nC6	79487	76237
olefin a	1881	1539
olefin b	4872	5053
olefin c	3372	3174
2,4 DMP	23455	22009
Bnz	26821	21705
Isooctane	83081	65044
nC7	94365	68343
MCHX	156160	100908
Tol	22954	15569
nC8	66685	48405
EB	91266	56118
m/p-xyl	24687	19760
o-xyl	15182	7334
nC9	64268	36170
1,2,4 TMB	90221	47701
nC10	55531	35403
nC11	117597	60986
Naph	62175	34786
nC12	83483	45817
IP13	83099	45198
IP14	54795	36480
nC13	53299	28570
IP15	46667	27178
nC14	49651	25517
IP16	38487	20262
nC15	10976	5503
nC16	8079	3799
IP18	23554	8904
nC17	5118	2236
Pristane	22712	11027
nC18	2287	1407
Phytane	17431	8804
nC19	3230	1621
nC20	2243	1036
nC21	905	412
nC22	632	240
nC23	319	138
nC24	243	74
nC25	355	50
nC26	85	46
nC27	141	67
nC28	149	45
nC29	485	137
nC30	0	0
nC31	0	0
nC32	69	41
nC33	93	51
nC34	67	46
nC35	0	0
nC36	36	22
nC37	62	26
nC38	85	19
nC39	109	51
nC40	27	10

Figure 12, Multipanel display of gas chromatogram of the MW-66 product sample.

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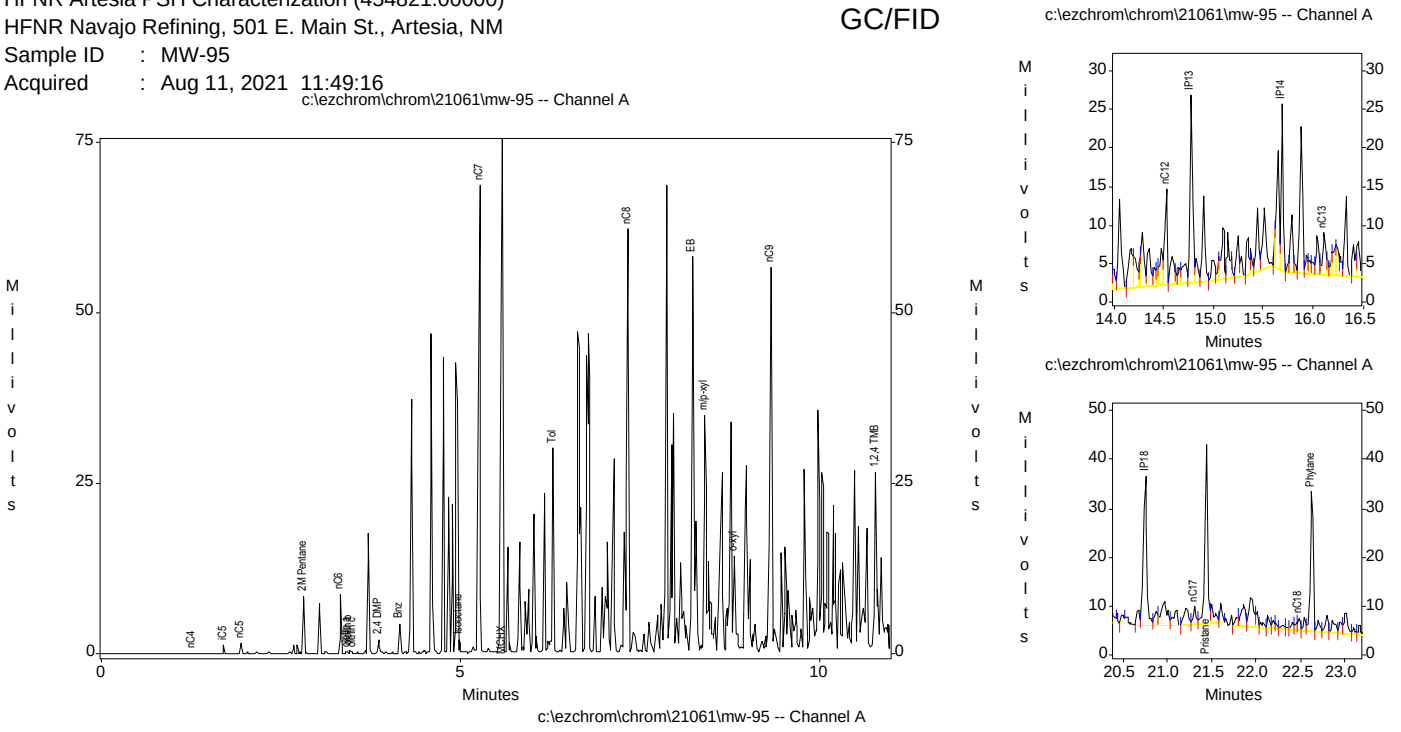
Released to Imaging: 2/7/2025 11:08:22 AM

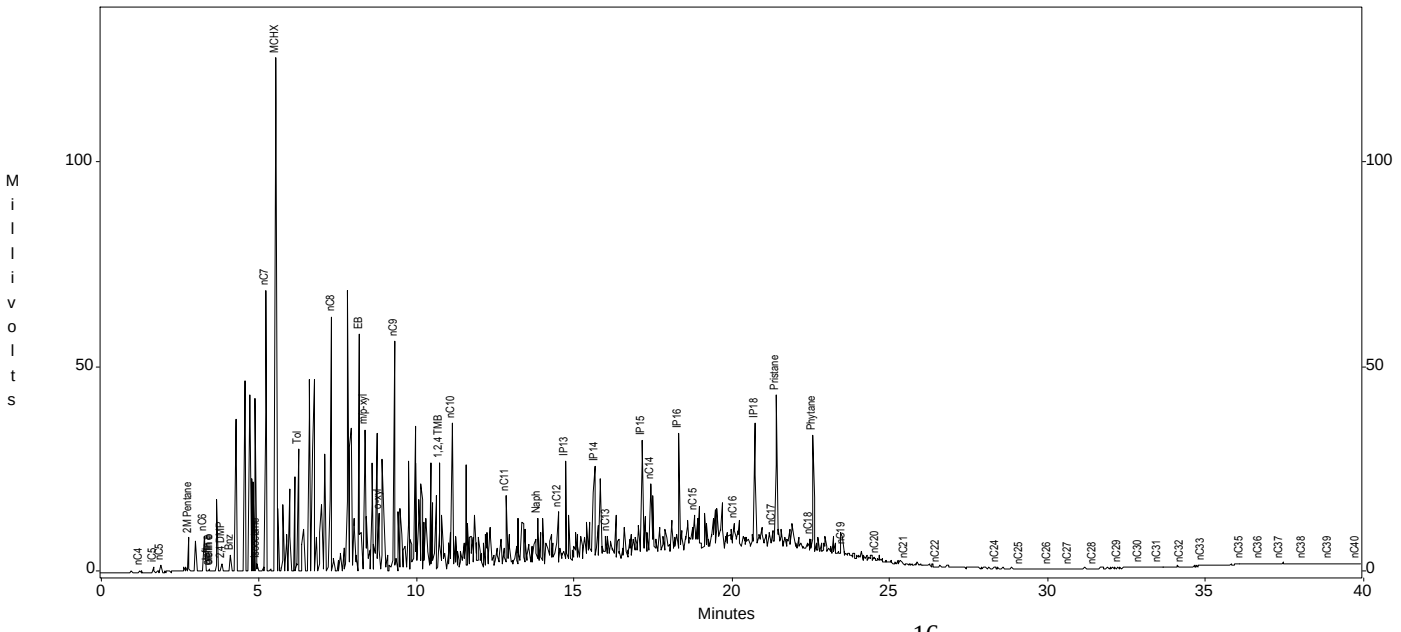
Received by OCD: 1/9/2025 2:41:44 PM

Torkelson Geochemistry, Inc.

GC/FID

HFNR Artesia PSH Characterization (454821.00000)
HFNR Navajo Refining, 501 E. Main St., Artesia, NM
Sample ID : MW-95
Acquired : Aug 11, 2021 11:49:16





Channel A Results

Peak	Area	Height
nC4	20	19
iC5	810	1169
nC5	1086	1471
MTBE	0	0
2M Pentane	7512	8283
nC6	8340	8718
olefin a	169	126
olefin b	522	529
olefin c	261	230
2,4 DMP	2169	2024
Bnz	5249	4219
Isooctane	2326	2012
nC7	92946	68598
MCHX	213441	125713
Tol	37646	29996
nC8	92319	62167
EB	103572	57878
m/p-xyl	94272	34658
o-xyl	23814	13997
nC9	103520	56322
1,2,4 TMB	41142	25759
nC10	54740	35436
nC11	25914	17078
Naph	21743	11341
nC12	18023	12252
IP13	39008	24266
IP14	30293	21566
nC13	10687	5384
IP15	42461	27227
nC14	33915	16419
IP16	56950	28883
nC15	30265	8443
nC16	17485	4717
IP18	73176	30386
nC17	8285	3748
Pristane	83527	36600
nC18	4540	2551
Phytane	62773	28496
nC19	2458	1649
nC20	2489	910
nC21	757	359
nC22	119	66
nC23	0	0
nC24	768	189
nC25	847	131
nC26	281	83
nC27	327	96
nC28	321	80
nC29	488	192
nC30	95	22
nC31	900	135
nC32	114	46
nC33	267	105
nC34	0	0
nC35	166	56
nC36	64	39
nC37	85	30
nC38	80	29
nC39	277	36
nC40	87	19

Figure 13, Multipanel display of gas chromatogram of the MW-95 product sample.

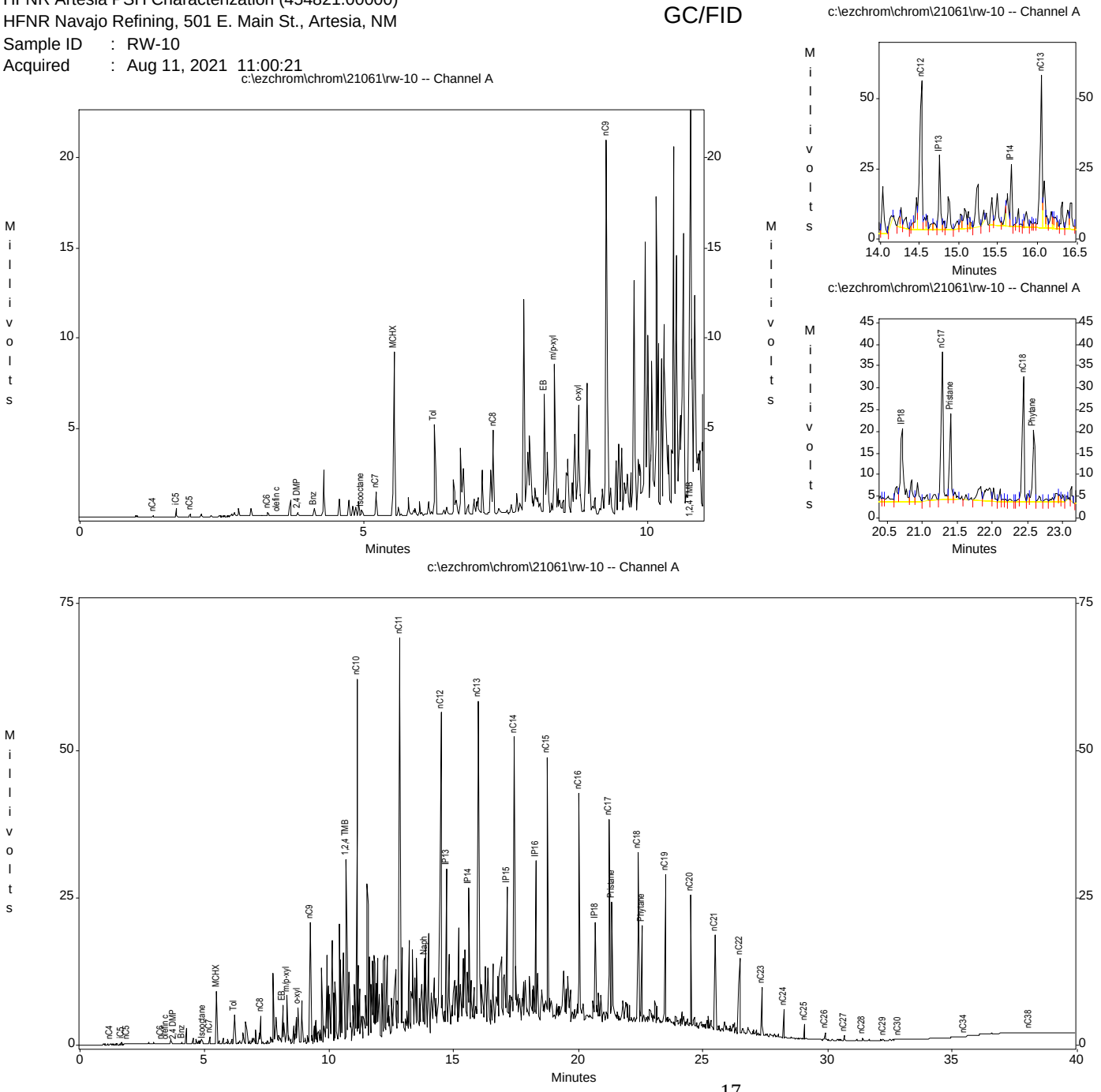
Released to Imaging: 2/7/2025 11:08:22 AM

Received by OCD: 1/9/2025 2:41:44 PM

Torkelson Geochemistry, Inc.

GC/FID

HFNR Artesia PSH Characterization (454821.00000)
HFNR Navajo Refining, 501 E. Main St., Artesia, NM
Sample ID : RW-10
Acquired : Aug 11, 2021 11:00:21



Channel A Results

Peak	Area	Height
nC4	59	81
iC5	332	444
nC5	67	87
MTBE	0	0
2M Pentane	0	0
nC6	196	201
olefin a	0	0
olefin b	0	0
olefin c	11	11
2,4 DMP	167	161
Bnz	462	422
Isooctane	413	340
nC7	1513	1322
MCHX	10726	9002
Tol	5928	4979
nC8	5544	4584
EB	8371	6513
m/p-xyl	14076	8188
o-xyl	11083	5976
nC9	36878	20685
1,2,4 TMB	49775	30832
nC10	104032	61460
nC11	124390	67553
Naph	20213	12569
nC12	93600	53015
IP13	41860	26305
IP14	30266	22174
nC13	103130	54537
IP15	45542	23307
nC14	106122	48664
IP16	53510	27179
nC15	93052	44688
nC16	80793	38974
IP18	47479	16817
nC17	63136	34041
Pristane	39807	19778
nC18	52063	28757
Phytane	33984	16431
nC19	45767	25414
nC20	37221	22570
nC21	27210	16327
nC22	20852	12706
nC23	12586	8153
nC24	9307	4969
nC25	5075	2644
nC26	2428	1408
nC27	1419	775
nC28	708	397
nC29	224	142
nC30	191	64
nC31	0	0
nC32	0	0
nC33	0	0
nC34	168	36
nC35	0	0
nC36	0	0
nC37	0	0
nC38	51	9
nC39	0	0
nC40	0	0

Figure 14, Multipanel display of gas chromatogram of the RW-10 product sample.

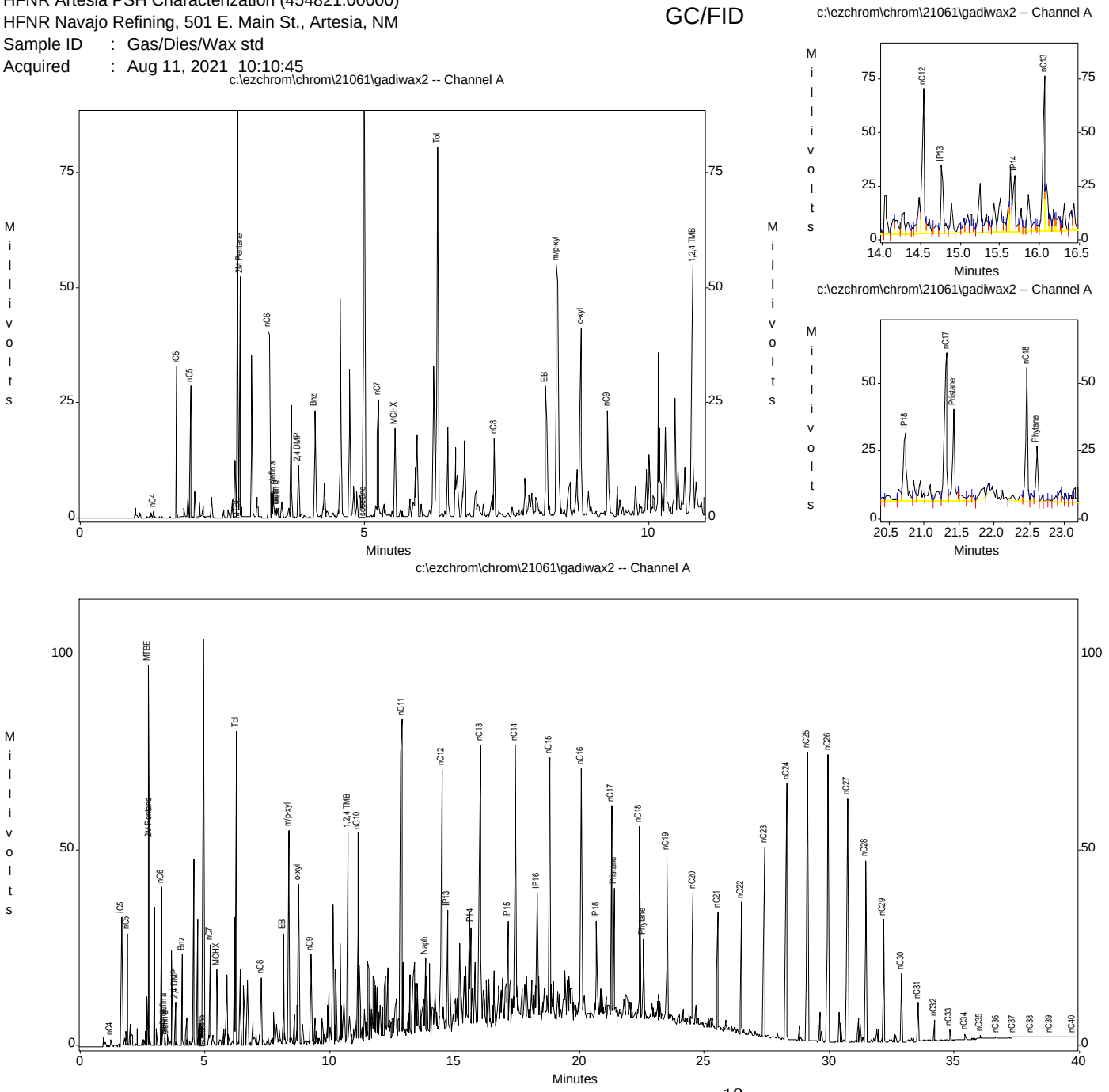
Released to Imaging: 2/7/2025 11:08:22 AM

Received by OCD: 1/9/2025 2:41:44 PM

Torkelson Geochemistry, Inc.

GC/FID

HFNR Artesia PSH Characterization (454821.00000)
HFNR Navajo Refining, 501 E. Main St., Artesia, NM
Sample ID : Gas/Dies/Wax std
Acquired : Aug 11, 2021 10:10:45



Channel A Results

Peak	Area	Height
nC4	788	1444
iC5	21818	33011
nC5	19927	28691
MTBE	91145	97195
2M Pentane	46296	52240
nC6	40704	40679
olefin a	7191	6305
olefin b	1896	1933
olefin c	2296	1928
2,4 DMP	11660	11214
Bnz	25962	23214
Isooctane	160882	103800
nC7	31523	25694
MCHX	24141	19372
Tol	144651	80433
nC8	21560	17252
EB	39388	28343
m/p-xyl	137223	54797
o-xyl	63514	41062
nC9	37619	23162
1,2,4 TMB	94139	53085
nC10	84741	53452
nC11	150948	80992
Naph	36288	19504
nC12	138968	67484
IP13	54339	31525
IP14	39037	26207
nC13	150292	72446
IP15	39258	23623
nC14	196161	70615
IP16	75547	32392
nC15	137530	65600
nC16	149986	64477
IP18	71618	25193
nC17	122747	54673
Pristane	80365	33676
nC18	96813	49337
Phytane	41134	20493
nC19	88792	43398
nC20	66307	33981
nC21	56139	30205
nC22	68771	33740
nC23	114690	48575
nC24	179878	65598
nC25	219912	74019
nC26	233009	73382
nC27	183413	62398
nC28	118534	46621
nC29	66159	31061
nC30	34866	17590
nC31	17183	9964
nC32	8946	5301
nC33	4847	2814
nC34	2781	1607
nC35	1344	852
nC36	761	407
nC37	503	240
nC38	381	134
nC39	348	86
nC40	320	64

Figure 15, Multipanel display of gas chromatogram of laboratory standard (gasoline/diesel/wax mixture).

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Appendix B, Table B.1 - Summary of Groundwater Analytical Data - Total Petroleum Hydrocarbons

2021 Annual Groundwater Monitoring Report
HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

Analyte Group:				TPH		
Analyte:				GRO	DRO	DRO - EP
Units:				mg/L	mg/L	mg/L
CGWSL:				0.0101	0.0858	0.0167
CGWSL Source:				NMED TPH	NMED TPH	NMED TPH
Area	Well ID	Date	Dup			
Cross-Gradient	KWB-13	Apr-18			0.0567 J	
	KWB-13	Apr-19			<0.0247	
	KWB-13	Jun-20			0.0396 J	
	KWB-13	Apr-21			0.0527 J	
	MW-136	Apr-19		<0.0314	0.0741 J	
	MW-136	Oct-19		**0.0731 JB**	0.0254 J	
	MW-136	Jun-20		**0.326 V3**	**0.0924 J**	
	MW-136	Oct-20		**0.0320 J**	**0.0873 JB**	
	MW-136	Apr-21		<0.0314	**0.110**	
	MW-136	Sep-21		<0.0314	0.0432 J	
	NP-5	Apr-15			0.0387 J	
	NP-5	Apr-17			<0.0247	
	NP-5	Apr-19			<0.0247	
	NP-5	Apr-21			0.0663 J	
	RA-3156	Apr-18				
	RA-3156	Apr-19				
	RA-3156	Jun-20				
	RA-3156	Apr-21				
Evaporation Ponds	MW-1R	Apr-18				**0.0624 J**
	MW-1R	Apr-19				**0.0756 J**
	MW-1R	Jun-20				<0.0247
	MW-1R	Apr-21				**0.124**
	MW-2A	Apr-19		<0.0314		**0.153**
	MW-2A	Oct-19		**0.0798 JB**		**0.0585 J**
	MW-2A	Jun-20		**0.0484 J**		<0.0247
	MW-2A	Oct-20		<0.0314		**0.153**
	MW-2A	Apr-21		<0.0314		**1.25**
	MW-2A	Sep-21		**0.0423 J**		**0.181**
	MW-3	Apr-19		**0.0731 J**		**3.93**
	MW-3	Apr-19	FD	**0.192 B**		**3.77**
	MW-3	Oct-19		**0.659**		**8.93**
	MW-3	Oct-19	FD	**0.536 Q**		**9.30**
	MW-3	Jun-20		<1.57		**7.01**
	MW-3	Jun-20	FD	**0.691**		**7.98**
	MW-3	Oct-20		**4.06 JB**		**6.84**
	MW-3	Oct-20	FD	**0.491**		**7.08**
	MW-3	Apr-21		**0.681**		**7.71**
	MW-3	Apr-21	FD	**0.591**		**7.86**
	MW-3	Sep-21		**0.242**		**6.28**
	MW-3	Sep-21	FD	**0.239**		**7.13**
	MW-4A	Apr-19		**0.669**		**6.82**
	MW-4A	Oct-19		**0.417 B**		**4.88**
	MW-4A	Jun-20		**0.377**		**4.07**
	MW-4A	Oct-20		**0.586**		**4.93**
	MW-4A	Apr-21		**0.620**		**5.71**
	MW-4A	Sep-21		**0.291**		**4.50**
	MW-4B	Apr-15		**0.119**		**1.31**
	MW-4B	Apr-17		**0.318**		**1.21**
	MW-4B	Apr-19		**0.181**		**1.13**
	MW-4B	Apr-21		**0.176 B**		**0.970**
	MW-5A	Apr-19		**2.25**		**4.80**
	MW-5A	Oct-19		**1.72**		**4.01**
	MW-5A	Jun-20		**0.959**		**7.01**
	MW-5A	Oct-20		**1.75**		**6.72**
	MW-5A	Apr-21		**2.56**		**7.21**
	MW-5A	Sep-21		**1.31**		**3.76**
	MW-5B	Apr-15		**1.14**		**11.0**
	MW-5B	Apr-17		**2.08**		**11.2**
	MW-5B	Apr-19		**1.82**		**11.5**
	MW-5B	Apr-21		**0.0371 JB**		**0.389**
	MW-5C	Apr-15		<0.0310		**0.580**
	MW-5C	Apr-17		<0.0314		**0.500**
	MW-5C	Apr-19		**0.0423 JB**		**0.442**
	MW-5C	Apr-21		**1.98**		**11.3**
	MW-6A	Apr-18		**0.406**		**9.27**
	MW-6A	Apr-19		**0.315**		**11.0**
	MW-6A	Jun-20		**0.192**		**4.86**
	MW-6A	Apr-21		**0.356 B**		**6.04**
	MW-6B	Apr-15		<0.0310		**0.386**
	MW-6B	Apr-17		<0.0314		**0.276**
	MW-6B	Apr-19		**0.0356 J**		**0.427**
	MW-6B	Apr-21		**0.0463 JB**		**0.346**
	MW-7A	Apr-19		**0.605**		**1.33**
	MW-7A	Apr-19	FD	**0.638**		**1.13**
	MW-7A	Oct-19		**0.325**		**1.09**
	MW-7A	Oct-19	FD	**0.317 Q**		**1.06**
	MW-7A	Jun-20		**0.240**		**0.928**
	MW-7A	Jun-20	FD	**0.337**		**0.915**
	MW-7A	Oct-20		**0.351 B**		**0.940**
	MW-7A	Oct-20	FD	**0.379**		**0.886**
	MW-7A	Apr-21		**0.364 B**		**1.06**
	MW-7A	Apr-21	FD	**0.358**		**1.07**
	MW-7A	Sep-21		**0.299**		**1.00**
	MW-7A	Sep-21	FD	**0.298**		**0.959**
	MW-7B	Apr-15		<0.0310		**0.120**
	MW-7B	Apr-17		<0.0314		**0.0845 J**
	MW-7B	Apr-19		**0.0647 JB**		**0.0676 J**
	MW-7B	Apr-21		**0.0342 J**		**0.0850 J**
	MW-10	Apr-19		**0.816**		**1.85**
	MW-10	Oct-19		**1.06**		**1.89**
	MW-10	Jun-20		**0.931**		**1.57**
	MW-10	Oct-20		**0.640**		**1.76**
	MW-10	Apr-21		**0.712**		**2.00**
	MW-10	Sep-21		**0.849**		**1.81**
	MW-11A	Apr-19		**0.0422 JB**		<0.0247
	MW-11A	Oct-19				
	MW-11A	Jun-20		<0.0314		<0.0247
	MW-11A	Oct-20				
	MW-11A	Apr-21		<0.0314		**0.0459 J**
	MW-11A	Sep-21				
	MW-11B	Apr-15		<0.0310		<0.0250
	MW-11B	Apr-17		<0.0314		<0.0247
	MW-11B	Apr-19		**0.0345 JB**		<0.0247
	MW-11B	Apr-21		<0.0314		**0.0402 J**
	MW-15	Apr-18		**0.328**		**0.479**
	MW-15	Apr-19		**0.136 B**		**0.475**
	MW-15	Jun-20		<0.0314		<0.0247
	MW-15	Apr-21		**0.0455 J**		**0.358**

Analyte Group:				TPH		
Analyte:				GRO	DRO	DRO - EP
Units:				mg/L	mg/L	mg/L
CGWSL:				0.0101	0.0858	0.0167
CGWSL Source:				NMED TPH	NMED TPH	NMED TPH
Area	Well ID	Date	Dup			
Evaporation Ponds	MW-18A	Apr-19				**0.652**
	MW-18A	Oct-19				**0.410**
	MW-18A	Jun-20				**0.408**
	MW-18A	Oct-20				**0.373 B**
	MW-18A	Apr-21				**0.518**
	MW-18A	Sep-21				**0.491**
	MW-18B	Apr-15		<0.0310		**0.280**
	MW-18B	Apr-17		**0.0932 J**		**0.287**
	MW-18B	Apr-19		**0.105 B**		**0.230**
	MW-18B	Apr-21		**0.0456 J**		**0.335**
	MW-22A	Apr-19		**2.75**		**4.55**
	MW-22A	Apr-19	FD	**3.22**		**4.41**
	MW-22A	Oct-19		**0.599 B**		**1.54**
	MW-22A	Oct-19	FD	**0.612 B**		**1.54**
	MW-22A	Jun-20		**2.73**		**2.91**
	MW-22A	Jun-20	FD	**2.10**		**2.72**
	MW-22A	Oct-20		**1.68**		**3.45**
	MW-22A	Oct-20	FD	**2.13**		**3.13**
	MW-22A	Apr-21		**1.43**		**4.19**
	MW-22A	Apr-21	FD	**1.45**		**3.94**
	MW-22A	Sep-21		**0.539**		**1.16**
	MW-22A	Sep-21	FD	**0.541**		**1.37**
	MW-22B	Apr-15		**2.34**		**5.60**
	MW-22B	Apr-17		**1.76**		**5.25**
	MW-22B	Apr-19		**2.58**		**4.77**
	MW-22B	Apr-21		**1.97**		**5.69**
	MW-70	Apr-19		**1.92**		**0.688**
	MW-70	Oct-19		**1.50**		**0.861**
	MW-70	Jun-20		**1.29**		**0.833**
	MW-70	Oct-20		**2.28**		**0.805**
	MW-70	Apr-21		**1.57**		**1.05**
	MW-70	Sep-21		**1.81**		**0.860**
	MW-72	Apr-18		**0.0713 J**		**0.555**
	MW-72	Apr-19		**0.0396 J**		**0.497**
	MW-72	Jun-20		**0.0544 J**		**0.303**
	MW-72	Apr-21		**0.0371 JB**		**0.362**
	MW-73	Apr-18		**0.575**		**2.85**
	MW-73	Apr-19		**0.0435 J**		**2.56**
	MW-73	Jun-20		**0.408**		**2.86**
	MW-73	Apr-21		**0.426**		**3.48**
	MW-74	Apr-19		**0.674**		**39.4**
	MW-74	Oct-19		**1.66**		**23.5**
	MW-74	Jun-20		**0.490**		**21.9**
	MW-74	Oct-20		**1.64**		**15.6**
	MW-74	Apr-21		**1.47**		**15.9**
	MW-74	Sep-21		**3.56**		**8.38**
	MW-75	Apr-19		**1.64**		**12.0**
	MW-75	Oct-19		**3.01**		**15.4**
	MW-75	Jun-20		**2.44 J**		**12.2**
	MW-75	Oct-20		**3.45**		**15.1**
	MW-75	Apr-21		**2.15**		**13.8**
	MW-75	Sep-21		**2.89**		**13.3**
	MW-76	Apr-19		**1.67**		**25.3**
	MW-76	Oct-19		**1.70**		**30.1**
	MW-76	Jun-20		**1.89**		**20.8**
	MW-76	Oct-20		**1.11**		**16.4**
	MW-76	Apr-21		**0.902**		**12.2**
	MW-76	Sep-21		**0.790 J**		**11.1**
	MW-77	Apr-18		**1.15**		**54.4**
	MW-77	Apr-19		**1.04**		**72.5**
	MW-77	Jun-20		**2.88 J**		**53.1**
	MW-77	Apr-21		**0.649**		**68.5**
	MW-78	Apr-18		<0.314		**26.4**
	MW-78	Apr-19		<0.314		**28.6**
	MW-78	Jun-20		<1.57		**38.5**
	MW-78	Apr-21		**0.0950 J**		**385**
	MW-79	Apr-19		<0.0314		**0.584**
	MW-79	Oct-19		**0.0662 JB**		**0.200**
	MW-79	Jun-20		**0.0534 J**		**0.0762 J**
	MW-79	Oct-20		**0.0582 J**		**0.333**
	MW-79	Apr-21		<0.0314		**0.331 B**
	MW-79	Sep-21		**0.0338 J**		**0.255**
	MW-80	Apr-18		<0.0314		**0.150**
	MW-80	Apr-19		<0.0314		**0.210**
	MW-80	Jun-20		<0.0314		<0.0247
	MW-80	Apr-21		<0.0314		**0.254 B**
	MW-81	Apr-18		<0.0314		**0.922**
	MW-81	Apr-19		<0.0314		**1.42**
	MW-81	Jun-20		**0.0978 J**		**0.269**
	MW-81	Apr-21		<0.0314		**0.866 B**
	MW-82	Apr-18		**0.432**		**3.03**
	MW-82	Apr-19		**0.0619 J**		**5.49**
	MW-82	Jun-20		**0.689**		**2.58**
	MW-82	Apr-21		**0.216**		**1.75**
	MW-83	Apr-19		**0.339**		**35.2**
	MW-83	Oct-19		**0.996 B**		**19.1**
	MW-83	Jun-20		**0.843**		**8.93**
	MW-83	Oct-20		**1.17**		**10.2**
	MW-83	Apr-21		**0.904**		**7.60**
	MW-83	Sep-21		**0.288**		**23.0**
	MW-84	Apr-19		**0.453**		**48.1**
	MW-84	Oct-19		**1.45**		**34.8**
	MW-84	Jun-20		**1.45**		**58.9**
	MW-84	Oct-20		<3.14		**59.2**
	MW-84	Apr-21		**0.537**		**62.9**
	MW-84	Sep-21		**1.37**		**74.6**
	MW-86	Jun-20		**1.77 J**		**93.9**
	MW-86	Oct-20		<6.28		**80.2**
	MW-87	Apr-19		**0.0422 JB**		**0.364**
	MW-87	Oct-19		**0.0950 JB**		**0.247**
	MW-87	Jun-20		<0.0314		**0.260**
	MW-87	Oct-20		**0.0469 JB**		**0.270 B**
	MW-87	Apr-21		<0.0314		**0.371**
	MW-87	Sep-21		<0.0314		**0.386**

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Appendix B, Table B.1 - Summary of Groundwater Analytical Data - Total Petroleum Hydrocarbons

2021 Annual Groundwater Monitoring Report
HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

Area	Well ID	Date	Dup	Analyte Group:	TPH	
				Analyte:	GRO	DRO	DRO - EP
				Units:	mg/L	mg/L	mg/L
				CGWSL:	0.0101	0.0858	0.0167
				CGWSL Source:	NMED TPH	NMED TPH	NMED TPH
Evaporation Ponds	MW-88	Apr-19			<0.0314		**0.359**
	MW-88	Oct-19			**0.120 B**		**0.325**
	MW-88	Jun-20			**0.0434 J**		**0.317**
	MW-88	Oct-20			**0.0806 JB**		**0.405**
	MW-88	Apr-21			**0.0750 JB**		**0.410**
	MW-88	Sep-21			**0.0602 J**		**0.421**
	MW-120	Apr-19			**0.102**		**0.554**
	MW-120	Oct-19			**0.611 B**		**0.463**
	MW-120	Jun-20			**0.0458 J**		**0.262**
	MW-120	Oct-20			<0.0314		**0.402**
	MW-120	Apr-21			**0.0797 J**		**0.614 B**
	MW-120	Sep-21			**0.0867 J**		**0.346**
	MW-121	Apr-19			<0.0314		**0.418**
	MW-121	Oct-19			**0.0537 JB**		**0.310**
	MW-121	Jun-20			<0.0314		**0.204**
	MW-121	Oct-20			<0.0314		**0.268**
	MW-121	Apr-21			<0.0314		**0.368 B**
	MW-121	Sep-21			<0.0314		**0.212**
	MW-122	Apr-19			<0.0314		**0.338**
	MW-122	Oct-19			**0.233 JB**		**0.111**
	MW-122	Jun-20			<1.57		**0.0398 J**
	MW-122	Oct-20			<1.57		**0.122**
	MW-122	Apr-21			<0.0314		**0.0845 J**
	MW-122	Sep-21			<0.0314		**0.0810 J**
	MW-123	Apr-19			**1.63**		**2.63**
	MW-123	Oct-19			**1.58**		**2.36**
	MW-123	Jun-20			**2.03**		**2.01**
	MW-123	Oct-20			**1.30**		**2.29**
	MW-123	Apr-21			**1.24**		**2.51**
	MW-123	Sep-21			**0.989**		**2.35**
	MW-124	Apr-19			**0.0422 JB**		**0.0404 J**
	MW-124	Oct-19			<0.0314 Q		**0.0611 J**
	MW-124	Jun-20			<0.0314		<0.0247
	MW-124	Oct-20			<0.0314		**0.0406 JB**
	MW-124	Apr-21			<0.0314		**0.0508 J**
	MW-124	Sep-21			<0.0314		**0.0518 J**
	OCD-1R	Apr-19			<0.0314		**0.143**
	OCD-1R	Oct-19			**0.0869 JB**		**0.181**
	OCD-1R	Jun-20			<0.0314		**0.110**
	OCD-1R	Oct-20			**0.0461 JB**		**0.117**
	OCD-1R	Apr-21			<0.0314		**0.174**
	OCD-1R	Sep-21			<0.0314		**0.184**
	OCD-2A	Apr-19			<0.0314		**0.0563 J**
	OCD-2A	Oct-19			**0.0765 JB**		**0.0255 J**
	OCD-2A	Jun-20			<0.0314		<0.0247
	OCD-2A	Oct-20			**0.0374 JB**		**0.0650 J**
	OCD-2A	Apr-21			<0.0314		**0.0839 J**
	OCD-2A	Sep-21			<0.0314		**0.0849 J**
	OCD-3	Apr-19			<0.0314		**0.0267 J**
	OCD-3	Oct-19			**0.0771 JB**		<0.0247
	OCD-3	Jun-20			<0.0314		<0.0247
	OCD-3	Oct-20			**0.0381 JB**		**0.0499 J**
	OCD-3	Apr-21			<0.0314		**0.0580 J**
	OCD-3	Sep-21			<0.0314		**0.0529 J**
	OCD-4	Apr-19			<0.0314		<0.0247
	OCD-4	Oct-19			**0.0736 JB**		<0.0247
	OCD-4	Jun-20			<0.0314		<0.0247
	OCD-4	Oct-20			**0.0326 JB**		**0.0404 J**
	OCD-4	Apr-21			<0.0314		**0.0556 J**
	OCD-4	Sep-21			<0.0314		**0.0605 J**
	OCD-5	Apr-19			**0.179 B**		**0.233**
	OCD-5	Oct-19			**0.912**		**0.954**
	OCD-5	Jun-20			**1.09**		**0.773**
	OCD-5	Oct-20			**0.724**		**0.917**
	OCD-5	Apr-21			**0.337**		**0.467**
	OCD-5	Sep-21			**0.845**		**1.08**
	OCD-6	Apr-19			**0.136**		**0.600**
	OCD-6	Oct-19			**0.145 B**		**0.390**
	OCD-6	Jun-20			**0.134**		**0.517**
	OCD-6	Oct-20			**0.159**		**0.622**
	OCD-6	Apr-21			**0.186 B**		**0.666**
	OCD-6	Sep-21			**0.361**		**0.677**
	OCD-7AR	Apr-19			**0.360**		**4.00**
	OCD-7AR	Oct-19			**1.14**		**3.46**
	OCD-7AR	Jun-20			**0.637**		**3.21**
	OCD-7AR	Oct-20			**0.878**		**3.45**
	OCD-7AR	Apr-21			**1.38**		**4.76**
	OCD-7AR	Sep-21			**1.72**		**4.00**
	OCD-7B	Apr-15			<0.0310		**0.120**
	OCD-7B	Apr-17			<0.0314		**0.0746 J**
	OCD-7B	Apr-19			<0.0314		**0.0638 J**
	OCD-7B	Apr-21			**0.0516 JB**		**0.128**
	OCD-8A	Apr-19			**1.36**		**3.75**
	OCD-8A	Oct-19			**0.128 B**		**0.648**
	OCD-8A	Jun-20			**0.419**		**2.19**
	OCD-8A	Oct-20			**0.644**		**2.17**
	OCD-8A	Apr-21			**1.04**		**2.86**
	OCD-8A	Sep-21			**0.373**		**1.57**
	OCD-8B	Apr-15			<0.0310		**0.840**
	OCD-8B	Apr-17			<0.0314		**0.585**
	OCD-8B	Apr-19			**0.0648 JB**		**0.612**
	OCD-8B	Apr-21			**0.0690 J**		**0.632**
Field East of Refinery	KWB-1A	Apr-19				0.0541 J	
	KWB-1A	Oct-19				0.0614 J	
	KWB-1A	Jun-20				**0.123**	
	KWB-1A	Oct-20				**0.0960 JB**	
	KWB-1C	Apr-15				**0.113**	
	KWB-1C	Apr-17				**0.140**	
	KWB-1C	Apr-19				**0.0921 J**	
	KWB-1C	Apr-21				0.0847 J	
	KWB-7	Jun-20				**7.29**	
	KWB-7	Oct-20				**1.05**	
	KWB-7	Apr-21				**1.94**	
	KWB-7	Sep-21				**1.37**	

Area	Well ID	Date	Dup	Analyte Group:	TPH	
				Analyte:	GRO	DRO	DRO - EP
				Units:	mg/L	mg/L	mg/L
				CGWSL:	0.0101	0.0858	0.0167
				CGWSL Source:	NMED TPH	NMED TPH	NMED TPH
	KWB-8	Oct-16				**3.02**	
	KWB-8	Apr-17				**3.41**	
	KWB-8	Oct-17				**3.30**	
	KWB-8	Oct-20				**6.80**	
	KWB-10R	Apr-17				**4.01**	
	KWB-10R	Oct-17				**5.18**	
	KWB-10R	Apr-18				**3.23**	
	KWB-10R	Oct-18				**3.35**	
	KWB-11A	Apr-19			**0.149**	**0.787**	
	KWB-11A	Jun-20			**0.444**	**2.28**	
	KWB-11A	Oct-20			**0.0992 J**	**0.376**	
	KWB-11A	Sep-21			**0.994**	**1.35**	
	KWB-11B	Apr-19			<0.0314	0.0418 J	
	KWB-11B	Oct-19			**0.0747 JB**	<0.0247	
	KWB-11B	Jun-20			<0.0314	0.0514 J	
	KWB-11B	Oct-20			<0.0314	**0.0956 J**	
	KWB-11B	Apr-21			<0.0314	0.0356 J	
	KWB-11B	Sep-21			<0.0314	0.0363 J	
	KWB-12A	Oct-19			**0.0748 JB**	<0.0247	
	KWB-12A	Jun-20			<0.0314	0.0477 J	
	KWB-12A	Oct-20			**0.0364 J**	<0.0247	
	KWB-12A	Sep-21			<0.0314	<0.0247	
	KWB-12B	Apr-19			<0.0314	<0.0247	
	KWB-12B	Apr-19	FD		**0.0499 JB**	<0.0247	
	KWB-12B	Oct-19			**0.0739 JB**	<0.0247	
	KWB-12B	Oct-19	FD		**0.0768 JB**	**0.133**	
	KWB-12B	Jun-20			<0.0314	0.0305 J	
	KWB-12B	Jun-20	FD		**0.0359 JB**	0.0415 J	
	KWB-12B	Oct-20			**0.0358 J**	<0.0247	
	KWB-12B	Oct-20	FD		<0.0314	0.0684 J	
	KWB-12B	Apr-21			<0.0314	**0.0955 J**	
	KWB-12B	Apr-21	FD		**0.0590 J**	0.0537 J	
	KWB-12B	Sep-21			<0.0314	<0.0247	
	KWB-12B	Sep-21	FD		<0.0314	<0.0247	
	KWB-P4	Apr-15				0.0820 J	
	KWB-P4	Apr-17				0.0526 J	
	KWB-P4	Apr-19				0.0361 J	
	KWB-P4	Apr-21				0.0330 J	
	MW-57	Apr-19			<0.0314	**0.139 J**	
	MW-57	Oct-19			**0.0894 JB**	<0.0247	
	MW-57	Jun-20			<0.0314	0.0661 J	
	MW-57	Oct-20			**0.0579 J**	0.0475 JB	
	MW-57	Apr-21			<0.0314	**0.117**	
	MW-57	Sep-21			<0.0314	<0.0247	
	MW-58	Oct-17				**9.77**	
	MW-58	Apr-18				**5.73**	
	MW-58	Oct-18				**4.86**	
	MW-58	Oct-19				**12.1**	
Field East of Refinery	MW-111	Oct-18			**1.36**	**2.63**	
	MW-111	Apr-19			**1.88**	**1.54**	
	MW-111	Oct-19			**1.37**	**1.80**	
	MW-111	Jun-20			**3.86**	**1.77**	
	MW-112	Nov-14			**28.0**	**2.20**	
	MW-113	Apr-19			**1.91**	0.0450 J	
	MW-113	Apr-19	FD		**1.83**	**0.113**	
	MW-113	Oct-19			**4.54**	**2.35**	
	MW-113	Oct-19	FD		**4.37**	**2.53**	
	MW-113	Jun-20			**1.30**	**0.226**	
	MW-113	Jun-20	FD		**0.798 V3**	**0.158**	
	MW-113	Oct-20			**3.18**	**0.784**	
	MW-113	Oct-20	FD		**3.30**	**0.814**	
	MW-113	Apr-21			**3.66**	**0.330**	
	MW-113	Apr-21	FD		**4.52**	**0.405**	
	MW-113	Sep-21			**22.6**	**6.19**	
	MW-113	Sep-21	FD		**20.7**	**3.49**	
	MW-125	Apr-19			<0.0314	0.0670 J	
	MW-125	Oct-19			**0.0827 JB**	**0.101**	
	MW-125	Jun-20			<0.0314	0.0700 J	
	MW-125	Oct-20			**0.0382 J**	**0.0942 JB**	
	MW-125	Apr-21			<0.0314	0.0654 J	
	MW-125	Sep-21			**0.0493 J**	0.0250 J	
	MW-126A	Apr-19			**0.124 B**	**0.370**	
	MW-126A	Oct-19			**0.903**	**0.583**	
	MW-126A	Jun-20			**0.0319 J**	**0.461**	
	MW-126A	Oct-20			**0.0669 J**	**0.451 B**	
	MW-126B	Apr-19			**0.0325 JB**	**0.232**	
	MW-126B	Oct-19			**0.0766 JB**	**0.243**	
	MW-126B	Jun-20			<0.0314	**0.461**	
	MW-126B	Oct-20			**0.0343 J**	**0.312 B**	
	MW-126B	Apr-21			<0.0314	**0.250**	
	MW-126B	Sep-21			<0.0314	**0.181**	
	MW-127	Oct-17			**1.68**	**1.41**	
	MW-127	Apr-18			**5.15**	**1.06**	
	MW-127	Oct-18			**3.13**	**1.30**	
	MW-127	Apr-19			**5.94**	**1.11**	
	MW-128	Oct-17			**1.14**	**2.37**	
	MW-128	Apr-18			**0.932**	**1.58**	
	MW-128	Oct-18			**2.76**	**2.04**	
	MW-128	Apr-19			**3.13**	**1.81**	
	MW-129	Apr-16			**2.70**	**1.68**	
	MW-129	Oct-16			**2.17**	**1.68**	
	MW-129	Apr-17			**1.79**	**2.13**	
	MW-129	Apr-18			**4.33**	**1.40**	
	MW-130	Apr-19			**0.0395 JB**	**0.648**	
	MW-130	Oct-19			**0.0828 JB**	**0.774**	
	MW-130	Jun-20			<0.0314	**0.609**	
	MW-130	Oct-20			<0.0314	**0.676**	
	MW-130	Apr-21			<0.0314	**0.586**	
	MW-130	Sep-21			**0.0326 J**	**0.387**	
	MW-131	Apr-17			**6.81**	**1.77**	
	MW-131	Oct-17			**4.95**	**1.58**	
	MW-131	Oct-19			**8.71**	**1.46**	
	MW-131	Jun-20			**8.68**	**1.83**	
	MW-133	Nov-14			**9.40**	**2.80**	
	MW-133	Apr-15			**11.3**	**3.10**	

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Appendix B, Table B.1 - Summary of Groundwater Analytical Data - Total Petroleum Hydrocarbons

2021 Annual Groundwater Monitoring Report
HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	TPH		
				Analyte:	GRO	DRO	DRO - EP
				Units:	mg/L	mg/L	mg/L
				CGWSL:	0.0101	0.0858	0.0167
				CGWSL Source:	NMED TPH	NMED TPH	NMED TPH
Area	Well ID	Date	Dup				
Field East of Refinery	MW-134	Apr-19		0.0450 JB	0.0911 J		
	MW-134	Apr-19	FD	<0.0314	0.0927 J		
	MW-134	Oct-19		0.0965 JB	0.0947 J		
	MW-134	Oct-19	FD	0.0939 JB	0.277		
	MW-134	Jun-20		0.0330 JB	0.0820 J		
	MW-134	Jun-20	FD	0.0332 J	<0.0247		
	MW-134	Oct-20		<0.0314	0.107 B		
	MW-134	Oct-20	FD	<0.0314	0.129		
	MW-134	Apr-21		0.0419 J	0.120		
	MW-134	Apr-21	FD	0.101	0.0992 J		
	MW-134	Sep-21		<0.0314	0.297		
	MW-134	Sep-21	FD	<0.0314	0.304		
	MW-135	Apr-19		0.0317 JB	0.0521 J		
	MW-135	Oct-19		0.0796 JB	0.0543 J		
	MW-135	Jun-20		0.0425 J	0.0380 J		
	MW-135	Oct-20		<0.0314	0.0723 JB		
	MW-135	Apr-21		<0.0314	0.0720 J		
	MW-135	Sep-21		<0.0314	<0.0247		
	MW-145	Oct-20					
	MW-145	Oct-20	FD				
	MW-145	Apr-21		<0.0314	0.288		
	MW-145	Sep-21		<0.0314	0.302		
	MW-146	Oct-20					
	MW-146	Apr-21		<0.0314	0.0733 J		
	MW-146	Sep-21		<0.0314	0.0874 J		
	MW-146	Sep-21	FD	<0.0314	0.0993 J		
	MW-147	Oct-20					
	MW-147	Apr-21		<0.0314	<0.0247		
	MW-147	Sep-21		<0.0314	0.0884 J		
	MW-148	Oct-20					
	MW-148	Apr-21		<0.0314	0.102		
	MW-148	Sep-21		<0.0314	0.212		
	RA-4196	Apr-19					
	RA-4196	Oct-19					
	RA-4196	Jun-20					
	RA-4196	Oct-20					
	RA-4798	Apr-19					
	RA-4798	Oct-19					
	RA-4798	Jun-20					
	RA-4798	Oct-20					
	RA-4798	Apr-21					
	RA-4798	Sep-21					
	RW-12R	Apr-17			1.61		
	RW-12R	Apr-18			0.514 B		
	RW-12R	Apr-19			0.822		
	RW-12R	Jun-20			0.633		
	RW-13R	Apr-16			0.808		
	RW-13R	Apr-18			0.526 B		
	RW-18A	Apr-17					
	RW-18A	Apr-18					
	RW-18A	Apr-19					
	RW-18A	Jun-20					
	RW-20	Apr-15			2.10		
	RW-22	Apr-15			5.40		
NCL	MW-18	Apr-18			0.672		
	MW-18	Apr-19			0.842		
	MW-18	Jun-20			0.812		
	MW-18	Apr-21			1.59		
	MW-45	Apr-19			0.975		
	MW-45	Oct-19			0.983		
	MW-45	Jun-20			0.739		
	MW-45	Oct-20			0.728		
	MW-45	Apr-21			0.967		
	MW-45	Sep-21			1.98		
	MW-53	Apr-16			0.316		
	MW-53	Apr-17			0.258		
	MW-53	Apr-18			0.158		
	MW-53	Apr-19			0.229		
	MW-53R	Oct-20			0.206		
	MW-53R	Apr-21			0.123		
	MW-54A	Apr-19			3.63		
	MW-54A	Oct-19			2.54		
	MW-54A	Jun-20			1.97		
	MW-54A	Oct-20			2.82		
	MW-54A	Apr-21			3.49		
	MW-54A	Sep-21			3.89		
	MW-54B	Apr-15		<0.0310	2.47		
	MW-54B	Apr-17		<0.0314	0.881		
	MW-54B	Apr-19		<0.0314	1.84		
	MW-54B	Apr-21		<0.0314	2.02		
	MW-55	Apr-19		0.0547 J	1.18		
	MW-55	Oct-19		0.142 B	1.05		
	MW-55	Jun-20		0.140	0.950		
	MW-55	Oct-20		0.635	1.34		
	MW-55	Apr-21		0.412	1.81		
	MW-55	Sep-21		0.187	1.41		
	MW-56	Apr-18			0.287		
	MW-56	Apr-19			0.583		
	MW-56	Jun-20			0.110		
	MW-56	Apr-21			0.175		
	MW-108	Apr-19			5.86		
	MW-108	Oct-19			3.36		
	MW-108	Jun-20			2.79		
	MW-108	Oct-20			3.18		
	MW-108	Apr-21			4.44		
	MW-108	Sep-21			2.90		
	NCL-31	Apr-19			1.86		
	NCL-31	Oct-19			0.934		
	NCL-31	Jun-20			0.494		
	NCL-31	Oct-20			0.587		
	NCL-31	Apr-21			0.974		
	NCL-31	Sep-21			0.720		
	NCL-32	Apr-19			1.67		
	NCL-32	Oct-19			0.970		
	NCL-32	Jun-20			0.533		
	NCL-32	Oct-20			0.800		
	NCL-32	Apr-21			0.984		
	NCL-32	Sep-21			1.56		
	NCL-33	Apr-19			7.38		
	NCL-33	Oct-19			8.53		
	NCL-33	Jun-20			7.21		
	NCL-33	Oct-20			8.54		
	NCL-33	Apr-21			17.3		
	NCL-33	Sep-21			10.2		

				Analyte Group:	TPH		
				Analyte:	GRO	DRO	DRO - EP
				Units:	mg/L	mg/L	mg/L
				CGWSL:	0.0101	0.0858	0.0167
				CGWSL Source:	NMED TPH	NMED TPH	NMED TPH
Area	Well ID	Date	Dup				
NCL	NCL-34A	Oct-18				7.41	
	NCL-34A	Apr-19				6.59	
	NCL-34A	Oct-19				5.90	
	NCL-34A	Jun-20				6.58	
	NCL-44	Apr-19				7.31	
	NCL-44	Oct-19				5.80	
	NCL-44	Jun-20				4.52	
	NCL-44	Oct-20				5.12	
	NCL-44	Apr-21				5.52	
	NCL-44	Sep-21				3.77	
	NCL-49	Apr-19				0.0986 J	
	NCL-49	Apr-19	FD			0.0811 J	
	NCL-49	Oct-19				0.153	
	NCL-49	Oct-19	FD			0.119	
	NCL-49	Jun-20				0.0917 J	
	NCL-49	Jun-20	FD			0.0640 J	
	NCL-49	Oct-20				0.0702 J	
	NCL-49	Oct-20	FD			0.0750 J	
	NCL-49	Apr-21				0.0315 J	
	NCL-49	Apr-21	FD			0.0728 J	
	NCL-49	Sep-21				<0.0247	
	NCL-49	Sep-21	FD			0.0925 JB	
North Refinery	MW-23	Apr-19			15.0	13.4	
	MW-23	Oct-19			4.70 B	20.1	
	MW-23	Jun-20			8.73	13.0	
	MW-23	Oct-20			2.93	17.9	
	MW-29	Apr-19			0.0472 JB	0.961	
	MW-29	Oct-19			0.128 B	1.28	
	MW-29	Jun-20			0.0764 JB	2.75	
	MW-29	Oct-20			0.0886 J	2.28	
	MW-29	Apr-21			0.113	3.66	
	MW-29	Sep-21			0.0560 J	8.12	
	MW-39	Apr-19			0.785	6.54	
	MW-39	Oct-19			0.736 B	5.64	
	MW-39	Jun-20			0.740	7.00	
	MW-39	Oct-20			0.412	6.28	
	MW-40	Apr-17			1.29	4.15	
	MW-40	Apr-18			1.18	2.45	
	MW-40	Apr-19			0.769	3.38	
	MW-40	Jun-20			0.500	2.45	
	MW-41	Apr-18			0.111	3.30	
	MW-41	Apr-19			0.229	6.47	
	MW-41	Jun-20			0.309 B	3.53	
	MW-41	Apr-21			0.245	2.32	
	MW-42	Apr-18			0.626	2.98	
	MW-42	Apr-19			0.822	5.48	
	MW-42	Jun-20			1.26 J	4.95	
	MW-42	Apr-21			0.433	4.92	
	MW-43	Apr-19			2.12	7.90	
	MW-43	Oct-19			32.6 B	13.5	
	MW-43	Jun-20			14.1	6.55	
	MW-43	Oct-20			34.2	7.74	
	MW-59	Apr-17			0.163	0.835	
	MW-59	Apr-18			0.232	0.576	
	MW-59	Apr-19			0.0605 JB	1.08	
	MW-59	Jun-20			0.302 B	2.97	
	MW-60	Apr-19			0.252	1.61	
	MW-60	Apr-19	FD		0.281	1.11	
	MW-60	Oct-19			0.646 B	1.01	
	MW-60	Oct-19	FD		0.632 B	1.00	
	MW-60	Jun-20			0.466	0.754	
	MW-60	Jun-20	FD		0.337	0.707	
	MW-60	Oct-20			0.528	1.03	
	MW-60	Oct-20	FD		0.587	0.930	
	MW-61	Apr-19			6.39	2.67	
	MW-61	Oct-19			11.1 B	4.75	
	MW-61	Jun-20			13.0 B	4.45	
	MW-61	Oct-20			11.7	4.58	
	MW-61	Apr-21			10.4	4.79	
	MW-61	Sep-21			11.2	6.38	
	MW-62	Apr-19			6.09	6.18	
	MW-62	Oct-19			10.6 B	8.55	
	MW-62	Jun-20			9.16	7.79	
	MW-62	Oct-20			7.35	7.46	
	MW-62	Sep-21			21.8	11.3	
	MW-62R	Oct-20			7.74	11.4	
	MW-62R	Apr-21			2.40	9.88	
	MW-67	Oct-17			0.649	8.48 J3J4	
	MW-67	Apr-18			1.53	4.25	
	MW-67	Oct-18			0.562	7.73	
	MW-67	Apr-19			0.868	9.31	
	MW-90	Apr-19			0.0877 J	4.99	
	MW-90	Oct-19			0.321 B	2.21	
	MW-90	Jun-20			0.412	3.69	
	MW-90	Oct-20			0.498	3.99	
	MW-90	Apr-21			0.477	4.25	
	MW-90	Sep-21			0.384	3.31	
	MW-91	Oct-18			16.7	11.8	
	MW-91	Apr-19			13.8	15.8	
	MW-91	Oct-19			34.8 B	10.8	
	MW-91	Jun-20			36.2	11.5	
	MW-92	Apr-16			5.50	20.4	
	MW-92	Oct-16			6.05	22.8	
	MW-93	Apr-17			3.73	7.89	
	MW-93	Apr-18			3.59	5.05	
	MW-93	Apr-19			2.82	7.92	
	MW-93	Jun-20			6.28	8.54	
	MW-94	Oct-15			6.12	25.6	
	MW-94	Apr-16			7.91	8.69	
	MW-94	Oct-16			6.83	9.76	
	MW-94	Apr-17			10.2	9.96	
	MW-95	Apr-17			0.0826 J	6.96	
	MW-95	Apr-18		<0.0314		3.68	
	MW-95	Apr-19		<0.0314		7.34	
	MW-95	Jun-20			0.162 B	6.29	
	MW-96	Apr-19			17.0	9.67	
	MW-96	Oct-19			25.7 B	6.80	
	MW-96	Jun-20			30.4	8.28	
	MW-96	Oct-20			71.6	6.91	
	MW-96	Sep-21			14.5	8.33	

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Appendix B, Table B.1 - Summary of Groundwater Analytical Data - Total Petroleum Hydrocarbons

2021 Annual Groundwater Monitoring Report
HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	TPH		
				Analyte:	GRO	DRO	DRO - EP
				Units:	mg/L	mg/L	mg/L
				CGWSL:	0.0101	0.0858	0.0167
				CGWSL Source:	NMED TPH	NMED TPH	NMED TPH
Area	Well ID	Date	Dup				
North Refinery	MW-98	Apr-19		**25.0**	**5.64**		
	MW-98	Oct-19		**19.5 B**	**6.15**		
	MW-98	Jun-20		**16.7**	**6.31**		
	MW-98	Oct-20		**22.0**	**5.31**		
	MW-98	Apr-21		**14.4**	**4.89**		
	MW-98	Sep-21		**14.1**	**6.01**		
	MW-137	Oct-17		**33.1**	**11.3**		
	MW-137	Apr-18		**26.6**	**9.60**		
	MW-137	Oct-18		**32.6**	**8.76**		
	MW-137	Apr-19		**33.2**	**9.76**		
	MW-138	Oct-17		**2.20**	**15.0**		
	MW-138	Apr-18		**2.44**	**6.05**		
	MW-138	Oct-18		**4.06**	**6.00**		
	MW-138	Apr-19		**4.17**	**6.67**		
	RW-1R	Apr-16		**2.13**	**8.54**		
	RW-1	Apr-17		**2.20**	**21.5**		
	RW-1	Apr-18		**6.05**	**8.92**		
	RW-1	Apr-19		**5.13**	**16.1**		
	RW-2	Apr-15		**18.3**	**19.7**		
	RW-2R	Apr-16		**20.8**	**17.3**		
	RW-2	Apr-17		**17.2**	**11.6**		
	RW-2	Apr-18		**20.5**	**8.31**		
	RW-7	Apr-17		<0.0314	**1.15**		
	RW-7	Apr-18		**0.177**	**11.3**		
	RW-7	Apr-19		**0.230**	**19.1**		
	RW-7	Jun-20		**0.334 JB**	**7.54**		
	RW-8	Apr-15			**7.30**		
	RW-8	Apr-17			**11.6**		
	RW-9	Apr-18		**2.20**	**2.31**		
	RW-9	Apr-19		**1.67**	**4.33**		
	RW-9	Jun-20		**0.821**	**4.02**		
	RW-9	Apr-21		**0.903**	**3.37**		
	RW-10	Apr-18		**0.380**	**2.81**		
	RW-10	Apr-19		**0.195**	**3.06**		
	RW-10	Jun-20		**0.219**	**3.33**		
	RW-10	Apr-21		**0.532**	**6.96**		
	RW-16B	Apr-17			**1.08**		
	RW-16B	Apr-18			**0.350**		
	RW-16B	Apr-19			**0.744**		
	RW-16B	Jun-20			**2.12**		
	RW-17A	Apr-17		**0.0622 J**	**2.57**		
	RW-17A	Apr-18		**0.0927 J**	**1.57**		
	RW-17A	Apr-19		<0.0314	**1.45**		
	RW-17A	Jun-20		**0.0426 J**	**1.44**		
North RO Field	MW-117	Apr-19		**0.0967 JB**	<0.0247		
	MW-117	Oct-19		**0.0732 JB**	<0.0247		
	MW-117	Jun-20		<0.0314	**0.109**		
	MW-117	Oct-20		<0.0314	**0.0997 JB**		
	MW-117	Apr-21		<0.0314	**0.211**		
	MW-117	Sep-21		**0.0573 J**	**0.146**		
	MW-118	Apr-19		<0.0314	<0.0247		
	MW-118	Oct-19		**0.0728 JB**	<0.0247		
	MW-118	Jun-20		<0.0314	<0.0247		
	MW-118	Oct-20		<0.0314	0.0817 JB		
	MW-118	Apr-21		<0.0314	0.0499 J		
	MW-118	Sep-21		<0.0314	<0.0247		
	MW-119	Apr-19		<0.0314	<0.0247		
	MW-119	Oct-19		**0.0830 JB**	<0.0247		
	MW-119	Jun-20		<0.0314	**0.376**		
	MW-119	Oct-20		<0.0314	**0.215 B**		
	MW-119	Apr-21		<0.0314	**0.135**		
	MW-119	Sep-21		<0.0314	0.0272 J		
South Refinery	KWB-2R	Apr-17			**1.35**		
	KWB-2R	Oct-17			**4.84**		
	KWB-2R	Apr-19			**0.887**		
	KWB-2R	Oct-19			**4.64**		
	KWB-5	Oct-17			**1.55**		
	KWB-5	Apr-18			**1.70**		
	KWB-5	Oct-18			**1.62**		
	KWB-5	Apr-19			**1.73**		
	KWB-6	Apr-17			**2.04**		
	KWB-6	Oct-17			**2.16**		
	KWB-6	Apr-18			**1.77**		
	KWB-6	Oct-18			**1.52**		
	MW-28	Apr-19		**5.37**	**8.80**		
	MW-28	Oct-19		**10.4 B**	**11.6**		
	MW-28	Jun-20		**3.94**	**3.91**		
	MW-28	Oct-20		**1.65**	**5.28**		
	MW-48	Apr-18		**45.6**	**6.50**		
	MW-48	Oct-18		**21.8**	**5.56**		
	MW-48	Apr-19		**17.7**	**6.53**		
	MW-48	Oct-19		**31.9 B**	**6.48**		
	MW-50	Apr-19			**0.632**		
	MW-50	Oct-19			**0.399**		
	MW-50	Jun-20			**0.522**		
	MW-50	Oct-20			**0.526**		
	MW-50	Apr-21			**0.396**		
	MW-50	Sep-21			**0.437**		
	MW-52	Apr-19		**0.0328 JB**	**0.146**		
	MW-52	Oct-19		**0.0776 JB**	**0.183**		
	MW-52	Jun-20		<0.0314	**0.294**		
	MW-52	Oct-20		<0.0314	**0.282**		
	MW-52	Apr-21		<0.0314	**0.270**		
	MW-52	Sep-21		<0.0314	**0.432**		
	MW-64	Apr-19		**130**	**9.22**		
	MW-64	Oct-19		**96.0**	**6.97**		
	MW-64	Jun-20		**102**	**8.18**		
	MW-64	Oct-20		**94.8**	**6.54**		
	MW-64	Apr-21		**100**	**6.54**		
	MW-64	Sep-21		**98.2**	**7.63**		
	MW-65	Apr-18		**15.5**	**5.05**		
	MW-65	Oct-18		**10.4**	**4.57**		
	MW-65	Apr-19		**16.9**	**4.86**		
	MW-65	Oct-19		**21.4 B**	**3.59**		

				Analyte Group:	TPH		
				Analyte:	GRO	DRO	DRO - EP
				Units:	mg/L	mg/L	mg/L
				CGWSL:	0.0101	0.0858	0.0167
				CGWSL Source:	NMED TPH	NMED TPH	NMED TPH
Area	Well ID	Date	Dup				
South Refinery	MW-66	Apr-19		**6.03**	**3.25**		
	MW-66	Oct-19		**7.15 B**	**2.77**		
	MW-66	Jun-20		**8.44**	**2.19**		
	MW-66	Oct-20		**4.41**	**3.36**		
	MW-66	Apr-21		**5.16**	**3.52**		
	MW-99	Oct-18		**11.9**	**2.23**		
	MW-99	Apr-19		**14.9**	**2.93**		
	MW-99	Oct-19		**5.02**	**2.30**		
	MW-99	Jun-20		**3.97**	**4.19**		
	MW-101	Apr-19		**0.421**	**3.98**		
	MW-101	Oct-19		**0.440 B**	**4.58**		
	MW-101	Jun-20		**0.553**	**4.85**		
	MW-101	Oct-20		**5.37**	**6.07**		
	MW-101	Apr-21		**2.91**	**4.65**		
	MW-101	Sep-21		**2.07**	**6.14**		
	MW-102	Apr-19		**27.7**	**9.96**		
	MW-102	Oct-19		**34.7 B**	**13.6**		
	MW-102	Jun-20		**27.1**	**5.50**		
	MW-102	Oct-20		**28.9**	**9.97**		
	MW-102	Apr-21		**19.7**	**12.6**		
	MW-102	Sep-21		**33.4**	**14.5**		
	MW-102	Sep-21	FD	**37.6**	**14.4**		
	MW-103	Apr-18		**6.45**	**6.23**		
	MW-103	Apr-19		**6.55**	**7.87**		
	MW-103	Jun-20		**5.15**	**6.08**		
	MW-103	Apr-21		**4.84**	**6.58**		
	MW-104	Apr-19		**1.53**	**2.23**		
	MW-104	Apr-19	FD	**1.20**	**2.15**		
	MW-104	Oct-19		**1.34**	**1.26**		
	MW-104	Oct-19	FD	**1.30**	**1.36**		
	MW-104	Jun-20		**1.44**	**1.14**		
	MW-104	Jun-20	FD	**1.22**	**1.03**		
	MW-104	Oct-20		**1.32**	**1.04**		
	MW-104	Oct-20	FD	**1.15**	**1.10**		
	MW-104	Apr-21		**1.06**	**0.762**		
	MW-104	Apr-21	FD	**1.07**	**0.800**		
	MW-104	Sep-21		**0.911**	**0.722**		
	MW-105	Apr-19		**20.3**	**7.24**		
	MW-105	Oct-19		**17.1 B**	**7.63**		
	MW-105	Jun-20		**25.6**	**9.03**		
	MW-105	Oct-20		**32.8**	**9.39**		
	MW-105	Apr-21		**20.2**	**12.8**		
	MW-106	Apr-19		**9.47**	**7.27**		
	MW-106	Oct-19		**60.5 B**	**16.1**		
	MW-106	Jun-20		**28.4 B**	**14.6**		
	MW-106	Oct-20		**54.4**	**16.5**		
	MW-106	Apr-21		**24.4**	**26.3**		
	MW-107	Oct-16		**17.7**	**7.24**		
	MW-107	Apr-17		**6.67**	**7.91**		
	MW-107	Apr-18		**21.6**	**4.50**		
	MW-107	Apr-19		**23.3**	**7.93**		
	MW-109	Apr-19		**5.21 B**	**2.53**		
	MW-109	Oct-19		**5.46 B**	**2.84**		
	MW-109	Jun-20		**5.44**	**2.61**		
	MW-109	Oct-20		**3.77**	**2.33**		
	MW-109	Apr-21		**2.44**	**1.57**		
	MW-109	Sep-21		**5.69 J3**	**6.03**		
	MW-110	Apr-19		**0.623**	**0.903**		
	MW-110	Oct-19		**0.506 B**	**0.630**		
	MW-110	Jun-20		**0.587**	**0.696**		
	MW-110	Oct-20		**0.406**	**0.721**		
	MW-110	Apr-21		**0.639**	**0.999**		
	MW-110	Sep-21		**0.616**	**1.49**		
	MW-139	Oct-19		**0.636 B**	**1.15**		
	MW-139	Jun-20		**0.411**	**1.55**		
	MW-139	Oct-20		**0.490**	**1.30**		
	MW-139	Apr-21		**0.383**	**1.67**		
	MW-139	Sep-21		**0.635**	**1.91**		
	RA-313	Apr-18					
	RA-313	Apr-19					
	RA-313	Jun-20					
	RA-313	Apr-21					
	RW-4	Apr-17			**2.35**		
	RW-4	Apr-18			**1.02**		
	RW-4	Apr-19			**2.53**		
	RW-4	Jun-20			**1.63**		
	RW-5R	Apr-15			**6.42**		
	RW-5R	Apr-16			**7.39**		
	RW-6	Apr-15			**11.4**		
	RW-6R	Apr-16			**4.20**		
	RW-6	Apr-18			**3.04**		
	RW-6	Apr-19			**3.23**		
	RW-15C	Apr-17			**9.74**		
	RW-15C	Apr-18			**9.27**		
	RW-15C	Apr-19			**11.7**		
South RO Field	MW-114	Apr-19		<0.0314	<0.0247		
	MW-114	Oct-19		**0.0705 JB**	0.0374 J		
	MW-114	Jun-20		<0.0314	**0.436**		
	MW-114	Oct-20		<0.0314	**0.663**		
	MW-114	Apr-21		<0.0314	**0.736**		
	MW-114	Sep-21		**0.0655 J**	**0.502**		
	MW-115	Apr-19		<0.0314	0.0376 J		
	MW-115	Oct-19		**0.0733 JB**	<0.0247		
	MW-115	Jun-20		<0.0314	0.0430 J		
	MW-115	Oct-20		<0.0314	**0.222 B**		
	MW-115	Apr-21		<0.0314	**0.313**		
	MW-115	Sep-21		<0.0314	**0.173**		
	MW-116	Apr-19		**0.0383 JB**	**0.172**		
	MW-116	Oct-19		**0.118 B**	**0.123**		
	MW-116	Jun-20		<0.0314	<0.0247		
	MW-116	Oct-20		<0.0314	**0.127 B**		
	MW-116	Apr-21		<0.0314	**0.231**		
	MW-116	Sep-21		<0.0314	**0.214**		

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Appendix B, Table B.1 - Summary of Groundwater Analytical Data - Total Petroleum Hydrocarbons

2021 Annual Groundwater Monitoring Report
HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	TPH		
				Analyte:	GRO	DRO	DRO - EP
				Units:	mg/L	mg/L	mg/L
				CGWSL:	0.0101	0.0858	0.0167
				CGWSL Source:	NMED TPH	NMED TPH	NMED TPH
Area	Well ID	Date	Dup				
TEL	MW-49	Apr-19		**4.03**	**8.93**		
	MW-49	Oct-19		**5.13 B**	**6.47**		
	MW-49	Jun-20		**5.45**	**4.96**		
	MW-49	Oct-20		**5.05**	**5.44**		
	MW-49	Apr-21		**2.56**	**6.65**		
	MW-49	Sep-21		**2.57**	**6.81**		
	TEL-1	Oct-18		**0.381**	**8.36**		
	TEL-1	Apr-19		**0.357**	**8.30**		
	TEL-1	Oct-19		**0.736 JB**	**8.74**		
	TEL-1	Jun-20		**0.366 J**	**5.74**		
	TEL-2	Oct-18		**5.19**	**14.8**		
	TEL-2	Apr-19		**4.27**	**15.8**		
	TEL-2	Oct-19		**3.00 B**	**13.5**		
	TEL-2	Jun-20		**1.89**	**8.16**		
	TEL-3	Apr-18		**2.05**	**7.42**		
	TEL-3	Apr-19		**0.999**	**4.14**		
	TEL-3	Oct-19		**1.54 B**	**4.82**		
	TEL-3	Oct-20		**2.28**	**6.36**		
	TEL-4	Apr-19		**0.625**	**1.27**		
	TEL-4	Apr-19	FD	**0.664**	**1.31**		
	TEL-4	Oct-19		**0.919 B**	**4.16**		
	TEL-4	Oct-19	FD	**1.34 B**	**4.31**		
	TEL-4	Jun-20		**0.456 J**	**5.73**		
	TEL-4	Jun-20	FD	**0.976 J**	**5.68**		
	TEL-4	Oct-20		**0.837 J**	**5.91**		
	TEL-4	Oct-20	FD	**1.07**	**6.12**		
	TEL-4	Apr-21		**0.834**	**6.87**		
	TEL-4	Apr-21	FD	**0.829**	**6.87**		
	TEL-4	Sep-21		**0.847**	**6.36**		
	TEL-4	Sep-21	FD	**0.821**	**6.37**		
Three Mile Ditch	MW-8	Apr-18		**0.0561 J**	**0.112**		
	MW-8	Apr-19		**0.127 B**	**0.0861 J**		
	MW-8	Jun-20		**0.300**	0.0458 J		
	MW-8	Apr-21		**0.107**	**0.0902 J**		
	MW-16	Apr-18			**0.189**		
	MW-16	Apr-19			**0.156**		
	MW-16	Jun-20			**0.120**		
	MW-16	Apr-21			**0.138**		
	MW-20	Apr-18			0.0810 J		
	MW-20	Apr-19			0.0561 J		
	MW-20	Jun-20			<0.0247		
	MW-20	Apr-21			**0.141**		
	MW-21	Apr-19		**0.149 B**	**0.184**		
	MW-21	Oct-19		**0.229 B**	0.0847 J		
	MW-21	Jun-20		**0.284**	**0.149**		
	MW-21	Oct-20		**0.492**	**0.163**		
	MW-21	Apr-21		**0.0899 J**	**0.354**		
	MW-21	Sep-21		**0.100 J**	**0.174**		
	MW-25	Apr-18			0.0327 J		
	MW-25	Apr-19			0.0401 J		
	MW-25	Jun-20			<0.0247		
	MW-25	Apr-21			0.0537 J		
	MW-26	Apr-18			0.0492 J		
	MW-26	Apr-19			0.0502 J		
	MW-26	Jun-20			0.0276 J		
	MW-26	Apr-21			0.0537 J		
	MW-27	Apr-18			0.0537 J		
	MW-27	Apr-19			0.0517 J		
	MW-27	Jun-20			<0.0247		
	MW-27	Apr-21			0.0659 J		
	MW-46R	Apr-19			<0.0247		
	MW-46R	Oct-19			0.0677 J		
	MW-46R	Jun-20			0.0408 J		
	MW-46R	Oct-20			**0.111**		
	MW-46R	Apr-21			**0.217**		
	MW-46R	Sep-21			**0.209**		
	MW-68	Apr-18			0.0508 J		
	MW-68	Apr-19			0.0267 J		
	MW-68	Jun-20			0.0250 J		
	MW-68	Apr-21			**0.0962 J**		
	MW-71	Apr-18			<0.0247		
	MW-71	Apr-19			<0.0247		
	MW-71	Jun-20			0.0323 J		
	MW-71	Apr-21			**0.0936 J**		
	MW-89	Apr-18			**0.403**		
	MW-89	Apr-19			**0.611**		
	MW-89	Jun-20			**0.218**		
	MW-89	Apr-21			**0.175**		

				Analyte Group:	TPH		
				Analyte:	GRO	DRO	DRO - EP
				Units:	mg/L	mg/L	mg/L
				CGWSL:	0.0101	0.0858	0.0167
				CGWSL Source:	NMED TPH	NMED TPH	NMED TPH
Area	Well ID	Date	Dup				
Three Mile Ditch	NP-1	Apr-19					
	NP-1	Oct-19					
	NP-1	Jun-20					
	NP-1	Oct-20					
	NP-1	Apr-21					
	NP-1	Sep-21					
	NP-6	Apr-15					
	NP-6	Apr-17					
	NP-6	Apr-19					
	NP-6	Apr-21					
Upgradient	UG-1	Apr-18		<0.0314	0.0723 J		
	UG-1	Apr-19		<0.0314	<0.0247		
	UG-1	Jun-20		<0.0314	<0.0247		
	UG-1	Apr-21		<0.0314	0.0579 J		
	UG-2	Apr-18		<0.0314	<0.0247		
	UG-2	Apr-19		<0.0314	0.0647 J		
	UG-2	Jun-20		<0.0314	<0.0247		
	UG-2	Apr-21		<0.0314	0.0316 J		
	UG-3R	Apr-18		<0.0314	<0.0247		
	UG-3R	Apr-19		<0.0314	<0.0247		
	UG-3R	Jun-20		**0.0421 J**	0.0478 J		
	UG-3R	Apr-21		<0.0314	**0.0931 J**		
	UG-4	Apr-18		<0.0314	<0.0247		
	UG-4	Apr-19		<0.0314	<0.0247		
	UG-4	Jun-20		<0.0314	<0.0247		
	UG-4	Apr-21		<0.0314	0.0643 J		

Definitions

X	Reported concentration, X, exceeds the CGWSL.
X	Analyte detected above the detection limit at a concentration equal to X.
<x	Analyte not detected at detection limit equal to x.
<x	Analyte not detected at detection limit equal to x, but x exceeds the CGWSL.
---	No applicable CGWSL.
	Blank cell indicates a sample was collected from the well during the indicated sampling event, but the analyte was not analyzed.

Abbreviations

CGWSL	Critical Groundwater Screening Level (see Table 3)
CGWSL Source	Source for CGWSL value (see Table 3)
DRO	Diesel Range Organics
DRO-EP	Diesel Range Organics data from wells located in the Evaporation Ponds area
Dup	Duplicate sample
FD	Field duplicate sample
GRO	Gasoline Range Organics
mg/L	Milligrams per Liter
TPH	Total Petroleum Hydrocarbons
NMED TPH	NMED Risk Assessment Guidance for Site Investigations and Remediation, February 2019, Rev 2 (6/19/19), Table 6-4 TPH Groundwater Screening Level.

Lab Footnote

B	Analyte was also detected in the associated method blank.
J	Indicates an estimated value.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
Q	Sample was prepared and/or analyzed past recommended holding time.
V3	Internal standard exhibited poor recovery due to sample matrix interference; analytical result biased high.

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Appendix B, Table B.2 - Summary of Groundwater Analytical Data - Total Metals

2021 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	Total Metals													
				Analyte	Arsenic	Barium	Boron	Cadmium	Cobalt	Chromium	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Uranium	Vanadium
				CAS	7440-38-2	7440-39-3	7440-42-8	7440-43-9	7440-48-4	7440-47-3	7439-89-6	7439-92-1	7439-96-5	7439-97-6	7440-02-0	7782-49-2	7440-61-1	7440-62-2
				Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL	0.0100	2.00	0.750	0.00500	0.0500	0.0500	1.00	0.0150	0.200	0.00200	0.200	0.0500	0.0300	0.0631
				CGWSL Source	WQCC HH	WQCC HH	WQCCIrr	WQCCIrr	WQCC HH	WQCC HH	WQCC Dom	WQCC HH	WQCC Dom	WQCC HH	WQCCIrr	WQCC HH	WQCC HH	NMED TW
Area	Well ID	Date	Dup															
Cross-Gradient	KWB-13	Apr-18		0.00395	0.0325	0.343	<0.000160	0.000953 J	0.00437 B	**3.01**	0.00292	0.0490	0.0000726 JB	0.00296	0.0131	0.0249	0.0261
	KWB-13	Apr-19		0.00485	0.0372	0.376	0.000325 J	0.00113 J	0.00514 B	**2.18**	0.00472	0.0829	<0.0000490	0.00325	0.0151	0.0250	0.0308
	KWB-13	Jun-20		0.00587	0.0485	0.306	<0.000478	0.00163 J	0.00721	**4.41**	0.00654	0.113	<0.000100	0.0110	0.0103	0.0260	0.0327
	KWB-13	Apr-21		0.00822	0.0713	0.287	0.000652 J	0.00279	0.0152	**10.8**	0.00870	0.179	<0.000100	0.0107	0.0115	0.0196 J	0.0446
	MW-136	Apr-19		0.00283	0.0153	0.699	<0.000160	0.000319 J	0.000696 J	0.163	0.000319 J	0.0206	<0.0000490	0.00143 J	0.00503	**0.0729**	0.0169
	MW-136	Oct-19		0.00256	0.0121	0.663	<0.000160	<0.000260	<0.000540	0.0670 J	0.000261 J	0.0127	0.0000659 JB	0.00108 J	0.00581	**0.0599**	0.0184
	MW-136	Jun-20		0.00245	0.0147 J	0.571	<0.000478	0.000685 J	<0.00149	0.171	<0.00249	0.0352	<0.000100	0.00183 J	0.00593	**0.0639**	0.0161
	MW-136	Oct-20		0.00247	0.0123 J	0.556	<0.000478	<0.000477	<0.00149	0.0705 J	<0.00249	0.0123 B	<0.000100	0.00248	0.00553	**0.0558**	0.0158
	MW-136	Apr-21		0.00252	0.0122 J	0.475	<0.000150	0.000526 J	0.00160 J	0.116	0.00247	0.0207	<0.000100	0.00359	0.00730	**0.0459**	0.0153
	MW-136	Sep-21		0.00287	0.0125	0.505	<0.000150	0.000760 J	<0.00124	0.0558 J	<0.000849	0.0162	<0.000100	0.00251	0.00591	**0.0396**	0.0149
	NP-5	Apr-15		0.00288	0.0159				0.00109 J	0.437	0.000415 J	0.00318 J			0.0125		
	NP-5	Apr-17		0.00305	0.00938				<0.000540	0.0632 J	<0.000240	0.000586 J			0.0124		
	NP-5	Apr-19		0.00313	0.00844				<0.000540	0.0278 J	0.000709 J	0.000563 J			0.0119		
	NP-5	Apr-21		0.00331	0.00873 J				<0.00124	0.0551 J	<0.000849	0.00154 J			0.00904		
	RA-3156	Apr-18															
	RA-3156	Apr-19															
	RA-3156	Jun-20															
	RA-3156	Apr-21															
Evaporation Ponds	MW-1R	Apr-18		0.00180 J	0.0224				<0.000540	**3.42**	0.000344 J	**1.71**			0.000380 J		
	MW-1R	Apr-19		0.00176 J	0.0213				<0.000540	**2.17**	<0.000240	**0.995**			<0.000380		
	MW-1R	Jun-20		0.00119 J	0.0219				<0.00149	**1.87**	<0.00249	**1.30**			<0.000657		
	MW-1R	Apr-21		0.00120 J	0.0204				<0.00124	**1.67**	<0.000849	**0.996**			<0.000300		
	MW-2A	Apr-19		0.00824	0.0214				0.00139 J	**2.14**	0.000266 JB	**1.03**			0.00175 J		
	MW-2A	Oct-19		0.00661	0.0315				<0.000540	0.109	<0.000240	**1.10**			0.00186 J		
	MW-2A	Jun-20		**0.0140**	0.0200				<0.00149	**2.78**	<0.00249	**1.74**			<0.000657		
	MW-2A	Oct-20		0.00798	0.0148 J				<0.00149	0.700	<0.00249	**0.491 V**			0.000658 J		
	MW-2A	Apr-21		0.00878	0.0266				0.00282	0.335	<0.00424	**1.66**			0.00169 J		
	MW-2A	Sep-21		0.00921	0.0322				0.00135 J	0.375	<0.000849	**1.17**			0.00287		
	MW-3	Apr-19		**0.0238**	0.0128				0.00140 J	0.0281 J	<0.000240	**0.462**			0.0143		
	MW-3	Apr-19	FD	**0.0224**	0.0128				0.00172 J	0.0281 J	0.000432 J	**0.491**			0.0131		
	MW-3	Oct-19		**0.0976**	0.0151				0.000655 J	**3.73**	0.000341 J	**1.72**			0.00316		
	MW-3	Oct-19	FD	**0.101**	0.0154				0.000666 J	**3.79**	0.000337 J	**1.73**			0.00323		
	MW-3	Jun-20		**0.0278**	0.0125 J				<0.00149	<0.0489	<0.00249	**0.880**			0.00995		
	MW-3	Jun-20	FD	**0.0299**	0.0152 J				<0.00149	<0.0489	<0.00249	**0.913**			0.0100		
	MW-3	Oct-20		**0.0340**	0.0142 J				<0.00149	0.0772 J	<0.00249	**1.27**			0.00722		
	MW-3	Oct-20	FD	**0.0343**	0.0150 J				<0.00149	0.0500 J	<0.00249	**1.38**			0.00646		
	MW-3	Apr-21		**0.0415**	0.0154 J				**0.0536**	0.503	<0.000849	**1.96**			0.00471		
	MW-3	Apr-21	FD	**0.0417**	0.0158 J				0.0174	0.334 J	<0.00424	**1.90**			0.00570 J		
	MW-3	Sep-21		**0.0275**	0.0150				<0.00124	0.0896 J	<0.000849	**0.764**			0.0167		
	MW-3	Sep-21	FD	**0.0276**	0.0157				<0.00124	0.0840 J	<0.000849	**0.839**			0.0172		
	MW-4A	Apr-19		**0.132**	0.0121				0.000785 J	**1.67**	0.000346 JB	**1.82**			0.000731 J		
	MW-4A	Oct-19		**0.0758**	0.0131				0.000785 J	**1.88**	<0.000240	**2.01**			<0.000380		
	MW-4A	Jun-20		**0.111**	0.0125 J				<0.00149	**2.55**	<0.00249	**1.79**			<0.000657		
	MW-4A	Oct-20		**0.114**	0.0133 J				0.00183 J	**1.73**	<0.00249	**1.74**			<0.000657		
	MW-4A	Apr-21		**0.0799**	0.0125 J				<0.00124	**1.20**	<0.000849	**1.78**			0.000630 J		
	MW-4A	Sep-21		**0.0304**	0.0130				<0.00124	0.465	<0.000849	**2.17**			0.000490 J		
	MW-4B	Apr-15		**0.101**	0.0349				<0.00110	**3.60**	0.00189 J	**8.68**			<0.000760		
	MW-4B	Apr-17		**0.0371**	0.0182				<0.000540	**3.42**	<0.000240	**7.35**			<0.000380		
	MW-4B	Apr-19		**0.0699**	0.0165				0.000725 J	**1.54**	0.000544 JB	**11.1**			<0.000380		
	MW-4B	Apr-21		**0.0515**	0.0169 J				<0.00124	**2.05**	<0.000849	**8.88**			<0.000300		
	MW-5A	Apr-19		**0.0975**	0.0118				0.000668 J	**6.12**	0.000696 JB	**1.45**			0.000997 J		
	MW-5A	Oct-19		**0.0939**	0.0137				0.000572 J	**5.14**	0.000327 J	**1.69**			0.000737 J		
	MW-5A	Jun-20		**0.195**	0.0153 J				0.00159 J	**3.57**	<0.00249	**0.653**			0.00116 J		
	MW-5A	Oct-20		**0.202**	0.0160 J				<0.00149	**5.02**	<0.00249	**0.848**			0.000974 J		
	MW-5A	Apr-21		**0.165**	0.0148 J				<0.00124	**5.64**	<0.000849	**1.01**			0.000927 J		
	MW-5A	Sep-21		**0.116**	0.0143				<0.00124	**4.84**	<0.000849	**1.69**			0.000862 J		
	MW-5B	Apr-15		**0.201**	0.0112 J				0.00277 J	**6.11**	<0.00120	**3.87**			0.00197 J		
	MW-5B	Apr-17		**0.154**	0.0115				<0.000540	**4.61**	<0.000240	**3.32**			0.00139 J		
	MW-5B	Apr-19		**0.169**	0.0105				0.000773 J	**4.70**	<0.000240	**3.10**			0.00244		
	MW-5B	Apr-21		**0.0117**	0.0132 J				0.00390	0.828	<0.000849	**1.01**			<0.000300		
	MW-5C	Apr-15		**0.0145**	0.0200 J				<0.00270	**1.15**	<0.00120	**0.975**			<0.00190		
	MW-5C	Apr-17		**0.0113**	0.0237				<0.000540	**1.09**	0.000287 J	**0.918**			<0.000380		
	MW-5C	Apr-19		**0.0114**	0.0127				<0.000540	0.858	0.000611 JB	**0.971**			<0.000380		
	MW-5C	Apr-21		**0.178**	0.0114 J				0.00149 J	**4.87**	<0.000849	**3.00**			0.00162 J		
	MW-6A	Apr-18		0.00960	0.0132				0.00136 JB	0.275 B	0.000553 J	**0.301**			0.000614 J		
	MW-6A	Apr-19		0.00818	0.0127				0.000969 J	0.468	0.000315 JB	**0.304**			0.000599 J		
	MW-6A	Jun-20		0.00491	0.0121 J				<0.00149	0.472	<0.00249	**0.259**			<0.000657		
	MW-6A	Apr-21		0.00554	0.0129 J				0.00184 J	0.478	0.000966 J	**0.282**			0.000382 J		
	MW-6B	Apr-15		**0.0333**	0.0164				<0.00110	**1.37**	<0.000480	**3.45**			<0.000760		
	MW-6B	Apr-17		**0.0115**	0.0134				<0.000540	0.149	<0.000240	**0.889**			<0.000380		
	MW-6B	Apr-19		**0.0421 O1**	0.0154				<0.000540	**1.48 O1**	0.00132 JB	**2.34 O1V**			0.000416 J		
	MW-6B	Apr-21		**0.0462**	0.0141 J				0.00209	**1.59**	<0.000849	**2.24**			<0.000300		
	MW-7A	Apr-19		**0.0251**	0.0155				<0.000540	**4.21**	0.000377 JB	**0.431**			0.000446 J		
	MW-7A	Apr-19	FD	**0.0266**	0.0164				<0.000540	**4.69**	<0.000240	**0.476**			<0.000380		
	MW-7A	Oct-19		**0.0188**	0.0172				0.00212	0.325	0.000280 J	**0.360 V**			0.00524		
	MW-7A	Oct-19	FD	**0.0193**	0.0183				0.00191 J	0.387	<0.000240	**0.372**			0.00509		
	MW-7A	Jun-20		**0.0158**	0.0135 J				0.00168 J	**1.86**	<0.00249	**0.384**			<0.000657		
	MW-7A	Jun-20	FD	**0.0178**	<0.0389				<0.00745	**2.25**	<0.0124	**0.448**			<0.00328		
	MW-7A	Oct-20		**0.0373**	0.0164 J				0.00394	**4.89**	<0.00249	**0.400**			<0.000657		
	MW-7A	Oct-20	FD	**0.0240**	0.0170 J				0.00266	**2.97**	<0.00249	**0.386**			<0.000657		
	MW-7A	Apr-21		**0.0482**	0.0183 J				0.0119	**9.48**	0.00198 J	**0.501**			0.000516 J		
	MW-7A	Apr-21	FD	**0.0235**	0.0158 J				0.00392 B	**3.45**	<0.000849	**0.477**			0.000495 J		
	MW-7A	Sep-21		**0.0118**	0.0166				<0.00124	0.869	<0.000849	**0.557**			0.000622 J		
	MW-7A	Sep-21	FD	**0.0122**	0.0168				0.00277	0.905	<0.000849	**0.543**			0.000662 J		
	MW-7B	Apr-15		0.00588	0.0111				0.000702 J	0.188	<0.000240	**0.580**			<0.000380		
	MW-7B	Apr-17		0.00397	0.0111				<0.000540	0.146	<0.000240	**0.472**			<0.000380		
	MW-7B	Apr-19		0.00400	0.0114				<0.000540	0.0885 J	0.000403 JB	**0.488**			<0.000380		
	MW-7B	Apr-21		0.00427	0.0112 J				<0.00124	0.121 B	<0.000849	**0.570**			0.000437 J		
	MW-10	Apr-19		**0.0149**	0.0118				0.000749 J	0.136	0.000501 J	**2.63**			0.000838 J		
	MW-10	Oct-19		**0.0184**	0.0219				<0.000540	**1.05**	<0.000240	**2.74**			0.000619 J		
	MW-10	Jun-20		**0.0143**	0.0132 J				<0.00149	0.199	<0.00249	**2.13 V**			<0.000657		
	MW-10	Oct-20		**0.0149**	0.0129 J				<0.00149	0.208	<0.00249	**2.40**			<0.000657		
	MW-10	Apr-21		**0.0142**	0.0143 J				0.00169 J	0.342 B	<0.000849	**2.66**			<0.000300		
	MW-10	Sep-21		**0.0194**	0.0184				<0.00124	0.809	<0.000849	**2.45**			0.000515 J		
	MW-11A	Apr-19		0.000398 J	0.0283				0.0207	0.953	0.000513 J	**0.207**			<0.000380		
	MW-11A	Oct-19															
	MW-11A	Jun-20		<0.000735	0.0294				0.00339	**1.76**	<0.00249	**1.55**			<0.000657		
	MW-11A	Oct-20															
	MW-11A	Apr-21		<0.00180	0.0285 J				<0.0124	0.919 J	<0.00849	0.145			<0.00300		
	MW-11A	Sep-21															
	MW-11B	Apr-15		0.00453 J	0.0189 J				<0.00540	**4.38**	<0.00240	**0.427**			<0.00380		
	MW-11B	Apr-17		0.00420	0.0189				<0.000540	**4.59**	<0.000240	**0.374**			<0.000380		
	MW-11B	Apr-19		0.00336	0.0160				<0.000540	**3.67**	<0.000240	**0.367**			<0.000380		
	MW-11B	Apr-21		0.00370 J	0.0203 J				<0.00620	**3.96**	<0.00424	**0.403**			<0.00150		

Appendix B, Table B.2 - Summary of Groundwater Analytical Data - Total Metals

2021 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	Total Metals													
				Analyte	Arsenic	Barium	Boron	Cadmium	Cobalt	Chromium	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Uranium	Vanadium
				CAS	7440-38-2	7440-39-3	7440-42-8	7440-43-9	7440-48-4	7440-47-3	7439-89-6	7439-92-1	7439-96-5	7439-97-6	7440-02-0	7782-49-2	7440-61-1	7440-62-2
				Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL	0.0100	2.00	0.750	0.00500	0.0500	0.0500	1.00	0.0150	0.200	0.00200	0.200	0.0500	0.0300	0.0631
				CGWSL Source	WQCC HH	WQCC HH	WQCCIrr	WQCCIrr	WQCC HH	WQCC HH	WQCC Dom	WQCC HH	WQCC Dom	WQCC HH	WQCCIrr	WQCC HH	WQCC HH	NMED TW
Area	Well ID	Date	Dup															
Evaporation Ponds	MW-15	Apr-18		**0.0165**	0.0225					0.00926	0.0730 J	0.000357 JB	**0.394**			0.00128 J		
	MW-15	Apr-19		**0.0204**	0.0242					<0.000540	0.0520 J	0.000401 J	0.166			0.00101 J		
	MW-15	Jun-20		0.00841	0.0175 J					<0.00149	<0.0489	<0.00249	**0.547**			<0.000657		
	MW-15	Apr-21		**0.0192**	0.0168 J					<0.00124	0.0483 J	<0.000849	**0.206**			0.000799 J		
	MW-18A	Apr-19		0.00549	0.0172	**2.14**	<0.000160		0.00141 J	<0.000540	0.0468 J	0.000249 J	**0.375**	<0.0000490	0.0109	0.000716 J	**0.0379**	0.000813 J
	MW-18A	Oct-19		0.00524	0.0163	**2.19**	<0.000160		0.000751 J	<0.000540	0.786	0.000355 J	**1.73**	<0.0000490	0.00798	0.000613 J	0.0271	0.00120 JB
	MW-18A	Jun-20		0.00419 J	<0.0389 J5	**1.88**	<0.00239		<0.00238	<0.00745	**1.65**	<0.0124	**1.13** O1V	<0.000100	0.00735 J	<0.00328	**<0.0377** J5	<0.00493
	MW-18A	Oct-20		0.00468	0.0171 J	**1.98**	<0.000478		0.00139 J	<0.00149	0.348	<0.00249	**1.39**	<0.000100	0.00846	<0.000657	0.0226	<0.000986
	MW-18A	Apr-21		0.00467	0.0160 J	**1.93**	<0.000150		0.000366 J	0.00204 B	0.0895 JB	<0.000849	0.0562	<0.000100	0.0122	0.000977 J	0.0275	<0.000664
	MW-18A	Sep-21		0.00452	0.0168	**2.02**	<0.000150		0.000294 J	<0.00124	0.310	<0.000849	**1.52**	<0.000100	0.0103	<0.000300	0.0221	0.000672 J
	MW-18B	Apr-15		**0.0120**	0.0125					0.000942 J	0.139	0.000814 J	**0.789**			<0.000380		
	MW-18B	Apr-17		0.00883	0.0137					<0.000540	0.0793 J	0.00104 J	**0.803**			<0.000380		
	MW-18B	Apr-19		**0.0115**	0.0168					<0.000540	0.138	0.000778 J	**1.26**			<0.000380		
	MW-18B	Apr-21		0.00806	0.0137 J					<0.00124	0.0497 JB	<0.000849	**1.09**			<0.000300		
	MW-22A	Apr-19		**0.0355**	0.0149					0.00184 J	**2.29**	0.000242 J	**5.39**			0.00137 J		
	MW-22A	Apr-19	FD	**0.0333**	0.0152					0.00110 J	**2.25**	<0.000240	**5.54**			0.00101 J		
	MW-22A	Oct-19		**0.0263**	0.0315					<0.000540	0.769	0.000240 J	**1.46**			0.00842		
	MW-22A	Oct-19	FD	**0.0256**	0.0318					<0.000540	0.718	0.000294 J	**1.46**			0.00798		
	MW-22A	Jun-20		**0.0299**	0.0168 J					<0.00149	**2.21**	<0.00249	**2.94**			0.00271		
	MW-22A	Jun-20	FD	**0.0311**	0.0177 J					<0.00149	**1.77**	<0.00249	**3.10**			0.00171 J		
	MW-22A	Oct-20		**0.0309**	0.0163 J					<0.00149	**3.96**	<0.00249	**3.57**			0.00147 J		
	MW-22A	Oct-20	FD	**0.0301**	0.0165 J					<0.00149	**4.02**	<0.00249	**3.69**			0.00132 J		
	MW-22A	Apr-21		**0.0277**	0.0138 J					<0.00124	0.976	<0.000849	**3.63**			0.000986 J		
	MW-22A	Apr-21	FD	**0.0262**	0.0143 J					<0.00620	0.725	<0.00424	**3.67**			<0.00150		
	MW-22A	Sep-21		**0.0335**	0.0268					<0.00124	0.195	<0.000849	**0.849**			0.0279		
	MW-22A	Sep-21	FD	**0.0328**	0.0285					<0.00124	0.168	<0.00849	**0.868**			0.0288		
	MW-22B	Apr-15		**0.0389**	0.0160 J					<0.00270	**2.32**	0.00134 J	**4.32**			<0.00190		
	MW-22B	Apr-17		**0.0255**	0.0116					<0.000540	**1.03**	0.000313 J	**3.35**			0.000603 J		
	MW-22B	Apr-19		**0.0316**	0.0134					0.00173 J	**1.99**	<0.000240	**4.31**			0.000766 J		
	MW-22B	Apr-21		**0.0298**	0.0150 J					<0.00124	**2.04**	<0.000849	**5.02**			0.000614 J		
	MW-70	Apr-19		**0.0191**	0.0173					<0.000540	**1.23**	0.000601 J	**0.508**			<0.000380		
	MW-70	Oct-19		**0.0177**	0.0151					<0.000540	**3.92**	<0.000240	**0.369**			<0.000380		
	MW-70	Jun-20		**0.0157**	0.0156 J					<0.00149	**4.07**	<0.00249	**0.257**			<0.000657		
	MW-70	Oct-20		**0.0166**	0.0171 J					<0.00149	**4.50**	<0.00249	**0.299**			<0.000657		
	MW-70	Apr-21		**0.0168**	0.0144 J					<0.00124	**1.78**	<0.000849	0.0996			<0.000300		
	MW-70	Sep-21		**0.0187**	0.0193					<0.00124	**6.21**	<0.000849	**0.987**			<0.000300		
	MW-72	Apr-18		**0.0175**	0.0155					0.000688 JB	**2.04**	<0.000240	**3.04**			0.00173 J		
	MW-72	Apr-19		**0.0109**	0.0123					0.000785 J	**1.21**	<0.000240	**1.27**			0.00232		
	MW-72	Jun-20		0.00851	0.0124 J					<0.00149	**1.99**	<0.00249	**1.91**			0.00175 J		
	MW-72	Apr-21		0.00548	0.0114 J					0.00175 J	0.730	<0.00424	**0.952**			0.00102 J		
	MW-73	Apr-18		**0.0614**	0.00806					0.00109 JB	0.932	<0.000240	**1.84**			0.00147 J		
	MW-73	Apr-19		**0.0806**	0.0106					0.00152 J	0.315	<0.000240	0.0807			0.00616		
	MW-73	Jun-20		**0.0493**	0.00886 J					0.00186 J	**2.78**	<0.00249	**1.89**			0.00195 J		
	MW-73	Apr-21		**0.0440**	0.00786 J					0.00337	**1.45**	<0.00424	**0.337**			0.00136 J		
	MW-74	Apr-19		**0.0613**	0.0118					0.000701 J	<0.0150	<0.000240	**1.59**			**0.0893**		
	MW-74	Oct-19		**0.0885**	0.0185					0.000980 J	**1.09**	0.000594 J	**1.94**			0.0133		
	MW-74	Jun-20		**0.0552**	0.0160 J					0.00165 J	0.325	<0.00249	**1.13**			**0.151**		
	MW-74	Oct-20		**0.0779**	0.0153 J					<0.00149	0.0779 J	0.00433 J	**1.39**			0.0354		
	MW-74	Apr-21		**0.104**	0.0120 J					0.00131 J	0.0333 J	<0.000849	**1.36**			0.0146		
	MW-74	Sep-21		**0.101**	0.0151					<0.00124	**1.49**	0.00121 J	**2.03**			0.0132		
	MW-75	Apr-19		**0.110**	0.0183					0.00549	0.464	0.000549 J	**0.931**			0.00388		
	MW-75	Oct-19		**0.246**	0.0135					0.00116 J	**4.16**	<0.000240	**1.13**			0.00228		
	MW-75	Jun-20		**0.270**	0.0149 J					0.00163 J	**4.58**	<0.00249	**1.13**			0.00228		
	MW-75	Oct-20		**0.320**	0.0146 J					0.00240	**5.28**	<0.00249	**0.885**			0.00271		
	MW-75	Apr-21		**0.102**	0.0157 J					0.00132 J	0.314	<0.000849	**1.01**			0.00208		
	MW-75	Sep-21		**0.372**	0.0142					0.00140 J	**7.31**	<0.000849	**1.11**			0.00209		
	MW-76	Apr-19		**0.0519**	0.0116					0.00249	**3.42**	<0.000240	**0.640**			0.00338		
	MW-76	Oct-19		**0.0553**	0.0138					0.00157 J	**5.26**	<0.000240	**1.17**			0.00403		
	MW-76	Jun-20		**0.0378**	0.0121 J					0.00180 J	**3.52**	<0.00249	**0.737**			0.00379		
	MW-76	Oct-20		**0.0401**	0.0127 J					0.00176 J	**3.36**	<0.00249	**0.682**			0.00228		
	MW-76	Apr-21		**0.0333**	0.0126 J					<0.00124	**2.78**	<0.000849	**0.689**			0.00154 J		
	MW-76	Sep-21		**0.0325**	0.0135					<0.00124	**3.27**	<0.000849	**1.15**			0.00192 J		
	MW-77	Apr-18		**0.0431**	0.00992					0.00946	**5.64**	0.000745 J	**0.540**			0.00983		
	MW-77	Apr-19		**0.0406**	0.00936					0.0113	**9.12**	0.000342 J	**0.551**			0.0125		
	MW-77	Jun-20		**0.0416**	0.0107 J					0.00879	**8.79**	<0.00249	**0.576**			0.00835		
	MW-77	Apr-21		**0.0281**	0.0115 J					0.0138	**2.35**	<0.000849	**0.637**			0.00866		
	MW-78	Apr-18		0.0100	0.0459					**0.142**	0.185 B	0.000249 J	0.198			0.0119		
	MW-78	Apr-19		0.00686	0.0506					**0.248**	0.175	0.000454 J	0.0582			0.0185		
	MW-78	Jun-20		**0.0237**	0.0498					**0.126**	**6.51**	<0.00249	**0.735**			0.00764		
	MW-78	Apr-21		0.00985	0.0433					**0.215**	0.436	<0.000849	**0.372**			0.0120		
	MW-79	Apr-19		0.00562	0.0165					0.00117 J	0.0595 J	<0.000240	**0.443**			0.00174 J		
	MW-79	Oct-19		0.00670	0.0190					<0.000540	**5.43**	<0.000240	**5.54**			0.000432 J		
	MW-79	Jun-20		0.00291	0.0154 J					<0.00149	0.998	<0.00249	**4.60**			<0.000657		
	MW-79	Oct-20		0.00397	0.0158 J					<0.00149	**1.95**	<0.00249	**4.98**			<0.000657		
	MW-79	Apr-21		0.00266	0.0136 J					<0.00124	0.0976 J	<0.000849	**0.620**			0.000434 J		
	MW-79	Sep-21		0.00371	0.0155					<0.00124	0.318	<0.000849	**2.88**			0.000333 J		
	MW-80	Apr-18		0.00302	0.0110					0.00109 JB	0.139 B	<0.000240	0.129			0.00111 J		
	MW-80	Apr-19		0.00215	0.0139					**0.0511**	0.176	<0.000240	0.180			0.000866 J		
	MW-80	Jun-20		0.00174 J	0.0137 J					<0.00149	0.276	<0.00249	**1.47**			<0.000657		
	MW-80	Apr-21		0.00170 J	0.0130 J					<0.00124	0.0443 J	<0.000849	0.0589			0.000549 J		
	MW-81	Apr-18		0.00875	0.0154					0.000676 JB	<0.0150	0.000245 J	0.0200			0.00666		
	MW-81	Apr-19		0.00687	0.0132					0.00109 J	<0.0150	0.000324 J	0.0379 O1			0.00488		
	MW-81	Jun-20		0.00402	0.0110 J					<0.00149	<0.0489	<0.00249	**0.506**			0.00331		
	MW-81	Apr-21		0.00614	0.0144 J					<0.00124	<0.0281	<0.000849	0.0251			0.00699		
	MW-82	Apr-18		**0.0297**	0.0260					0.00125 J	0.0904 JB	0.000271 J	**2.00**			0.00146 J		
	MW-82	Apr-19		**0.0282**	0.0234					0.00139 J	0.0888 J	0.000348 J	**1.86**			0.00186 J		
	MW-82	Jun-20		**0.0964**	0.0235					0.00215	**4.11**	<0.00249	**2.22**			0.00109 J		
	MW-82	Apr-21		**0.0153**	0.0230					<0.00124	0.156	<0.000849	**2.70**			0.000571 J		
	MW-83	Apr-19		**0.0210**	0.0164					0.00725	0.324	0.00177 JB	**0.443**			0.0125		
	MW-83	Oct-19		**0.0508**	0.0477					0.0185	**7.75**	0.00166 J	**0.859**			0.00699		
	MW-83	Jun-20		**0.0378**	0.0246					0.00317	0.151	<0.00249	**0.332**			0.0101		
	MW-83	Oct-20		**0.0321**	0.0276					0.0189	**6.79**	<0.00249	**0.258**			0.00298		
	MW-83	Apr-21		**0.0423**	0.0311					0.00416	0.269	<0.000849	0.169			0.00282		
	MW-83	Sep-21		**0.0456**	0.0164					0.00337	0.192	<0.000849	0.0963			0.0111		
	MW-84	Apr-19		**0.0809**	0.0131					0.00180 J	0.643	0.000296 JB	**2.50**			0.00480		
	MW-84	Oct-19		**0.143**	0.0127					0.00201	**6.50**	<0.000240	**2.74**			0.00421		
	MW-84	Jun-20		**0.147**	0.0137 J					0.00570	**5.90**	<0.00249	**2.54**			0.00751		
	MW-84	Oct-20		**0.187**	0.0134 J					0.00501	**9.43**	0.00278 J	**3.05**			0.00589		
	MW-84	Apr-21		**0.102**	0.0129 J					0.00369	**1.25**	<0.000849	**2.46**			0.00662		
	MW-84	Sep-21		**0.218**	0.0158					0.0103	**9.62**	0.00101 J	**2.24**			0.0112		
	MW-86	Jun-20		**0.104**	0.0255	0.626	<0.000478		0.000506 J	**0.0552**	**4.20**	<0.00249	0.158	<0.000100	0.00828	0.00715	<0.00754	0.0220
	MW-86	Oct-20		**0.0948**	0.0184 J	0.671	<0.000478		<0.000477	0.0388	0.210	0.00356 J	0.170	<0.000100	0.00447	0.00443	<0.00754	0.0209

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Appendix B, Table B.2 - Summary of Groundwater Analytical Data - Total Metals

2021 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	Total Metals													
				Analyte	Arsenic	Barium	Boron	Cadmium	Cobalt	Chromium	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Uranium	Vanadium
				CAS	7440-38-2	7440-39-3	7440-42-8	7440-43-9	7440-48-4	7440-47-3	7439-89-6	7439-92-1	7439-96-5	7439-97-6	7440-02-0	7782-49-2	7440-61-1	7440-62-2
				Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL	0.0100	2.00	0.750	0.00500	0.0500	0.0500	1.00	0.0150	0.200	0.00200	0.200	0.0500	0.0300	0.0631
				CGWSL Source	WQCC HH	WQCC HH	WQCCIrr	WQCCIrr	WQCC HH	WQCC HH	WQCC Dom	WQCC HH	WQCC Dom	WQCC HH	WQCCIrr	WQCC HH	WQCC HH	NMED TW
Area	Well ID	Date	Dup															
Evaporation Ponds	MW-87	Apr-19		0.00484	0.0159				<0.000540	0.122	0.000477 J	0.189			<0.000380		
	MW-87	Oct-19		0.00577	0.0176				<0.000540	0.156	0.000308 J	**0.808**			0.000543 J		
	MW-87	Jun-20		0.00424	0.0145 J				0.00174 J	0.0502 J	<0.0124	**2.65**			<0.000657		
	MW-87	Oct-20		0.00783	0.0169 J				<0.00149	0.925	<0.00249	**1.56 V**			<0.000657		
	MW-87	Apr-21		0.00657	0.0156 J				<0.00124	0.881	<0.000849	**1.08**			<0.000300		
	MW-87	Sep-21		0.00620	0.0167				<0.00124	0.361	<0.000849	**1.90**			<0.000300		
	MW-88	Apr-19		0.00713	0.0109				0.00124 J	0.0221 J	<0.000240	**0.929**			0.000430 J		
	MW-88	Oct-19		0.00643	0.0110				<0.000540	0.0183 J	<0.000240	**0.926**			<0.000380		
	MW-88	Jun-20		0.00559	0.00971 J				<0.00149	0.0546 J	<0.00249	**0.807**			<0.000657		
	MW-88	Oct-20		0.00645	0.0106 J				<0.00149	<0.0489	<0.00249	**0.898**			<0.000657		
	MW-88	Apr-21		0.00716	0.0110 J				0.00295	0.0286 JB	<0.000849	**0.983**			0.000381 J		
	MW-88	Sep-21		0.00750	0.0103				<0.00124	0.0347 J	<0.000849	**0.982**			<0.000300		
	MW-120	Apr-19		**0.0141**	0.0112				<0.000540	**5.86**	0.000743 JB	**1.21**			0.000890 J		
	MW-120	Oct-19		0.00935	0.0115				<0.000540	**4.05**	<0.000240	**1.28**			0.000828 J		
	MW-120	Jun-20		0.00614	0.00971 J				<0.00149	**2.94**	<0.00249	**0.973**			<0.000657		
	MW-120	Oct-20		0.00769	0.0109 J				<0.00149	**4.31**	<0.00249	**1.38**			0.000719 J		
	MW-120	Apr-21		0.00624	0.0107 J				<0.00124	**4.59**	<0.000849	**1.32**			<0.000300		
	MW-120	Sep-21		0.00561	0.0104				<0.00124	**4.29**	<0.000849	**1.36 O1V**			0.000527 J		
	MW-121	Apr-19		**0.145**	0.0122				<0.000540	**2.10**	0.000348 JB	**2.02**			0.00529		
	MW-121	Oct-19		**0.0387**	0.0126				0.000795 J	0.212	<0.000240	**1.01**			0.00749		
	MW-121	Jun-20		**0.131**	0.0115 J				<0.00149	**2.33**	<0.00249	**2.29**			0.00453		
	MW-121	Oct-20		**0.105**	0.0134 J				0.00380	**1.88**	<0.00249	**2.51**			0.00320		
	MW-121	Apr-21		**0.0252**	0.0120 J				<0.00124	0.0709 J	<0.000849	**1.83**			0.00686		
	MW-121	Sep-21		**0.0251**	0.0120				<0.00124	0.0384 J	<0.000849	**1.94**			0.0108		
	MW-122	Apr-19		0.00196 J	0.0250				0.000767 J	0.833	0.000610 JB	**1.14**			0.000524 J		
	MW-122	Oct-19		0.00452	0.0213				0.000756 J	**5.96**	0.000780 J	**1.09**			<0.000380		
	MW-122	Jun-20		0.00412	0.0194 J				<0.00149	**3.11**	<0.00249	**1.02 V**			0.000840 J		
	MW-122	Oct-20		0.00425	0.0223				<0.00149	**4.97**	<0.00249	**1.01**			<0.000657		
	MW-122	Apr-21		0.00184 J	0.0191 J				0.00163 J	**1.02**	<0.000849	0.115			<0.000300		
	MW-122	Sep-21		0.00393	0.0221				<0.00124	**5.22**	<0.000849	**1.16**			<0.000300		
	MW-123	Apr-19		**0.0202**	0.0235				0.000931 J	0.0411 J	0.000440 J	**2.76**			0.000559 J		
	MW-123	Oct-19		**0.0263**	0.0228				<0.000540	0.647	<0.000240	**2.43 V**			0.000672 J		
	MW-123	Jun-20		**0.0185**	0.0328				<0.00149	0.0870 J	<0.00249	**3.19**			<0.000657		
	MW-123	Oct-20		**0.0195**	0.0317				<0.00149	0.0586 J	<0.00249	**3.23**			<0.000657		
	MW-123	Apr-21		**0.0181**	0.0316				<0.00124	0.0591 J	<0.000849	**3.40**			0.000398 J		
	MW-123	Sep-21		**0.0182**	0.0305				<0.00124	0.0900 J	<0.000849	**3.44**			<0.000300		
	MW-124	Apr-19		0.00175 J	0.0207				<0.000540	**3.87**	<0.000240	**0.535**			<0.000380		
	MW-124	Oct-19		0.00152 J	0.0194				<0.000540	**2.69**	<0.000240	**0.617**			<0.000380		
	MW-124	Jun-20		<0.00368	<0.0389				<0.00745	**6.01**	<0.0124	**0.440**			<0.00328		
	MW-124	Oct-20		0.00195 J	0.0214				<0.00149	**5.78**	<0.00249	**0.435**			<0.000657		
	MW-124	Apr-21		0.00144 J	0.0180 J				<0.00124	**3.65**	<0.000849	**0.390**			<0.000300		
	MW-124	Sep-21		0.00182 J	0.0190				<0.00124	**3.85**	<0.000849	**0.579**			<0.000300		
	OCD-1R	Apr-19		0.00271	0.0172				<0.000540	0.146	0.000336 J	**0.214**			0.00143 J		
	OCD-1R	Oct-19		0.00398	0.0247				0.000914 J	0.646	0.000264 J	**1.75**			0.00268		
	OCD-1R	Jun-20		0.00374	0.0202				<0.00149	**1.19**	<0.00249	**2.06**			<0.000657		
	OCD-1R	Oct-20		0.00318	0.0176 J				0.00201	0.435	<0.00249	**1.03**			0.000844 J		
	OCD-1R	Apr-21		0.00254	0.0194 J				0.00169 J	0.155	<0.000849	0.178			0.000499 J		
	OCD-1R	Sep-21		0.00689	0.0236				<0.00124	**2.41**	<0.000849	**2.00**			0.000465 J		
	OCD-2A	Apr-19		0.00207	0.0229				0.00138 J	0.860	<0.000240	0.180			<0.000380		
	OCD-2A	Oct-19		0.00146 J	0.0232				<0.000540	0.700	0.000258 J	**0.408**			0.00120 J		
	OCD-2A	Jun-20		0.00147 J	0.0206				<0.00149	**1.85**	<0.00249	**1.32**			<0.000657		
	OCD-2A	Oct-20		0.00376	0.0224				<0.00149	**4.39**	<0.00249	**1.16**			<0.000657		
	OCD-2A	Apr-21		0.00108 J	0.0221				0.00166 J	0.794	<0.000849	**0.445**			0.000378 J		
	OCD-2A	Sep-21		0.00279	0.0217				<0.00124	**2.04**	<0.000849	**0.736**			0.000395 J		
	OCD-3	Apr-19		0.00117 J	0.0187				0.00115 J	0.401	<0.000240	0.0976			<0.000380		
	OCD-3	Oct-19		0.000962 J	0.0207				<0.000540	0.327	<0.000240	0.178			<0.000380		
	OCD-3	Jun-20		0.000791 J	0.0168 J				<0.00149	0.174	<0.00249	**0.511**			<0.000657		
	OCD-3	Oct-20		0.000998 J	0.0185 J				0.00151 J	0.317	<0.00249	0.199			<0.000657		
	OCD-3	Apr-21		0.000755 J	0.0194 J				<0.00124	0.165	<0.000849	0.150			<0.000300		
	OCD-3	Sep-21		0.000890 J	0.0206				<0.00124	0.183	<0.000849	0.0832			0.000419 J		
	OCD-4	Apr-19		0.00267	0.0240				0.00158 J	**2.42**	<0.000240	0.185			0.000969 J		
	OCD-4	Oct-19		0.00219	0.0272				<0.000540	**1.22**	<0.000240	**0.299**			<0.000380		
	OCD-4	Jun-20		0.00325	0.0229				<0.00149	**3.26**	<0.00249	**0.300**			<0.000657		
	OCD-4	Oct-20		0.00221	0.0245				<0.00149	**1.95**	<0.00249	**0.218**			<0.000657		
	OCD-4	Apr-21		0.00159 J	0.0266 J				<0.00620	0.923	<0.00424	0.0597			<0.00150		
	OCD-4	Sep-21		0.00405	0.0256				<0.00124	**3.07**	<0.000849	**0.271**			<0.000300		
	OCD-5	Apr-19		0.00640	0.0222				0.000901 J	**6.05**	0.000447 J	**0.205**			<0.000380		
	OCD-5	Oct-19		**0.0125**	0.0270				<0.000540	**5.39**	<0.000240	**0.367**			<0.000380		
	OCD-5	Jun-20		**0.0146**	0.0256				<0.00149	**8.25**	<0.00249	**0.279**			<0.000657		
	OCD-5	Oct-20		**0.0142**	0.0266				0.00194 J	**7.26**	<0.00249	**0.332**			<0.000657		
	OCD-5	Apr-21		0.00580 J	0.0272 J				<0.00620	**5.05**	<0.00424	**0.269**			<0.00150		
	OCD-5	Sep-21		**0.0142**	0.0278				<0.00124	**9.83**	<0.000849	**0.357**			0.000322 J		
	OCD-6	Apr-19		0.00760	0.0233				0.000693 J	**2.13**	0.000310 JB	**2.27**			0.000644 J		
	OCD-6	Oct-19		0.00620	0.0188				<0.000540	0.397	<0.000240	**1.23**			0.00173 J		
	OCD-6	Jun-20		0.00686	0.0213				<0.00149	**2.80**	<0.00249	**2.28**			<0.000657		
	OCD-6	Oct-20		0.00831	0.0220				<0.00149	**4.53**	<0.00249	**2.54 V**			<0.000657		
	OCD-6	Apr-21		0.00751	0.0209				0.00202	**1.36**	<0.00424	**2.44**			0.000675 J		
	OCD-6	Sep-21		0.00808	0.0255				<0.00124	**3.86**	<0.000849	**1.92**			0.000818 J		
	OCD-7AR	Apr-19		**0.0650**	0.0130				0.00123 J	0.583	0.00175 JB	**0.203**			0.00225		
	OCD-7AR	Oct-19		**0.108**	0.0165				0.000615 J	**12.0**	<0.000240	**2.96**			0.00161 J		
	OCD-7AR	Jun-20		**0.0978**	0.0138 J				<0.00149	**9.81**	<0.00249	**2.62**			0.00152 J		
	OCD-7AR	Oct-20		**0.0974**	0.0149 J				<0.00149	**10.4**	<0.00249	**2.63**			0.00159 J		
	OCD-7AR	Apr-21		**0.110**	0.0154 J				<0.00124	**13.1**	<0.000849	**3.04 V**			0.00203		
	OCD-7AR	Sep-21		**0.0915**	0.0155				<0.00124	**11.8**	<0.000849	**3.07**			0.00163 J		
	OCD-7B	Apr-15		0.00294 J	0.0196 J				<0.00270	**3.52**	<0.00120	**0.710**			<0.00190		
	OCD-7B	Apr-17		0.00194 J	0.0179				<0.000540	**2.73**	<0.000240	**0.621**			<0.000380		
	OCD-7B	Apr-19		0.00184 J	0.0163				0.000918 J	**4.81**	0.000715 JB	**0.564**			<0.000380		
	OCD-7B	Apr-21		0.00169 J	0.0151 J				<0.00124	**4.34**	<0.000849	**0.669**			<0.000300		
	OCD-8A	Apr-19		**0.0819**	0.0176	**0.812**	<0.000160	0.00110 J	0.000683 J	**7.45**	0.000252 JB	**3.68**	<0.0000490	0.0199	0.00114 J	0.000772 J	0.000740 J
	OCD-8A	Oct-19		**0.0374**	0.0270	**1.73**	0.000164 J	0.00260	0.00197 J	0.847	<0.00120	**1.20**	<0.0000490	0.0627	0.0313	0.0168 J	0.00218 J
	OCD-8A	Jun-20		**0.0630**	0.0160 J	**0.958**	<0.000478	0.00175 J	0.00323	**4.76**	<0.00249	**1.88**	<0.000100	0.0670	0.00134 J	<0.00754	<0.000986
	OCD-8A	Oct-20		**0.0669**	0.0196 J	**1.08**	<0.000478	0.00192 J	0.00203	**5.36**	<0.00249	**2.42**	<0.000100	0.0384	0.00156 J	<0.00754	0.00105 J
	OCD-8A	Apr-21		**0.0621**	0.0174 J	**0.906**	<0.000150	0.00185 J	<0.00124	**5.53**	<0.000849	**2.49**	<0.000100	0.0310	0.00119 J	0.00343 J	0.000846 J
	OCD-8A	Sep-21		**0.0449**	0.0205	**1.19**	<0.000150	0.00332	<0.00124	**2.45**	<0.00849	**2.94**	<0.000100	0.0350	0.00117 J	0.00636 J	0.00120 J
	OCD-8B	Apr-15		**0.0126**	0.0141				0.000872 J	0.239	0.000392 J	**5.98**			0.000525 J		
	OCD-8B	Apr-17		0.00912	0.0124				<0.000540	0.266	0.000256 J	**6.36**			<0.000380		
	OCD-8B	Apr-19		0.0100	0.0135				<0.000540	0.240	0.000392 J	**7.21 V**			0.000541 J		
	OCD-8B	Apr-21		0.00986	0.0128 J				<0.00124	0.198 B	<0.000849	**6.01**			0.000465 J		
Field East of Refinery	KWB-1A	Apr-19		0.00375	0.00849	**0.809**	<0.000160	0.00429	0.00152 JB	<0.0150	0.000374 JB	**0.341**	<0.0000490	0.00761	0.000736 J	0.0199	0.0238
	KWB-1A	Oct-19		0.00353	0.00810	0.749	<0.000160	0.0135	<0.000540	<0.0150	0.000643 JB	**0.498**	0.0000552 JB	0.00727	0.000491 J	0.0156	0.0233
	KWB-1A	Jun-20		0.00334	0.00826 J	0.723	<0.000478	0.00315	<0.00149	<0.0489	<0.00249	**0.305**	<0.000100	0.00630	<0.000657	0.0157 J	0.0230
	KWB-1A	Oct-20		0.00378	0.00798 J	0.712	<0.000478	0.00550	<0.00149	<0.0489	<0.00249	**0.399**	<0.000100	0.00769	<0.000657	0.0128 J	0.0236
	KWB-1C	Apr-15		0.00338	0.00918				<0.000540	0.0537 J	0.000320 J	**0.462**			0.000549 J		
	KWB-1C	Apr-17		0.00303	0.00955				<0.000540	<0.0150	<0.000240	**0.501**			<0.000380		
	KWB-1C	Apr-19		0.00347	0.00925				0.00162 JB	0.0269 J	0.000292 JB	**0.482**			<0.000380		
	KWB-1C	Apr-21		0.00331	0.00957 J				<0.00124	0.0295 J	<0.000849	**0.420**			0.000303 J		

Appendix B, Table B.2 - Summary of Groundwater Analytical Data - Total Metals

2021 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	Total Metals													
				Analyte	Arsenic	Barium	Boron	Cadmium	Cobalt	Chromium	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Uranium	Vanadium
				CAS	7440-38-2	7440-39-3	7440-42-8	7440-43-9	7440-48-4	7440-47-3	7439-89-6	7439-92-1	7439-96-5	7439-97-6	7440-02-0	7782-49-2	7440-61-1	7440-62-2
				Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL	0.0100	2.00	0.750	0.00500	0.0500	0.0500	1.00	0.0150	0.200	0.00200	0.200	0.0500	0.0300	0.0631
				CGWSL Source	WQCC HH	WQCC HH	WQCCIrr	WQCCIrr	WQCC HH	WQCC HH	WQCC Dom	WQCC HH	WQCC Dom	WQCC HH	WQCCIrr	WQCC HH	WQC HH	NMED TW
Area	Well ID	Date	Dup															
Field East of Refinery	KWB-7	Jun-20		0.00153 J	0.0692	0.418	<0.000478	<0.000477	<0.00149	0.678	0.00545	**2.57**	<0.000100	0.00133 J	<0.000657	<0.00754	0.00412 J
	KWB-7	Oct-20		<0.00368	0.0528 J	0.439	<0.00239	<0.00238	<0.00745	<0.244	<0.0124	**2.15**	<0.000100	<0.00476	<0.00328	**<0.0377**	<0.00493
	KWB-7	Apr-21		0.00346	0.259	0.435	<0.000150	0.00108 J	<0.00124	**1.58**	0.00264	**1.34**	<0.000100	0.00336	0.000427 J	0.00404 J	0.00459 J
	KWB-7	Sep-21		0.000478 J	0.0668	0.450	<0.000150	0.000222 J	<0.00124	0.673	0.00123 J	**2.06**	<0.000100	0.000855 J	<0.000300	0.000474 J	0.00116 J
	KWB-8	Oct-16		0.00109 J	0.139	0.665	<0.000160	<0.000260	0.000710 JB	0.672	0.00387	**0.997**	<0.0000490 J6	0.00102 JB	0.000475 J	0.000746 J	0.00122 J
	KWB-8	Apr-17		0.00129 J	0.106	0.632	<0.000160	0.000264 J	0.000851 J	**1.07**	0.00495	**1.83**	<0.0000490	0.00120 J	<0.000380	<0.000330	0.00157 J
	KWB-8	Oct-17		0.00135 J	0.130	**0.769**	<0.000160	<0.000260	0.00153 J	0.0804 J	0.00296	**0.510**	<0.0000490	0.000997 J	0.0463	<0.000330	0.00112 J
	KWB-8	Oct-20		0.00348	0.0706	0.661	<0.000478	0.000490 J	0.00626	**1.32**	0.00678	0.0432	<0.000100	0.00306	<0.000657	<0.00754	0.00115 J
	KWB-10R	Apr-17		**0.0157**	**3.82**				<0.000540	**5.21**	0.000971 J	0.157			<0.000380		
	KWB-10R	Oct-17		**0.0170**	**3.85**				<0.000540	**5.24**	0.000996 J	0.163			<0.000380		
	KWB-10R	Apr-18		**0.0169**	**3.91**				<0.000540	**4.57**	0.00320	0.170			<0.000380		
	KWB-10R	Oct-18		**0.0164**	**3.93**				<0.00270	**4.24**	0.00124 J	0.168			<0.00190		
	KWB-11A	Apr-19		0.00966	0.0450	0.444	<0.000160	0.0108	<0.000540	**3.95**	0.00137 J	**1.05**	<0.0000490	0.0137	0.000527 J	0.0148	0.00424 J
	KWB-11A	Jun-20		**0.0111**	0.0329	0.380	<0.000478	0.00371	<0.00149	**7.33**	0.00307 J	**0.570**	<0.000100	0.00429	0.00104 J	0.0143 J	0.00286 J
	KWB-11A	Oct-20		0.00403	0.0227	0.387	<0.000478	0.00271	<0.00149	**1.05**	<0.00249	**0.471**	<0.000100	0.00413	0.00134 J	0.0118 J	0.00555
	KWB-11A	Sep-21		0.00815	0.0251	0.379	<0.000150	0.00133 J	<0.00124	**4.00**	0.00116 J	**0.651**	<0.000100	0.00286	0.000361 J	0.0115	0.00404 J
	KWB-11B	Apr-19		0.00141 J	0.0137	0.161 JB	<0.000160	<0.000260	0.000800 J	<0.0150	0.000488 J	0.00172 J	<0.0000490	<0.000350	0.00969	0.0117	0.00783
	KWB-11B	Oct-19		0.00141 J	0.0137	0.100 J	<0.000160	<0.000260	0.000769 J	<0.0150	<0.000240	0.00109 J	0.0000867 JB	0.000350	0.00915	0.0108	0.00915
	KWB-11B	Jun-20		0.00119 J	0.0144 J	0.0989 J	<0.000478	<0.000477	<0.00149	<0.0489	<0.00249	0.00213 J	<0.000100	<0.000952	0.00865	0.0125 J	0.00855
	KWB-11B	Oct-20		<0.00368	<0.0389	0.111 J	<0.00239	<0.00238	<0.00745	<0.244	<0.0124	<0.00660	<0.000100	<0.00476	0.00750 J	**<0.0377**	0.00905 J
	KWB-11B	Apr-21		0.00147 J	0.0146 J	0.102 J	<0.000150	<0.0000596	0.00141 J	0.0796 J	<0.000849	0.00333 J	<0.000100	<0.000816	0.00854	0.0125 J	0.00965
	KWB-11B	Sep-21		0.00146 J	0.0149	0.115 J	<0.000150	<0.0000596	<0.00124	<0.0281	<0.000849	0.00340 J	<0.000100	<0.000816	0.00639	0.0132	0.00872
	KWB-12A	Oct-19		0.00156 J	0.0144	0.568	<0.000160	<0.000260	<0.000540	0.0166 JB	0.000468 JB	0.00146 J	0.0000672 JB	0.000797 J	0.00368	0.0235	0.0113
	KWB-12A	Jun-20		0.00217	0.0182 J	0.552	<0.000478	<0.000477	<0.00149	0.195	<0.00249	0.0199	<0.000100	0.00213	0.00292	0.0268	0.0112
	KWB-12A	Oct-20		0.00148 J	0.0188 J	0.535	<0.000478	<0.000477	<0.00149	<0.0489	<0.00249	0.00279 JB	<0.000100	<0.000952	0.00371	0.0267	0.00976
	KWB-12A	Sep-21		0.00158 J	0.0194	0.503	<0.000150	0.0000641 J	0.00124 J	0.0498 J	<0.000849	0.00144 J	<0.000100	0.000944 J	0.00549	0.0260	0.0135
	KWB-12B	Apr-19		0.00195 J	0.0128	0.606	<0.000160	<0.000260	0.000875 JB	0.137	0.000534 JB	0.0110	<0.0000490	0.000567 JB	0.00355	0.0299	0.0141
	KWB-12B	Apr-19	FD	0.00186 J	0.0100	0.601	<0.000160	<0.000260	0.000663 J	0.0433 JB	<0.000240	0.00208 J	0.000152 J	0.00230	0.00310	0.0279	0.0121
	KWB-12B	Oct-19		0.00176 J	0.00924	0.580	<0.000160	<0.000260	<0.000540	0.0196 JB	0.000455 JB	0.00193 J	0.0000601 JB	0.000350	0.00343	0.0257	0.0123
	KWB-12B	Oct-19	FD	0.00175 J	0.00933	0.577	<0.000160	<0.000260	0.000731 J	0.0234 J	<0.000240	0.00406 J	0.0000574 JB	0.000403 J	0.00354	0.0281	0.0124
	KWB-12B	Jun-20		0.00169 J	0.00835 J	0.594	<0.000478	<0.000477	<0.00149	<0.0489	<0.00249	<0.00132	<0.000100	<0.000952	0.00268	0.0275	0.0129
	KWB-12B	Jun-20	FD	0.00178 JB	0.00890 J	0.590	<0.000478	<0.000477	<0.00149	<0.0489	<0.00249	<0.00132	<0.000100	0.0162	0.00254	0.0266	0.0126
	KWB-12B	Oct-20		0.00189 J	0.00994 J	0.580	<0.000478	<0.000477	<0.00149	<0.0489	<0.00249	<0.00132	<0.000100	0.00146 J	0.00294	0.0287	0.0135
	KWB-12B	Oct-20	FD	0.00173 J	0.00955 J	0.577	<0.000478	<0.000477	0.00173 J	<0.0489	<0.00249	<0.00132	<0.000100	<0.000952	0.00269	0.0268	0.0134
	KWB-12B	Apr-21		0.00177 J	0.0102 J	0.600	<0.000150	0.0000762 J	<0.00124	0.0567 J	0.00113 J	0.00260 J	<0.000100	0.00113 J	0.00317	0.0278	0.0133
	KWB-12B	Apr-21	FD	0.00170 J	0.0103 J	0.594	<0.000150	0.0000869 J	<0.00124	0.0513 J	<0.000849	0.00145 J	<0.000100	0.000957 J	0.00265	0.0296	0.0130
	KWB-12B	Sep-21		0.00183 J	0.0133	0.596	<0.000150	0.0000597 J	<0.00124	<0.0281	<0.000849	0.00255 J	<0.000100	<0.000816	0.00737	0.0298	0.0147
	KWB-12B	Sep-21	FD	0.00185 J	0.0166	0.595	<0.000150	0.0000796 J	<0.00124	0.0380 J	0.000863 J	0.00136 J	<0.000100	<0.000816	0.00704	0.0299	0.0155
	KWB-P4	Apr-15															
	KWB-P4	Apr-17															
	KWB-P4	Apr-19															
	KWB-P4	Apr-21															
	MW-57	Apr-19		**0.0239**	0.150				0.0102	**8.63**	0.00950	**0.797**			0.0148		
	MW-57	Oct-19		0.00458	0.0175				0.000779 J	0.197	0.00603	0.0327			0.0166		
	MW-57	Jun-20		0.00366	0.0166 J				<0.00149	0.358	<0.00249	0.0473			0.0114		
	MW-57	Oct-20		**0.0157**	0.136				0.00879	**6.56**	0.0100	**0.333**			0.0120		
	MW-57	Apr-21		0.00954	0.0573				0.00558	**2.15**	0.00445	0.195			0.0145		
	MW-57	Sep-21		0.00799	0.0374				0.00249	**1.38**	0.00718	0.0587			0.0193		
	MW-58	Oct-17		0.00648	1.15	0.471	<0.000160	<0.000260	<0.000540	0.385	0.00204	**0.319**	<0.0000490	0.00129 J	<0.000380	<0.00165	0.00422 J
	MW-58	Apr-18		0.00453	1.35	0.511	<0.000160	<0.000260	<0.000540	**1.54**	0.00185 J	**0.210**	<0.0000490	0.00105 J	<0.000380	<0.000330	0.00270 J
	MW-58	Oct-18		0.00336	1.29	0.348	<0.000160	<0.000260	0.000567 J	0.721	0.00167 J	**0.335**	<0.0000490	0.000975 J	<0.000380	0.000458 J	0.00305 J
	MW-58	Oct-19		0.00549	0.988	0.736	<0.000160	0.000479 J	0.000715 J	0.767	0.00437	0.0912	0.0000567 JB	0.00160 J	<0.000380	<0.000330	0.00441 J
	MW-111	Oct-18		0.00849 J	0.0674				<0.00270	**6.39**	<0.00120	**1.42**			<0.00190		
	MW-111	Apr-19		**0.0199**	0.364				0.0112	**13.1**	0.00704	**1.79**			0.000631 J		
	MW-111	Oct-19		0.00909	0.0915				0.00109 J	**6.90**	0.000687 JB	**1.37**			<0.000380		
	MW-111	Jun-20		**0.0183**	0.285				0.00596	**9.23**	0.00469 J	**1.61**			<0.000657		
	MW-112	Nov-14		0.00500	**7.60**				0.00210	**5.80**	0.00130 J	**0.310**			0.00180 J		
	MW-113	Apr-19		0.00292	0.0208				0.00192 JB	0.399	0.000845 JB	**0.871**			0.000782 J		
	MW-113	Apr-19	FD	0.00236	0.0227				<0.000540	0.388	<0.000240	**0.834**			<0.000380		
	MW-113	Oct-19		0.00241	0.0367				0.000800 J	0.552 B	0.000743 JB	**1.15**			0.00309		
	MW-113	Oct-19	FD	0.00237	0.0370				0.00111 J	0.544	0.000692 J	**1.12**			0.00151 J		
	MW-113	Jun-20		0.00185 J	0.0334				0.00155 J	**1.16**	<0.00249	**1.29**			<0.000657		
	MW-113	Jun-20	FD	0.00186 J	0.0313				<0.00149	**1.03**	<0.00249	**1.34**			<0.000657		
	MW-113	Oct-20		<0.000735	0.0438				<0.00149	0.253	<0.00249	**1.08**			<0.000657		
	MW-113	Oct-20	FD	<0.00368	0.0408 J				<0.00745	<0.244	<0.0124	**1.12**			<0.00328		
	MW-113	Apr-21		0.00103 J	0.0245				<0.00124	0.730	<0.000849	**1.25**			<0.000300		
	MW-113	Apr-21	FD	0.00106 J	0.0251				<0.00124	0.776	<0.000849	**1.32**			<0.000300		
	MW-113	Sep-21		0.00194 J	0.162				<0.00124	<0.0281	0.00281	**0.390**			<0.000300		
	MW-113	Sep-21	FD	0.00176 J	0.169				<0.00124	0.0476 J	0.00258	**0.375**			<0.000300		
	MW-125	Apr-19		0.00386	0.00849				0.000670 J	0.0265 J	<0.000240	**0.405**			0.00433		
	MW-125	Oct-19		0.00354	0.00897				<0.000540	<0.0150	0.000326 JB	**0.415**			0.00403		
	MW-125	Jun-20		0.00388	0.00983 J				<0.00149	<0.0489	<0.00249	**0.431**			0.00289		
	MW-125	Oct-20		0.00367	0.0101 J				<0.00149	<0.0489	<0.00249	**0.430**			0.00180 J		
	MW-125	Apr-21		0.00388	0.00964 J				<0.00124	0.0682 J	<0.000849	**0.444**			0.00128 J		
	MW-125	Sep-21		0.00331	0.0100				<0.00124	<0.0281	<0.000849	**0.413**			0.00129 J		
	MW-126A	Apr-19		0.00122 J	0.0151				0.00136 JB	0.431	<0.000240	**0.776**			<0.000380		
	MW-126A	Oct-19		0.00261	0.0205				0.00105 J	**2.05**	0.000799 J	**0.649**			<0.000380		
	MW-126A	Jun-20		0.00110 J	0.0157 J				<0.00149	0.437	<0.00249	**0.617**			<0.000657		
	MW-126A	Oct-20		0.00225	0.0158 J				<0.00149	**1.78**	<0.00249	**0.707**			<0.000657		
	MW-126B	Apr-19		0.00400	0.00999				0.00150 JB	0.0379 J	0.000323 JB	0.0476			0.00332		
	MW-126B	Oct-19		0.00358	0.00916				0.000543 J	<0.0150	<0.000240	0.0434			0.00305		
	MW-126B	Jun-20		0.00346	0.0100 J				<0.00149	<0.0489	<0.00249	0.0425			0.00276		
	MW-126B	Oct-20		0.00367	0.00961 J				<0.00149	<0.0489	<0.00249	0.0481			0.00364		
	MW-126B	Apr-21		0.00367	0.00942 J				<0.00124	<0.0281	<0.000849	0.0464			0.00348		
	MW-126B	Sep-21		0.00366	0.0101				<0.00124	<0.0281	<0.000849	0.0421			0.00345		
	MW-127	Oct-17		**0.0114**	0.212				0.00109 J	**1.39**	0.000965 J	0.135			<0.000380		
	MW-127	Apr-18		0.00381	0.0682				0.00370 B	0.144 B	<0.000240	0.106			<0.000380		
	MW-127	Oct-18		0.00439	0.0589				<0.00108	0.0981 J	<0.000480	0.121			<0.000760		
	MW-127	Apr-19		0.00451	0.0960				0.000909 JB	0.0634 J	0.000461 JB	0.113			<0.000380		
	MW-128	Oct-17		**0.0554**	0.0610				0.000618 J	**3.07**	0.000404 J	**2.09**			0.00122 J		
	MW-128	Apr-18		**0.0566**	0.0728				0.00278	**4.19**	0.00257 B	**2.04**			0.000436 JB		
	MW-128	Oct-18		**0.0447**	0.0604				<0.000540	**2.40**	0.000261 J	**1.78** O1V			<0.000380		
	MW-128	Apr-19		**0.0546**	0.0910				0.00303 B	**4.19**	0.00535	**2.01**			0.000397 J		
	MW-129	Apr-16		**0.0272**	0.593				<0.00270	**5.49**	<0.00120	**1.10**			<0.00190		
	MW-129	Oct-16		**0.0236**	0.607				0.000625 JB	**4.79**	0.000529 J	**1.00**			<0.000380		
	MW-129	Apr-17		**0.0226**	0.627				<0.000540	**5.10**	<0.000240	**0.987**			<0.000380		
	MW-129	Apr-18		**0.0252**	0.516				<0.000540	**5.42**	<0.000240	**1.01**			<0.000380		
	MW-130	Apr-19		0.00385	0.0203				<0.000540	0.0697 J	0.000361 JB	0.101			0.0137		
	MW-130	Oct-19		0.00400	0.0198				0.000858 J	0.346	0.000349 J	0.101			0.00478		
	MW-130	Jun-20		0.00375	0.0168 J				<0.00149	0.0745 J	<0.00249	0.0968			0.00436		
	MW-130	Oct-20		0.00374	0.0173 J				0.00174 J	0.0826 J	<0.00249	0.101			0.00581		
	MW-130	Apr-21		0.00888	0.101				0.0257	**15.6**	0.0137	**0.282**			0.00862		
	MW-130	Sep-21		0.00432	0.0318				0.00557	**3.73**	0.00438	0.138			0.00421		

Appendix B, Table B.2 - Summary of Groundwater Analytical Data - Total Metals

2021 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	Total Metals													
				Analyte	Arsenic	Barium	Boron	Cadmium	Cobalt	Chromium	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Uranium	Vanadium
				CAS	7440-38-2	7440-39-3	7440-42-8	7440-43-9	7440-48-4	7440-47-3	7439-89-6	7439-92-1	7439-96-5	7439-97-6	7440-02-0	7782-49-2	7440-61-1	7440-62-2
				Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL	0.0100	2.00	0.750	0.00500	0.0500	0.0500	1.00	0.0150	0.200	0.00200	0.200	0.0500	0.0300	0.0631
				CGWSL Source	WQCC HH	WQCC HH	WQCCIrr	WQCCIrr	WQCC HH	WQCC HH	WQCC Dom	WQCC HH	WQCC Dom	WQCC HH	WQCCIrr	WQCC HH	WQC HH	NMED TW
Area	Well ID	Date	Dup															
Field East of Refinery	MW-131	Apr-17		**0.0214**	**2.75**				<0.000540	**1.29**	<0.000240	**0.294**			<0.000380		
	MW-131	Oct-17		**0.0223**	1.98				<0.000540	**1.56**	<0.000240	**0.283**			<0.000380		
	MW-131	Oct-19		**0.0261**	1.65				<0.000540	**1.55**	0.000845 JB	**0.293**			<0.000380		
	MW-131	Jun-20		**0.0241**	**2.39**				<0.00149	**1.35**	<0.00249	**0.294**			<0.000657		
	MW-133	Nov-14		**0.0190**	0.130				0.000600 J	**3.50**	0.000800 J	**0.380**			<0.000380		
	MW-133	Apr-15		0.00897	0.157				<0.000540	**5.53**	0.00145 J	**0.312**			0.00124 J		
	MW-134	Apr-19		0.00471	0.0122				0.00278 B	0.193	0.000688 JB	0.0792			0.00747		
	MW-134	Apr-19	FD	0.00418	0.0122				0.00108 JB	0.183	0.00115 JB	0.0600			0.00829		
	MW-134	Oct-19		0.00417	0.00988				0.000807 J	0.0171 JB	0.000450 JB	0.0383			0.00818		
	MW-134	Oct-19	FD	0.00409	0.00949				0.00104 J	0.0163 J	<0.000240	0.0303			0.00704		
	MW-134	Jun-20		0.00368	0.00896 J				<0.00149	<0.0489	<0.00249	0.00741			0.00631		
	MW-134	Jun-20	FD	0.00384	0.00932 J				<0.00149	<0.0489	<0.00249	0.00677			0.00602		
	MW-134	Oct-20		0.00362	0.0101 J				<0.00149	0.0916 J	<0.00249	0.0370			0.00592		
	MW-134	Oct-20	FD	0.00356	0.0101 J				<0.00149	0.0671 J	<0.00249	0.0339			0.00527		
	MW-134	Apr-21		0.00352	0.00901 J				0.00150 J	0.0433 J	<0.000849	0.0163			0.00550		
	MW-134	Apr-21	FD	0.00344	0.0103 J				<0.00124	<0.0281	<0.000849	0.0165			0.00500		
	MW-134	Sep-21		0.00375	0.00927				<0.00124	0.0299 J	<0.000849	0.115			0.00469		
	MW-134	Sep-21	FD	0.00386	0.0106				<0.00124	0.0307 J	<0.000849	0.120			0.00443		
	MW-135	Apr-19		0.00383	0.0199				0.00245 B	0.205	0.000746 JB	0.0188			0.0334		
	MW-135	Oct-19		0.00335	0.00928				0.00140 J	0.221 B	0.00194 JB	0.0277			0.0200		
	MW-135	Jun-20		0.00326	0.0158 J				<0.00149	0.203	<0.00249	0.0119			0.0221		
	MW-135	Oct-20		<0.00368	<0.0389				<0.00745	0.745	<0.0124	0.0315			0.0186		
	MW-135	Apr-21		0.00321	0.0116 J				<0.00124	0.127	<0.000849	0.00777			0.0197		
	MW-135	Sep-21		0.00300	0.0186				<0.00124	0.253	<0.000849	0.0142			0.0221		
	MW-145	Oct-20															
	MW-145	Oct-20	FD														
	MW-145	Apr-21		0.00414	0.00871 J				<0.00124	0.0308 J	<0.000849	0.0259			0.00398		
	MW-145	Sep-21		0.00362	0.0102				0.00140 J	0.228	0.00237	0.0278			0.00345		
	MW-146	Oct-20															
	MW-146	Apr-21		0.00463	0.00848 J				<0.00124	<0.0281	<0.000849	0.00171 J			0.00815		
	MW-146	Sep-21		0.00404	0.00850				<0.00124	<0.0281	<0.000849	<0.000704			0.00953		
	MW-146	Sep-21	FD	0.00390	0.00907				<0.00124	<0.0281	<0.000849	<0.000704			0.00983		
	MW-147	Oct-20															
	MW-147	Apr-21		0.00308	0.0825				0.00282	**1.40**	0.00648	0.0783			0.0193		
	MW-147	Sep-21		0.00286	0.0156				0.00140 J	0.259	0.00381	0.0112			0.0180		
	MW-148	Oct-20															
	MW-148	Apr-21		0.00268	0.0192 J				0.00135 J	0.264	0.000893 J	0.0507			0.0114		
	MW-148	Sep-21		0.00317	0.0977				0.00275	**2.02**	0.00322	**0.477**			0.0101		
	RA-4196	Apr-19															
	RA-4196	Oct-19															
	RA-4196	Jun-20															
	RA-4196	Oct-20															
	RA-4798	Apr-19															
	RA-4798	Oct-19															
	RA-4798	Jun-20															
	RA-4798	Oct-20															
	RA-4798	Apr-21															
	RA-4798	Sep-21															
	RW-12R	Apr-17		0.000503 J	0.0409				0.0359	0.241	0.00193 J	**0.398**			<0.000380		
	RW-12R	Apr-18		0.000291 J	0.0387				0.00973	0.0459 J	0.00104 J	**0.718**			0.000554 J		
	RW-12R	Apr-19		0.00109 J	0.0354				0.00771 B	0.0800 J	0.00177 JB	**1.28**			0.000508 J		
	RW-12R	Jun-20		<0.000735	0.0342				**0.0557**	0.150	<0.00249	**1.39**			<0.000657		
	RW-13R	Apr-16		0.00922 J	0.0165				<0.00270	0.572	<0.00120	**1.26**			<0.00190		
	RW-13R	Apr-18		0.000839 J	0.0475				0.00357	0.349	0.000602 J	**0.985**			0.00161 J		
	RW-18A	Apr-17		0.00331	0.0107				<0.000540	<0.0150	<0.000240	0.000927 J			0.00406		
	RW-18A	Apr-18		0.00278	0.0105				<0.000540	<0.0150	<0.000240	0.00299 J			0.00321		
	RW-18A	Apr-19		0.00293	0.0117				0.00130 JB	0.0191 J	0.000246 JB	0.000480 J			0.00449		
	RW-18A	Jun-20		0.00451	0.0243				0.00223	**3.06**	0.00276 J	0.0307			0.00475		
	RW-20	Apr-15		0.00375 J	0.527				<0.00270	**1.75**	0.00354 J	**0.872**			<0.00190		
	RW-22	Apr-15		0.00248	0.816				0.00320	0.140	0.00397	**0.845**			0.00234		
NCL	MW-18	Apr-18		0.00413	0.0130	**1.40**	<0.000160	<0.000260	0.000973 J	<0.0150	0.000243 J	0.0125	<0.0000490	0.00198 J	0.0148	**0.0378**	0.0178
	MW-18	Apr-19		0.00342	0.0184	**1.60**	<0.000160	<0.000260	0.00228	0.0171 JB	<0.000240	0.00442 J	0.0000529 J	0.000907 J	0.0167	0.0283	0.0174
	MW-18	Jun-20		0.00271	0.0126 J	**2.52**	<0.000478	<0.000477	<0.00149	<0.0489	<0.00249	0.0169	<0.000100	0.00103 J	0.00739	**0.0451**	0.0180
	MW-18	Apr-21		0.00283	0.0126 J	**2.29**	<0.000150	0.000160 J	<0.00124	<0.0281	<0.000849	0.0190	<0.000100	0.00226	0.00494	**0.0484**	0.0189
	MW-45	Apr-19		0.00574	0.0171	0.643	<0.000160	<0.000260	<0.000540	**1.43**	0.00235	**0.481**	<0.0000490	0.00485	<0.000380	0.00135 J	0.000729 J
	MW-45	Oct-19		0.00373	0.0150	0.663	<0.000160	<0.000260	0.000546 JB	**1.64**	0.000564 JB	**0.432**	<0.0000490	0.00399 B	<0.000380	<0.000330	0.00116 J
	MW-45	Jun-20		0.00395	0.0157 J	0.573	<0.000478	<0.000477	<0.00149	**1.02**	<0.00249	**0.481**	<0.000100	0.00525	<0.000657	<0.00754	<0.000986
	MW-45	Oct-20		0.00493	0.0149 J	0.620	<0.000478	<0.000477	<0.00149	**1.26**	<0.00249	**0.526**	<0.000100	0.00569	<0.000657	<0.00754	0.00106 J
	MW-45	Apr-21		0.00782	0.0160 J	0.578	<0.000150	0.00122 J	<0.00124	**1.68**	**0.0155**	**0.692**	<0.000100	0.00859	<0.000300	0.00166 J	0.00226 J
	MW-45	Sep-21		0.00845	0.0167	0.625	<0.000150	0.000134 J	<0.00124	**3.30**	0.0113	**0.661**	<0.000100	0.00527	0.000446 J	0.00101	0.00100 J
	MW-53	Apr-16		0.00193 J	0.0308				<0.00270	<0.0750	<0.00120	**1.07**			0.00617 J		
	MW-53	Apr-17		0.00166 J	0.0201				<0.000540	<0.0150	<0.000240	**1.60**			0.00281		
	MW-53	Apr-18		0.00259	0.0423				0.000742 JJ3J4	0.0922 J	0.000794 J	**2.34**			0.000729 J		
	MW-53	Apr-19		0.00161 J	0.0190				<0.000540	0.0333 J	0.000346 J	**0.799**			<0.000380		
	MW-53R	Oct-20		0.00190 J	0.0482				0.00177 J	0.426	<0.00249	**0.474**			<0.000657		
	MW-53R	Apr-21		0.00191 J	0.0278				<0.00124	0.135 B	<0.000849	**0.663**			<0.000300		
	MW-54A	Apr-19		0.00339	0.0139				<0.000540	0.0627 J	0.000375 J	**0.499**			<0.000380		
	MW-54A	Oct-19		0.00506	0.0155				0.00121 JB	0.0952 JB	0.000304 JB	**0.581**			<0.000380		
	MW-54A	Jun-20		0.00452	0.0168 J				<0.00149	0.188	<0.00249	**0.589**			<0.000657		
	MW-54A	Oct-20		0.00516	0.0161 J				<0.00149	0.121	<0.00249	**0.625**			<0.000657		
	MW-54A	Apr-21		0.00595	0.0185 J				0.00137 JB	0.302 B	<0.000849	**0.778**			<0.000300		
	MW-54A	Sep-21		0.00450	0.0163				<0.00124	0.135	<0.000849	**0.768**			0.000825 J		
	MW-54B	Apr-15		0.00220	0.0165				<0.000540	0.0520 J	<0.000240	0.165			0.000400 J		
	MW-54B	Apr-17		0.00181 J	0.0158				<0.000540	<0.0150	<0.000240	**0.253**			0.000720 J		
	MW-54B	Apr-19		0.00251	0.0161				<0.000540	0.116	0.000628 J	0.197			0.000402 J		
	MW-54B	Apr-21		0.00222	0.0193 J				<0.00124	0.977	<0.000849	**0.582**			<0.000300		
	MW-55	Apr-19		0.00596	0.0114	**1.43**	<0.000160	<0.000260	0.000686 J	0.0504 JB	<0.000240	0.0855	0.000190 J	0.00592	0.00564	**0.0624**	0.0204
	MW-55	Oct-19		0.00642	0.0109 B	**1.05**	<0.000160	0.000276 J	<0.000540	0.0212 JB	0.00129 JB	0.144	<0.0000490	0.00777 B	0.00225	**0.0503**	0.0198
	MW-55	Jun-20		0.00632	0.0119 J	**0.979**	<0.000478	<0.000477	<0.00149	<0.0489	<0.00249	0.148	<0.000100	0.00713	0.00121 J	**0.0549**	0.0189
	MW-55	Oct-20		0.00684	0.0131 J	0.695	<0.000478	<0.000477	0.00201	0.0508 J	<0.00249	0.168	<0.000100	0.00670	0.00120 J	**0.0364**	0.0186
	MW-55	Apr-21		0.00683	0.0157 J	0.631	<0.000150	0.000304 J	<0.00124	<0.0281	0.00103 J	0.185	<0.000100	0.00602	0.000784 J	**0.0314**	0.0185
	MW-55	Sep-21		0.00611	0.0144	0.608	<0.000150	0.000311 J	<0.00124	<0.0281	<0.000849	**0.202**	<0.000100	0.00617	0.00121 J	0.0272	0.0176
	MW-56	Apr-18		0.00731	0.0119				0.0102	0.0355 J	0.000487 J	**0.307**			0.000796 J		
	MW-56	Apr-19		0.00631	0.0132				<0.000540	0.0310 J	0.000718 J	**0.325**			0.00217		
	MW-56	Jun-20		0.00529	0.0104 J				<0.00149	<0.0489	<0.00249	**0.302**			0.000968 J		
	MW-56	Apr-21		0.00529	0.0113 J				<0.00124	<0.0281	0.00105 J	**0.287**			0.00177 J		
	MW-108	Apr-19		0.00196 J	0.0304				0.00325	0.322	0.00135 J	0.0255			0.000390 J		
	MW-108	Oct-19		0.00107 J	0.0402				0.00132 J	0.273	0.00118 J	0.0633			<0.000380		
	MW-108	Jun-20		0.00111 J	0.0411				<0.00149	0.230	<0.00249	0.0401			<0.000657		
	MW-108	Oct-20		0.00115 J	0.0469				<0.00149	<0.0489	<0.00249	0.0593			<0.000657		
	MW-108	Apr-21		0.00120 J	0.0709				0.00169 JB	0.703	0.00174 J	**0.231**			<0.000300		
	MW-108	Sep-21		0.00103 J	0.0593				0.00152 J	0.363	<0.000849	0.0665			<0.000300		

Appendix B, Table B.2 - Summary of Groundwater Analytical Data - Total Metals

2021 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	Total Metals													
				Analyte	Arsenic	Barium	Boron	Cadmium	Cobalt	Chromium	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Uranium	Vanadium
				CAS	7440-38-2	7440-39-3	7440-42-8	7440-43-9	7440-48-4	7440-47-3	7439-89-6	7439-92-1	7439-96-5	7439-97-6	7440-02-0	7782-49-2	7440-61-1	7440-62-2
				Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL	0.0100	2.00	0.750	0.00500	0.0500	0.0500	1.00	0.0150	0.200	0.00200	0.200	0.0500	0.0300	0.0631
				CGWSL Source	WQCC HH	WQCC HH	WQCCIrr	WQCCIrr	WQCC HH	WQCC HH	WQCC Dom	WQCC HH	WQCC Dom	WQCC HH	WQCCIrr	WQCC HH	WQCC HH	NMED TW
Area	Well ID	Date	Dup															
NCL	NCL-31	Apr-19		0.00772	0.0137				0.000759 J	0.821	0.000881 J	**1.93**			<0.000380		
	NCL-31	Oct-19		0.00915	0.0175				0.000613 J	0.0875 J	0.000376 J	**1.46**			0.00502		
	NCL-31	Jun-20		**0.0135**	0.0134 J				<0.00149	**1.13**	<0.00249	**2.24**			<0.000657		
	NCL-31	Oct-20		**0.0120**	0.0129 J				<0.00149	0.689	<0.00249	**2.15**			<0.000657		
	NCL-31	Apr-21		0.00668	0.0326				0.00265 B	**1.37**	0.00233	**1.49**			<0.000300		
	NCL-31	Sep-21		**0.0104**	0.0217				<0.00124	0.526	0.000940 J	**1.47**			<0.000300		
	NCL-32	Apr-19		0.00257	0.0172				<0.000540	**1.84**	0.000470 J	**1.14**			0.00222		
	NCL-32	Oct-19		0.00213	0.0153				0.000548 J	0.0391 J	0.000373 J	**1.50**			0.00249		
	NCL-32	Jun-20		0.00203	0.0165 J				<0.00149	<0.0489	<0.00249	**1.31**			0.00321		
	NCL-32	Oct-20		0.00236	0.0160 J				<0.00149	0.0494 J	<0.00249	**1.73**			0.00271		
	NCL-32	Apr-21		0.00270	0.0318				0.00688 B	**1.06**	0.00515	**1.60**			0.00222		
	NCL-32	Sep-21		0.00214	0.0185				0.00301	0.676	0.00172 J	**1.67**			0.00265		
	NCL-33	Apr-19		0.00327	0.0280				<0.000540	**1.97**	0.000403 J	0.106			0.000405 J		
	NCL-33	Oct-19		0.00457	0.0280				0.000581 J	**2.91**	0.000470 J	0.157			0.00132 J		
	NCL-33	Jun-20		0.00452	0.0289				<0.00149	**3.52**	<0.00249	0.194			0.00130 J		
	NCL-33	Oct-20		0.00531	0.0231				<0.00149	**4.03**	<0.00249	0.188			0.00144 J		
	NCL-33	Apr-21		0.00613	0.0243				<0.00124	**3.00**	<0.000849	0.191			0.00167 J		
	NCL-33	Sep-21		0.00642	0.0206				<0.00124	**3.17**	<0.000849	0.167			0.00154 J		
	NCL-34A	Oct-18		0.000692 J	0.376				<0.000540	<0.0150	<0.000240	0.0191			0.000423 J		
	NCL-34A	Apr-19		0.000663 JJ6	0.966 V				<0.000540	0.0216 J	<0.000240	0.0158 O1			**0.101** J3J6O1		
	NCL-34A	Oct-19		0.000719 J	0.293				0.000842 JB	0.0403 JB	0.000906 JB	0.0318			0.000403 J		
	NCL-34A	Jun-20		0.000811 J	0.242				<0.00149	<0.0489	<0.00249	0.0416			<0.000657		
	NCL-44	Apr-19		**0.0245**	0.0215				0.000595 J	0.792	0.000443 J	**0.879**			0.000878 J		
	NCL-44	Oct-19		**0.0293**	0.0205				<0.000540	**1.16**	<0.000240	**0.912**			0.000383 J		
	NCL-44	Jun-20		**0.0305**	0.0218				<0.00149	**1.09**	<0.00249	**0.842**			<0.000657		
	NCL-44	Oct-20		**0.0211**	0.0201				0.00369	0.641	<0.00249	**0.820**			<0.000657		
	NCL-44	Apr-21		**0.0211**	0.0196 J				0.00152 JB	**1.14**	<0.000849	**0.831**			0.000456 J		
	NCL-44	Sep-21		**0.0188**	0.0190				<0.00124	0.661	<0.000849	**0.743**			<0.000300		
	NCL-49	Apr-19		0.00148 J	0.0135				0.000545 J	0.0420 J	0.000438 J	0.000612 JB			0.00606		
	NCL-49	Apr-19	FD	0.00157 J	0.0128				<0.000540	0.128	<0.000240	0.00721			0.00630		
	NCL-49	Oct-19		0.00144 J	0.0136 B				0.00113 JB	0.0164 JB	0.000412 JB	0.000870 JB			0.00551		
	NCL-49	Oct-19	FD	0.00139 J	0.0133 J				<0.00270	<0.0750	<0.00120	<0.00125 J3J5			0.00652 J		
	NCL-49	Jun-20		0.00135 J	0.0145 J				<0.00149	<0.0489	<0.00249	0.0222			0.00832		
	NCL-49	Jun-20	FD	0.00123 J	0.0126 J				<0.00149	<0.0489	<0.00249	0.00204 J			0.00717		
	NCL-49	Oct-20		0.00141 J	0.0129 J				0.00153 J	<0.0489	<0.00249	<0.00132			0.00873		
	NCL-49	Oct-20	FD	0.00155 J	0.0123 J				<0.00149	<0.0489	<0.00249	<0.00132			0.00920		
	NCL-49	Apr-21		0.00157 J	0.0132 J				<0.00124	<0.0281	<0.000849	0.00243 J			0.0104		
	NCL-49	Apr-21	FD	0.00163 J	0.0128 J				<0.00124	<0.0281	<0.000849	<0.000704			0.0103		
	NCL-49	Sep-21		0.00149 J	0.0112				<0.00124	<0.0281	<0.000849	<0.000704			0.0121		
	NCL-49	Sep-21	FD	0.00145 J	0.0129				<0.00124	<0.0281	<0.000849	<0.000704			0.0105		
North Refinery	MW-23	Apr-19		0.00499	**9.47**				0.000969 JB	0.0226 J	0.00230	0.0709			0.00135 J		
	MW-23	Oct-19		0.00587	**9.44**				<0.000540	0.0573 J	0.0150	0.0696			0.000501 J		
	MW-23	Jun-20		0.00595	**9.81** V				<0.00149	0.0693 J	0.00484 J	0.0692			<0.000657		
	MW-23	Oct-20		0.00627	**12.3**				<0.00149	0.0501 J	0.00712	0.0769			<0.000657		
	MW-29	Apr-19		0.00173 J	0.0169				<0.000540	0.174 B	<0.000240	**0.534**			<0.000380		
	MW-29	Oct-19		**0.0161**	0.0171				<0.000540	**4.34**	<0.000240	**0.586**			0.000458 J		
	MW-29	Jun-20		0.00842	0.0172 J				<0.00149	0.0632 J	<0.00249	**0.258**			<0.000657		
	MW-29	Oct-20		**0.0170**	0.0188 J				<0.00149	0.294	<0.00249	**0.233** V			0.000944 J		
	MW-29	Apr-21		**0.0433**	0.0232				<0.00124	**1.62**	0.00137 J	**0.414**			0.00150 J		
	MW-29	Sep-21		**0.104**	0.0213				<0.00124	**25.5**	0.00119 J	**1.40**			0.00301		
	MW-39	Apr-19		0.00933	0.0590				<0.000540	0.0175 J	0.000354 J	0.0267			0.000668 J		
	MW-39	Oct-19		0.00690	0.0118				<0.000540	<0.0150	<0.000240	0.0282			<0.000380		
	MW-39	Jun-20		0.00757	0.0145 J				<0.00149	<0.0489	<0.00249	0.0410			<0.000657		
	MW-39	Oct-20		0.00755	0.0130 J				<0.00149	<0.0489	<0.00249	0.0546			<0.000657		
	MW-40	Apr-17		0.000786 J	0.0249				<0.000540	0.0151 J	0.000660 J	0.0241			**0.0704**		
	MW-40	Apr-18		0.000656 J	0.0227				0.000593 JB	0.0289 J	0.000415 J	0.0161			<0.000380		
	MW-40	Apr-19		0.000873 J	0.0234				<0.000540	0.0848 J	0.000467 JB	0.0166			<0.000380		
	MW-40	Jun-20		<0.000735	0.0218				<0.00149	0.181	<0.00249	0.0270			<0.000657		
	MW-41	Apr-18		0.00729	0.0206				<0.000540	0.0230 J	0.000304 J	**1.03**			0.000470 J		
	MW-41	Apr-19		0.00673	0.0370				<0.000540	0.0802 JB	0.000601 J	**0.570**			0.000498 J		
	MW-41	Jun-20		**0.0107**	0.0183 J				<0.00149	<0.0489	<0.00249	**0.857**			<0.000657		
	MW-41	Apr-21		**0.0240**	0.0205				<0.00124	0.0987 J	<0.000849	**0.758**			0.000626 J		
	MW-42	Apr-18		0.00477	0.0206				<0.000540	0.0216 J	0.000406 J	0.123			<0.000380		
	MW-42	Apr-19		0.00516	0.0196				0.000790 J	0.0282 JB	0.000332 J	0.120			<0.000380		
	MW-42	Jun-20		0.00520	0.0191 J				<0.00149	0.233	<0.00249	0.144			<0.000657		
	MW-42	Apr-21		0.00948	0.0200				<0.00124	0.715	<0.000849	**0.335**			<0.000300		
	MW-43	Apr-19		0.00725	0.449	**1.14**	<0.000160	<0.000260	0.00113 JB	0.0770 J	0.00106 J	0.184	<0.0000490	0.00695	0.00568	<0.000330	0.00197 J	
	MW-43	Oct-19		**0.0101**	0.171	**0.964**	<0.000160	<0.000260	0.00120 J	0.285	0.000752 J	**0.361**	0.0000655 JB	0.00654	0.00140 J	0.00403 J	0.0127	
	MW-43	Jun-20		0.00612	0.443	**0.781**	<0.000478	<0.000477	<0.00149	0.375	<0.00249	**0.297**	<0.000100	0.00536	<0.000657	<0.00754	0.00385 J	
	MW-43	Oct-20		0.00541	0.801	**0.770**	<0.000478	<0.000477	0.00150 J	0.106	<0.00249	**0.252**	<0.000100	0.00410	<0.000657	<0.00754	0.00249 J	
	MW-59	Apr-17		**0.0234**	0.0202				<0.000540	0.123	<0.000240	**0.440**			<0.000380			
	MW-59	Apr-18		**0.0240**	0.0236				<0.000540	0.102 B	<0.000240	**0.448**			<0.000380			
	MW-59	Apr-19		**0.0213**	0.0293				0.000709 JB	0.0987 J	0.000432 J	**0.409**			<0.000380			
	MW-59	Jun-20		**0.0360**	0.0184 J				<0.00149	0.0703 J	<0.00249	**0.369**			<0.000657			
	MW-60	Apr-19		0.00433	0.0181	**0.780**	<0.000160	<0.000260	<0.000540	0.102	0.000291 J	**0.205**	<0.0000490	0.000946 J	<0.000380	0.00114 J	0.000385 J	
	MW-60	Apr-19	FD	0.00454	0.0205	**0.794**	<0.000160	<0.000260	<0.000540	0.0911 J	0.000630 J	0.200	<0.0000490	0.000941 J	<0.000380	0.00101 J	0.000224 J	
	MW-60	Oct-19		**0.0526**	0.0187	0.495	<0.000160	0.000356 J	0.000854 J	0.251	0.000344 JB	**0.226**	0.0000583 JB	0.0121	<0.000380	0.00155 J	0.000654 JB	
	MW-60	Oct-19	FD	**0.0126** J3J5O1	0.0186	0.498	0.000791 J	0.000882 J	0.00130 J	0.276 B	0.00162 JB	**0.223** O1	0.0000624 JB	0.00227	**0.0592** J3J6O1	0.00269 J	0.00115 J	
	MW-60	Jun-20		0.00590	0.0194 J	0.447	<0.000478	<0.000477	<0.00149	<0.0489	<0.00249	**0.237**	<0.000100	0.00132 J	<0.000657	<0.00754	<0.000986	
	MW-60	Jun-20	FD	0.00559	0.0188 J	0.432	<0.000478	<0.000477	<0.00149	<0.0489	<0.00249	**0.229**	<0.000100	0.00121 J	<0.000657	<0.00754	<0.000986	
	MW-60	Oct-20		0.00621	0.0203	0.465	<0.000478	<0.000477	<0.00149	<0.0489	<0.00249	**0.227**	<0.000100	0.00161 J	<0.000657	<0.00754	<0.000986	
	MW-60	Oct-20	FD	0.00634	0.0193 J	0.461	<0.000478	<0.000477	<0.00149	<0.0489	0.00319 J	**0.222**	<0.000100	0.00110 J	<0.000657	<0.00754	<0.000986	
	MW-61	Apr-19		0.00215	0.0397				0.000543 JB	0.0304 J	0.00185 J	0.0181			**0.0628**			
	MW-61	Oct-19		0.00166 J	0.0542				0.000662 J	0.0443 JB	0.00197 JB	0.0261			0.00817			
	MW-61	Jun-20		0.00296	0.0482				<0.00149	<0.0489	0.00396 J	0.0197			<0.000657			
	MW-61	Oct-20		0.00299	0.0460				0.00151 J	<0.0489	0.00337 J	0.0141 B			<0.000657			
	MW-61	Apr-21		0.00352	0.0469				<0.00124	0.0503 J	0.00322	0.0229			<0.000300			
	MW-61	Sep-21		0.00312	0.0629				<0.00124	0.0379 J	0.00372	0.0182			0.000341 J			
	MW-62	Apr-19		0.00861	0.0632				0.000825 JB	0.0208 J	0.000399 J	0.00442 J			0.0369			
	MW-62	Oct-19		**0.0446** J6	0.0472				0.000937 J	0.0794 J	0.00145 J	0.00462 J			0.00186 JJ3J6			
	MW-62	Jun-20		**0.0426**	0.0608				<0.00149	<0.0489	<0.00249	0.00669			<0.000657			
	MW-62	Oct-20		**0.0451**	0.0535				<0.00149	<0.0489	<0.00249	0.00657 B			<0.000657			
	MW-62	Sep-21		**0.0901**	0.0578				<0.00124	<0.0281	<0.000849	0.00840			<0.000300			
	MW-62R	Oct-20		**0.0788**	0.129				0.00169 J	**2.90**	<0.00249	**1.09**			<0.000657			
	MW-62R	Apr-21		**0.0449**	**3.61**				<0.00124	**4.03**	<0.000849	**0.245**			<0.000300			
	MW-67	Oct-17		**0.0103**	0.0906	0.464	<0.000160	<0.000260	0.000639 J	0.0172 J	0.00112 J	0.0986	<0.0000490	0.000648 J	<0.000380	<0.000330	0.000547 J	
	MW-67	Apr-18		**0.0107**	0.120	0.456	<0.000160	<0.000260	0.000927 JJ3J4	0.0743 J	0.00171 J	0.0943	<0.0000490	0.000828 J	0.000518 J	<0.000330	0.000584 J	
	MW-67	Oct-18		0.00516	0.0745	0.401	0.000220 JB	<0.000260	0.000568 J	0.0289 J	0.00192 JB	0.126	0.000120 J	0.000595 J	<0.000380	<0.000330	0.000634 J	
	MW-67	Apr-19		0.00750	0.0933	0.457	<0.000160	<0.000260	<0.000540	0.0253 J	0.000626 JB	0.0866	<0.0000490	0.000703 J	<0.000380	<0.000330	0.000405 J	
	MW-90	Apr-19		0.00236	0.0155				0.000889 JB	0.0179 J	0.000310 JB	0.0602			0.000671 J			
	MW-90	Oct-19		0.00423	0.0147				<0.000540	**1.04**	0.000315 JB	0.100			0.0141			
	MW-90	Jun-20		0.00299 B	0.0150 J				<0.00149	0.295	<0.00249	0.0909			<0.000657			
	MW-90	Oct-20		0.00318	0.0163 J				0.00157 J	0.495	<0.00249	0.124			<0.000657			
	MW-90	Apr-21		0.00598	0.0161 J				<0.00124	0.511	<0.000849	0.107			0.000845 J			
	MW-90	Sep-21		0.00920	0.0174				<0.00124	0.800	<0.000849	**0.533**			0.00178 J			

Appendix B, Table B.2 - Summary of Groundwater Analytical Data - Total Metals

2021 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	Total Metals													
				Analyte	Arsenic	Barium	Boron	Cadmium	Cobalt	Chromium	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Uranium	Vanadium
				CAS	7440-38-2	7440-39-3	7440-42-8	7440-43-9	7440-48-4	7440-47-3	7439-89-6	7439-92-1	7439-96-5	7439-97-6	7440-02-0	7782-49-2	7440-61-1	7440-62-2
				Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL	0.0100	2.00	0.750	0.00500	0.0500	0.0500	1.00	0.0150	0.200	0.00200	0.200	0.0500	0.0300	0.0631
				CGWSL Source	WQCC HH	WQCC HH	WQCCIrr	WQCCIrr	WQCC HH	WQCC HH	WQCC Dom	WQCC HH	WQCC Dom	WQCC HH	WQCCIrr	WQCC HH	WQC HH	NMED TW
Area	Well ID	Date	Dup															
North Refinery	MW-91	Oct-18		0.00772	0.0484				0.000738 J	0.0472 J	0.00440 B	0.00539			0.000542 J		
	MW-91	Apr-19		0.00693	0.0460				<0.000540	0.0388 J	0.00412 B	0.00762			0.00460		
	MW-91	Oct-19		0.00392	0.0552				<0.000540	0.0186 J	0.00475	0.00710 B			0.0214		
	MW-91	Jun-20		0.00524 B	0.0561				<0.00149	0.197	0.00610	0.00381 J			<0.000657		
	MW-92	Apr-16		0.00316 J	**3.44** O1V				<0.00270	0.328 J	<0.00120	0.0363			0.00207 J		
	MW-92	Oct-16		0.00732	**2.81**				0.00101 JB	0.0744 J	0.00183 J	0.0274			0.00172 J		
	MW-93	Apr-17		0.00456	0.0228				0.00367	0.278	0.00116 J	0.0258			0.00683		
	MW-93	Apr-18		0.00706	0.0304				0.00945	0.145 B	0.00152 JB	0.0325			0.00377 B		
	MW-93	Apr-19		0.00456	0.0394				0.00174 JB	0.110	0.00105 J	0.0615			0.0144		
	MW-93	Jun-20		0.00827	0.0351				0.00257	0.181	<0.00249	**0.208**			0.00412		
	MW-94	Oct-15		**0.0215**	1.57				0.00144 J	<0.0150	<0.000240	0.00194 J			0.000935 J		
	MW-94	Apr-16		**0.0286**	0.353				<0.00270	<0.0750	<0.00120	0.00666 J			<0.00190		
	MW-94	Oct-16		**0.0115**	0.635				0.00119 JB	0.0159 J	0.000255 J	0.00631			0.000962 J		
	MW-94	Apr-17		**0.0170**	0.873				0.00141 J	0.134	0.000298 J	0.00382 J			0.00304		
	MW-95	Apr-17		0.00173 J	0.0612				<0.000540	<0.0150	<0.000240	0.0330			0.000407 J		
	MW-95	Apr-18		0.00154 J	0.0691				<0.000540	0.0155 J	<0.000240	0.0556			<0.000380		
	MW-95	Apr-19		0.00141 J	0.0597				<0.000540	<0.0150	0.000528 JB	0.0904			<0.000380		
	MW-95	Jun-20		0.00135 JB	0.0431				<0.00149	0.0879 J	<0.00249	0.156			<0.000657		
	MW-96	Apr-19		0.00237	0.161				<0.000540	0.0510 J	0.000267 JB	0.00103 JB			0.000465 J		
	MW-96	Oct-19		0.00199 J	0.149				<0.000540	0.0158 J	<0.000240	0.00648 B			0.00423		
	MW-96	Jun-20		0.00241 B	0.176				<0.00149	<0.0489	<0.00249	<0.00132			<0.000657		
	MW-96	Oct-20		0.00207	0.175				<0.00149	<0.0489	<0.00249	<0.00132			<0.000657		
	MW-96	Sep-21		0.00294	0.175				<0.00124	0.892	<0.000849	0.0364			0.000317 J		
	MW-98	Apr-19		0.000810 J	0.0409				<0.000540	<0.0150	0.00796	0.0220			<0.000380		
	MW-98	Oct-19		0.00231	0.0177				0.00153 J	0.0792 J	0.00771	0.0231			0.00508		
	MW-98	Jun-20		0.000895 J	0.0180 J				0.00316	0.0721 J	0.00815	0.0213			<0.000657		
	MW-98	Oct-20		0.000795 J	0.0176 J				<0.00149	<0.0489	0.00690	0.0208			<0.000657		
	MW-98	Apr-21		0.000700 J	0.0193 J				0.00134 J	0.0480 J	0.00642	0.0219			0.000516 J		
	MW-98	Sep-21		0.000689 J	0.0171				0.00133 J	0.0339 J	0.00671	0.0192			<0.000300		
	MW-137	Oct-17		**0.0156**	0.0756	**1.03**	<0.000160	<0.000260	0.00109 J	0.260	0.00338	**0.209**	<0.0000490	0.0198	0.0393	<0.000330	0.00771	
	MW-137	Apr-18		**0.0512**	0.0711	**0.997**	<0.000160	<0.000260	0.00132 J	0.0740 JB	0.00433	0.154	<0.0000490	0.0134	0.00240 B	<0.000330	0.00718	
	MW-137	Oct-18		**0.0129**	0.0942	**0.989**	<0.000160	<0.000260	0.000586 J	0.0553 J	0.00318	0.183	<0.0000490	0.0126	**0.341**	<0.000330	0.00844	
	MW-137	Apr-19		**0.0285**	0.103	**1.02**	<0.000160	<0.000260	0.000596 JB	0.0240 J	0.00268	0.157	<0.0000490	0.0133	0.00601	<0.000330	0.00838	
	MW-138	Oct-17		0.00507	0.103	**1.11**	<0.000160	<0.000260	0.000747 J	0.0334 J	0.000271 J	0.0931	<0.0000490	0.00619	0.00945	<0.000330	0.00195 J	
	MW-138	Apr-18		0.00514	0.124	**0.984**	<0.000160	<0.000260	0.000785 J	0.160 B	<0.000240	0.103	<0.0000490	0.00977	0.000667 JB	<0.000330	0.00169 J	
	MW-138	Oct-18		0.00464	0.108	**0.927**	<0.000160	<0.000260	<0.000540	0.0235 J	0.000249 J	0.111	<0.0000490	0.00490	**0.0973**	<0.000330	0.00120 J	
	MW-138	Apr-19		0.00560	0.141	**0.951**	<0.000160	<0.000260	0.000855 JB	0.0228 J	0.000353 J	0.128	<0.0000490	0.00504	0.00102 J	<0.000330	0.00121 J	
	RW-1R	Apr-16		0.00695 J	0.0414				<0.00270	**17.1**	0.00149 J	**0.317**			0.00246 J		
	RW-1	Apr-17		**0.0359**	0.0243				0.00254	**4.88**	0.00492	**0.240**			0.00573 B		
	RW-1	Apr-18		**0.0204**	0.0328				0.000826 JJ3J4	**1.50**	0.00156 J	0.0237			0.00213		
	RW-1	Apr-19		**0.0172**	0.0357				0.00100 JB	**1.14**	0.00100 JB	0.0173			0.00211		
	RW-2	Apr-15		**0.0264**	0.0245 J				0.00553 J	0.381 J	0.00233 J	**0.313**			**0.0705**		
	RW-2R	Apr-16		0.00552 J	0.171				0.00750 J	**2.25**	**0.0153**	0.0705			**0.422**		
	RW-2	Apr-17		0.00504	0.0566				0.00173 J	0.264	0.000960 J	0.0161			0.0100		
	RW-2	Apr-18		0.00374	0.139				0.00362	0.123 B	0.00163 JB	0.0215			0.00128 JB		
	RW-7	Apr-17		0.00332	0.0198				<0.000540	0.183	<0.000240	**1.13**			<0.000380		
	RW-7	Apr-18		**0.0174**	0.144				0.00434 B	**2.92**	0.000599 J	0.106			<0.000380		
	RW-7	Apr-19		**0.0246**	0.122				0.00234 B	**7.78**	0.000979 JB	0.173			0.000381 J		
	RW-7	Jun-20		0.00738	0.176				<0.00149	**2.57**	<0.00249	0.108			<0.000657		
	RW-8	Apr-15		0.00556 J	0.0889				<0.00270	0.427 J	<0.00120	0.0556			0.00200 J		
	RW-8	Apr-17		**0.0343**	0.0593				0.00135 J	**9.50**	0.00169 J	**1.12**			<0.000380		
	RW-9	Apr-18		0.00404	0.0462				<0.000540	0.0199 J	0.00111 J	**0.545**			0.000498 J		
	RW-9	Apr-19		0.00334	0.0411				<0.000540	0.0195 J	0.00200 B	**0.507**			0.000485 J		
	RW-9	Jun-20		0.00452	0.0367				<0.00149	<0.0489	<0.00249	**0.355**			<0.000657		
	RW-9	Apr-21		0.00432	0.0373				<0.00124	<0.0281	<0.000849	**0.320**			0.000308 J		
	RW-10	Apr-18		0.00234	0.0224				<0.000540	<0.0150	0.000469 J	0.189			<0.000380		
	RW-10	Apr-19		0.00158 J	0.0207				<0.000540	<0.0150	<0.000240	0.199			0.000555 J		
	RW-10	Jun-20		0.00405	0.0187 J				0.00188 J	<0.0489	<0.00249	0.182			<0.000657		
	RW-10	Apr-21		0.00573	0.0209				<0.00124	0.0380 J	<0.000849	0.157			0.000422 J		
	RW-16B	Apr-17		**0.0129**	0.0126				0.00108 J	0.0227 J	0.00125 J	**0.263**			0.00658		
	RW-16B	Apr-18		0.00922	0.0130				0.000754 JB	0.0239 J	0.000343 J	**0.201**			0.00643		
	RW-16B	Apr-19		**0.0135**	0.0158				<0.000540	0.0160 JB	0.000494 J	**0.508**			0.00933		
	RW-16B	Jun-20		**0.0267**	0.0591				0.00287	**1.10**	0.00385 J	0.0348			**0.0922**		
	RW-17A	Apr-17		**0.0113**	0.0223				0.000584 J	0.0569 J	0.0106	**0.719**			0.0106		
	RW-17A	Apr-18		**0.0106**	0.0232				<0.000540 J3J4	0.0346 J	0.00975	**0.767**			0.00322		
	RW-17A	Apr-19		**0.0151**	0.0205				0.000799 J	0.140	0.0138	**0.751**			0.000700 J		
	RW-17A	Jun-20		**0.0163**	0.0206				0.00178 J	0.232	0.0104	0.105			0.0154		
North RO Field	MW-117	Apr-19		0.00267	0.0119				0.00150 JB	0.127	0.000684 JB	0.00189 J			0.00940		
	MW-117	Oct-19		0.00253	0.0112				0.00105 J	0.114	<0.000240	0.00236 J			0.00898		
	MW-117	Jun-20		0.00249	0.0115 J				<0.00149	0.121	<0.00249	0.00283 J			0.00969		
	MW-117	Oct-20		0.00255	0.0110 J				<0.00149	0.132	<0.00249	0.00353 J			0.0123		
	MW-117	Apr-21		0.00260	0.0108 J				0.00191 J	0.112	0.00109 J	0.00472 J			0.0141		
	MW-117	Sep-21		0.00286	0.0130				<0.00124	0.144	0.00213	0.00367 J			0.00817		
	MW-118	Apr-19		**0.0106**	0.0106				0.00166 JB	0.0751 J	0.000334 JB	0.00119 J			0.00897		
	MW-118	Oct-19		0.00869	0.0147				0.00160 J	0.255	0.000359 J	0.00306 J			0.0120		
	MW-118	Jun-20		0.00806	0.0122 J				0.00175 J	<0.0489	<0.00249	<0.00132			0.0129		
	MW-118	Oct-20		0.00770	0.0149 J				0.00230	0.249	<0.00249	0.00273 J			0.0126		
	MW-118	Apr-21		0.00732	0.0108 J				0.00125 J	0.0458 J	<0.000849	<0.000704			0.0137		
	MW-118	Sep-21		0.00641	0.0111				0.00557	0.0652 J	<0.000849	0.00119 J			0.0145		
	MW-119	Apr-19		0.00439	0.0109				0.00115 JB	0.101	0.000477 JB	0.00405 J			0.00989		
	MW-119	Oct-19		0.00451	0.0277				0.00224	0.930	0.000875 J	0.0260			0.00456		
	MW-119	Jun-20		0.00394	0.0105 J				<0.00149	<0.0489	<0.00249	0.00689			0.00466		
	MW-119	Oct-20		0.00451	0.0101 J				0.00163 J	0.0836 J	<0.00249	0.0114 B			0.00422		
	MW-119	Apr-21		0.00449	0.0129 J				0.00278	0.276	<0.000849	0.0119			0.00456		
	MW-119	Sep-21		0.00343	0.0107				0.00190 J	0.0477 J	<0.000849	0.00435 J			0.00413		
South Refinery	KWB-2R	Apr-17		0.00152 J	0.0271				<0.000540	0.0346 J	0.000273 J	**0.564**			<0.000380		
	KWB-2R	Oct-17		0.00258	0.324				<0.000540	0.0522 J	0.00130 J	0.0596			<0.000380		
	KWB-2R	Apr-19		0.00182 J	0.0278				0.00151 JB	0.0333 J	0.000866 JB	**0.626**			<0.000380		
	KWB-2R	Oct-19		0.00126 J	0.290				<0.000540	<0.0150	0.00467	0.171			<0.000380		
	KWB-5	Oct-17		**0.0202**	**5.06**				<0.000540	**2.11**	0.000287 J	**1.64**			<0.000380		
	KWB-5	Apr-18		**0.0201**	**5.09**				<0.000540	**1.21**	0.000758 JB	**1.29**			<0.000380		
	KWB-5	Oct-18		**0.0166**	**3.75**				<0.00270	**2.13**	<0.00120	**1.55**			<0.00190		
	KWB-5	Apr-19		**0.0226**	**3.72**				0.00131 JB	**2.66**	0.00178 JB	**1.50**			<0.000380		
	KWB-6	Apr-17		0.00406	0.152				<0.000540	0.152	0.000533 J	**1.91**			<0.000380		
	KWB-6	Oct-17		0.00898	0.0998				<0.000540	0.250	0.000661 J	**2.15**			<0.000380		
	KWB-6	Apr-18		**0.0251**	0.120				0.00170 J	**4.68**	0.00564	**2.03**			<0.000380		
	KWB-6	Oct-18		0.00813	0.0699				<0.000540	0.149	<0.000240	**1.91**			0.000421 J		
	MW-28	Apr-19		0.00422	0.0660	**1.48**	<0.000160	<0.000260	0.00131 JB	0.0910 J	0.00990	0.0749	<0.0000490	0.00465	<0.000380	<0.000330	0.00270 J	
	MW-28	Oct-19		0.00396	0.0522	**1.53**	<0.000160	<0.000260	0.000933 J	0.0502 JB	0.00717	0.0261	0.0000582 JB	0.00275	0.00329	<0.000330	0.00228 J	
	MW-28	Jun-20		0.00705	0.0449	**1.32**	<0.000478	0.000802 J	<0.00149	0.122	0.0117	**0.708**	<0.000100 J6	0.00624	<0.000657	<0.00754	0.00364 J	
	MW-28	Oct-20		0.00538	0.0371	**1.32**	<0.000478	<0.000477	<0.00149	0.0940 J	0.00540	**0.389**	<0.000100	0.00504	<0.000657	<0.00754	0.00375 JB	
	MW-48	Apr-18		0.00554	1.82				<0.000540	0.105	0.00142 J	0.136			**0.247**			
	MW-48	Oct-18		0.00561	1.13 V				0.00119 J	0.231	0.00268	**0.347**			0.00132 J			
	MW-48	Apr-19		0.00395	1.04				0.000613 JB	0.195	0.00297	**0.481**			0.0405			
	MW-48	Oct-19		0.00646	1.04				0.00117 J	0.234	0.00232	**0.604**			0.000428 J			

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Appendix B, Table B.2 - Summary of Groundwater Analytical Data - Total Metals

2021 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	Total Metals													
				Analyte	Arsenic	Barium	Boron	Cadmium	Cobalt	Chromium	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Uranium	Vanadium
				CAS	7440-38-2	7440-39-3	7440-42-8	7440-43-9	7440-48-4	7440-47-3	7439-89-6	7439-92-1	7439-96-5	7439-97-6	7440-02-0	7782-49-2	7440-61-1	7440-62-2
				Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL	0.0100	2.00	0.750	0.00500	0.0500	0.0500	1.00	0.0150	0.200	0.00200	0.200	0.0500	0.0300	0.0631
				CGWSL Source	WQCC HH	WQCC HH	WQCCIrr	WQCCIrr	WQCC HH	WQCC HH	WQCC Dom	WQCC HH	WQCC Dom	WQCC HH	WQCCIrr	WQCC HH	WQCC HH	NMED TW
Area	Well ID	Date	Dup															
South Refinery	MW-50	Apr-19		0.00524	0.0143				0.00128 JB	**1.30**	0.000664 JB	**1.03**			0.00425		
	MW-50	Oct-19		0.00517	0.0155				<0.000540	0.773	0.000723 JB	**1.02**			0.00227		
	MW-50	Jun-20		0.00379 B	0.0113 J				<0.00149	0.226	<0.00249	**0.536**			0.0309		
	MW-50	Oct-20		0.00301	0.0128 J				<0.00149	0.0795 J	<0.00249	**0.450**			0.0377		
	MW-50	Apr-21		**0.0121**	0.0142 J				<0.00124	**3.96**	0.00161 J	**1.04**			0.000675 J		
	MW-50	Sep-21		0.00292	0.0142				<0.00124	0.191	<0.000849	0.156			**0.120**		
	MW-52	Apr-19		0.00357	0.0108	0.741	<0.000160	0.000338 J	0.00154 JB	<0.0150	0.000325 JB	0.0594	<0.0000490	0.00635	0.00537	0.0103	0.0262	
	MW-52	Oct-19		0.00353	0.0113	0.732	<0.000160	0.000402 J	0.000693 J	<0.0150	0.000510 JB	0.0618	0.0000644 JB	0.00980	0.00628	0.0114	0.0235	
	MW-52	Jun-20		0.00344	0.0149 J	**0.767**	<0.000478	0.000742 J	0.00273	0.252	<0.00249	0.0928	<0.000100	0.0260	0.00612	0.0131 J	0.0247	
	MW-52	Oct-20		0.00361	0.0123 J	**0.772**	<0.000478	0.000636 J	<0.00149	<0.0489	<0.00249	0.0661	<0.000100	0.0304	0.00578	0.0125 J	0.0240	
	MW-52	Apr-21		0.00350	0.0126 J	**0.765**	<0.000150	0.000735 J	<0.00124	0.0283 J	<0.000849	0.0738	<0.000100	0.0314	0.00522	0.0117 J	0.0255	
	MW-52	Sep-21		0.00363	0.0113	**0.774**	<0.000150	0.000791 J	<0.00124	<0.0281	<0.000849	0.0640	<0.000100	0.0377	0.00312	0.0104	0.0243	
	MW-64	Apr-19		**0.0266**	**2.43**				<0.000540	0.180	0.000861 JB	0.0831			0.000582 J		
	MW-64	Oct-19		**0.0230**	**2.03**				<0.000540	0.487	0.000743 JB	0.0793			<0.000380		
	MW-64	Jun-20		**0.0246**	**2.29**				<0.00149	0.349	<0.00249	0.0920			<0.000657		
	MW-64	Oct-20		**0.0249**	**2.15**				<0.00149	0.0846 J	<0.00249	0.0742			<0.000657		
	MW-64	Apr-21		**0.0237**	1.91				<0.00124	0.0631 J	0.00110 J	0.0619			0.000381 J		
	MW-64	Sep-21		**0.0234**	1.88				<0.00124	0.0938 J	<0.000849	0.0667			0.000570 J		
	MW-65	Apr-18		**0.0108**	**2.60**				<0.000540	**2.18**	0.000448 J	**0.527**			<0.000380		
	MW-65	Oct-18		0.00679 J	1.71				<0.00270	0.624	<0.00120	**0.431**			<0.00190		
	MW-65	Apr-19		0.00832	1.88				<0.000540	0.739	0.000373 JB	**0.530**			<0.000380		
	MW-65	Oct-19		0.00653	1.58				<0.000540	0.265	0.000311 JB	**0.405**			<0.000380		
	MW-66	Apr-19		0.00257	**2.75**	0.333	<0.000160	<0.000260	0.00118 JB	**1.20**	0.00158 J	**0.265**	<0.0000490	0.00606	<0.000380	<0.000330	0.000996 J	
	MW-66	Oct-19		0.00236	1.44	0.206	<0.000160	<0.000260	0.000717 J	0.426 B	0.00104 JB	**0.283**	0.0000567 JB	0.0131	0.00393	<0.000330	0.00180 J	
	MW-66	Jun-20		0.00235	1.99	0.250	<0.000478	<0.000477	<0.00149	0.748	<0.00249	**0.306**	<0.000100	0.00565	<0.000657	<0.00754	<0.000986	
	MW-66	Oct-20		0.00267	1.68	0.229	<0.000478	<0.000477	<0.00149	0.704	<0.00249	**0.339**	<0.000100	0.00675	<0.000657	<0.00754	0.00212 JB	
	MW-66	Apr-21		0.00481	**2.28**	0.294	0.000184 J	0.00135 J	0.00745	**3.81**	**0.0176**	**0.412**	<0.000100	0.0133	0.000342 J	0.000188 J	0.00606	
	MW-99	Oct-18		0.00821	0.452				0.000542 J	0.163	0.000718 J	**0.224**			0.00169 J		
	MW-99	Apr-19		0.00789	0.404				0.00207 B	0.346	0.00319	**0.225**			0.000538 J		
	MW-99	Oct-19		0.00338	0.200				0.00124 J	0.465 B	0.00301	0.193			0.00451		
	MW-99	Jun-20		0.00301	0.209				0.00275	0.168	<0.00249	**0.229**			<0.000657		
	MW-101	Apr-19		**0.0910**	0.0491				<0.000540	**3.08**	0.000245 J	**1.32**			<0.000380		
	MW-101	Oct-19		**0.0500**	0.0574				0.000548 J	**2.65**	0.000438 JB	**1.15**			0.00324		
	MW-101	Jun-20		**0.0735**	0.0551				<0.00149	**3.42**	<0.00249	**1.15**			<0.000657		
	MW-101	Oct-20		**0.0107**	0.0786				<0.00149	**1.75**	<0.00249	**0.912**			<0.000657		
	MW-101	Apr-21		0.00423	0.168				0.00212	0.337	0.00181 J	**0.669**			0.00102 J		
	MW-101	Sep-21		0.00301	0.0949				<0.00124	0.182	<0.000849	**0.651**			<0.000300		
	MW-102	Apr-19		**0.0151**	**9.15 V**				0.00168 JB	0.183	0.00384	0.0386			<0.000380 J6		
	MW-102	Oct-19		**0.0147**	0.537				0.00180 J	0.156 B	0.00374	0.0321			0.00915		
	MW-102	Jun-20		**0.0129**	**8.69**				<0.00149	0.187	0.00498 J	0.0370			<0.000657		
	MW-102	Oct-20		**0.0147**	**8.81**				0.00155 J	0.159	0.00387 J	0.0405			<0.000657		
	MW-102	Apr-21		**0.0169**	**8.02**				0.00128 J	0.131	0.00328	0.0441			<0.000300		
	MW-102	Sep-21		**0.0144**	1.05				<0.00124	0.0583 J	0.00266	0.0242			0.000649 J		
	MW-102	Sep-21	FD	**0.0143**	1.26				0.00162 J	0.0985 J	0.00288	0.0252			0.000829 J		
	MW-103	Apr-18		0.00699	**3.44**				<0.000540	0.0617 JB	<0.00240	0.00151 J			0.00106 J		
	MW-103	Apr-19		0.00567	1.34				0.00111 JB	0.316	0.00298 B	0.00530			0.000937 J		
	MW-103	Jun-20		0.00213	**2.61**				<0.00149	<0.0489	<0.00249	0.00522			<0.000657		
	MW-103	Apr-21		0.00139 J	1.26				0.00127 J	0.0716 J	0.00123 J	0.00923			<0.000300		
	MW-104	Apr-19		**0.0120**	0.0337				<0.000540	0.0208 J	<0.000240	0.0248			<0.000380		
	MW-104	Apr-19	FD	**0.0122**	0.0208				0.000737 J	0.0171 JB	<0.000240	0.0250			<0.000380		
	MW-104	Oct-19		0.00508	0.0213				0.00295	0.0284 J	0.000394 JB	0.0230			<0.000380		
	MW-104	Oct-19	FD	0.00508	0.0211				0.000987 J	0.0260 J	0.000327 JB	0.0235			0.00280		
	MW-104	Jun-20		0.00181 J	0.0253				<0.00149	<0.0489	<0.00249	0.0188			<0.000657		
	MW-104	Jun-20	FD	0.00163 JB	0.0237				<0.00149	<0.0489	<0.00249	0.0181			<0.000657		
	MW-104	Oct-20		0.00203	0.0248				0.00191 J	0.370	<0.00249	0.0252 B			<0.000657		
	MW-104	Oct-20	FD	0.00192 J	0.0238				0.00210	0.312	<0.00249	0.0245			<0.000657		
	MW-104	Apr-21		0.00144 J	0.0225				0.00174 J	<0.0281	0.000964 J	0.0383			<0.000300		
	MW-104	Apr-21	FD	0.00155 J	0.0228				0.00125 J	<0.0281	<0.000849	0.0395			0.000316 J		
	MW-104	Sep-21		0.00108 J	0.0225				<0.00124	<0.0281	<0.000849	0.0277			<0.000300		
	MW-105	Apr-19		0.0100	0.185				0.00175 J	0.390	0.00174 J	0.125			<0.000380		
	MW-105	Oct-19		0.00355	0.106				0.00510	**1.09**	0.00257	**0.240**			0.00809		
	MW-105	Jun-20		0.00808	0.983				0.00172 J	0.456	<0.00249	0.0818			<0.000657		
	MW-105	Oct-20		**0.0123**	**8.29**				0.00278	0.411	<0.00249	0.138			<0.000657		
	MW-105	Apr-21		0.00487	0.179				0.00274	**2.48**	<0.000849	**0.560**			<0.000300		
	MW-106	Apr-19		0.00725	0.0546				0.00142 J	0.438	0.00184 J	0.0113			<0.000380		
	MW-106	Oct-19		**0.0128**	0.0352				0.00208	0.0341 J	0.00187 J	0.0288			0.00324		
	MW-106	Jun-20		**0.0201**	0.0341				0.00229	0.224	0.00386 J	0.0118			0.000680 J		
	MW-106	Oct-20		**0.0255**	0.0306				0.00250	0.161	0.00411 J	0.00472 J			0.000967 J		
	MW-106	Apr-21		**0.0209**	0.0281				0.00210	0.279	0.00341	0.0323			0.000651 J		
	MW-107	Oct-16		0.00388	1.30				0.000930 JB	0.158	0.000595 J	0.0896			<0.000380		
	MW-107	Apr-17		0.00143 J	1.99				<0.000540	**5.17**	0.000437 J	0.105			0.0145		
	MW-107	Apr-18		0.00157 J	**2.32**				<0.000540	**4.54**	0.000427 JB	0.146			<0.000380		
	MW-107	Apr-19		0.00174 J	**2.64**				0.00139 JB	**2.77**	0.000542 J	0.185			<0.000380		
	MW-109	Apr-19		0.00159 J	0.0454				0.00199 JB	0.0173 J	<0.000240	0.0588			<0.000380		
	MW-109	Oct-19		0.000754 J	0.0426				<0.000540	<0.0150	0.000432 JB	0.0699			0.0289		
	MW-109	Jun-20		0.00261	0.0574				<0.00149	<0.0489	<0.00249	0.0531			<0.000657		
	MW-109	Oct-20		0.00193 J	0.0713				<0.00149	<0.0489	<0.00249	0.0544			<0.000657		
	MW-109	Apr-21		0.00417	0.177				<0.00124	0.0501 J	<0.000849	0.0800			<0.000300		
	MW-109	Sep-21		0.00199 J	0.110				<0.00124	0.0387 J	<0.000849	0.0424			<0.000300		
	MW-110	Apr-19		**0.0270**	0.0684				0.00191 JB	0.852	0.000241 JB	**1.70**			<0.000380		
	MW-110	Oct-19		**0.0326**	0.0476				<0.000540	**1.28**	0.00101 JB	**2.01**			0.00411		
	MW-110	Jun-20		**0.0345**	0.0516				<0.00149	0.919	<0.00249	**1.92**			<0.000657		
	MW-110	Oct-20		**0.0386**	0.0453				<0.00149	0.995	<0.00249	**2.01**			<0.000657		
	MW-110	Apr-21		**0.0507**	0.0598				0.00248	**3.19**	0.00142 J	**1.85**			0.000319 J		
	MW-110	Sep-21		**0.0278**	0.0602				<0.00124	**2.22**	0.00124 J	**1.54**			<0.000300		
	MW-139	Oct-19		0.00960	0.0359				0.00112 J	**2.30**	0.00170 J	**1.98**			0.000503 J		
	MW-139	Jun-20		0.00587 B	0.0324				<0.00149	0.561	<0.00249	**1.72**			<0.000657		
	MW-139	Oct-20		0.00744	0.0321				<0.00149	0.608	<0.00249	**1.89**			<0.000657		
	MW-139	Apr-21		0.00843	0.0335				0.00138 J	0.528	<0.000849	**1.71**			<0.000300		
	MW-139	Sep-21		0.00715	0.0298				<0.00124	0.355	<0.000849	**1.35**			<0.000300		
	RA-313	Apr-18																
	RA-313	Apr-19																
	RA-313	Jun-20																
	RA-313	Apr-21																
	RW-4	Apr-17		0.00340	0.0732				<0.000540	0.192	0.000419 J	0.0261			<0.000380			
	RW-4	Apr-18		0.00293	0.0671				0.000673 J	0.0270 JB	0.000685 JB	0.0548			0.000499 JB			
	RW-4	Apr-19		0.00271	0.148				0.000959 JB	0.0510 J	0.000725 J	0.0379			0.000455 J			
	RW-4	Jun-20		0.00356	0.0676				<0.00149	0.238	<0.00249	0.133			<0.000657			
	RW-5R	Apr-15		0.00136 J	0.0259				<0.000540	0.0952 J	0.000336 J	0.0177			<0.000380			
	RW-5R	Apr-16		0.00183 J	0.0282				<0.00270	<0.0750	<0.00120	0.0191 J			<0.00190			

Appendix B, Table B.2 - Summary of Groundwater Analytical Data - Total Metals

2021 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	Total Metals													
				Analyte	Arsenic	Barium	Boron	Cadmium	Cobalt	Chromium	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Uranium	Vanadium
				CAS	7440-38-2	7440-39-3	7440-42-8	7440-43-9	7440-48-4	7440-47-3	7439-89-6	7439-92-1	7439-96-5	7439-97-6	7440-02-0	7782-49-2	7440-61-1	7440-62-2
				Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL	0.0100	2.00	0.750	0.00500	0.0500	0.0500	1.00	0.0150	0.200	0.00200	0.200	0.0500	0.0300	0.0631
				CGWSL Source	WQCC HH	WQCC HH	WQCCIrr	WQCCIrr	WQCC HH	WQCC HH	WQCC Dom	WQCC HH	WQCC Dom	WQCC HH	WQCCIrr	WQCC HH	WQC HH	NMED TW
Area	Well ID	Date	Dup															
South Refinery	RW-6	Apr-15		**0.0332**	1.66				<0.000540	**13.8**	0.000574 J	**0.280**			<0.000380		
	RW-6R	Apr-16		**0.0712**	0.480				<0.00270	**3.70**	<0.00120	**0.553**			<0.00190		
	RW-6	Apr-18		**0.0170**	1.94				0.00106 J	**1.59**	0.000764 JB	**0.298**			<0.000380		
	RW-6	Apr-19		0.00630	**6.89**				0.000826 JB	0.173	0.000482 J	0.156			<0.000380		
	RW-15C	Apr-17		**0.0274**	0.885				<0.000540	0.316	0.0116	**0.358**			0.000461 JB		
	RW-15C	Apr-18		**0.0239**	1.19				0.000699 J	0.264	0.000822 J	**0.372**			0.000836 J		
	RW-15C	Apr-19		**0.0135**	1.70				0.00534 B	0.473	0.00106 JB	**0.457**			0.00895		
South RO Field	MW-114	Apr-19		0.00215	0.0150				<0.000540	0.170	0.000421 J	**0.961**			0.00532		
	MW-114	Oct-19		0.00274	0.0141				<0.000540	<0.0150	<0.000240	**1.05**			0.00389		
	MW-114	Jun-20		0.00348	0.0145 J				<0.00149	<0.0489	<0.00249	**0.980**			0.00355		
	MW-114	Oct-20		0.00400	0.0131 J				<0.00149	<0.0489	<0.00249	**0.925**			0.00293		
	MW-114	Apr-21		0.00459	0.0148 J				<0.00124	0.340	<0.000849	**0.834**			0.00440		
	MW-114	Sep-21		0.00483	0.0151				<0.00124	<0.0281	<0.000849	**0.842**			0.00321		
	MW-115	Apr-19		0.00395	0.0133				<0.000540	0.189	0.000523 J	0.123			0.00497		
	MW-115	Oct-19		0.00434	0.0136				<0.000540	0.184	0.000400 J	0.146			0.00131 J		
	MW-115	Jun-20		0.00388	0.00892 J				<0.00149	<0.0489	<0.00249	0.115			0.00483		
	MW-115	Oct-20		0.00435	0.0112 J				<0.00149	<0.0489	<0.00249	0.0983			0.00844		
	MW-115	Apr-21		0.00467	0.0111 J				<0.00124	<0.140	<0.000849	0.0602			0.00972		
	MW-115	Sep-21		0.00433	0.0101				<0.00124	<0.0281	<0.000849	0.0334			0.00669		
	MW-116	Apr-19		0.00390	0.0121				0.00124 JB	0.0431 J	<0.000240	0.0234			0.00466		
	MW-116	Oct-19		0.00309	0.00893				0.000765 J	0.0209 J	0.000619 JB	0.00907			0.00768		
	MW-116	Jun-20		0.00294	0.00939 J				<0.00149	0.161	<0.00249	0.0241			0.00730		
	MW-116	Oct-20		0.00300	0.00929 J				<0.00149	0.0902 J	<0.00249	0.0150 B			0.00619		
	MW-116	Apr-21		0.00289	0.0144 J				0.00169 J	0.366	<0.000849	0.0199			0.00685		
	MW-116	Sep-21		0.00306	0.00954				0.00147 J	0.0549 J	<0.000849	0.0227			0.00754		
TEL	MW-49	Apr-19		0.00488	0.0541	0.729	<0.000160	<0.000260	<0.000540	0.0354 JB	0.000752 J	**0.209**	0.0000959 J	0.00773	<0.000380	<0.000330	0.000224 J
	MW-49	Oct-19		0.00532	0.0486	0.642	<0.000160	<0.000260	<0.000540	0.0155 JB	0.000821 JB	0.169	<0.0000490	0.00660 B	<0.000380	<0.000330	0.000786 J
	MW-49	Jun-20		0.00514	0.0552	0.638	<0.000478	<0.000477	<0.00149	<0.0489	<0.00249	0.147	<0.000100	0.00696	<0.000657	<0.00754	<0.000986
	MW-49	Oct-20		0.00538	0.0500	0.661	<0.000478	<0.000477	<0.00149	0.0526 J	<0.00249	**0.220**	<0.000100	0.00835	<0.000657	<0.00754	<0.000986
	MW-49	Apr-21		0.00564	0.0467	0.691	<0.000150	<0.0000596	<0.00124	0.113	<0.000849	**0.295**	<0.000100	0.00991	<0.000300	<0.0000700	<0.000664
	MW-49	Sep-21		0.00466	0.0472	0.698	<0.000150	<0.0000596	<0.00124	0.0669 J	<0.000849	**0.213**	<0.000100	0.00919	0.000783 J	0.0000789	<0.000664
	TEL-1	Oct-18		**0.0173**	0.0171				0.00240	0.0675 J	<0.000240	0.0419			<0.000380		
	TEL-1	Apr-19		**0.0142**	0.0203				0.00480	0.158	0.000325 J	0.0425			<0.000380		
	TEL-1	Oct-19		**0.0136**	0.0158				0.00444 B	0.0598 JB	0.000418 JB	0.0365			<0.000380		
	TEL-1	Jun-20		**0.0116**	0.0152 J				0.00273	0.120	<0.00249	0.0315			<0.000657		
	TEL-2	Oct-18		**0.0152**	0.101				0.00151 J	0.0287 J	0.000727 J	0.0273			0.000520 J		
	TEL-2	Apr-19		**0.0117**	0.111				0.00208	0.0688 J	0.00130 J	0.0190			0.00137 J		
	TEL-2	Oct-19		**0.0115**	0.0914				0.00295 B	0.0484 JB	0.000814 JB	0.0281			0.000498 J		
	TEL-2	Jun-20		0.00826	0.131				0.00193 J	0.0517 J	<0.00249	0.0341			<0.000657		
	TEL-3	Apr-18		**0.0109**	0.0248				**0.334**	**1.47**	0.000726 J	0.0114			<0.000380		
	TEL-3	Apr-19		0.00228	0.0214				**0.0851**	0.336	0.00111 J	0.0142			0.000982 J		
	TEL-3	Oct-19		0.00161 J	0.0182				0.0248	0.112 B	0.000803 JB	0.0205			<0.000380		
	TEL-3	Oct-20		0.00434	0.0158 J				0.0275	0.158	<0.00249	0.0170			<0.000657		
	TEL-4	Apr-19		0.00133 J	0.0122				**0.151**	0.319	0.000636 J	**0.944**			0.000600 J		
	TEL-4	Apr-19	FD	0.00181 J	0.0128				**0.147**	0.348	0.000616 J	**1.00**			<0.000380		
	TEL-4	Oct-19		0.00365	0.0158				**0.239**	0.360	0.00109 JB	**0.704**			0.000388 J		
	TEL-4	Oct-19	FD	0.00356	0.0163				**0.202**	0.322	0.000682 JB	**0.684**			0.000399 J		
	TEL-4	Jun-20		0.00632	0.0169 J				**0.103**	0.455	<0.00249	**1.17 V**			0.000712 J		
	TEL-4	Jun-20	FD	0.00618	0.0178 J				**0.125**	0.506	<0.00249	**1.19**			<0.000657		
	TEL-4	Oct-20		0.00923	0.0180 J				**0.106**	0.479	<0.00249	**1.24 V**			<0.000657		
	TEL-4	Oct-20	FD	0.00921	0.0181 J				**0.0522**	0.360	<0.00249	**1.19**			<0.000657		
	TEL-4	Apr-21		**0.0128**	0.0172 J				**0.316**	**1.18**	0.00118 J	**1.53**			0.000534 J		
	TEL-4	Apr-21	FD	**0.0130**	0.0185 J				**0.313**	**1.11**	0.00178 J	**1.49**			0.000518 J		
	TEL-4	Sep-21		0.00826	0.0164				**0.0655**	0.486	0.000871 J	**1.68**			0.000424 J		
	TEL-4	Sep-21	FD	0.00807	0.0183				**0.0560**	0.450	0.000975 J	**1.67**			0.000577 J		
Three Mile Ditch	MW-8	Apr-18		0.00948	0.0110				**0.0627**	0.462	0.000387 J	**0.702**			0.0181		
	MW-8	Apr-19		0.00965	0.0134				**0.0651**	0.364	0.000715 J	**0.747**			0.0213		
	MW-8	Jun-20		0.00709	0.0155 J				0.00547 B	<0.0489	<0.00249	**0.808**			**0.0626**		
	MW-8	Apr-21		0.00685	0.0155 J				0.0140	0.0819 J	<0.000849	**0.371**			**0.0543**		
	MW-16	Apr-18		0.00612	0.0157				<0.000540 J3J4	0.0436 J	<0.000240	**0.322**			0.00394		
	MW-16	Apr-19		0.00526	0.0129				<0.000540	0.0197 JB	0.000278 J	0.0793			0.00750		
	MW-16	Jun-20		0.00508	0.0161 J				<0.00149	<0.0489	<0.00249	0.116			0.0135		
	MW-16	Apr-21		0.00528	0.0186 J				<0.00124	0.0632 J	<0.000849	**0.215**			0.00859		
	MW-20	Apr-18		0.00700	0.0104				<0.000540	<0.0150	<0.000240	0.0197			0.0147		
	MW-20	Apr-19		0.00582	0.0110				<0.000540	<0.0150	0.000327 J	0.0134			0.00866		
	MW-20	Jun-20		0.00549	0.00996 J				<0.00149	<0.0489	<0.00249	0.00342 J			0.00505		
	MW-20	Apr-21		0.00531	0.0109 J				<0.00124	<0.0281	<0.000849	0.0237			0.00615		
	MW-21	Apr-19		0.00538	0.00886				0.00133 JB	<0.0150	0.000323 J	0.138			0.0378		
	MW-21	Oct-19		0.00562	0.00881				<0.000540	<0.0150	<0.000240	**0.699**			0.0384		
	MW-21	Jun-20		0.00561	0.00916 J				<0.00149	<0.0489	<0.00249	**0.353**			**0.0521**		
	MW-21	Oct-20		0.00571	<0.00778				<0.00149	<0.0489	<0.00249	0.193			0.0429		
	MW-21	Apr-21		0.00614	0.0102 J				<0.00124	<0.0281	<0.000849	0.0684			0.0340		
	MW-21	Sep-21		0.00490	0.0104				<0.00124	<0.0281	<0.000849	**1.35**			**0.0557**		
	MW-25	Apr-18		0.00338	0.0128				0.000687 J	0.0314 J	0.000330 J	**0.676 J3V**			0.00337		
	MW-25	Apr-19		0.00224	0.0135				0.000854 J	0.0348 JB	<0.000240	**0.439**			0.00299		
	MW-25	Jun-20		0.00216	0.0150 J				<0.00149	<0.0489	<0.00249	**0.906**			0.00318		
	MW-25	Apr-21		0.00178 J	0.0189 J				<0.00124	<0.0281	<0.000849	**2.16**			0.00249		
	MW-26	Apr-18		0.00426	0.00944				<0.000540 J3J4	<0.0150	0.000351 J	**0.513**			0.0238		
	MW-26	Apr-19		0.00326	0.00888				<0.000540	<0.0150	<0.000240	**0.521**			0.0226		
	MW-26	Jun-20		0.00335	0.00884 J				<0.00149	<0.0489	<0.00249	**0.295**			0.0196		
	MW-26	Apr-21		0.00310	0.0101 J				<0.00124	<0.0281	<0.000849	0.0517			0.0201		
	MW-27	Apr-18		0.00335	0.0150				0.000709 JB	0.183	0.000265 J	0.0539			0.0124		
	MW-27	Apr-19		0.00203	0.0158				<0.000540	<0.0150	<0.000240	0.0240			0.0127		
	MW-27	Jun-20		0.00228	0.0166 J				<0.00149	<0.0489	<0.00249	0.00890			0.0169		
	MW-27	Apr-21		0.00223	0.0179 J				<0.00124	<0.0281	<0.000849	0.0143			0.0173		
	MW-46R	Apr-19		0.00406	0.0122				0.000561 JB	0.277 B	<0.000240	0.0964			0.00330		
	MW-46R	Oct-19		0.00276	0.0121				<0.000540	0.102	<0.000240	0.0684			0.00199 J		
	MW-46R	Jun-20		0.00285	0.0128 J				<0.00149	0.0754 J	<0.00249	0.0688			0.00120 J		
	MW-46R	Oct-20		0.00290	0.0110 J				<0.00149	0.0522 J	<0.00249	0.0720			<0.000657		
	MW-46R	Apr-21		0.00230	0.0237				0.00246	0.961	0.00132 J	0.0628			0.00148 J		
	MW-46R	Sep-21		0.00319	0.0195				0.00189 J	0.492	0.00112 J	0.0335			0.00365		
	MW-68	Apr-18		0.00326	0.0119				0.00211 B	0.141	0.000658 J	0.0543			0.00780		
	MW-68	Apr-19		0.00215	0.0127				<0.000540	<0.0150	0.000318 J	0.00165 JB			0.0148		
	MW-68	Jun-20		0.00280	0.0155 J				<0.00149	<0.0489	<0.00249	<0.00132			0.0317		
	MW-68	Apr-21		0.00276	0.0134 J				<0.00124	0.0401 J	<0.000849	0.00543			0.0224		
	MW-71	Apr-18		0.00500	0.00896	0.673	<0.000160	<0.000260	0.00106 J	<0.0150	<0.000240	0.000412 J	<0.0000490	0.00115 J	0.0321	**0.0594**	0.0255
	MW-71	Apr-19		0.00315	0.00901	0.670	<0.000160	<0.000260	0.000803 JB	0.0423 JB	<0.000240	0.00260 JB	<0.0000490	0.00130 J	0.0320	**0.0654**	0.0247
	MW-71	Jun-20		0.00391	0.00943 J	0.622	<0.000478	<0.000477	<0.00149	<0.0489	<0.00249	<0.00132	<0.000100	0.00111 J	0.0332	**0.0698**	0.0251
	MW-71	Apr-21		0.00385	0.00911 J	0.655	<0.000150	0.000147 J	<0.00124	<0.0281	<0.000849	0.00147 J	0.000261	0.00115 J	0.0264	**0.0666**	0.0242
	MW-89	Apr-18		**0.0112**	0.0136				0.000638 JJ3J4	<0.0150	0.000617 J	**0.628**			0.00218		
	MW-89	Apr-19		0.00748	0.0140				0.000808 JB	0.0326 JB	0.000744 J	**0.439**			0.0299		
	MW-89	Jun-20		0.00857	0.0133 J				<0.00149	<0.0489	<0.00249	**0.579**			0.00476		
	MW-89	Apr-21		**0.0132**	0.0139 J				0.00131 J	0.305	<0.000849	**0.663 V**			0.00303		

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Appendix B, Table B.2 - Summary of Groundwater Analytical Data - Total Metals

2021 Annual Groundwater Monitoring Report
HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	Total Metals													
				Analyte	Arsenic	Barium	Boron	Cadmium	Cobalt	Chromium	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Uranium	Vanadium
				CAS	7440-38-2	7440-39-3	7440-42-8	7440-43-9	7440-48-4	7440-47-3	7439-89-6	7439-92-1	7439-96-5	7439-97-6	7440-02-0	7782-49-2	7440-61-1	7440-62-2
				Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL	0.0100	2.00	0.750	0.00500	0.0500	0.0500	1.00	0.0150	0.200	0.00200	0.200	0.0500	0.0300	0.0631
				CGWSL Source	WQCC HH	WQCC HH	WQCCIrr	WQCCIrr	WQCC HH	WQCC HH	WQCC Dom	WQCC HH	WQCC Dom	WQCC HH	WQCCIrr	WQCC HH	WQCC HH	NMED TW
Area	Well ID	Date	Dup															
Three Mile Ditch	NP-1	Apr-19																
	NP-1	Oct-19																
	NP-1	Jun-20																
	NP-1	Oct-20																
	NP-1	Apr-21																
	NP-1	Sep-21																
	NP-6	Apr-15																
	NP-6	Apr-17																
	NP-6	Apr-19																
	NP-6	Apr-21																
Upgradient	UG-1	Apr-18		0.00177 JB	0.0122	0.668	<0.000160	0.00130 J	<0.000540	<0.0150	<0.000240	0.000486 J	0.0000552 JB	0.00188 J	0.00692	0.0263	0.0153	
	UG-1	Apr-19		0.00158 J	0.0165	0.727	<0.000160	0.000332 J	0.000624 JB	<0.0150	<0.000240	0.00109 J	<0.0000490	0.00226 B	0.0149	**0.0353**	0.0147	
	UG-1	Jun-20		0.00139 J	0.0137 J	0.691	<0.000478	<0.000477	<0.00149	<0.0489	<0.00249	<0.00132	<0.000100	0.000984 J	0.0131	**0.0385**	0.0133	
	UG-1	Apr-21		0.00134 J	0.0137 J	0.741	<0.000150	0.000148 J	0.00204 B	<0.0281	<0.000849	0.00184 J	<0.000100	0.00238	0.0167	**0.0388**	0.0140	
	UG-2	Apr-18		0.00236 B	0.0142	0.303	<0.000160	<0.000260	<0.000540	0.0153 J	<0.000240	0.00678	0.0000684 JB	0.00188 J	0.00710	0.0131	0.0176	
	UG-2	Apr-19		0.00227	0.0183	0.299	0.000295 J	0.000357 J	0.000732 JB	0.0286 J	0.00107 JB	0.0129	<0.0000490	0.00316 B	0.00766	0.0160	0.0174	
	UG-2	Jun-20		0.00253	0.0141 J	0.274	<0.000478	<0.000477	<0.00149	<0.0489	<0.00249	0.00395 J	<0.000100	0.00250	0.00616	0.0161 J	0.0185	
	UG-2	Apr-21		0.00224	0.0160 J	0.265	<0.000150	0.000107 J	0.00271 B	0.0303 J	<0.000849	0.00420 J	<0.000100	0.00295	0.00599	0.0161 J	0.0200	
	UG-3R	Apr-18		0.00202 B	0.0170	0.470	<0.000160	<0.000260	<0.000540	0.0377 J	<0.000240	0.000713 J	<0.0000490	0.00104 J	0.00418	0.0124	0.0111	
	UG-3R	Apr-19		0.00164 J	0.0183	0.223	<0.000160	<0.000260	0.000713 JB	<0.0150	<0.000240	0.00132 J	<0.0000490	0.000581 JB	0.00266	0.0160	0.00947	
	UG-3R	Jun-20		0.00126 J	0.0205	0.173 J	<0.000478	<0.000477	<0.00149	<0.0489	<0.00249	<0.00132	<0.000100	<0.000952	0.00389	0.0167 J	0.00867	
	UG-3R	Apr-21		0.00140 J	0.0221	0.169 J	<0.000150	0.000113 J	0.00429 B	0.0430 J	0.000853 J	0.00180 J	<0.000100	0.00108 J	0.00420	0.0181 J	0.00939	
	UG-4	Apr-18		0.00177 JB	0.0158	**1.07**	<0.000160	<0.000260	<0.000540	0.0330 J	<0.000240	0.00117 J	0.0000571 JB	0.000467 J	0.0202	**0.0324**	0.00962 B	
	UG-4	Apr-19		0.00128 J	0.0171	**1.07**	<0.000160	<0.000260	<0.000540	0.0596 J	<0.000240	0.00792	<0.0000490	0.000696 JB	0.0167	**0.0379**	0.00813	
	UG-4	Jun-20		0.00105 J	0.0164 J	**1.02**	<0.000478	<0.000477	<0.00149	<0.0489	<0.00249	0.00403 J	<0.000100	0.00177 J	0.00925	**0.0357**	0.00757	
	UG-4	Apr-21		0.00146 J	0.0150 J	**0.983**	<0.000150	0.000184 J	<0.00124	0.0350 J	<0.000849	0.00426 J	<0.000100	<0.000816	0.00959	**0.0356**	0.00929	

Definitions

X	Reported concentration, X, exceeds the CGWSL.
X	Analyte detected above the detection limit at a concentration equal to X.
<x	Analyte not detected at detection limit equal to x.
<x	Analyte not detected at detection limit equal to x, but x exceeds the CGWSL.
	Blank cell indicates a sample was collected from the well during the indicated sampling event, but the analyte was not analyzed.

Abbreviations

CGWSL	Critical Groundwater Screening Level (see Table 3)
CGWSL Source	Source for CGWSL value (see Table 3)
Dup	Duplicate sample
FD	Field duplicate sample
mg/L	Milligrams per Liter
NMED TW	NMED Risk Assessment Guidance for Site Investigations and Remediation, February 2019, Rev 2 (6/19/19), Table A-1, Tap Water Screening Level
WQCC Dom	NMED Groundwater standard for domestic exposure, 20.6.2.3103.B NMAC
WQCC HH	NMED Groundwater standard for human health exposure, 20.6.2.3103.A NMAC
WQCC Irr	NMED Groundwater standard for irrigation exposure, 20.6.2.3103.C NMAC

Lab Footnote

B	Analyte was also detected in the associated method blank.
J	Indicates an estimated value.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
O1	The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.
V	The sample concentration is too high to evaluate accurate spike recoveries.

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Appendix B, Table B.3 - Summary of Groundwater Analytical Data - Dissolved Metals

2021 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Dissolved Metals													
				Analyte:	Arsenic	Barium	Boron	Cadmium	Chromium	Cobalt	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Uranium	Vanadium
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL:	0.0100	2.00	0.750	0.00500	0.0500	0.0500	1.00	0.0150	0.200	0.00200	0.200	0.0500	0.0300	0.0631
				CGWSL Source:	WQCC HH	WQCC HH	WQCC Irr	WQCC HH	WQCC HH	WQCC Irr	WQCC Dom	WQCC HH	WQCC Dom	WQCC HH	WQCC Irr	WQCC HH	WQCC HH	NMED TW
Area	Well ID	Date	Dup															
Cross-Gradient	KWB-13	Apr-18		0.00325	**0.0201**	**0.343**	0.000440 J	**0.142**	0.00156 J	**0.619**	0.000566 J	0.00905	0.0000695 JB	**0.0687**	**0.0133**	**0.0278**	**0.0206**
	KWB-13	Apr-19		0.00250	**0.0179**	**0.311**	<0.000160	0.000721 J	<0.000260	<0.0150	<0.000240	0.000914 JB	<0.0000490	0.00165 J	**0.0145**	**0.0238**	**0.0193**
	KWB-13	Jun-20		0.00244	**0.0141 J**	**0.326**	<0.000478	<0.00149	<0.000477	<0.0489	<0.00249	<0.00132	<0.000100	<0.000952	0.00955	**0.0240**	**0.0191**
	KWB-13	Apr-21		0.00217	**0.0142 J**	**0.291**	<0.000150	0.00124 J	0.000138 J	<0.0281	<0.000849	0.00336 J	<0.000100	0.00114 J	**0.0126**	**0.0220**	**0.0174**
	MW-136	Apr-19		0.00290	**0.0106**	**0.632**	<0.000160	0.00692	0.000265 J	**0.0306 J**	<0.00240	0.00663	<0.0000490	0.00439	0.00913	**0.0658 J**	**0.0170**
	MW-136	Oct-19															
	MW-136	Jun-20		0.00256	**0.0102 J**	**0.590**	<0.000478	<0.00149	<0.000477	<0.0489	<0.00249	0.00499 J	<0.000100	0.00214	0.00481	**0.0624**	**0.0174**
	MW-136	Oct-20															
	MW-136	Apr-21		0.00251	0.00885 J	**0.485**	<0.000150	<0.00124	0.000378 J	<0.0281	0.00127 J	0.00464 J	<0.000100	0.00276	0.00726	**0.0405**	**0.0148**
	MW-136	Sep-21															
	NP-5	Apr-15		0.00306	0.00760			<0.000540		<0.0150	<0.000240	0.000511 J			**0.0128**		
	NP-5	Apr-17		0.00315	0.00738			<0.000540		<0.0150	<0.000240	<0.000250			**0.0125**		
	NP-5	Apr-19		0.00303	0.00741			<0.000540		<0.0150	0.000353 J	0.000297 J			**0.0126**		
	NP-5	Apr-21		0.00345	0.00814 J			<0.00124		<0.0281	<0.000849	0.000958 J			0.00956		
	RA-3156	Apr-18															
	RA-3156	Apr-19															
	RA-3156	Jun-20															
	RA-3156	Apr-21															
Evaporation Ponds	MW-1R	Apr-18		0.00160 J	**0.0232**			<0.000540		**3.40**	0.000491 J	**1.72 V**			<0.000380		
	MW-1R	Apr-19		0.000828 J	**0.0180**			0.00170 J		<0.0150	<0.000240	**0.876**			<0.000380		
	MW-1R	Jun-20		0.00118 J	**0.0199 J**			<0.00149		**1.62**	<0.00249	**1.37**			<0.000657		
	MW-1R	Apr-21		0.000654 J	**0.0194 J**			<0.00124		<0.0281	<0.000849	**0.971**			0.000505 J		
	MW-2A	Apr-19		0.00251	**0.0205**			0.000654 JB		<0.0150	0.00155 J	**1.01**			0.00146 J		
	MW-2A	Oct-19															
	MW-2A	Jun-20		0.00932	**0.0180 J**			<0.00149		**1.67**	<0.00249	**1.46**			<0.000657		
	MW-2A	Oct-20															
	MW-2A	Apr-21		0.00609	**0.0282**			<0.00124		<0.0281	<0.000849	**1.80 V**			0.00179 J		
	MW-2A	Sep-21															
	MW-3	Apr-19		**0.0245**	**0.0135**			0.00212		<0.0150	0.000432 J	**0.485**			**0.0119**		
	MW-3	Apr-19	FD	**0.0219**	**0.0136**			0.00110 J		<0.0150	0.000516 JB	**0.516**			**0.0126**		
	MW-3	Oct-19															
	MW-3	Oct-19	FD														
	MW-3	Jun-20		**0.0276**	**0.0135 J**			<0.00149		<0.0489	<0.00249	**0.885**			0.00866		
	MW-3	Jun-20	FD	**0.0301**	**0.0134 J**			<0.00149		<0.0489	<0.00249	**0.936**			0.00844		
	MW-3	Oct-20															
	MW-3	Oct-20	FD														
	MW-3	Apr-21		**0.0327**	**0.0132 J**			<0.00124		<0.0281	<0.000849	**1.77**			0.00508		
	MW-3	Apr-21	FD	**0.0361**	**0.0144 J**			<0.00124		<0.0281	<0.000849	**1.86**			0.00756		
	MW-3	Sep-21															
	MW-3	Sep-21	FD														
	MW-4A	Apr-19		**0.104**	**0.0109**			0.000584 JB		<0.0150	0.000927 J	**1.88**			0.000783 J		
	MW-4A	Oct-19															
	MW-4A	Jun-20		**0.104**	**0.0125 J**			<0.00149		**2.43**	<0.00249	**1.84**			0.00109 J		
	MW-4A	Oct-20															
	MW-4A	Apr-21		**0.0687**	**0.0121 J**			<0.00124		<0.0281	<0.000849	**1.94**			0.000615 J		
	MW-4A	Sep-21															
	MW-4B	Apr-15		**0.0930**	**0.0202**			<0.000540		**2.05**	<0.000240	**8.49 J**			0.000414 J		
	MW-4B	Apr-17		**0.0471**	**0.0188**			<0.000540		**0.0449 J**	<0.000240	**9.32**			<0.000380		
	MW-4B	Apr-19		**0.0455**	**0.0169**			0.000548 JB		<0.0150	0.000686 J	**9.36**			<0.000380		
	MW-4B	Apr-21		**0.0660**	**0.0160 J**			**0.0113**		**0.0572 J**	0.00225	**10.1**			<0.000300		
	MW-5A	Apr-19		**0.0378**	**0.0120**			0.000935 JB		**0.0277 JB**	0.00324	**1.48**			0.00107 J		
	MW-5A	Oct-19															
	MW-5A	Jun-20		**0.192**	**0.0150 J**			<0.00149		**3.70**	<0.00249	**0.725**			0.00136 J		
	MW-5A	Oct-20															
	MW-5A	Apr-21		**0.0892**	**0.0147 J**			<0.00124		**0.0333 J**	0.000985 J	**1.06**			0.000921 J		
	MW-5A	Sep-21															
	MW-5B	Apr-15		**0.198**	**0.0104**			0.000978 J		**4.71**	<0.000240	**3.49**			0.00197 J		
	MW-5B	Apr-17		**0.127**	**0.0111**			<0.000540		**0.0226 J**	<0.000240	**3.51**			0.00155 J		
	MW-5B	Apr-19		**0.131**	**0.0118**			0.000965 JB		**0.0237 JB**	0.000840 J	**3.16**			0.00217		
	MW-5B	Apr-21		0.00944	**0.0140 J**			0.00205		<0.0281	<0.000849	**1.04**			<0.000300		
	MW-5C	Apr-15		**0.0124**	**0.0172**			0.00115 J		**0.770**	0.000449 J	**0.687**			<0.000380		
	MW-5C	Apr-17		0.00981	**0.0140**			<0.000540		<0.0150	<0.000240	**0.906**			<0.000380		
	MW-5C	Apr-19		0.00761	**0.0128**			0.000815 JB		<0.0150	<0.000240	**0.956**			<0.000380		
	MW-5C	Apr-21		**0.133**	**0.0105 J**			<0.00124		**0.0358 J**	<0.000849	**3.21**			0.00134 J		
	MW-6A	Apr-18		0.00829	**0.0127**			0.000902 J		**0.186**	0.000497 J	**0.294**			0.000905 J		
	MW-6A	Apr-19		0.00735	**0.0133**			0.000814 JB		<0.0150	0.000483 J	**0.302**			0.000398 J		
	MW-6A	Jun-20		0.00472	**0.0127 J**			<0.00149		**0.378**	<0.00249	**0.262**			<0.000657		
	MW-6A	Apr-21		0.00481	**0.0134 J**			0.00141 JB		**0.0319 J**	<0.000849	**0.285**			0.000402 J		
	MW-6B	Apr-15		**0.0319**	**0.0186**			<0.000540		**1.21**	<0.000240	**3.52**			<0.000380		
	MW-6B	Apr-17		0.00863	**0.0141**			<0.000540		<0.0150	<0.000240	**1.01**			<0.000380		
	MW-6B	Apr-19		**0.0303**	**0.0141**			<0.000540		<0.0150	0.000822 J	**2.38**			<0.000380		
	MW-6B	Apr-21		**0.0344**	**0.0147 J**			<0.00124		<0.0281	0.00128 J	**2.31**			<0.000300		
	MW-7A	Apr-19		**0.0118**	**0.0145**			0.000941 JB		<0.0150	0.000874 J	**0.429**			0.000459 J		
	MW-7A	Apr-19	FD	**0.0126**	**0.0147**			0.000879 J		**0.0183 J**	<0.000240	**0.429**			<0.000380		
	MW-7A	Oct-19															
	MW-7A	Oct-19	FD														
	MW-7A	Jun-20		**0.0163**	**0.0139 J**			<0.00149		**1.99**	<0.00249	**0.421**			<0.000657		
	MW-7A	Jun-20	FD	**0.0175**	**0.0148 J**			<0.00149		**2.16**	<0.00249	**0.447**			<0.000657		
	MW-7A	Oct-20															
	MW-7A	Oct-20	FD														
	MW-7A	Apr-21		0.00982	**0.0168 J**			0.00141 J		<0.0281	<0.000849	**0.424**			<0.000300		
	MW-7A	Apr-21	FD	0.00926	**0.0147 J**			<0.00124		<0.0281	<0.000849	**0.409**			<0.000300		
	MW-7A	Sep-21															
	MW-7A	Sep-21	FD														
	MW-7B	Apr-15		0.00529	**0.0110**			<0.000540		**0.0879 J**	<0.000240	**0.541 J**			<0.000380		
	MW-7B	Apr-17		0.00373	**0.0118**			<0.000540		<0.0150	<0.000240	**0.493**			<0.000380		
	MW-7B	Apr-19		0.00346	**0.0107**			<0.000540		<0.0150	0.000722 J	**0.486**			<0.000380		
	MW-7B	Apr-21		0.00383	**0.0122 J**			<0.00124		<0.0281	<0.000849	**0.594**			<0.000300		
	MW-10	Apr-19		**0.0159**	**0.0125**			0.00112 J		<0.0150	0.000444 J	**2.59**			0.000549 J		
	MW-10	Oct-19															
	MW-10	Jun-20		**0.0142**	**0.0131 J**			<0.00149		**0.176**	<0.00249	**2.11**			<0.000657		
	MW-10	Oct-20															
	MW-10	Apr-21		**0.0145**	**0.0139 J**			<0.00124		<0.0281	<0.000849	**2.71**			<0.000300		
	MW-10	Sep-21															
	MW-11A	Apr-19		<0.000250	**0.0271**			<0.000540		<0.0150	0.000608 JB	**0.233**			<0.000380		
	MW-11A	Oct-19															
	MW-11A	Jun-20		<0.000735	**0.0310**			<0.00149		**1.11**	<0.00249	**1.53**			<0.000657		
	MW-11A	Oct-20															
	MW-11A	Apr-21		0.000276 J	**0.0256**			<0.00124		<0.0281	<0.00849	**0.175**			0.000873 J		
	MW-11A	Sep-21															
	MW-11B	Apr-15		0.00458 J	**0.0187 J**			<0.00270		**3.59**	<0.00120	**0.376**			<0.00190		
	MW-11B	Apr-17		0.00103 J	**0.0188**			<0.000540		**0.0826 J**	<0.000240	**0.370**			<0.000380		
	MW-11B	Apr-19		0.00108 J	**0.0185**			<0.000540		<0.0150	0.000794 JB	**0.372**			<0.000380		
	MW-11B	Apr-21		0.00133 J	**0.0172 J**			<0.00124		<0.0281	<0.00424	**0.385**			0.000363 J		
	MW-15	Apr-18		**0.0171**	**0.0210**			<0.000540		<0.0150	0.000498 J	**0.388**			0.00122 J		
	MW-15	Apr-19		**0.0195**	**0.0203**			0.00141 J		<0.0150	0.00107 JB	**0.125**			0.000792 J		
	MW-15	Jun-20		0.00780	**0.0156 J**			<0.00149		<0.0489	<0.00249	**0.543**			<0.000657		
	MW-15	Apr-21		**0.0180**	**0.0164 J**			<0.00124		<0.0281	<0.000849	**0.154**			0.00106 J		

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Appendix B, Table B.3 - Summary of Groundwater Analytical Data - Dissolved Metals

2021 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Dissolved Metals													
				Analyte:	Arsenic	Barium	Boron	Cadmium	Chromium	Cobalt	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Uranium	Vanadium
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL:	0.0100	2.00	0.750	0.00500	0.0500	0.0500	1.00	0.0150	0.200	0.00200	0.200	0.0500	0.0300	0.0631
				CGWSL Source:	WQCC HH	WQCC HH	WQCC Irr	WQCC HH	WQCC HH	WQCC Irr	WQCC Dom	WQCC HH	WQCC Dom	WQCC HH	WQCC Irr	WQCC HH	WQCC HH	NMED TW
Area	Well ID	Date	Dup															
Evaporation Ponds	MW-18A	Apr-19		0.00472	**0.0161**	**2.05**	<0.000160	<0.000540	0.00121 J	<0.0150	<0.000240	**0.330**	<0.0000490	0.00985	0.00222	**0.0314**	0.000714 J
	MW-18A	Oct-19															
	MW-18A	Jun-20		0.00447	**0.0168 J**	**1.92**	<0.000478	<0.00149	<0.000477	**1.74**	<0.00249	**1.23**	<0.000100	0.00766	<0.000657	**0.0258**	<0.000986
	MW-18A	Oct-20															
	MW-18A	Apr-21		0.00571	**0.0184 J**	**1.91**	<0.000150	<0.00124	0.000457 J	<0.0281	0.000998 J	**0.0580**	<0.000100	**0.0114**	0.000639 J	**0.0283**	<0.000664
	MW-18A	Sep-21															
	MW-18B	Apr-15		**0.0104**	**0.0116**			<0.000540		**0.0398 J**	<0.000240	**0.723**			<0.000380		
	MW-18B	Apr-17		0.00962	**0.0130**			<0.000540		<0.0150	<0.000240	**0.897**			<0.000380		
	MW-18B	Apr-19		**0.0105**	**0.0136**			0.00157 J		**0.0189 J**	<0.000240	**0.896**			0.000617 J		
	MW-18B	Apr-21		0.00878	**0.0146 J**			<0.00124		<0.0281	0.00464	**1.09**			<0.000300		
	MW-22A	Apr-19		**0.0285**	**0.0151**			0.000917 J		**0.0233 J**	<0.000240	**5.36**			0.000471 J		
	MW-22A	Apr-19	FD	**0.0265**	**0.0153**			0.000816 J		**0.0283 J**	0.000472 JB	**5.73**			0.000831 J		
	MW-22A	Oct-19															
	MW-22A	Oct-19	FD														
	MW-22A	Jun-20		**0.0260**	**0.0181 J**			<0.00149		**0.559**	<0.00249	**2.95**			0.00318		
	MW-22A	Jun-20	FD	**0.0281**	**0.0163 J**			<0.00149		**0.565**	<0.00249	**3.08**			0.00238		
	MW-22A	Oct-20															
	MW-22A	Oct-20	FD														
	MW-22A	Apr-21		**0.0232**	**0.0121 J**			<0.00124		<0.0281	<0.000849	**3.54 V**			0.00199 J		
	MW-22A	Apr-21	FD	**0.0264**	**0.0146 J**			0.00160 J		**0.0307 J**	<0.000849	**4.04**			0.000901 J		
	MW-22A	Sep-21															
	MW-22A	Sep-21	FD														
	MW-22B	Apr-15		**0.0383**	**0.0154 J**			<0.00270		**2.20**	<0.00120	**4.64**			<0.00190		
	MW-22B	Apr-17		**0.0242**	**0.0109**			<0.000540		<0.0150	<0.000240	**3.53**			0.000555 J		
	MW-22B	Apr-19		**0.0270**	**0.0130**			0.00147 J		**0.0304 J**	<0.000240	**4.13**			0.000414 J		
	MW-22B	Apr-21		**0.0236**	**0.0125 J**			<0.00124		<0.0281	<0.000849	**4.79**			0.00110 J		
	MW-70	Apr-19		**0.0174**	**0.0164**			0.00190 J		<0.0150	0.000320 JB	0.00434 J			<0.000380		
	MW-70	Oct-19															
	MW-70	Jun-20		**0.0192**	**0.0150 J**			<0.00149		**3.48**	<0.00249	**0.257**			<0.000657		
	MW-70	Oct-20															
	MW-70	Apr-21		**0.0166**	**0.0155 J**			0.00259		<0.0281	<0.000849	**0.102**			<0.000300		
	MW-70	Sep-21															
	MW-72	Apr-18		**0.0149**	**0.0148**			0.000774 J		**1.78**	<0.000240	**3.04**			0.00213		
	MW-72	Apr-19		0.00752	**0.0142**			0.00117 JB		<0.0150	0.000746 J	**1.17**			0.00165 J		
	MW-72	Jun-20		0.00634	**0.0141 J**			<0.00149		**1.01**	<0.00249	**2.14**			0.000890 J		
	MW-72	Apr-21		0.00445	**0.0151 J**			<0.00124		<0.0281	<0.000849	**1.02**			0.00151 J		
	MW-73	Apr-18		**0.0639**	0.00845			0.000722 J		**1.07**	<0.000240	**1.97**			0.00148 J		
	MW-73	Apr-19		**0.0804**	0.00903			0.00126 J		**0.0212 J**	<0.000240	**0.0172**			0.00547		
	MW-73	Jun-20		**0.0496**	0.00883 J			<0.00149		**2.27**	<0.00249	**2.12**			0.00193 J		
	MW-73	Apr-21		**0.0410**	0.00843 J			<0.00124		**0.0430 J**	<0.000849	**0.437**			0.00142 J		
	MW-74	Apr-19		**0.0567**	**0.0118**			<0.000540		**0.358**	<0.000240	**1.45**			**0.0870**		
	MW-74	Oct-19															
	MW-74	Jun-20		**0.0563**	**0.0140 J**			<0.00149		<0.0489	<0.00249	**1.20**			**0.160**		
	MW-74	Oct-20															
	MW-74	Apr-21		**0.106**	**0.0139 J**			0.00142 JB		<0.0281	<0.000849	**1.37**			**0.0128**		
	MW-74	Sep-21															
	MW-75	Apr-19		**0.0933**	**0.0170**			0.00156 J		**0.0382 J**	<0.000240	**0.930**			0.00227		
	MW-75	Oct-19															
	MW-75	Jun-20		**0.268**	**0.0166 J**			<0.00149		**4.51**	<0.00249	**1.14**			0.00286		
	MW-75	Oct-20															
	MW-75	Apr-21		**0.0888**	**0.0145 J**			0.00237		**0.0421 J**	<0.000849	**0.960**			0.00392		
	MW-75	Sep-21															
	MW-76	Apr-19		**0.0369**	**0.0148**			0.00197 J		**0.0880 J**	<0.000240	**0.659**			0.00350		
	MW-76	Oct-19															
	MW-76	Jun-20		**0.0374**	**0.0113 J**			0.00180 J		**3.20**	<0.00249	**0.764**			0.00314		
	MW-76	Oct-20															
	MW-76	Apr-21		**0.0228**	**0.0130 J**			0.00140 J		**0.0396 J**	<0.00424	**0.690**			0.00197 J		
	MW-76	Sep-21															
	MW-77	Apr-18		**0.0423**	**0.0108**			0.00949		**5.47**	<0.000240	**0.547**			**0.0112**		
	MW-77	Apr-19		**0.0283**	0.00978			0.00911		**0.157**	<0.000240	**0.596**			**0.0157**		
	MW-77	Jun-20		**0.0404**	**0.0103 J**			0.00801		**8.27**	<0.00249	**0.581**			0.00777		
	MW-77	Apr-21		**0.0247**	**0.0114 J**			**0.0106**		**0.110**	<0.000849	**0.656**			0.00814		
	MW-78	Apr-18		0.00899	**0.0443**			**0.132**		**0.0392 J**	0.000479 J	**0.196**			**0.0125**		
	MW-78	Apr-19		0.00674	**0.0480**			**0.252**		**0.0178 J**	<0.000240	**0.0618**			**0.0150**		
	MW-78	Jun-20		**0.0223**	**0.0503**			**0.122**		**6.29**	<0.00249	**0.756**			0.00718		
	MW-78	Apr-21		0.00912	**0.0456**			**0.193**		**0.0721 J**	<0.000849	**0.388**			**0.0126**		
	MW-79	Apr-19		0.00559	**0.0180**			0.00103 J		<0.0150	<0.000240	**0.507**			0.00101 J		
	MW-79	Oct-19															
	MW-79	Jun-20		0.00278	**0.0176 J**			<0.00149		**1.04**	<0.00249	**4.61**			<0.000657		
	MW-79	Oct-20															
	MW-79	Apr-21		0.00248	**0.0144 J**			<0.00124		<0.0281	<0.000849	**0.635**			0.000497 J		
	MW-79	Sep-21															
	MW-80	Apr-18		0.00206	**0.0123**			<0.000540		**0.0447 J**	<0.000240	**0.105**			0.00106 J		
	MW-80	Apr-19		0.00172 J	**0.0153**			0.00142 J		<0.0150	<0.000240	**0.165**			<0.000380		
	MW-80	Jun-20		0.00174 J	**0.0129 J**			<0.00149		**0.140**	<0.00249	**1.39**			<0.000657		
	MW-80	Apr-21		0.00176 J	**0.0135 J**			<0.00124		<0.0281	<0.000849	**0.0444**			0.000623 J		
	MW-81	Apr-18		0.00772	**0.0129**			0.000790 J		<0.0150	<0.000240	**0.0233**			0.00569		
	MW-81	Apr-19		0.00756	**0.0138**			<0.000540		<0.0150	0.000251 J	**0.0297**			0.00604		
	MW-81	Jun-20		0.00396	**0.0109 J**			<0.00149		<0.0489	<0.00249	**0.474**			0.00297		
	MW-81	Apr-21		0.00633	**0.0145 J**			0.00142 J		<0.0281	<0.000849	**0.0265**			0.00757		
	MW-82	Apr-18		**0.0274**	**0.0232**			0.00115 J		**0.0685 J**	<0.000240	**1.99**			0.000871 J		
	MW-82	Apr-19		**0.0309**	**0.0260**			0.00151 J		<0.0150	<0.000240	**1.84**			0.00106 J		
	MW-82	Jun-20		**0.0974**	**0.0226**			<0.00149		**4.09**	<0.00249	**2.23**			0.00109 J		
	MW-82	Apr-21		**0.0130**	**0.0248**			<0.00124		**0.0371 J**	<0.00424	**2.79**			0.000542 J		
	MW-83	Apr-19		**0.0195**	**0.0148**			0.00204 B		**0.0211 JB**	0.000594 J	**0.448**			**0.0110**		
	MW-83	Oct-19															
	MW-83	Jun-20		**0.0372**	**0.0227**			0.00278		**0.0650 J**	<0.00249	**0.336**			**0.0102**		
	MW-83	Oct-20															
	MW-83	Apr-21		**0.0409**	**0.0292**			0.00287		<0.0281	<0.000849	**0.142**			0.00445		
	MW-83	Sep-21															
	MW-84	Apr-19		**0.0755**	**0.0146**			0.00191 JB		**0.0465 JB**	0.000463 J	**2.55**			0.00455		
	MW-84	Oct-19															
	MW-84	Jun-20		**0.144**	**0.0129 J**			0.00557		**5.90**	<0.00249	**2.52**			0.00816		
	MW-84	Oct-20															
	MW-84	Apr-21		**0.0870**	**0.0128 J**			0.00359		**0.0775 J**	<0.00424	**2.49**			0.00590		
	MW-84	Sep-21															
	MW-86	Jun-20		**0.102**	**0.0223**	**0.617**	<0.000478	**0.0508**	<0.000477	**0.944**	<0.00249	**0.155**	0.000109 J	0.00699	0.00794	<0.00754	**0.0206**
	MW-86	Oct-20															
	MW-87	Apr-19		0.00466	**0.0143**			0.000941 J		<0.0150	0.000335 JB	**0.165**			0.000566 J		
	MW-87	Oct-19															
	MW-87	Jun-20		0.00454	**0.0162 J**			<0.00149		<0.0489	<0.00249	**3.02**			<0.000657		
	MW-87	Oct-20															
	MW-87	Apr-21		0.00530	**0.0158 J**			<0.00124		<0.0281	<0.000849	**1.16**			<0.000300		
	MW-87	Sep-21															

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Appendix B, Table B.3 - Summary of Groundwater Analytical Data - Dissolved Metals

2021 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Dissolved Metals														
				Analyte:	Arsenic	Barium	Boron	Cadmium	Chromium	Cobalt	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Uranium	Vanadium
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL:	0.0100	2.00	0.750	0.00500	0.0500	0.0500	1.00	0.0150	0.200	0.00200	0.200	0.0500	0.0300	0.0631
				CGWSL Source:	WQCC HH	WQCC HH	WQCC Irr	WQCC HH	WQCC HH	WQCC Irr	WQCC Dom	WQCC HH	WQCC Dom	WQCC HH	WQCC Irr	WQCC HH	WQCC HH	NMED TW
Area	Well ID	Date	Dup															
Evaporation Ponds	MW-88	Apr-19		0.00740	0.00970			0.00240		<0.0150	0.000289 J	**0.952**			<0.000380		
	MW-88	Oct-19															
	MW-88	Jun-20		0.00595	**0.0115 J**			<0.00149		<0.0489	<0.00249	**0.869**			<0.000657		
	MW-88	Oct-20															
	MW-88	Apr-21		0.00690	**0.0117 J**			<0.00124		<0.0281	<0.000849	**1.01**			<0.000300		
	MW-88	Sep-21															
	MW-120	Apr-19		0.00471	**0.0107**			<0.000540		<0.0150	0.000741 J	**1.22**			0.00136 J		
	MW-120	Oct-19															
	MW-120	Jun-20		0.00646	0.00974 J			<0.00149		**3.08**	<0.00249	**1.06**			<0.000657		
	MW-120	Oct-20															
	MW-120	Apr-21		0.00250	**0.0112 J**			<0.00124		<0.0281	<0.000849	**1.32**			<0.000300		
	MW-120	Sep-21															
	MW-121	Apr-19		**0.0310**	**0.0117**			0.000893 JB		<0.0150	0.000902 J	**2.13** O1V			0.00647		
	MW-121	Oct-19															
	MW-121	Jun-20		**0.0253**	**0.0109 J**			<0.00149		<0.0489	<0.00249	**2.16**			0.00388		
	MW-121	Oct-20															
	MW-121	Apr-21		**0.0231**	**0.0131 J**			<0.00124		<0.0281	<0.000849	**1.80**			0.00648		
	MW-121	Sep-21															
	MW-122	Apr-19		0.00118 J	**0.0227**			<0.000540		<0.0150	0.000932 J	**1.05**			0.000967 J		
	MW-122	Oct-19															
	MW-122	Jun-20		0.00365	**0.0194 J**			<0.00149		**1.85**	<0.00249	**1.05**			<0.000657		
	MW-122	Oct-20															
	MW-122	Apr-21		0.000931 J	**0.0203**			<0.00124		<0.0281	0.00218	**0.182**			<0.000300		
	MW-122	Sep-21															
	MW-123	Apr-19		**0.0208**	**0.0248**			0.00259		<0.0150	0.000588 J	**2.68**			<0.000380		
	MW-123	Oct-19															
	MW-123	Jun-20		**0.0178**	**0.0316**			<0.00149		<0.0489	<0.00249	**3.21**			<0.000657		
	MW-123	Oct-20															
	MW-123	Apr-21		**0.0191**	**0.0293**			<0.00124		<0.0281	<0.000849	**3.66**			0.000711 J		
	MW-123	Sep-21															
	MW-124	Apr-19		0.000279 J	**0.0182**			0.000833 J		<0.0150	<0.000240	**0.461**			<0.000380		
	MW-124	Oct-19															
	MW-124	Jun-20		0.00127 J	**0.0182 J**			<0.00149		**4.91**	<0.00249	**0.411**			<0.000657		
	MW-124	Oct-20															
	MW-124	Apr-21		0.000375 J	**0.0164 J**			<0.00124		<0.0281	<0.000849	**0.274**			<0.000300		
	MW-124	Sep-21															
	OCD-1R	Apr-19		0.00260	**0.0165**			0.00266		<0.0150	<0.000240	**0.310**			0.000567 J		
	OCD-1R	Oct-19															
	OCD-1R	Jun-20		0.00322	**0.0186 J**			<0.00149		**1.07**	<0.00249	**1.98**			<0.000657		
	OCD-1R	Oct-20															
	OCD-1R	Apr-21		0.00211	**0.0176 J**			<0.00124		<0.0281	<0.000849	**0.220**			0.000703 J		
	OCD-1R	Sep-21															
	OCD-2A	Apr-19		0.000734 J	**0.0232**			0.00205		<0.0150	<0.000240	**0.241**			<0.000380		
	OCD-2A	Oct-19															
	OCD-2A	Jun-20		0.00138 J	**0.0201**			<0.00149		**1.95**	<0.00249	**1.48 V**			<0.000657		
	OCD-2A	Oct-20															
	OCD-2A	Apr-21		0.000544 J	**0.0208**			<0.00124		<0.0281	<0.000849	**0.768**			0.000405 J		
	OCD-2A	Sep-21															
	OCD-3	Apr-19		0.000590 J	**0.0192**			0.00283		<0.0150	0.000333 J	**0.123**			<0.000380		
	OCD-3	Oct-19															
	OCD-3	Jun-20		0.000822 J	**0.0181 J**			<0.00149		**0.102**	<0.00249	**0.511**			<0.000657		
	OCD-3	Oct-20															
	OCD-3	Apr-21		0.000686 J	**0.0191 J**			<0.00124		<0.0281	<0.000849	**0.130**			<0.000300		
	OCD-3	Sep-21															
	OCD-4	Apr-19		0.000292 J	**0.0220**			0.00199 J		<0.0150	<0.000240	**0.166**			<0.000380		
	OCD-4	Oct-19															
	OCD-4	Jun-20		0.00262	**0.0233**			<0.00149		**2.66**	<0.00249	**0.293**			<0.000657		
	OCD-4	Oct-20															
	OCD-4	Apr-21		0.000608 J	**0.0234**			<0.00124		<0.0281	<0.000849	**0.0824**			0.000700 J		
	OCD-4	Sep-21															
	OCD-5	Apr-19		0.00290	**0.0246**			<0.000540		<0.0150	0.000642 JB	**0.202**			<0.000380		
	OCD-5	Oct-19															
	OCD-5	Jun-20		**0.0123**	**0.0239**			<0.00149		**3.04**	<0.00249	**0.293**			<0.000657		
	OCD-5	Oct-20															
	OCD-5	Apr-21		0.00389	**0.0234**			<0.00124		<0.0281	<0.00424	**0.284**			<0.000300		
	OCD-5	Sep-21															
	OCD-6	Apr-19		0.00551	**0.0224**			0.000575 JB		<0.0150	0.000251 J	**2.22**			0.000975 J		
	OCD-6	Oct-19															
	OCD-6	Jun-20		0.00577	**0.0228**			<0.00149		**2.32**	<0.00249	**2.52**			<0.000657		
	OCD-6	Oct-20															
	OCD-6	Apr-21		0.00605	**0.0217**			<0.00124		<0.0281	<0.000849	**2.59**			0.000336 J		
	OCD-6	Sep-21															
	OCD-7AR	Apr-19		**0.0575**	**0.0114**			<0.000540		**0.0429 JB**	0.000543 J	**0.0525**			0.00206		
	OCD-7AR	Oct-19															
	OCD-7AR	Jun-20		**0.101**	**0.0154 J**			<0.00149		**10.3**	<0.00249	**2.92**			0.00126 J		
	OCD-7AR	Oct-20															
	OCD-7AR	Apr-21		**0.0773**	**0.0142 J**			<0.00124		**0.0711 J**	<0.000849	**3.20**			0.00142 J		
	OCD-7AR	Sep-21															
	OCD-7B	Apr-15		0.00304	**0.0178**			0.000838 J		**2.72**	<0.000240	**0.626**			<0.000380		
	OCD-7B	Apr-17		0.00131 J	**0.0195**			<0.000540		<0.0150	<0.000240	**0.667**			<0.000380		
	OCD-7B	Apr-19		0.000838 J	**0.0163**			<0.000540		<0.0150	<0.000240	**0.561**			0.000672 J		
	OCD-7B	Apr-21		0.00122 J	**0.0161 J**			<0.00124		<0.0281	<0.000849	**0.706**			<0.000300		
	OCD-8A	Apr-19		**0.0639**	**0.0138**	**0.731 O1**	<0.000160	0.00304 B	0.000851 J	**0.133 B**	0.000837 J	**3.28**	<0.0000490	**0.0195**	0.00118 J	0.000730 J	0.000228 J
	OCD-8A	Oct-19															
	OCD-8A	Jun-20		**0.0537**	**0.0180 J**	**0.980**	<0.000478	<0.00149	0.00167 J	**3.53**	<0.00249	**2.00**	<0.000100	**0.0379**	0.00187 J	<0.00754	<0.000986
	OCD-8A	Oct-20															
	OCD-8A	Apr-21		**0.0423**	**0.0160 J**	**0.952**	<0.000150	<0.00124	0.00206	**0.0507 J**	0.00124 J	**2.72**	<0.000100	**0.0359**	0.00111 J	0.00369 J	<0.000664
	OCD-8A	Sep-21															
	OCD-8B	Apr-15		**0.0113**	**0.0120**			0.000653 J		**0.200**	<0.000240	**5.18**			0.000497 J		
	OCD-8B	Apr-17		0.00910	**0.0127**			<0.000540		**0.0155 J**	<0.000240	**6.46**			<0.000380		
	OCD-8B	Apr-19		0.00878	**0.0133**			0.000655 J		<0.0150	0.000266 JB	**6.75 V**			0.00108 J		
	OCD-8B	Apr-21		0.00956	**0.0129 J**			<0.00124		<0.0281	<0.000849	**6.32**			<0.000300		
Field East of Refinery	KWB-1A	Apr-19		0.00354	0.00932	**0.769**	<0.000160	<0.000540	0.00351	<0.0150	<0.000240	**0.325**	<0.0000490	0.00933	0.00117 J	**0.0189**	**0.0217**
	KWB-1A	Oct-19															
	KWB-1A	Jun-20		0.00362	0.00833 J	**0.756**	<0.000478	<0.00149	0.00291	<0.0489	<0.00249	**0.306**	<0.000100	0.00802	<0.000657	**0.0150 J**	**0.0241**
	KWB-1A	Oct-20															
	KWB-1C	Apr-15		0.00297	0.00870			<0.000540		<0.0150	0.000528 J	**0.451**			0.00155 J		
	KWB-1C	Apr-17		0.00303	0.00839			<0.000540		<0.0150	<0.000240	**0.472**			<0.000380		
	KWB-1C	Apr-19		0.00331	0.00878			0.000616 J		<0.0150	0.000282 J	**0.461**			0.000518 J		
	KWB-1C	Apr-21		0.00315	0.0100 J			<0.00124		<0.0281	<0.000849	**0.400**			<0.000300		
	KWB-7	Jun-20		0.00116 J	**0.0589**	**0.439**	<0.000478	<0.00149	<0.000477	**0.400**	<0.00249	**2.40**	<0.000100	0.00117 J	<0.000657	<0.00754	0.00370 J
	KWB-7	Oct-20															
	KWB-7	Apr-21		0.00255	**0.243**	**0.451**	<0.000150	<0.00124	<0.0000596	**0.0377 J**	<0.000849	**1.33**	<0.000100	0.00100 J	0.000575 J	0.00369 J	0.00298 J
	KWB-7	Sep-21															
	KWB-8	Oct-16															
	KWB-8	Apr-17		0.000904 J	**0.0870**	**0.600**	<0.000160	<0.000540	<0.000260	**0.0772 J**	0.000556 J	**1.77**	<0.0000490	0.000663 J	<0.000380	<0.000330	0.00112 J
	KWB-8	Oct-17															
	KWB-8	Oct-20															

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Appendix B, Table B.3 - Summary of Groundwater Analytical Data - Dissolved Metals

2021 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Dissolved Metals													
				Analyte:	Arsenic	Barium	Boron	Cadmium	Chromium	Cobalt	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Uranium	Vanadium
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL:	0.0100	2.00	0.750	0.00500	0.0500	0.0500	1.00	0.0150	0.200	0.00200	0.200	0.0500	0.0300	0.0631
				CGWSL Source:	WQCC HH	WQCC HH	WQCC Irr	WQCC HH	WQCC HH	WQCC Irr	WQCC Dom	WQCC HH	WQCC Dom	WQCC HH	WQCC Irr	WQCC HH	WQCC HH	NMED TW
Area	Well ID	Date	Dup															
Field East of Refinery	KWB-10R	Apr-17		**0.0115**	**3.39**			<0.000540		**0.281**	0.000478 J	**0.145**			<0.000380		
	KWB-10R	Oct-17															
	KWB-10R	Apr-18		**0.0178**	**4.22**			0.00201		**4.73**	0.00295	**0.182**			<0.000380		
	KWB-10R	Oct-18															
	KWB-11A	Apr-19		0.00124 J	**0.0410**	**0.388**	<0.000160	<0.000540	0.00912	<0.0150	0.000399 J	**1.03**	<0.0000490	0.00985	0.00114 J	**0.0124**	0.000252 J
	KWB-11A	Jun-20		**0.0103**	**0.0297**	**0.390**	<0.000478	<0.00149	0.00386	**7.20**	<0.00249	**0.580**	<0.000100	0.00423	0.000928 J	**0.0136 J**	0.00207 J
	KWB-11A	Oct-20															
	KWB-11A	Sep-21															
	KWB-11B	Apr-19		0.00143 J	**0.0156**	**0.100 J**	<0.000160	0.00114 J	<0.000260	<0.0150	<0.000240	0.00387 J	<0.0000490	0.00108 J	0.00951	**0.0121**	0.00893
	KWB-11B	Oct-19															
	KWB-11B	Jun-20		0.00138 J	**0.0130 J**	**0.115 J**	<0.000478	<0.00149	<0.000477	<0.0489	<0.00249	0.00148 J	<0.000100	<0.000952	0.00822	**0.0117 J**	0.00849
	KWB-11B	Oct-20															
	KWB-11B	Apr-21		0.00196 J	**0.0161 J**	**0.118 J**	0.000276 J	<0.00124	<0.0000596	<0.0281	<0.000849	0.00755 B	<0.000100	0.000844 J	0.00861	**0.0132 J**	0.00866
	KWB-11B	Sep-21															
	KWB-12A	Oct-19															
	KWB-12A	Jun-20		0.00223	**0.0177 J**	**0.561**	<0.000478	<0.00149	<0.000477	**0.180**	<0.00249	**0.0179**	<0.000100	0.00126 J	0.00343	**0.0265**	**0.0117**
	KWB-12A	Oct-20															
	KWB-12A	Sep-21															
	KWB-12B	Apr-19		0.00168 J	0.00943	**0.787**	<0.000160	<0.000540	<0.000260	<0.0150	<0.000240	0.000522 J	<0.0000490	0.00213	0.00320	**0.0273**	**0.0119**
	KWB-12B	Apr-19	FD	0.00159 J	0.00796	**0.644**	<0.000160	<0.000540	<0.000260	<0.0150	0.000544 JB	0.000304 J	<0.0000490	0.000651 J	0.00375	**0.0289**	**0.0120**
	KWB-12B	Oct-19															
	KWB-12B	Oct-19	FD														
	KWB-12B	Jun-20		0.00162 J	0.00864 J	**0.613**	<0.000478	<0.00149	<0.000477	<0.0489	<0.00249	<0.00132	<0.000100	<0.000952	0.00286	**0.0276**	**0.0127**
	KWB-12B	Jun-20	FD	0.00163 J	0.00779 J	**0.605**	<0.000478	<0.00149	<0.000477	<0.0489	<0.00249	0.00177 J	<0.000100	<0.000952	0.00391	**0.0271**	**0.0129**
	KWB-12B	Oct-20															
	KWB-12B	Oct-20	FD														
	KWB-12B	Apr-21		0.00173 J	0.00936 J	**0.606**	<0.000150	0.00305	0.0000950 J	**0.0404 J**	<0.000849	0.00344 J	<0.000100	0.00262	0.00288	**0.0266**	**0.0120**
	KWB-12B	Apr-21	FD	0.00182 J	0.00985 J	**0.587**	<0.000150	<0.00124	0.0000984 J	**0.0319 J**	<0.000849	0.00604	<0.000100	<0.000816	0.00332	**0.0273**	**0.0123**
	KWB-12B	Sep-21															
	KWB-12B	Sep-21	FD														
	KWB-P4	Apr-15															
	KWB-P4	Apr-17															
	KWB-P4	Apr-19															
	KWB-P4	Apr-21															
	MW-57	Apr-19		0.00472	**0.0174**			<0.000540		<0.0150	0.000713 JB	**0.458**			**0.0111**		
	MW-57	Oct-19															
	MW-57	Jun-20		0.00282	**0.0136 J**			<0.00149		<0.0489	<0.00249	**0.0458**			**0.0126**		
	MW-57	Oct-20															
	MW-57	Apr-21		0.00345	**0.0226**			<0.00124		<0.0281	<0.000849	**0.158**			**0.0143**		
	MW-57	Sep-21															
	MW-58	Oct-17															
	MW-58	Apr-18		0.00405	**1.47**	**0.517**	<0.000160	<0.000540	<0.000260	**0.160 B**	0.000816 J	**0.219**	<0.0000490	0.000927 J	0.000412 J	<0.000330	0.00108 J
	MW-58	Oct-18															
	MW-58	Oct-19															
	MW-111	Oct-18															
	MW-111	Apr-19		0.00770	**0.205**			<0.000540		<0.0150	0.000380 JB	**1.39**			0.000475 J		
	MW-111	Oct-19															
	MW-111	Jun-20		**0.0170**	**0.167**			<0.00149		**5.34**	<0.00249	**1.62**			<0.000657		
	MW-112	Nov-14															
	MW-113	Apr-19		0.00209	**0.0201**			<0.000540		<0.0150	0.000560 JB	**0.855**			<0.000380		
	MW-113	Apr-19	FD	0.00203	**0.0199**			<0.000540		<0.0150	0.000849 JB	**0.819**			<0.000380		
	MW-113	Oct-19															
	MW-113	Oct-19	FD														
	MW-113	Jun-20		0.00192 J	**0.0245**			<0.00149		**0.776**	<0.00249	**1.31**			<0.000657		
	MW-113	Jun-20	FD	0.00179 J	**0.0239**			<0.00149		**0.777**	<0.00249	**1.30**			<0.000657		
	MW-113	Oct-20															
	MW-113	Oct-20	FD														
	MW-113	Apr-21		0.000887 J	**0.0234**			<0.00124		<0.0281	<0.000849	**1.38**			<0.000300		
	MW-113	Apr-21	FD	0.000800 J	**0.0208**			<0.00124		<0.0281	<0.000849	**1.39**			<0.000300		
	MW-113	Sep-21															
	MW-113	Sep-21	FD														
	MW-125	Apr-19		0.00342	0.00850			<0.000540		<0.0150	<0.000240	**0.439**			0.00297		
	MW-125	Oct-19															
	MW-125	Jun-20		0.00341	0.00972 J			<0.00149		<0.0489	<0.00249	**0.427**			0.00322		
	MW-125	Oct-20															
	MW-125	Apr-21		0.00330	0.00917 J			<0.00124		<0.0281	<0.000849	**0.402**			0.00121 J		
	MW-125	Sep-21															
	MW-126A	Apr-19		0.00116 J	**0.0167**			0.00243		**0.0168 J**	<0.000240	**0.701**			<0.000380		
	MW-126A	Oct-19															
	MW-126A	Jun-20		0.00101 J	**0.0135 J**			<0.00149		**0.350**	<0.00249	**0.620**			<0.000657		
	MW-126A	Oct-20															
	MW-126B	Apr-19		0.00370	**0.0108**			<0.000540		<0.0150	0.000383 J	**0.0475**			0.00469		
	MW-126B	Oct-19															
	MW-126B	Jun-20		0.00390	0.00876 J			<0.00149		<0.0489	<0.00249	**0.0456**			0.00302		
	MW-126B	Oct-20															
	MW-126B	Apr-21		0.00385	0.00918 J			<0.00124		<0.0281	<0.000849	**0.0532**			0.00204		
	MW-126B	Sep-21															
	MW-127	Oct-17															
	MW-127	Apr-18		0.00350	**0.0793**			<0.000540		**0.0507 JB**	<0.000240	**0.108**			<0.000380		
	MW-127	Oct-18															
	MW-127	Apr-19		0.00422	**0.0905**			<0.000540		<0.0150	<0.000240	**0.110**			0.000503 J		
	MW-128	Oct-17															
	MW-128	Apr-18		**0.0530**	**0.0634**			<0.000540		**2.60**	0.000403 JB	**1.93**			<0.000380		
	MW-128	Oct-18															
	MW-128	Apr-19		**0.0239**	**0.0554**			<0.000540		<0.0150	<0.000240	**1.74**			<0.000380		
	MW-129	Apr-16		**0.0256**	**0.614**			<0.00270		**5.58**	<0.00120	**1.17**			0.00253 J		
	MW-129	Oct-16															
	MW-129	Apr-17		**0.0152**	**0.585**			<0.000540		<0.0150	<0.000240	**1.03**			0.000611 JB		
	MW-129	Apr-18		**0.0244**	**0.558**			<0.000540		**5.17**	<0.000240	**1.08**			<0.000380		
	MW-130	Apr-19		0.00368	**0.0196**			0.000943 J		<0.0150	0.000292 J	**0.100**			0.00873		
	MW-130	Oct-19															
	MW-130	Jun-20		0.00369	**0.0169 J**			<0.00149		<0.0489	<0.00249	**0.102**			0.00498		
	MW-130	Oct-20															
	MW-130	Apr-21		0.00328	**0.0193 J**			<0.00124		<0.0281	<0.000849	**0.0986**			0.00728		
	MW-130	Sep-21															
	MW-131	Apr-17		**0.0183**	**2.48**			<0.000540		<0.0150	<0.000240	**0.309**			0.000632 JB		
	MW-131	Oct-17															
	MW-131	Oct-19															
	MW-131	Jun-20		**0.0237**	**2.32**			<0.00149		**1.30**	<0.00249	**0.300**			<0.000657		
	MW-133	Nov-14															
	MW-133	Apr-15		**0.0102**	**0.138**			<0.000540		**2.59**	0.000513 J	**0.290**			0.00325		

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Appendix B, Table B.3 - Summary of Groundwater Analytical Data - Dissolved Metals

2021 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Dissolved Metals													
				Analyte:	Arsenic	Barium	Boron	Cadmium	Chromium	Cobalt	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Uranium	Vanadium
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL:	0.0100	2.00	0.750	0.00500	0.0500	0.0500	1.00	0.0150	0.200	0.00200	0.200	0.0500	0.0300	0.0631
				CGWSL Source:	WQCC HH	WQCC HH	WQCC Irr	WQCC HH	WQCC HH	WQCC Irr	WQCC Dom	WQCC HH	WQCC Dom	WQCC HH	WQCC Irr	WQCC HH	WQCC HH	NMED TW
Area	Well ID	Date	Dup															
Field East of Refinery	MW-134	Apr-19		0.00396	**0.0104**			0.000776 J		<0.0150	<0.000240	0.00840 B			0.00820		
	MW-134	Apr-19	FD	0.00420	**0.0102**			0.00109 J		<0.0150	0.000274 J	0.00598			0.00724		
	MW-134	Oct-19															
	MW-134	Oct-19	FD														
	MW-134	Jun-20		0.00399	0.00946 J			<0.00149		<0.0489	<0.00249	0.00664			0.00596		
	MW-134	Jun-20	FD	0.00383	0.00852 J			0.00150 J		<0.0489	<0.00249	0.00608			0.00661		
	MW-134	Oct-20															
	MW-134	Oct-20	FD														
	MW-134	Apr-21		0.00366	0.00904 J			<0.00124		<0.0281	<0.000849	**0.0142**			0.00487		
	MW-134	Apr-21	FD	0.00366	0.00935 J			<0.00124		<0.0281	<0.000849	**0.0185**			0.00492		
	MW-134	Sep-21															
	MW-134	Sep-21	FD														
	MW-135	Apr-19		0.00284	0.00769			0.000910 J		<0.0150	0.000434 J	0.00122 JB			**0.0285**		
	MW-135	Oct-19															
	MW-135	Jun-20		0.00314	<0.00778			<0.00149		<0.0489	<0.00249	<0.00132			**0.0224**		
	MW-135	Oct-20															
	MW-135	Apr-21		0.00312	0.00760 J			0.00173 J		<0.0281	<0.000849	0.000786 J			**0.0199**		
	MW-135	Sep-21															
	MW-145	Oct-20															
	MW-145	Oct-20	FD														
	MW-145	Apr-21		0.00374	0.00948 J			<0.00124		<0.0281	<0.000849	**0.0245**			0.00385		
	MW-145	Sep-21															
	MW-146	Oct-20															
	MW-146	Apr-21		0.00442	0.00946 J			<0.00124		<0.0281	<0.000849	0.00298 J			0.00878		
	MW-146	Sep-21															
	MW-146	Sep-21	FD														
	MW-147	Oct-20															
	MW-147	Apr-21		0.00243	0.00895 J			<0.00124		<0.0281	<0.000849	0.00731 B			**0.0187**		
	MW-147	Sep-21															
	MW-148	Oct-20															
	MW-148	Apr-21		0.00236	0.00946 J			<0.00124		<0.0281	<0.000849	0.00290 J			**0.0104**		
	MW-148	Sep-21															
	RA-4196	Apr-19															
	RA-4196	Oct-19															
	RA-4196	Jun-20															
	RA-4196	Oct-20															
	RA-4798	Apr-19															
	RA-4798	Oct-19															
	RA-4798	Jun-20															
	RA-4798	Oct-20															
	RA-4798	Apr-21															
	RA-4798	Sep-21															
	RW-12R	Apr-17		0.000617 J	**0.0410**			**0.0230**		<0.0150	0.000776 J	**0.425**			0.000720 JB		
	RW-12R	Apr-18		<0.00125	**0.0341**			0.00339 J		<0.0750	<0.00120	**0.760**			<0.00190		
	RW-12R	Apr-19		<0.000250	**0.0317** O1			0.00286		<0.0150	0.000497 JB	**1.20** O1V			<0.000380		
	RW-12R	Jun-20		<0.000735	**0.0348**			**0.0266**		<0.0489	<0.00249	**1.41**			<0.000657		
	RW-13R	Apr-16		0.00890 J	**0.0888**			<0.00270		**0.470 J**	<0.00120	**1.36**			<0.00190		
	RW-13R	Apr-18		<0.00125	**0.0490**			<0.00270		**0.352 J**	<0.00120	**1.03**			<0.00190		
	RW-18A	Apr-17		0.00331	**0.0105**			<0.000540		**0.0200 J**	<0.000240	0.00103 J			0.00340		
	RW-18A	Apr-18		0.00355	**0.0118**			<0.000540		<0.0150	<0.000240	0.00395 J			0.00389		
	RW-18A	Apr-19		0.00289	**0.0116**			<0.000540		<0.0150	<0.000240	0.00167 JB			0.00404		
	RW-18A	Jun-20		0.00253	**0.0103 J**			<0.00149		**0.0508 J**	<0.00249	0.00789			0.00517		
	RW-20	Apr-15		0.00171 J	**0.464**			<0.000540		**0.270**	<0.000240	**0.717**			0.00488		
	RW-22	Apr-15		<0.00250	**0.802**			<0.00540		**0.394 J**	0.00305 J	**0.886**			**0.0326**		
NCL	MW-18	Apr-18		0.00297	**0.0148**	**1.39**	<0.000160	**0.0156**	<0.000260	**0.113 B**	<0.000240	0.00722	<0.0000490	0.00204	**0.0155**	**0.0403**	**0.0177**
	MW-18	Apr-19		0.00296	**0.0180**	**1.56**	<0.000160	0.00272 B	<0.000260	<0.0150	0.000333 J	0.00172 JB	<0.0000490	0.00142 J	**0.0154**	**0.0255**	**0.0159**
	MW-18	Jun-20		0.00297	**0.0128 J**	**2.49**	<0.000478	<0.00149	<0.000477	<0.0489	<0.00249	**0.0131**	<0.000100	0.00166 J	0.00785	**0.0442**	**0.0181**
	MW-18	Apr-21		0.00270	**0.0120 J**	**2.32**	<0.000150	<0.00124	0.000105 J	<0.0281	<0.000849	**0.0171**	<0.000100	0.00237	0.00464	**0.0440**	**0.0187**
	MW-45	Apr-19		0.00326	**0.0154**	**0.613**	<0.000160	<0.000540	<0.000260	**0.105**	<0.000240	**0.456**	<0.0000490	0.00508	<0.000380	0.00118 J	0.000406 J
	MW-45	Oct-19															
	MW-45	Jun-20		0.00386	**0.0132 J**	**0.566**	<0.000478	<0.00149	<0.000477	**0.967**	<0.00249	**0.502**	<0.000100	0.00643	<0.000657	<0.00754	<0.000986
	MW-45	Oct-20															
	MW-45	Apr-21		0.00421	**0.0168 J**	**0.574**	<0.000150	0.00216	0.00112 J	**0.0468 J**	0.00156 J	**0.695**	<0.000100	0.00963	0.000476 J	0.00184 J	0.000803 J
	MW-45	Sep-21															
	MW-53	Apr-16		0.00166 J	**0.0246 J**			<0.00270		<0.0750	<0.00120	**0.605**			0.00498 J		
	MW-53	Apr-17		0.00162 J	**0.0210**			<0.000540		<0.0150	<0.000240	**1.50**			0.00293		
	MW-53	Apr-18		0.00144 J	**0.0197**			<0.000540		<0.0150	<0.000240	**0.437**			0.00109 J		
	MW-53	Apr-19		0.00170 J	**0.0153**			<0.000540		**0.0285 JB**	<0.000240	**0.380**			0.000569 J		
	MW-53R	Oct-20															
	MW-53R	Apr-21		0.00155 J	**0.0241**			<0.00124		<0.0281	<0.000849	**0.430**			<0.000300		
	MW-54A	Apr-19		0.00381	**0.0152**			<0.000540		<0.0150	0.000465 JB	**0.582**			<0.000380		
	MW-54A	Oct-19															
	MW-54A	Jun-20		0.00496	**0.0159 J**			<0.00149		**0.0929 J**	<0.00249	**0.633**			<0.000657		
	MW-54A	Oct-20															
	MW-54A	Apr-21		0.00363	**0.0151 J**			0.00177 J		**0.0541 J**	<0.000849	**0.700**			<0.000300		
	MW-54A	Sep-21															
	MW-54B	Apr-15		0.00205	**0.0150**			<0.000540		**0.0456 J**	<0.000240	**0.164**			0.00289		
	MW-54B	Apr-17		0.00173 J	**0.0168**			<0.000540		<0.0150	<0.000240	**0.246**			0.000795 J		
	MW-54B	Apr-19		0.00210	**0.0158**			<0.000540		<0.0150	0.000281 JB	**0.211**			0.000505 J		
	MW-54B	Apr-21		0.00185 J	**0.0171 J**			0.00150 J		<0.0281	<0.000849	**0.512**			0.000332 J		
	MW-55	Apr-19		0.00521	**0.0110**	**1.37**	0.000307 J	0.00164 JB	0.000360 J	**0.0552 J**	0.000428 J	**0.0571**	0.0000850 J	0.00614	0.00579	**0.0549**	**0.0184**
	MW-55	Oct-19															
	MW-55	Jun-20		0.00696	**0.0122 J**	**0.985**	<0.000478	<0.00149	<0.000477	<0.0489	<0.00249	**0.166**	<0.000100	0.00645	0.000735 J	**0.0513**	**0.0214**
	MW-55	Oct-20															
	MW-55	Apr-21		0.00628	**0.0140 J**	**0.644**	<0.000150	<0.00124	0.000223 J	<0.0281	0.00144 J	**0.171**	<0.000100	0.00638	0.000882 J	**0.0292**	**0.0191**
	MW-55	Sep-21															
	MW-56	Apr-18		0.00638	**0.0139**			0.000557 JB		<0.0150	0.000333 J	**0.305**			0.000537 J		
	MW-56	Apr-19		0.00597	**0.0107**			<0.000540		<0.0150	0.000471 JB	**0.328**			0.000934 J		
	MW-56	Jun-20		0.00665	**0.0113 J**			<0.00149		<0.0489	<0.00249	**0.342**			<0.000657		
	MW-56	Apr-21		0.00538	**0.0117 J**			<0.00124		<0.0281	0.00128 J	**0.274**			0.00185 J		
	MW-108	Apr-19		0.00211	**0.0330**			0.00101 J		<0.0150	0.000767 JB	**0.0233**			<0.000380		
	MW-108	Oct-19															
	MW-108	Jun-20		0.00121 J	**0.0427**			<0.00149		<0.0489	<0.00249	**0.0364**			<0.000657		
	MW-108	Oct-20															
	MW-108	Apr-21		0.00113 J	**0.0658**			<0.00124		**0.111**	<0.000849	**0.238**			<0.000300		
	MW-108	Sep-21															
	NCL-31	Apr-19		0.00546	**0.0133**			<0.000540		**0.0165 JB**	<0.000240	**1.98**			<0.000380		
	NCL-31	Oct-19															
	NCL-31	Jun-20		**0.0135**	**0.0116 J**			<0.00149		**0.720**	<0.00249	**2.31**			<0.000657		
	NCL-31	Oct-20															
	NCL-31	Apr-21		0.00381	**0.0158 J**			<0.00124		**0.0411 J**	<0.000849	**1.45**			<0.000300		
	NCL-31	Sep-21															
	NCL-32	Apr-19		0.00226	**0.0168**			<0.000540		<0.0150	0.000317 JB	**1.11**			0.00261		
	NCL-32	Oct-19															
	NCL-32	Jun-20		0.00233	**0.0169 J**			<0.00149		<0.0489	<0.00249	**1.31**			0.00326		
	NCL-32	Oct-20															
	NCL-32	Apr-21		0.00191 J	**0.0141 J**			<0.00124		<0.0281	<0.000849	**1.55**			0.00214		
	NCL-32	Sep-21															

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Appendix B, Table B.3 - Summary of Groundwater Analytical Data - Dissolved Metals

2021 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Dissolved Metals														
				Analyte:	Arsenic	Barium	Boron	Cadmium	Chromium	Cobalt	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Uranium	Vanadium
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL:	0.0100	2.00	0.750	0.00500	0.0500	0.0500	1.00	0.0150	0.200	0.00200	0.200	0.0500	0.0300	0.0631
				CGWSL Source:	WQCC HH	WQCC HH	WQCC Irr	WQCC HH	WQCC HH	WQCC Irr	WQCC Dom	WQCC HH	WQCC Dom	WQCC HH	WQCC Irr	WQCC HH	WQCC HH	NMED TW
Area	Well ID	Date	Dup															
NCL	NCL-33	Apr-19		0.00168 J	**0.0261**			<0.000540		**0.0284 J**	0.000524 J	**0.0983**			<0.000380		
	NCL-33	Oct-19															
	NCL-33	Jun-20		0.00369	**0.0263**			<0.00149		**2.79**	<0.00249	**0.205**			0.00192 J		
	NCL-33	Oct-20															
	NCL-33	Apr-21		0.00421	**0.0197 J**			<0.00124		<0.0281	<0.000849	**0.177**			0.00143 J		
	NCL-33	Sep-21															
	NCL-34A	Oct-18															
	NCL-34A	Apr-19		0.000603 J	**0.947**			<0.000540		<0.0150	<0.000240	**0.0159**			<0.000380		
	NCL-34A	Oct-19															
	NCL-34A	Jun-20		<0.000735	**0.229**			<0.00149		<0.0489	<0.00249	**0.0415**			<0.000657		
	NCL-44	Apr-19		**0.0183**	**0.0197**			<0.000540		<0.0150	0.000409 JB	**0.891**			0.000410 J		
	NCL-44	Oct-19															
	NCL-44	Jun-20		**0.0273**	**0.0214**			<0.00149		**0.787**	<0.00249	**0.905 V**			<0.000657		
	NCL-44	Oct-20															
	NCL-44	Apr-21		**0.0125**	**0.0176 J**			<0.00124		<0.0281	<0.000849	**0.732**			<0.000300		
	NCL-44	Sep-21															
	NCL-49	Apr-19		0.00148 J	**0.0124**			<0.000540		<0.0150	0.00105 JB	0.000453 J			0.00801		
	NCL-49	Apr-19	FD	0.00131 J	**0.0125**			<0.000540		<0.0150	<0.000240	<0.000250			0.00728		
	NCL-49	Oct-19															
	NCL-49	Oct-19	FD														
	NCL-49	Jun-20		0.00149 J	**0.0135 J**			<0.00149		<0.0489	<0.00249	0.00448 J			0.00782		
	NCL-49	Jun-20	FD	0.00165 J	**0.0138 J**			<0.00149		<0.0489	<0.00249	0.00492 J			0.00785		
	NCL-49	Oct-20															
	NCL-49	Oct-20	FD														
	NCL-49	Apr-21		0.00149 J	**0.0121 J**			<0.00124		<0.0281	<0.000849	<0.000704			0.00981		
	NCL-49	Apr-21	FD	0.00146 J	**0.0118 J**			<0.00124		<0.0281	<0.000849	<0.000704			0.00959		
	NCL-49	Sep-21															
	NCL-49	Sep-21	FD														
North Refinery	MW-23	Apr-19		0.00417	**7.78**			<0.000540		<0.0150	0.000775 J	**0.0646**			0.000900 J		
	MW-23	Oct-19															
	MW-23	Jun-20		0.00639	**9.73**			<0.00149		<0.0489	<0.00249	**0.0725**			<0.000657		
	MW-23	Oct-20															
	MW-29	Apr-19		0.00187 J	**0.0170**			0.000726 J		<0.0150	0.000664 JB	**0.540 V**			0.000515 J		
	MW-29	Oct-19															
	MW-29	Jun-20		0.00598	**0.0170 J**			<0.00149		<0.0489	<0.00249	**0.249**			0.00119 J		
	MW-29	Oct-20															
	MW-29	Apr-21		**0.0165**	**0.0204**			<0.00124		**0.217**	<0.000849	**0.456**			0.00192 J		
	MW-29	Sep-21															
	MW-39	Apr-19		0.00759	**0.0118**			<0.000540		<0.0150	<0.000240	**0.0227**			0.000391 J		
	MW-39	Oct-19															
	MW-39	Jun-20		0.00754	**0.0141 J**			<0.00149		<0.0489	<0.00249	**0.0417**			<0.000657		
	MW-39	Oct-20															
	MW-40	Apr-17		0.00103 J	**0.0255**			<0.000540		<0.0150	<0.000240	**0.0249**			<0.000380		
	MW-40	Apr-18		0.00213	**0.0247**			**0.0314**		**0.143**	0.00213	**0.0190**			0.00164 J		
	MW-40	Apr-19		0.000780 J	**0.0199**			<0.000540		<0.0150	<0.000240	**0.0133**			<0.000380		
	MW-40	Jun-20		<0.000735	**0.0204**			<0.00149		<0.0489	<0.00249	**0.0260**			<0.000657		
	MW-41	Apr-18		0.00774	**0.0206**			0.00773		**0.0416 J**	0.000558 J	**0.996**			0.000464 J		
	MW-41	Apr-19		0.00703	**0.0275**			<0.000540		<0.0150	0.000393 JB	**0.819**			<0.000380		
	MW-41	Jun-20		**0.0101**	**0.0175 J**			<0.00149		<0.0489	<0.00249	**0.838**			<0.000657		
	MW-41	Apr-21		**0.0207**	**0.0219**			<0.00124		**0.0325 J**	<0.000849	**0.748**			0.000712 J		
	MW-42	Apr-18		0.00531	**0.0204**			0.000739 JB		<0.0150	0.000575 J	**0.118**			0.000448 J		
	MW-42	Apr-19		0.00472	**0.0201**			<0.000540		<0.0150	<0.000240	**0.104**			<0.000380		
	MW-42	Jun-20		0.00551	**0.0189 J**			<0.00149		<0.0489	<0.00249	**0.156**			<0.000657		
	MW-42	Apr-21		0.00879	**0.0186 J**			<0.00124		**0.0415 J**	<0.000849	**0.340**			<0.000300		
	MW-43	Apr-19		0.00728	**0.435**	**1.11**	<0.000160	<0.000540	<0.000260	<0.0150	0.000341 J	**0.159**	<0.0000490	0.00605	0.000682 J	<0.000330	0.000959 J
	MW-43	Oct-19															
	MW-43	Jun-20		0.00613	**0.413**	**0.790**	<0.000478	<0.00149	<0.000477	<0.0489	<0.00249	**0.297**	<0.000100	0.00507	<0.000657	<0.00754	0.00336 J
	MW-43	Oct-20															
	MW-59	Apr-17		**0.0260**	**0.0210**			<0.000540		**0.0343 J**	<0.000240	**0.468**			0.000557 JB		
	MW-59	Apr-18		**0.0223**	**0.0246**			<0.000540		**0.0876 JB**	0.000405 JB	**0.427**			<0.000380		
	MW-59	Apr-19		**0.0215**	**0.0190**			<0.000540		<0.0150	<0.000240	**0.374**			<0.000380		
	MW-59	Jun-20		**0.0357**	**0.0178 J**			<0.00149		**0.0695 J**	<0.00249	**0.364**			<0.000657		
	MW-60	Apr-19		0.00618	**0.0190**	**0.729**	<0.000160	<0.000540	<0.000260	<0.0150	<0.000240	**0.211**	<0.0000490	0.000797 J	<0.000380	0.00120 J	0.000293 J
	MW-60	Apr-19	FD	0.00559	**0.0199**	**0.732**	<0.000160	<0.000540	<0.000260	**0.0189 J**	0.000395 J	**0.226**	<0.0000490	0.00272	<0.000380	0.00138 J	0.000301 J
	MW-60	Oct-19															
	MW-60	Oct-19	FD														
	MW-60	Jun-20		0.00557	**0.0188 J**	**0.454**	<0.000478	<0.00149	<0.000477	<0.0489	<0.00249	**0.240**	<0.000100 J6	0.00164 J	<0.000657	<0.00754	<0.000986
	MW-60	Jun-20	FD	0.00547	**0.0186 J**	**0.448**	<0.000478	<0.00149	<0.000477	<0.0489	<0.00249	**0.241**	<0.000100	0.00123 J	<0.000657	<0.00754	<0.000986
	MW-60	Oct-20															
	MW-60	Oct-20	FD														
	MW-61	Apr-19		0.00378	**0.0335**			<0.000540		<0.0150	0.00139 J	**0.0128**			<0.000380		
	MW-61	Oct-19															
	MW-61	Jun-20		0.00315	**0.0464**			<0.00149		<0.0489	0.00263 J	**0.0207**			<0.000657		
	MW-61	Oct-20															
	MW-61	Apr-21		0.00413	**0.0451**			<0.00124		<0.0281	0.00204	**0.0239**			<0.000300		
	MW-61	Sep-21															
	MW-62	Apr-19		**0.0115**	**0.0544**			<0.000540		<0.0150	<0.000240	0.00401 J			0.000412 J		
	MW-62	Oct-19															
	MW-62	Jun-20		**0.0450**	**0.0562**			<0.00149		<0.0489	<0.00249	0.00690			<0.000657		
	MW-62	Oct-20															
	MW-62	Sep-21															
	MW-62R	Oct-20															
	MW-62R	Apr-21		**0.0593**	**3.66**			<0.00124		**0.0788 J**	<0.000849	**0.232**			<0.000300		
	MW-67	Oct-17															
	MW-67	Apr-18		0.00676	**0.0921**	**0.470**	<0.000160	0.000938 J	<0.000260	<0.0150	0.000391 J	**0.0930**	<0.0000490	0.000912 J	<0.000380	<0.000330	0.000590 J
	MW-67	Oct-18															
	MW-67	Apr-19		0.00778	**0.0907**	**0.408**	<0.000160	0.000857 J	<0.000260	<0.0150	0.000639 J	**0.0930**	<0.0000490	0.00233	<0.000380	<0.000330	0.000472 J
	MW-90	Apr-19		0.00222	**0.0161**			0.000751 J		<0.0150	0.000355 J	**0.0668**			0.000741 J		
	MW-90	Oct-19															
	MW-90	Jun-20		0.00285	**0.0146 J**			<0.00149		**0.273**	<0.00249	**0.0892**			<0.000657		
	MW-90	Oct-20															
	MW-90	Apr-21		0.00744	**0.0167 J**			<0.00124		<0.0281	<0.000849	**0.101**			0.000531 J		
	MW-90	Sep-21															
	MW-91	Oct-18															
	MW-91	Apr-19		0.00427	**0.0470**			0.000589 J		<0.0150	0.00196 J	0.00753			**0.0188**		
	MW-91	Oct-19															
	MW-91	Jun-20		0.00555	**0.0603**			<0.00149		<0.0489	0.00498 J	0.00244 J			<0.000657		
	MW-92	Apr-16		0.00285 J	**3.57**			<0.00270		**0.217 J**	<0.00120	**0.0349**			<0.00190		
	MW-92	Oct-16															
	MW-93	Apr-17		0.00375	**0.0210**			0.00235		**0.0197 J**	0.000486 J	**0.0255**			**0.0145**		
	MW-93	Apr-18		0.00554	**0.0288**			0.00278		<0.0150	0.000746 JB	**0.0282**			0.00375		
	MW-93	Apr-19		0.00774	**0.0326**			0.00134 J		<0.0150	0.000308 J	**0.0551**			0.00347		
	MW-93	Jun-20		0.00919	**0.0340**			0.00291		<0.0489	<0.00249	**0.213**			0.00299		
	MW-94	Oct-15															
	MW-94	Apr-16		**0.0163**	**0.356**			<0.00270		<0.0750	<0.00120	0.00601 J			**0.0334**		
	MW-94	Oct-16															
	MW-94	Apr-17		**0.0106**	**0.771**			0.00124 J		<0.0150	0.000343 J	0.00235 J			0.00973		

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Appendix B, Table B.3 - Summary of Groundwater Analytical Data - Dissolved Metals

2021 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Dissolved Metals													
				Analyte:	Arsenic	Barium	Boron	Cadmium	Chromium	Cobalt	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Uranium	Vanadium
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL:	0.0100	2.00	0.750	0.00500	0.0500	0.0500	1.00	0.0150	0.200	0.00200	0.200	0.0500	0.0300	0.0631
				CGWSL Source:	WQCC HH	WQCC HH	WQCC Irr	WQCC HH	WQCC HH	WQCC Irr	WQCC Dom	WQCC HH	WQCC Dom	WQCC HH	WQCC Irr	WQCC HH	WQCC HH	NMED TW
Area	Well ID	Date	Dup															
North Refinery	MW-95	Apr-17		0.00162 J	**0.0592**			<0.000540		<0.0150	0.000323 J	**0.0285**			0.00164 J		
	MW-95	Apr-18		0.00135 J	**0.0690**			<0.000540		<0.0150	<0.000240	**0.0559**			0.000786 J		
	MW-95	Apr-19		0.00113 J	**0.0570**			0.000653 J		<0.0150	<0.000240	**0.0902**			0.000845 J		
	MW-95	Jun-20		0.00135 J	**0.0434**			<0.00149		<0.0489	<0.00249	**0.151**			0.000657 J		
	MW-96	Apr-19		0.00247	**0.165**			0.000920 J		<0.0150	<0.000240	0.00104 J			0.000440 J		
	MW-96	Oct-19															
	MW-96	Jun-20		0.00225	**0.166**			<0.00149		<0.0489	<0.00249	<0.00132			0.000663 J		
	MW-96	Oct-20															
	MW-96	Sep-21															
	MW-98	Apr-19		0.00122 J	**0.0155**			<0.000540		<0.0150	0.00567	**0.0200**			0.000575 J		
	MW-98	Oct-19															
	MW-98	Jun-20		0.000790 J	**0.0165 J**			<0.00149		<0.0489	0.00616	**0.0201**			<0.000657		
	MW-98	Oct-20															
	MW-98	Apr-21		0.00100 J	**0.0187 J**			<0.00124		<0.0281	0.00492	**0.0208**			<0.000300		
	MW-98	Sep-21															
	MW-137	Oct-17															
	MW-137	Apr-18		**0.0491**	**0.0727**	**0.973**	<0.000160	<0.000540	<0.000260	<0.0150	0.00404	**0.147**	<0.000490	**0.0110**	0.00248	<0.000330	0.00694	
	MW-137	Oct-18																
	MW-137	Apr-19		**0.0453**	**0.0818**	**0.971**	<0.000160	<0.000540	<0.000260	<0.0150	0.00243	**0.145**	<0.0000490	**0.0125**	0.000905 J	<0.000330	0.00708	
	MW-138	Oct-17																
	MW-138	Apr-18		0.00517	**0.133**	**0.955**	<0.000160	<0.000540	<0.000260	<0.0150	<0.000240	**0.111**	<0.0000490	0.00593	<0.000380	<0.000330	0.00128 J	
	MW-138	Oct-18																
	MW-138	Apr-19		0.00428	**0.121**	**0.878**	<0.000160	<0.000540	<0.000260	<0.0150	<0.000240	**0.124**	<0.0000490	0.00524	0.000668 J	<0.000330	0.000806 J	
	RW-1R	Apr-16		0.00435 J	**0.0367**			<0.00270		**11.3**	<0.00120	**0.301**			<0.00190			
	RW-1	Apr-17		**0.0234**	**0.0229**			0.00338		**0.184**	<0.000240	**0.218**			0.00286			
	RW-1	Apr-18		0.00532	**0.0308**			0.000552 J		**0.0584 J**	0.000322 J	**0.0124**			0.00122 J			
	RW-1	Apr-19		0.00919	**0.0308**			0.00100 J		<0.0150	0.000281 J	0.00768			0.00148 J			
	RW-2	Apr-15		**0.0194**	**0.0174**			0.00494		**0.0471 J**	0.000546 J	**0.285**			0.00133 J			
	RW-2R	Apr-16		0.00883 J	**0.0206 J**			0.00400 JB		**0.770**	<0.00120	**0.0466**			0.00516 J			
	RW-2	Apr-17		0.00230	**0.0530**			0.00131 J		**0.0200 J**	0.000647 J	**0.0157**			**0.0364**			
	RW-2	Apr-18		0.00314	**0.131**			0.000882 J		<0.0150	0.000739 JB	**0.0203**			0.000515 J			
	RW-7	Apr-17		0.00273	**0.0191**			<0.000540		**0.0228 J**	<0.000240	**1.12**			0.00142 J			
	RW-7	Apr-18		0.00798	**0.138**			0.00243 B		**0.0450 J**	<0.000240	**0.0650**			0.000791 J			
	RW-7	Apr-19		**0.0145**	**0.120**			0.00172 J		**0.0780 J**	<0.000240	**0.161**			<0.000380			
	RW-7	Jun-20		0.00695	**0.174**			<0.00149		<0.0489	<0.00249	**0.113**			<0.000657			
	RW-8	Apr-15		0.00521	**0.0797**			<0.000540		**0.163**	0.000591 J	**0.0744**			<0.000380			
	RW-8	Apr-17		**0.0346**	**0.0661**			<0.000540		**2.13**	<0.000240	**1.14**			<0.000380			
	RW-9	Apr-18		0.00305	**0.0452**			0.000544 JB		<0.0150	0.000890 J	**0.511**			0.000670 J			
	RW-9	Apr-19		0.00295	**0.0400**			<0.000540		<0.0150	0.000632 J	**0.474**			0.000477 J			
	RW-9	Jun-20		0.00428	**0.0370**			<0.00149		<0.0489	<0.00249	**0.354**			<0.000657			
	RW-9	Apr-21		0.00464	**0.0342**			<0.00124		<0.0281	<0.000849	**0.327**			<0.000300			
	RW-10	Apr-18		0.00191 J	**0.0220**			<0.000540		<0.0150	0.000521 J	**0.181**			<0.000380			
	RW-10	Apr-19		0.00140 J	**0.0176**			<0.000540		<0.0150	<0.000240	**0.175**			<0.000380			
	RW-10	Jun-20		0.00387	**0.0192 J**			<0.00149		<0.0489	<0.00249	**0.175**			<0.000657			
	RW-10	Apr-21		0.00529	**0.0208**			<0.00124		<0.0281	<0.000849	**0.142**			<0.000300			
	RW-16B	Apr-17		**0.0133**	**0.0126**			0.000989 J		<0.0150	<0.000240	**0.264**			0.00535			
	RW-16B	Apr-18		0.00858	**0.0130**			0.000761 JB		<0.0150	<0.000240	**0.194**			0.00691			
	RW-16B	Apr-19		**0.0126**	**0.0153**			<0.000540		<0.0150	0.000673 JB	**0.458**			0.00910			
	RW-16B	Jun-20		**0.0242**	**0.0195 J**			<0.00149		**0.100**	<0.00249	**0.0546**			**0.0777**			
	RW-17A	Apr-17		**0.0109**	**0.0213**			<0.000540		<0.0150	0.00763	**0.711**			0.00945			
	RW-17A	Apr-18		**0.0102**	**0.0217**			0.000940 J		<0.0150	0.00688	**0.748**			0.00305			
	RW-17A	Apr-19		**0.0150**	**0.0225**			0.00152 J		<0.0150	0.00301	**0.810**			<0.000380			
	RW-17A	Jun-20		**0.0156**	**0.0199 J**			0.00187 J		<0.0489	0.00270 J	**0.118**			**0.0157**			
North RO Field	MW-117	Apr-19		0.00218	0.00957			<0.000540		<0.0150	0.000314 JB	<0.000250			0.00853			
	MW-117	Oct-19																
	MW-117	Jun-20		0.00262	0.00934 J			<0.00149		<0.0489	<0.00249	0.00162 J			0.00942			
	MW-117	Oct-20																
	MW-117	Apr-21		0.00263	**0.0105 J**			0.00129 J		<0.0281	<0.000849	0.00408 J			**0.0142**			
	MW-117	Sep-21																
	MW-118	Apr-19		0.00969	0.00867			<0.000540		<0.0150	<0.000240	<0.000250			0.00809			
	MW-118	Oct-19																
	MW-118	Jun-20		0.00796	**0.0116 J**			<0.00149		<0.0489	<0.00249	<0.00132			**0.0125**			
	MW-118	Oct-20																
	MW-118	Apr-21		0.00732	**0.0103 J**			<0.00124		<0.0281	<0.000849	<0.000704			**0.0133**			
	MW-118	Sep-21																
	MW-119	Apr-19		0.00352	0.00865			<0.000540		**0.0428 J**	<0.000240	0.000824 J			0.00919			
	MW-119	Oct-19																
	MW-119	Jun-20		0.00370	0.00958 J			<0.00149		<0.0489	<0.00249	0.00646			0.00484			
	MW-119	Oct-20																
	MW-119	Apr-21		0.00435	0.00901 J			<0.00124		<0.0281	<0.000849	0.00426 J			0.00488			
	MW-119	Sep-21																
South Refinery	KWB-2R	Apr-17		0.00326	**0.0234**			<0.000540		**0.517**	0.000733 J	**0.665**			<0.000380			
	KWB-2R	Oct-17																
	KWB-2R	Apr-19		0.00135 J	**0.0293**			<0.000540		<0.0150	0.000322 J	**0.593**			0.000416 J			
	KWB-2R	Oct-19																
	KWB-5	Oct-17																
	KWB-5	Apr-18		**0.0152**	**3.15**			0.00359		**1.89**	<0.000240	**1.14**			<0.000380			
	KWB-5	Oct-18																
	KWB-5	Apr-19		**0.0197**	**3.24**			<0.000540		**0.0820 J**	0.00106 J	**1.57**			<0.000380			
	KWB-6	Apr-17		0.00449	**0.140**			<0.000540		<0.0150	<0.000240	**1.98**			0.000450 J			
	KWB-6	Oct-17																
	KWB-6	Apr-18		0.00437	**0.0911**			<0.000540		**0.103**	0.000429 J	**1.51**			<0.000380			
	KWB-6	Oct-18																
	MW-28	Apr-19		0.00520	**0.0488**	**1.43**	<0.000160	<0.000540	<0.000260	<0.0150	0.00181 J	**0.0672**	<0.0000490	0.00359	0.000720 J	<0.000330	0.00104 J	
	MW-28	Oct-19																
	MW-28	Jun-20		0.00684	**0.0421**	**1.35**	<0.000478	<0.00149	<0.000477	**0.0711 J**	<0.00249	**0.743**	<0.000100	0.00559	<0.000657	<0.00754	0.00388 J	
	MW-28	Oct-20																
	MW-48	Apr-18		0.00747	**1.97**			<0.000540		<0.0150	0.000847 J	**0.154**			0.000669 J			
	MW-48	Oct-18																
	MW-48	Apr-19		0.00380	**1.04**			<0.000540		<0.0150	0.000304 J	**0.407**			0.000451 J			
	MW-48	Oct-19																
	MW-50	Apr-19		0.00223	**0.0129**			<0.000540		<0.0150	0.000440 J	**1.00**			0.00445			
	MW-50	Oct-19																
	MW-50	Jun-20		0.00399	**0.0125 J**			<0.00149		**0.253**	<0.00249	**0.621**			**0.0354**			
	MW-50	Oct-20																
	MW-50	Apr-21		0.00582	**0.0143 J**			**0.0376**		**0.182**	<0.000849	**0.903**			0.000453 J			
	MW-50	Sep-21																
	MW-52	Apr-19		0.00375	**0.0114**	**0.700**	<0.000160	<0.000540	0.000286 J	<0.0150	<0.000240	**0.0479**	<0.0000490	0.00672	0.00468	**0.0105**	**0.0249**	
	MW-52	Oct-19																
	MW-52	Jun-20		0.00379	**0.0136 J**	**0.792**	<0.000478	<0.00149	0.000478 J	<0.0489	<0.00249	**0.0738**	<0.000100	**0.0252**	0.00633	**0.0123 J**	**0.0251**	
	MW-52	Oct-20																
	MW-52	Apr-21		0.00400	**0.0117 J**	**0.776**	<0.000150	<0.00124	0.000656 J	<0.0281	<0.000849	**0.0239**	<0.000100	**0.0329**	0.00352	**0.0119 J**	**0.0262**	
	MW-52	Sep-21																

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Appendix B, Table B.3 - Summary of Groundwater Analytical Data - Dissolved Metals

2021 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Dissolved Metals													
				Analyte:	Arsenic	Barium	Boron	Cadmium	Chromium	Cobalt	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Uranium	Vanadium
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL:	0.0100	2.00	0.750	0.00500	0.0500	0.0500	1.00	0.0150	0.200	0.00200	0.200	0.0500	0.0300	0.0631
				CGWSL Source:	WQCC HH	WQCC HH	WQCC Irr	WQCC HH	WQCC HH	WQCC Irr	WQCC Dom	WQCC HH	WQCC Dom	WQCC HH	WQCC Irr	WQCC HH	WQCC HH	NMED TW
Area	Well ID	Date	Dup															
South Refinery	MW-64	Apr-19		**0.0270**	**2.33**			<0.000540		<0.0150	<0.000240	**0.0755**			<0.000380		
	MW-64	Oct-19															
	MW-64	Jun-20		**0.0247**	**2.27** O1V			<0.00149		<0.0489	<0.00249	**0.0932**			<0.000657 J5		
	MW-64	Oct-20															
	MW-64	Apr-21		**0.0247**	**1.98**			<0.00124		**0.0507 J**	<0.000849	**0.119**			<0.000300		
	MW-64	Sep-21															
	MW-65	Apr-18		**0.0108**	**2.75**			0.00329		**1.52**	0.000368 J	**0.559**			<0.000380		
	MW-65	Oct-18															
	MW-65	Apr-19		0.00653	**1.71**			<0.000540		**0.0315 J**	<0.000240	**0.456**			<0.000380		
	MW-65	Oct-19															
	MW-66	Apr-19		0.00235	**2.34**	**0.274**	<0.000160	<0.000540	<0.000260	**0.0333 J**	0.000270 J	**0.240**	<0.0000490	0.00568	<0.000380	<0.000330	0.000391 J
	MW-66	Oct-19															
	MW-66	Jun-20		0.00213	**1.92**	**0.263**	<0.000478	<0.00149	<0.000477	**0.615**	<0.00249	**0.303**	<0.000100	0.00624	<0.000657	<0.00754	0.00117 J
	MW-66	Oct-20															
	MW-66	Apr-21		0.00298	**2.09**	**0.306**	<0.000150	<0.00124	0.000148 J	**0.0670 J**	0.00119 JB	**0.361**	<0.000100	**0.0115**	<0.000300	<0.0000700	0.000757 J
	MW-99	Oct-18															
	MW-99	Apr-19		0.00720	**0.375 V**			<0.000540		<0.0150	<0.000240	**0.219 V**			<0.000380		
	MW-99	Oct-19															
	MW-99	Jun-20		0.00295	**0.207**			0.00258		**0.169**	<0.00249	**0.227**			0.000815 J		
	MW-101	Apr-19		**0.0531**	**0.0391**			<0.000540		<0.0150	<0.000240	**1.17**			<0.000380		
	MW-101	Oct-19															
	MW-101	Jun-20		**0.0487**	**0.0614**			<0.00149		**0.623**	<0.00249	**1.18**			<0.000657		
	MW-101	Oct-20															
	MW-101	Apr-21		0.00275	**0.164**			<0.00124		**0.0411 J**	<0.000849	**0.687**			<0.000300		
	MW-101	Sep-21															
	MW-102	Apr-19		**0.0147**	**8.31**			<0.000540		**0.139**	0.00368	**0.0398**			0.000516 J		
	MW-102	Oct-19															
	MW-102	Jun-20		**0.0122**	**8.83**			<0.00149		**0.0939 J**	0.00325 J	**0.0371**			<0.000657		
	MW-102	Oct-20															
	MW-102	Apr-21		**0.0164**	**7.45**			<0.00124		**0.0542 J**	0.00246 B	**0.0432**			<0.000300		
	MW-102	Sep-21															
	MW-102	Sep-21	FD														
	MW-103	Apr-18		0.00564	**3.80**			0.000882 J		<0.0150	0.00107 J	0.00187 J			<0.000380		
	MW-103	Apr-19		0.00608	**1.25**			<0.000540		<0.0150	0.000544 JB	0.00173 J			<0.000380		
	MW-103	Jun-20		0.00189 J	**2.37**			<0.00149		<0.0489	<0.00249	0.00496 J			<0.000657		
	MW-103	Apr-21		0.00115 J	**1.32**			<0.00124		**0.0758 J**	0.00104 J	**0.0273 B**			<0.000300		
	MW-104	Apr-19		**0.0111**	**0.0228**			<0.00270		<0.0750	<0.00120	**0.0192 J**			<0.000380		
	MW-104	Apr-19	FD	**0.0122**	**0.0201**			<0.000540		<0.0150	0.000422 JB	**0.0215**			0.000588 J		
	MW-104	Oct-19															
	MW-104	Oct-19	FD														
	MW-104	Jun-20		0.00145 J	**0.0231**			<0.00149		<0.0489	<0.00249	**0.0171**			<0.000657		
	MW-104	Jun-20	FD	0.00162 J	**0.0224**			<0.00149		<0.0489	<0.00249	**0.0173**			0.000700 J		
	MW-104	Oct-20															
	MW-104	Oct-20	FD														
	MW-104	Apr-21		0.00149 J	**0.0215**			<0.00124		<0.0281	<0.000849	**0.0338**			<0.000300		
	MW-104	Apr-21	FD	0.00150 J	**0.0225**			<0.00124		<0.0281	<0.000849	**0.0360**			<0.000300		
	MW-104	Sep-21															
	MW-105	Apr-19		0.00939	**0.185**			0.00120 J		<0.0150	0.000432 J	**0.135**			0.00872		
	MW-105	Oct-19															
	MW-105	Jun-20		0.00881	**0.923**			0.00163 J		<0.0489	<0.00249	**0.0799**			<0.000657		
	MW-105	Oct-20															
	MW-105	Apr-21		0.00629	**0.160**			0.00214 B		**1.16**	<0.000849	**0.597**			0.000310 J		
	MW-106	Apr-19		**0.0102**	**0.0635**			0.00173 J		**0.139**	0.000522 J	**0.0122**			0.000915 J		
	MW-106	Oct-19															
	MW-106	Jun-20		**0.0209**	**0.0344**			0.00176 J		<0.0489	<0.00249	0.00784			<0.000657		
	MW-106	Oct-20															
	MW-106	Apr-21		**0.0240**	**0.0276**			0.00156 J		<0.0281	0.00206	**0.0301**			0.000577 J		
	MW-107	Oct-16															
	MW-107	Apr-17		0.00128 J	**2.01**			<0.000540		**0.0388 J**	<0.000240	**0.107**			<0.000380		
	MW-107	Apr-18		0.00157 J	**2.34**			<0.000540		**4.47**	0.000418 JB	**0.152**			0.000426 J		
	MW-107	Apr-19		0.00139 J	**2.23**			<0.000540		**0.0278 J**	0.000378 J	**0.163**			<0.000380		
	MW-109	Apr-19		0.00408	**0.0373**			0.000553 J		<0.0150	0.000262 J	**0.0603**			0.000402 J		
	MW-109	Oct-19															
	MW-109	Jun-20		0.00310	**0.0437**			<0.00149		<0.0489	<0.00249	**0.0675**			<0.000657		
	MW-109	Oct-20															
	MW-109	Apr-21		0.00281	**0.179**			<0.00124		<0.0281	<0.000849	**0.0688**			<0.000300		
	MW-109	Sep-21															
	MW-110	Apr-19		**0.0175**	**0.0676**			<0.000540		<0.0150	<0.000240	**1.66**			0.000406 J		
	MW-110	Oct-19															
	MW-110	Jun-20		**0.0355**	**0.0516**			<0.00149		**0.876**	<0.00249	**2.03**			<0.000657		
	MW-110	Oct-20															
	MW-110	Apr-21		**0.0344**	**0.0465**			<0.00124		<0.0281	<0.000849	**2.03**			<0.000300		
	MW-110	Sep-21															
	MW-139	Oct-19															
	MW-139	Jun-20		0.00601	**0.0349**			<0.00149		**0.574**	<0.00249	**1.90**			<0.000657		
	MW-139	Oct-20															
	MW-139	Apr-21		0.00983	**0.0329**			<0.00124		**0.177**	0.00924	**2.27**			0.000314 J		
	MW-139	Sep-21															
	RA-313	Apr-18															
	RA-313	Apr-19															
	RA-313	Jun-20															
	RA-313	Apr-21															
	RW-4	Apr-17		0.00381	**0.0709**			0.000690 J		<0.0150	<0.000240	**0.0245 O1**			<0.000380		
	RW-4	Apr-18		0.00301	**0.0675**			<0.000540		<0.0150	0.000410 JB	**0.0535**			<0.000380		
	RW-4	Apr-19		0.00355	**0.135**			<0.000540		<0.0150	0.000712 J	**0.0375**			<0.000380		
	RW-4	Jun-20		0.00328	**0.0680**			<0.00149		<0.0489	<0.00249	**0.124**			<0.000657		
	RW-5R	Apr-15		0.00136 J	**0.0275**			<0.000540		**0.0247 J**	<0.000240	**0.0167**			<0.000380		
	RW-5R	Apr-16		0.00182 J	**0.0307**			<0.00270		**0.146 J**	<0.00120	**0.0193 J**			0.00542 J		
	RW-6	Apr-15		**0.0354**	**0.857**			0.000677 J		**17.5**	0.00129 J	**0.284**			<0.000380		
	RW-6R	Apr-16		**0.0615**	**0.384**			<0.00270		**3.37**	<0.00120	**0.537**			0.00213 J		
	RW-6	Apr-18		**0.0141**	**1.90**			<0.000540		**1.32**	0.000568 JB	**0.279**			0.000513 J		
	RW-6	Apr-19		0.00656	**6.17 V**			<0.000540		**0.0878 J**	0.000368 JP1	**0.161**			0.000690 J		
	RW-15C	Apr-17		**0.0306**	**0.896**			<0.000540		**0.137**	0.000501 J	**0.376**			<0.000380		
	RW-15C	Apr-18		**0.0264**	**1.27 V**			<0.000540		**0.197**	0.000585 J	**0.399**			0.000675 J		
	RW-15C	Apr-19		**0.0128**	**1.61**			0.00263		**0.216**	0.000416 J	**0.463**			0.000987 J		
South RO Field	MW-114	Apr-19		0.00231	**0.0127**			<0.000540		**0.0161 J**	0.000567 J	**0.912**			0.00717		
	MW-114	Oct-19															
	MW-114	Jun-20		0.00334	**0.0138 J**			<0.00149		<0.0489	<0.00249	**0.997**			0.00352		
	MW-114	Oct-20															
	MW-114	Apr-21		0.00460	**0.0131 J**			<0.00124		<0.0281	<0.000849	**0.889**			0.00325		
	MW-114	Sep-21															
	MW-115	Apr-19		0.00376	**0.0103**			<0.000540		<0.0150	0.000387 J	**0.102**			0.00553		
	MW-115	Oct-19															
	MW-115	Jun-20		0.00415	0.00879 J			<0.00149		<0.0489	<0.00249	**0.109**			0.00556		
	MW-115	Oct-20															
	MW-115	Apr-21		0.00407	0.00866 J			<0.00124		<0.0281	<0.000849	**0.0444**			0.00927		
	MW-115	Sep-21															

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Appendix B, Table B.3 - Summary of Groundwater Analytical Data - Dissolved Metals

2021 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Dissolved Metals													
				Analyte:	Arsenic	Barium	Boron	Cadmium	Chromium	Cobalt	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Uranium	Vanadium
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL:	0.0100	2.00	0.750	0.00500	0.0500	0.0500	1.00	0.0150	0.200	0.00200	0.200	0.0500	0.0300	0.0631
				CGWSL Source:	WQCC HH	WQCC HH	WQCC Irr	WQCC HH	WQCC HH	WQCC Irr	WQCC Dom	WQCC HH	WQCC Dom	WQCC HH	WQCC Irr	WQCC HH	WQCC HH	NMED TW
Area	Well ID	Date	Dup															
South RO Field	MW-116	Apr-19		0.00324	0.00833			<0.000540		<0.0150	<0.000240	**0.0172**			0.00499		
	MW-116	Oct-19															
	MW-116	Jun-20		0.00285	0.00796 J			<0.00149		<0.0489	<0.00249	0.00841			0.00674		
	MW-116	Oct-20															
	MW-116	Apr-21		0.00311	0.00975 J			<0.00124		<0.0281	<0.000849	**0.0105**			0.00608		
	MW-116	Sep-21															
TEL	MW-49	Apr-19		0.00479	**0.0525**	**0.662**	<0.000160	0.000887 JB	<0.000260	**0.0357 J**	0.000563 J	**0.196**	<0.0000490	0.00648	<0.000380	<0.000330	0.000260 J
	MW-49	Oct-19															
	MW-49	Jun-20		0.00575	**0.0545**	**0.664**	<0.000478	<0.00149	<0.000477	<0.0489	<0.00249	**0.185**	<0.000100	0.00770	<0.000657	<0.00754	<0.000986
	MW-49	Oct-20															
	MW-49	Apr-21		0.00551	**0.0465**	**0.695**	<0.000150	<0.00124	0.000177 J	**0.0660 J**	0.000955 J	**0.279**	<0.000100	**0.0104**	<0.000300	<0.0000700	<0.000664
	MW-49	Sep-21															
	TEL-1	Oct-18															
	TEL-1	Apr-19		**0.0128**	**0.0196**			0.00285		**0.0400 JB**	<0.000240	**0.0405**			<0.000380		
	TEL-1	Oct-19															
	TEL-1	Jun-20		**0.0134**	**0.0162 J**			0.00317		**0.113**	<0.00249	**0.0390**			<0.000657		
	TEL-2	Oct-18															
	TEL-2	Apr-19		0.00309	**0.0191**			0.00660		**0.0268 JB**	<0.000240	**0.0153**			<0.000380		
	TEL-2	Oct-19															
	TEL-2	Jun-20		0.00940	**0.0307**			<0.00149		<0.0489	<0.00249	**0.0377**			<0.000657		
	TEL-3	Apr-18		0.00964	**0.0219**			**0.0263**		**0.0526 J**	0.000337 J	0.00609			0.000457 J		
	TEL-3	Apr-19		0.00129 J	**0.0138**			0.00225		**0.0489 JB**	<0.000240	**1.09**			<0.000380		
	TEL-3	Oct-19															
	TEL-3	Oct-20															
	TEL-4	Apr-19		0.00233	**0.0151**			0.00235 B		**0.0270 JB**	0.00199 J	**0.979**			0.00168 J		
	TEL-4	Apr-19	FD	0.00167 J	**0.0125**			0.00267		**0.0194 JB**	<0.00120	**1.08**			0.000390 JB		
	TEL-4	Oct-19															
	TEL-4	Oct-19	FD														
	TEL-4	Jun-20		0.00668	**0.0183 J**			0.00662		**0.151**	<0.00249	**1.35**			<0.000657		
	TEL-4	Jun-20	FD	0.00635	**0.0173 J**			0.00568		**0.157**	<0.00249	**1.24 V**			<0.000657		
	TEL-4	Oct-20															
	TEL-4	Oct-20	FD														
	TEL-4	Apr-21		**0.0112**	**0.0163 J**			**0.0402**		<0.0281	<0.000849	**1.49**			0.000523 J		
	TEL-4	Apr-21	FD	**0.0113**	**0.0174 J**			**0.0372**		**0.0401 J**	<0.000849	**1.49**			0.000460 J		
	TEL-4	Sep-21															
	TEL-4	Sep-21	FD														
Three Mile Ditch	MW-8	Apr-18		0.00655	**0.0130**			0.00334 B		**0.0225 JB**	<0.000240	**0.635**			**0.0166**		
	MW-8	Apr-19		0.00632	**0.0131**			0.00102 J		<0.0150	0.000287 JB	**0.654**			**0.0198**		
	MW-8	Jun-20		0.00646	**0.0155 J**			<0.00149		<0.0489	<0.00249	**0.730**			**0.0566**		
	MW-8	Apr-21		0.00567	**0.0158 J**			<0.00124		<0.0281	<0.000849	**0.350**			**0.0537**		
	MW-16	Apr-18		0.00517	**0.0134**			<0.000540		<0.0150	<0.000240	**0.0579**			0.00361		
	MW-16	Apr-19		0.00510	**0.0128**			0.000722 J		<0.0150	<0.000240	0.00101 J			0.00748		
	MW-16	Jun-20		0.00518	**0.0137 J**			<0.00149		<0.0489	<0.00249	**0.0223**			**0.0120**		
	MW-16	Apr-21		0.00499	**0.0138 J**			<0.00124		<0.0281	<0.000849	0.00771 B			0.00741		
	MW-20	Apr-18		0.00603	**0.0107**			<0.000540		<0.0150	<0.000240	**0.0107**			**0.0122**		
	MW-20	Apr-19		0.00551	**0.0107**			<0.000540		<0.0150	0.000540 JB	0.00500			0.00934		
	MW-20	Jun-20		0.00553	0.00949 J			<0.00149		<0.0489	<0.00249	<0.00132			0.00424		
	MW-20	Apr-21		0.00525	**0.0110 J**			<0.00124		<0.0281	<0.000849	0.00620			0.00663		
	MW-21	Apr-19		0.00518	**0.0101**			0.000738 J		<0.0150	<0.000240	**0.135**			**0.0381**		
	MW-21	Oct-19															
	MW-21	Jun-20		0.00539	0.00862 J			<0.00149		<0.0489	<0.00249	**0.245**			**0.0497**		
	MW-21	Oct-20															
	MW-21	Apr-21		0.00562	**0.0108 J**			<0.00124		<0.0281	<0.000849	**0.0402**			**0.0346**		
	MW-21	Sep-21															
	MW-25	Apr-18		0.00236	**0.0117**			<0.000540		<0.0150	0.000260 J	**0.228**			0.00292		
	MW-25	Apr-19		0.00182 J	**0.0123**			<0.000540		<0.0150	0.000631 J	**0.188**			0.00255		
	MW-25	Jun-20		0.00200 J	**0.0111 J**			<0.00149		<0.0489	<0.00249	**0.183**			0.00208		
	MW-25	Apr-21		0.00178 J	**0.0127 J**			<0.00124		<0.0281	<0.000849	**0.167**			0.00213		
	MW-26	Apr-18		0.00335	0.00897			<0.000540		<0.0150	<0.000240	**0.481**			**0.0220**		
	MW-26	Apr-19		0.00363	0.00856			0.000948 J		<0.0150	<0.000240	**0.423**			**0.0233**		
	MW-26	Jun-20		0.00316	0.00792 J			<0.00149		<0.0489	<0.00249	**0.255**			**0.0171**		
	MW-26	Apr-21		0.00271	**0.0101 J**			<0.00124		<0.0281	<0.000849	**0.0340**			**0.0187**		
	MW-27	Apr-18		0.00228	**0.0147**			<0.000540		**0.0213 JB**	0.000824 J	**0.0491**			**0.0119**		
	MW-27	Apr-19		0.00243	**0.0160**			<0.000540		<0.0150	<0.000240	**0.0175**			**0.0146**		
	MW-27	Jun-20		0.00219	**0.0157 J**			<0.00149		<0.0489	<0.00249	0.00198 J			**0.0154**		
	MW-27	Apr-21		0.00215	**0.0170 J**			<0.00124		<0.0281	<0.000849	<0.000704			**0.0167**		
	MW-46R	Apr-19		0.00230	**0.0137**			<0.000540		<0.0150	<0.000240	**0.0711**			0.00230		
	MW-46R	Oct-19															
	MW-46R	Jun-20		0.00266	**0.0102 J**			<0.00149		<0.0489	<0.00249	**0.0447**			<0.000657		
	MW-46R	Oct-20															
	MW-46R	Apr-21		0.00203	**0.0101 J**			<0.00124		<0.0281	<0.000849	**0.0514**			0.000559 J		
	MW-46R	Sep-21															
	MW-68	Apr-18		0.00252	**0.0113**			<0.000540		**0.0205 JB**	0.000713 J	**0.0527**			0.00800		
	MW-68	Apr-19		0.00247	**0.0116**			0.00161 J		<0.0150	<0.000240	0.00110 J			**0.0154**		
	MW-68	Jun-20		0.00243	**0.0159 J**			<0.00149		<0.0489	<0.00249	<0.00132			**0.0319**		
	MW-68	Apr-21		0.00263	**0.0138 J**			<0.00124		<0.0281	<0.000849	<0.000704			**0.0210**		
	MW-71	Apr-18		0.00370	0.00985	**0.662**	<0.000160	<0.000540	<0.000260	<0.0150	<0.000240	0.00159 J	<0.0000490	0.00168 J	**0.0328**	**0.0634**	**0.0255**
	MW-71	Apr-19		0.00354	0.00909	**0.216**	<0.000160	0.000984 J	<0.000260	<0.0150	0.000281 JB	0.00267 J	<0.0000490 J6	0.00401	**0.0315**	**0.0626**	**0.0235**
	MW-71	Jun-20		0.00372	0.00839 J	**0.620**	<0.000478	<0.00149	<0.000477	<0.0489	<0.00249	<0.00132	<0.000100	0.00119 J	**0.0300**	**0.0673**	**0.0247**
	MW-71	Apr-21		0.00349	0.00977 J	**0.659**	<0.000150	<0.00124	0.000130 J	<0.0281	<0.000849	0.00289 J	0.000100 J	0.00180 J	**0.0259**	**0.0629**	**0.0232**
	MW-89	Apr-18		0.00953	**0.0138**			0.00168 JB		**0.0243 JB**	0.000551 J	**0.605**			0.00261		
	MW-89	Apr-19		0.00690	**0.0122**			<0.000540		<0.0150	<0.000240	**0.432**			**0.0314**		
	MW-89	Jun-20		0.00880	**0.0117 J**			0.00153 J		<0.0489	<0.00249	**0.567**			0.00409		
	MW-89	Apr-21		0.00997	**0.0127 J**			<0.00124		<0.0281	<0.000849	**0.678**			0.00176 J		
	NP-1	Apr-19															
	NP-1	Oct-19															
	NP-1	Jun-20															
	NP-1	Oct-20															
	NP-1	Apr-21															
	NP-1	Sep-21															
	NP-6	Apr-15															
	NP-6	Apr-17															
	NP-6	Apr-19															
	NP-6	Apr-21															
Upgradient	UG-1	Apr-18		0.00131 J	**0.0119**	**0.756**	<0.000160	0.000981 J	0.00125 J	<0.0150	<0.000240	0.000405 J	<0.0000490	0.00218	0.00579	**0.0273**	**0.0132**
	UG-1	Apr-19		0.00123 J	**0.0149**	**0.794**	<0.000160	<0.000540	0.000404 J	<0.0150	0.000301 JB	0.00124 J	<0.0000490	0.00167 J	**0.0125**	**0.0324**	**0.0133**
	UG-1	Jun-20		0.00113 J	**0.0141 J**	**0.718**	<0.000478	<0.00149	<0.000477	<0.0489	<0.00249	0.00154 J	<0.000100	0.00119 J	**0.0153**	**0.0390**	**0.0139**
	UG-1	Apr-21		0.00143 J	**0.0130 J**	**0.791**	<0.000150	0.00150 JB	0.000180 J	<0.0281	0.00193 J	0.00523	<0.000100	0.00323 B	**0.0177**	**0.0377**	**0.0149**
	UG-2	Apr-18		0.00194 J	**0.0135**	**0.421**	<0.000160	<0.000540	<0.000260	<0.0150	<0.000240	<0.000250	<0.0000490	0.00146 J	0.00622	**0.0131**	**0.0158**
	UG-2	Apr-19		0.00200	**0.0156**	**0.280**	<0.000160	<0.000540	<0.000260	<0.0150	<0.000240	0.000681 J	<0.0000490	0.00302	0.00626	**0.0147**	**0.0152**
	UG-2	Jun-20		0.00241	**0.0140 J**	**0.296**	<0.000478	<0.00149	<0.000477	<0.0489	<0.00249	0.00441 J	<0.000100	0.00278	0.00842	**0.0166 J**	**0.0188**
	UG-2	Apr-21		0.00215	**0.0147 J**	**0.301**	<0.000150	<0.00124	0.0000955 J	**0.0679 J**	0.00170 J	**0.0105**	<0.000100	0.00440 B	0.00700	**0.0157 J**	**0.0196**

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Appendix B, Table B.3 - Summary of Groundwater Analytical Data - Dissolved Metals

2021 Annual Groundwater Monitoring Report
HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Dissolved Metals													
				Analyte:	Arsenic	Barium	Boron	Cadmium	Chromium	Cobalt	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Uranium	Vanadium
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL:	0.0100	2.00	0.750	0.00500	0.0500	0.0500	1.00	0.0150	0.200	0.00200	0.200	0.0500	0.0300	0.0631
				CGWSL Source:	WQCC HH	WQCC HH	WQCC Irr	WQCC HH	WQCC HH	WQCC Irr	WQCC Dom	WQCC HH	WQCC Dom	WQCC HH	WQCC Irr	WQCC HH	WQCC HH	NMED TW
Area	**Well ID**	**Date**	**Dup**															
Upgradient	UG-3R	Apr-18			0.00161 J	**0.0167**	**0.597**	<0.000160	0.000691 J	<0.000260	**0.0186 JB**	<0.000240	0.000475 J	<0.0000490	0.000962 J	0.00298	**0.0126**	0.00919
	UG-3R	Apr-19			0.00143 J	**0.0165**	**0.332**	<0.000160	<0.000540	<0.000260	<0.0150	<0.000240	0.000430 J	<0.0000490	0.000953 J	0.00264	**0.0149**	0.00850
	UG-3R	Jun-20			0.00132 J	**0.0200**	**0.184 J**	<0.000478	0.00240	<0.000477	<0.0489	<0.00249	0.00488 J	<0.000100	0.00177 J	0.00421	**0.0166 J**	0.00878
	UG-3R	Apr-21			0.00138 J	**0.0236**	**0.187 J**	<0.000150	<0.00124	0.000116 J	**0.0311 J**	0.00106 J	0.00707	<0.000100	0.00278 B	0.00450	**0.0175 J**	0.00934
	UG-4	Apr-18			0.00109 J	**0.0163**	**1.17**	<0.000160	<0.000540	<0.000260	<0.0150	<0.000240	<0.000250	<0.0000490	<0.000350	**0.0173**	**0.0335**	0.00710
	UG-4	Apr-19			0.000962 J	**0.0165**	**1.14**	<0.000160	<0.000540	<0.000260	<0.0150	<0.000240	0.000298 J	<0.0000490	0.00109 J	**0.0169**	**0.0361**	0.00723
	UG-4	Jun-20			0.00112 J	**0.0156 J**	**1.07**	<0.000478	<0.00149	<0.000477	<0.0489	<0.00249	0.00149 J	<0.000100	0.00108 J	**0.0104**	**0.0359**	0.00739
	UG-4	Apr-21			0.00130 J	**0.0140 J**	**1.06**	<0.000150	<0.00124	0.000211 J	<0.0281	<0.000849	0.000787 J	<0.000100	0.000829 J	0.00987	**0.0358**	0.00765

Definitions

X	Reported concentration, X, exceeds the CGWSL.
X	Analyte detected above the detection limit at a concentration equal to X.
<x	Analyte not detected at detection limit equal to x.
<x	Analyte not detected at detection limit equal to x, but x exceeds the CGWSL.
	Blank cell indicates a sample was collected from the well during the indicated sampling event, but the analyte was not analyzed.

Abbreviations

CGWSL	Critical Groundwater Screening Level (see Table 3)
CGWSL Source	Source for CGWSL Value (see Table 3)
Dup	Duplicate sample
FD	Field duplicate sample
mg/L	Milligrams per Liter
NMED TW	NMED Risk Assessment Guidance for Site Investigations and Remediation, February 2019, Rev 2 (6/19/19), Table A-1, Tap Water Screening Level
WQCC Dom	NMED Groundwater standard for domestic exposure taken from 20.6.2.3103.B NMAC
WQCC HH	NMED Groundwater standard for human health exposure, 20.6.2.3103.A NMAC
WQCC Irr	NMED Groundwater standard for irrigation exposure, 20.6.2.3103.C NMAC

Lab Footnote

B	Analyte was also detected in the associated method blank.
J	Indicates an estimated value.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
O1	The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.
V	The sample concentration is too high to evaluate accurate spike recoveries.

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Appendix B, Table B.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2021 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

Analyte Group:				Volatile Organic Compounds										
Analyte:				1,1,1,2-Tetra-chloroethane	1,1,1-Tri-chloroethane	1,1,2,2-Tetra-chloroethane	1,1,2-Tri-chloroethane	1,1-Di-chloroethane	1,1-Di-chloroethene	1,2,4-Trimethyl-benzene	1,2-Dibromoethane (Ethylene dibromide)	1,2-Di-chloroethane	1,3,5-Trimethyl-benzene	2-Butanone (MEK)
Units:				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
CGWSL:				---	0.200	0.01	0.00500	0.0250	0.00700	0.0560	0.0000500	0.00500	0.0600	5.56
CGWSL Source:				---	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	USEPA TW	NMED TW
Area	**Well ID**	**Date**	**Dup**											
Cross-Gradient	KWB-13	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	KWB-13	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.00191	<0.000381	<0.000361	<0.000387	<0.00393
	KWB-13	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	KWB-13	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-136	Apr-19		<0.000385 J4	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381 J4	<0.000361	<0.000387	<0.00393
	MW-136	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-136	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-136	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-136	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-136	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	NP-5	Apr-15		<0.000380	<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	0.000804 J		<0.000360	<0.000390	<0.00390
	NP-5	Apr-17		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	NP-5	Apr-19		<0.000385 J4	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381 J4	<0.000361	<0.000387	<0.00393
	NP-5	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	RA-3156	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	RA-3156	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	RA-3156	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	RA-3156	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
Evaporation Ponds	MW-1R	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-1R	Apr-19		<0.000385	<0.000319 J4	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-1R	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104 J4	<0.00119
	MW-1R	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-2A	Apr-19		<0.00192	<0.00160	<0.000650	<0.00192	<0.00130	<0.00199	<0.00186	<0.00190	<0.00180	<0.00194	<0.0196
	MW-2A	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-2A	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104 J4	<0.00119
	MW-2A	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-2A	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-2A	Sep-21												
	MW-3	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-3	Apr-19	FD	<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-3	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-3	Oct-19	FD	<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398 J3	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-3	Jun-20		<0.00368	<0.00373	<0.00333	<0.00395	<0.00250	<0.00470	<0.00805	<0.00315	<0.00205	<0.00260	<0.0298
	MW-3	Jun-20	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-3	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-3	Oct-20	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-3	Apr-21		<0.00368	<0.00373	<0.00333	<0.00395	<0.00250	<0.00470	<0.00805	<0.00315	<0.00205	<0.00260	<0.0298
	MW-3	Apr-21	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-3	Sep-21												
	MW-3	Sep-21	FD											
	MW-4A	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-4A	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-4A	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-4A	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.000437 J	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-4A	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.000560 J	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-4A	Sep-21												
	MW-4B	Apr-15		<0.000380	<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370		<0.000360	<0.000390	<0.00390
	MW-4B	Apr-17		<0.000385	<0.000319	<0.000130	<0.000383 J4	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-4B	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-4B	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-5A	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-5A	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398 J3	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-5A	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-5A	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-5A	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-5A	Sep-21												
	MW-5B	Apr-15		<0.000380	<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	0.000976 J		<0.000360	<0.000390	<0.00390
	MW-5B	Apr-17		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000499 J	<0.000381	<0.000361	<0.000387	<0.00393
	MW-5B	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000414 J	<0.000381	<0.000361	<0.000387	<0.00393
	MW-5B	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-5C	Apr-15		<0.000380	<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370		<0.000360	<0.000390	<0.00390
	MW-5C	Apr-17		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-5C	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-5C	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.000433 J	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-6A	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-6A	Apr-19		<0.00192	<0.00160	<0.000650	<0.00192	<0.00130	<0.00199	<0.00186	<0.00190	<0.00180	<0.00194	<0.0196
	MW-6A	Jun-20		<0.000735	<0.000745	<0.000665	<0.000790	<0.000500	<0.000940	<0.00161	<0.000630	<0.000409	<0.000520	<0.00595
	MW-6A	Apr-21		<0.000735	<0.000745	<0.000665	<0.000790	<0.000500	<0.000940	<0.00161	<0.000630	<0.000409	<0.000520	<0.00595
	MW-6B	Apr-15		<0.000380	<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370		<0.000360	<0.000390	<0.00390
	MW-6B	Apr-17		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-6B	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-6B	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-7A	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-7A	Apr-19	FD	<0.000385	<0.000319 J4	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-7A	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398 J3	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-7A	Oct-19	FD	<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398 J3	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-7A	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-7A	Jun-20	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-7A	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-7A	Oct-20	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-7A	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-7A	Apr-21	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-7A	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-7A	Sep-21	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-7B	Apr-15		<0.000380	<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370		<0.000360	<0.000390	<0.00390
	MW-7B	Apr-17		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-7B	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-7B	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-10	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-10	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-10	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104 J4	<0.00119
	MW-10	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-10	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-10	Sep-21												
	MW-11A	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-11A	Oct-19												
	MW-11A	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104 J4	<0.00119
	MW-11A	Oct-20												
	MW-11A	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-11A	Sep-21												

Appendix B, Table B.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2021 Annual Groundwater Monitoring Report
HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Volatile Organic Compounds										
				Analyte:	1,1,1,2-Tetra-chloroethane	1,1,1-Tri-chloroethane	1,1,2,2-Tetra-chloroethane	1,1,2-Tri-chloroethane	1,1-Di-chloroethane	1,1-Di-chloroethene	1,2,4-Trimethyl-benzene	1,2-Dibromoethane (Ethylene dibromide)	1,2-Di-chloroethane	1,3,5-Trimethyl-benzene	2-Butanone (MEK)
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL:	---	0.200	0.01	0.00500	0.0250	0.00700	0.0560	0.0000500	0.00500	0.0600	5.56
				CGWSL Source:	---	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	USEPA TW	NMED TW
Area	Well ID	Date	Dup												
Evaporation Ponds	MW-11B	Apr-15		<0.000380	<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370		<0.000360	<0.000390	<0.00390
	MW-11B	Apr-17		<0.000385	<0.000319	<0.000130	<0.000383 J4	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-11B	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-11B	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-15	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-15	Apr-19		<0.000385	<0.000319 J4	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-15	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104 J4	<0.00119
	MW-15	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-18A	Apr-19		<0.000385	<0.000319 J4	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-18A	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398 J3	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-18A	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-18A	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-18A	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-18A	Sep-21												
	MW-18B	Apr-15		<0.000380	<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370		<0.000360	<0.000390	<0.00390
	MW-18B	Apr-17		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-18B	Apr-19		<0.000385	<0.000319 J4	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-18B	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-22A	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-22A	Apr-19	FD	<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-22A	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-22A	Oct-19	FD	<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-22A	Jun-20		<0.000147	<0.000149	0.000145 J	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-22A	Jun-20	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.000411 J	<0.000126	<0.0000819	<0.000104 J4	<0.00119
	MW-22A	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-22A	Oct-20	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-22A	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-22A	Apr-21	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-22A	Sep-21												
	MW-22A	Sep-21	FD											
	MW-22B	Apr-15		<0.000380	<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370		<0.000360	<0.000390	<0.00390
	MW-22B	Apr-17		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-22B	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-22B	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-70	Apr-19		<0.000385	<0.000319 J4	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-70	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398 J3	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-70	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-70	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-70	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-70	Sep-21												
	MW-72	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-72	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-72	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-72	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-73	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000735 J	<0.000381	<0.000361	<0.000387	<0.00393
	MW-73	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-73	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.000589 J	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-73	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.000447 J	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-74	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000588 J	<0.000381	<0.000361	<0.000387	<0.00393
	MW-74	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.00119	<0.000381	<0.000361	<0.000387	<0.00393
	MW-74	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.000772 J	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-74	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.00157	<0.000126	<0.0000819	0.000124 J	<0.00119
	MW-74	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.000857 J	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-74	Sep-21												
	MW-75	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-75	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	0.000795 J	<0.00393
	MW-75	Jun-20		<0.00368	<0.00373	<0.00333	<0.00395	<0.00250	<0.00470	<0.00805	<0.00315	<0.00205	<0.00260	<0.0298
	MW-75	Oct-20		<0.00368	<0.00373	<0.00333	<0.00395	<0.00250	<0.00470	<0.00805	<0.00315	<0.00205	<0.00260	<0.0298
	MW-75	Apr-21		<0.00368	<0.00373	<0.00333	<0.00395	<0.00250	<0.00470	<0.00805	<0.00315	<0.00205	<0.00260	<0.0298
	MW-75	Sep-21												
	MW-76	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	0.000418 J	<0.00393
	MW-76	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000510 J	<0.000381	<0.000361	0.000584 J	<0.00393
	MW-76	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104 J4	<0.00119
	MW-76	Oct-20		<0.000147	<0.000149 J4	<0.000133	<0.000158	<0.000100	<0.000188	0.000376 J	<0.000126	<0.0000819	0.000320 J	<0.00119
	MW-76	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-76	Sep-21												
	MW-77	Apr-18		<0.00385	<0.00319	<0.00130	<0.00383	<0.00259	<0.00398	<0.00373	<0.00381	<0.00361	<0.00387	<0.0393
	MW-77	Apr-19		<0.00385	<0.00319	<0.00130	<0.00383	<0.00259	<0.00398	<0.00373	<0.00381	<0.00361	<0.00387	<0.0393
	MW-77	Jun-20		<0.00368	<0.00373	<0.00333	<0.00395	<0.00250	<0.00470	<0.00805	<0.00315	<0.00205	<0.00260	<0.0298
	MW-77	Apr-21		<0.00368	<0.00373	<0.00333	<0.00395	<0.00250	<0.00470	<0.00805	<0.00315	<0.00205	<0.00260	<0.0298
	MW-78	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-78	Apr-19		<0.00385	<0.00319	<0.00130	<0.00383	<0.00259	<0.00398	<0.00373	<0.00381	<0.00361	<0.00387	<0.0393
	MW-78	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104 J4	<0.00119
	MW-78	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	0.00270 J
	MW-79	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-79	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-79	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-79	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-79	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-79	Sep-21												
	MW-80	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-80	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-80	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-80	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-81	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-81	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-81	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-81	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-82	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-82	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-82	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104 J4	<0.00119
	MW-82	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-83	Apr-19		<0.00192	<0.00160	<0.000650	<0.00192	<0.00130	<0.00199	<0.00186	<0.00190	<0.00180	<0.00194	<0.0196
	MW-83	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	0.00490 J
	MW-83	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104 J4	<0.00119
	MW-83	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-83	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-83	Sep-21												
	MW-84	Apr-19		<0.00192	<0.00160	<0.000650	<0.00192	<0.00130	<0.00199	<0.00186	<0.00190	<0.00180	<0.00194	<0.0196
	MW-84	Oct-19		<0.00193	<0.00159	<0.000650	<0.00192	<0.00130	<0.00199	<0.00187	<0.00191	<0.00181	<0.00194	<0.0197
	MW-84	Jun-20		<0.000735	<0.000745	<0.000665	<0.000790	<0.000500	<0.000940	<0.00161	<0.000630	<0.000409	<0.000520	<0.00595
	MW-84	Oct-20		<0.00147	<0.00149	<0.00133	<0.00158	<0.00100	<0.00188	<0.00322	<0.00126	<0.000819	<0.00104	<0.0119
	MW-84	Apr-21		<0.00147	<0.00149	<0.00133	<0.00158	<0.00100	<0.00188	<0.00322	<0.00126	<0.000819	<0.00104	<0.0119
	MW-84	Sep-21												

Appendix B, Table B.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2021 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

Analyte Group:				Volatile Organic Compounds											
			Analyte:	1,1,1,2-Tetra-chloroethane	1,1,1-Tri-chloroethane	1,1,2,2-Tetra-chloroethane	1,1,2-Tri-chloroethane	1,1-Di-chloroethane	1,1-Di-chloroethene	1,2,4-Trimethyl-benzene	1,2-Dibromoethane (Ethylene dibromide)	1,2-Di-chloroethane	1,3,5-Trimethyl-benzene	2-Butanone (MEK)
			Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
			CGWSL:	---	0.200	0.01	0.00500	0.0250	0.00700	0.0560	0.0000500	0.00500	0.0600	5.56
			CGWSL Source:	---	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	USEPA TW	NMED TW
Area	Well ID	Date	Dup											
Evaporation Ponds	MW-86	Jun-20		<0.00294	<0.00298	<0.00266	<0.00316	<0.00200	<0.00376	0.0200	<0.00252	<0.00164	0.00605 J	<0.0238
	MW-86	Oct-20		<0.00294	<0.00298	<0.00266	<0.00316	<0.00200	<0.00376	0.0223	<0.00252	<0.00164	0.00604 J	<0.0238
	MW-87	Apr-19		<0.000385	<0.000319 J4	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-87	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-87	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-87	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-87	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-87	Sep-21												
	MW-88	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-88	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-88	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-88	Oct-20		<0.000147	<0.000149 J4	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-88	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-88	Sep-21												
	MW-120	Apr-19		<0.00192	<0.00160	<0.000650	<0.00192	<0.00130	<0.00199	<0.00186	<0.00190	<0.00180	<0.00194	<0.0196
	MW-120	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-120	Jun-20		<0.000735	<0.000745	<0.000665	<0.000790	<0.000500	<0.000940	<0.00161	<0.000630	<0.000409	<0.000520	<0.00595
	MW-120	Oct-20		<0.000735	<0.000745	<0.000665	<0.000790	<0.000500	<0.000940	<0.00161	<0.000630	<0.000409	<0.000520	<0.00595
	MW-120	Apr-21		<0.000735	<0.000745	<0.000665	<0.000790	<0.000500	<0.000940	<0.00161	<0.000630	<0.000409	<0.000520	<0.00595
	MW-120	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-121	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-121	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-121	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-121	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-121	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-121	Sep-21												
	MW-122	Apr-19		<0.00192	<0.00160	<0.000650	<0.00192	<0.00130	<0.00199	<0.00186	<0.00190	<0.00180	<0.00194	<0.0196
	MW-122	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-122	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-122	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-122	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-122	Sep-21												
	MW-123	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-123	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-123	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104 J4	<0.00119
	MW-123	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-123	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-123	Sep-21												
	MW-124	Apr-19		<0.000385	<0.000319 J4	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-124	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398 J3	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-124	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-124	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-124	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-124	Sep-21												
	OCD-1R	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	OCD-1R	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	OCD-1R	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104 J4	<0.00119
	OCD-1R	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	OCD-1R	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	OCD-1R	Sep-21												
	OCD-2A	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	OCD-2A	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	OCD-2A	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104 J4	<0.00119
	OCD-2A	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	OCD-2A	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	OCD-2A	Sep-21												
	OCD-3	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	OCD-3	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	OCD-3	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104 J4	<0.00119
	OCD-3	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	OCD-3	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	OCD-3	Sep-21												
	OCD-4	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	OCD-4	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	OCD-4	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104 J4	<0.00119
	OCD-4	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	OCD-4	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	OCD-4	Sep-21												
	OCD-5	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	OCD-5	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	OCD-5	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104 J4	<0.00119
	OCD-5	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	OCD-5	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	OCD-5	Sep-21												
	OCD-6	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	OCD-6	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	OCD-6	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	OCD-6	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	OCD-6	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	OCD-6	Sep-21												
	OCD-7AR	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000498 J	<0.000381	<0.000361	<0.000387	<0.00393
	OCD-7AR	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000670 J	<0.000381	<0.000361	<0.000387	<0.00393
	OCD-7AR	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.000452 J	<0.000126	<0.0000819	<0.000104	<0.00119
	OCD-7AR	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.000917 J	<0.000126	<0.0000819	<0.000104	<0.00119
	OCD-7AR	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.000378 J	<0.000126	<0.0000819	<0.000104	<0.00119
	OCD-7AR	Sep-21												
	OCD-7B	Apr-15		<0.000380	<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370		<0.000360	<0.000390	<0.00390
	OCD-7B	Apr-17		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	OCD-7B	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	OCD-7B	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	OCD-8A	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000406 J	<0.000381	<0.000361	<0.000387	<0.00393
	OCD-8A	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398 J3	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	OCD-8A	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.000366 J	<0.000126	<0.0000819	<0.000104	<0.00119
	OCD-8A	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.000474 J	<0.000126	<0.0000819	<0.000104	<0.00119
	OCD-8A	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.000418 J	<0.000126	<0.0000819	<0.000104	<0.00119
	OCD-8A	Sep-21												
	OCD-8B	Apr-15		<0.000380	<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370		<0.000360	<0.000390	<0.00390
	OCD-8B	Apr-17		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	OCD-8B	Apr-19		<0.000385	<0.000319 J4	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	OCD-8B	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
Field East of Refinery	KWB-1A	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	KWB-1A	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	KWB-1A	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	KWB-1A	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	KWB-1C	Apr-15		<0.000380	<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370		<0.000360	<0.000390	<0.00390
	KWB-1C	Apr-17		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	KWB-1C	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	KWB-1C	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119

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Appendix B, Table B.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2021 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

Analyte Group:				Volatile Organic Compounds											
			Analyte:	1,1,1,2-Tetra-chloroethane	1,1,1-Tri-chloroethane	1,1,2,2-Tetra-chloroethane	1,1,2-Tri-chloroethane	1,1-Di-chloroethane	1,1-Di-chloroethene	1,2,4-Trimethyl-benzene	1,2-Dibromoethane (Ethylene dibromide)	1,2-Di-chloroethane	1,3,5-Trimethyl-benzene	2-Butanone (MEK)
			Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
			CGWSL:	---	0.200	0.01	0.00500	0.0250	0.00700	0.0560	0.0000500	0.00500	0.0600	5.56
			CGWSL Source:	---	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	USEPA TW	NMED TW
Area	Well ID	Date	Dup											
Field East of Refinery	KWB-7	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	**0.0876**	<0.000126	<0.0000819	<0.000104	0.160
	KWB-7	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.00287	<0.000126	<0.0000819	<0.000104	<0.00119
	KWB-7	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	**0.212**	<0.000126	<0.0000819	0.00556	<0.00119
	KWB-7	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	**0.200**	<0.000126	<0.0000819	0.000709 J	<0.00119
	KWB-8	Oct-16		<0.0770	<0.0638	<0.0260	<0.0766	<0.0518	<0.0796	**0.170 J**	<0.0762	<0.0722	<0.0774	<0.786
	KWB-8	Apr-17		<0.0385	<0.0319	<0.0130	<0.0383	<0.0259	<0.0398	**0.380**	<0.0381	<0.0361	**0.0863 J**	<0.393
	KWB-8	Oct-17		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	**0.114**	<0.000381	<0.000361	0.0225	0.0885 V3
	KWB-8	Oct-20		<0.0294	<0.0298	<0.0266	<0.0316	<0.0200	<0.0376	**0.833**	<0.0252	<0.0164	**0.191 J**	<0.238
	KWB-10R	Apr-17		<0.0192	<0.0160	<0.00650	<0.0192	<0.0130	<0.0199	**0.360**	<0.0190	<0.0180	**0.0907**	<0.196
	KWB-10R	Oct-17		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	**0.302**	<0.000381	<0.000361	**0.0759**	<0.00393
	KWB-10R	Apr-18		<0.0962	<0.0798	<0.0325	<0.0958	<0.0648	<0.0995	**0.214 J**	<0.0952	<0.0902	<0.0968	<0.982
	KWB-10R	Oct-18		<0.0962	<0.0798	<0.0325	<0.0958	<0.0648	<0.0995	**0.215 J**	<0.0952	<0.0902	<0.0968	<0.982
	KWB-11A	Apr-19		<0.000385 J4	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000467 J	<0.000381 J4	<0.000361	<0.000387	<0.00393
	KWB-11A	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.0486	<0.000126	<0.0000819	<0.000104	<0.00119
	KWB-11A	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.00151	<0.000126	<0.0000819	<0.000104	<0.00119
	KWB-11A	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.0190	<0.000126	<0.0000819	0.000835 J	<0.00119
	KWB-11B	Apr-19		<0.000385 J4	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381 J4	<0.000361	<0.000387	<0.00393
	KWB-11B	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	KWB-11B	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	0.000210 J	<0.000104	<0.00119
	KWB-11B	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	KWB-11B	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	KWB-11B	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	KWB-12A	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	KWB-12A	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	KWB-12A	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	KWB-12A	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.000476 J	<0.000126	<0.0000819	<0.000104	<0.00119
	KWB-12B	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	KWB-12B	Apr-19	FD	<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	KWB-12B	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	KWB-12B	Oct-19	FD	<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000508 J	<0.000381	<0.000361	<0.000387	<0.00393
	KWB-12B	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	KWB-12B	Jun-20	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	KWB-12B	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	KWB-12B	Oct-20	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	KWB-12B	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	KWB-12B	Apr-21	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	KWB-12B	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	KWB-12B	Sep-21	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	KWB-P4	Apr-15		<0.000380	<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370		<0.000360	<0.000390	<0.00390
	KWB-P4	Apr-17		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	KWB-P4	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	KWB-P4	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-57	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-57	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-57	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-57	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-57	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-57	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-58	Oct-17		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	**0.166**	<0.000381	<0.000361	0.00130	<0.00393
	MW-58	Apr-18		<0.0192	<0.0160	<0.00650	<0.0192	<0.0130	<0.0199	**0.574**	<0.0190	<0.0180	<0.0194	<0.196
	MW-58	Oct-18		<0.0192	<0.0160	<0.00650	<0.0192	<0.0130	<0.0199	0.0235 J	<0.0190	<0.0180	<0.0194	<0.196 J3J4
	MW-58	Oct-19		<0.00385	<0.00319	<0.00130	<0.00383 J4	<0.00259	<0.00398	**0.272**	<0.00381 J4	<0.00361	0.0123	<0.0393
	MW-111	Oct-18		<0.00962	<0.00798	<0.00325	<0.00958	<0.00648	<0.00995	<0.00932	<0.00952	<0.00902	<0.00968	<0.0982
	MW-111	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.00243	<0.000381	0.000871 J	<0.000387	<0.00393
	MW-111	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.00437	<0.000381	<0.000361	0.000852 J	<0.00393
	MW-111	Jun-20		<0.00368	<0.00373	<0.00333	<0.00395	<0.00250	<0.00470	0.0135 J	<0.00315	<0.00205	0.00436 J	<0.0298
	MW-112	Nov-14		<0.00960	<0.00800	<0.00320	<0.00960	<0.00650	<0.0100	**0.350**		<0.00900	**0.0900**	<0.0980
	MW-113	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383 J4	<0.000259	<0.000398	0.00468	<0.000381	<0.000361	<0.000387	<0.00393
	MW-113	Apr-19	FD	<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.00523	<0.000381	<0.000361	0.00355	<0.00393
	MW-113	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	**0.223**	<0.000381	<0.000361	<0.000387	<0.00393
	MW-113	Oct-19	FD	<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	**0.240**	<0.000381	<0.000361	0.00170	<0.00393
	MW-113	Jun-20		<0.000735	<0.000745	<0.000665	<0.000790	<0.000500	<0.000940	0.0357	<0.000630	<0.000409	<0.000520	<0.00595
	MW-113	Jun-20	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.0278	<0.000126	0.000410 J	0.000589 J	<0.00119
	MW-113	Oct-20		<0.000735	<0.000745	<0.000665	<0.000790	<0.000500	<0.000940	**0.102**	<0.000630	<0.000409	0.00118 J	<0.00595
	MW-113	Oct-20	FD	<0.000147	0.000154 J	<0.000133	<0.000158	<0.000100	<0.000188	**0.114**	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-113	Apr-21		<0.000735	<0.000745	<0.000665	<0.000790	<0.000500	<0.000940	0.0410	<0.000630	<0.000409	0.00273 J	<0.00595
	MW-113	Apr-21	FD	<0.000147 J4	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.0519	<0.000126	<0.0000819	0.00345	<0.00119
	MW-113	Sep-21		<0.00735	<0.00745	<0.00665	<0.00790	<0.00500	<0.00940	**0.564**	<0.00630	<0.00409	<0.00520	<0.0595
	MW-113	Sep-21	FD	<0.00368	<0.00373	<0.00333	<0.00395	<0.00250	<0.00470	**0.627**	<0.00315	<0.00205	0.00833 J	<0.0298
	MW-125	Apr-19		<0.000385 J4	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381 J4	<0.000361	<0.000387	<0.00393
	MW-125	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383 J4	<0.000259	<0.000398	<0.000373	<0.000381 J4	<0.000361	<0.000387	<0.00393
	MW-125	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-125	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-125	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-125	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-126A	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-126A	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	0.00162	<0.00393
	MW-126A	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-126A	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-126B	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-126B	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-126B	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-126B	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-126B	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	0.000123 J	<0.000104	<0.00119
	MW-126B	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-127	Oct-17		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.0327	<0.000381	<0.000361	0.00452	<0.00393
	MW-127	Apr-18		<0.00770	<0.00638	<0.00260	<0.00766	<0.00518	<0.00796	0.0375	<0.00762	<0.00722	<0.00774	<0.0786
	MW-127	Oct-18		<0.00770	<0.00638	<0.00260	<0.00766	<0.00518	<0.00796	0.0272	<0.00762	<0.00722	<0.00774	<0.0786
	MW-127	Apr-19		<0.00770	<0.00638	<0.00260	<0.00766	<0.00518	<0.00796	0.0399	<0.00762	<0.00722	<0.00774	<0.0786
	MW-128	Oct-17		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.00233	<0.000381	<0.000361	<0.000387	<0.00393
	MW-128	Apr-18		<0.00770	<0.00638	<0.00260	<0.00766	<0.00518	<0.00796	<0.00746	<0.00762	<0.00722	<0.00774	<0.0786
	MW-128	Oct-18		<0.00770	<0.00638	<0.00260	<0.00766	<0.00518	<0.00796	<0.00746	<0.00762	<0.00722	<0.00774	<0.0786
	MW-128	Apr-19		<0.00770	<0.00638	<0.00260	<0.00766 J4	<0.00518	<0.00796	<0.00746	<0.00762	<0.00722	<0.00774	<0.0786
	MW-129	Apr-16		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.00382	<0.000381	<0.000361	0.000880 J	<0.00393 J4
	MW-129	Oct-16		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.00143	<0.000381	<0.000361	0.000479 J	<0.00393
	MW-129	Apr-17		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.00101	<0.000381	<0.000361	<0.000387	<0.00393
	MW-129	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000452 J	<0.000381	<0.000361	<0.000387	<0.00393

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Appendix B, Table B.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2021 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Volatile Organic Compounds										
				Analyte:	1,1,1,2-Tetra-chloroethane	1,1,1-Tri-chloroethane	1,1,2,2-Tetra-chloroethane	1,1,2-Tri-chloroethane	1,1-Di-chloroethane	1,1-Di-chloroethene	1,2,4-Trimethyl-benzene	1,2-Dibromoethane (Ethylene dibromide)	1,2-Di-chloroethane	1,3,5-Trimethyl-benzene	2-Butanone (MEK)
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL:	---	0.200	0.01	0.00500	0.0250	0.00700	0.0560	0.0000500	0.00500	0.0600	5.56
				CGWSL Source:	---	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	USEPA TW	NMED TW
Area	Well ID	Date	Dup												
Field East of Refinery	MW-130	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-130	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-130	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-130	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-130	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-130	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-131	Apr-17		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.0137	<0.000381	<0.000361	0.00348	<0.00393
	MW-131	Oct-17		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.0932	<0.000381	<0.000361	0.00174	<0.00393
	MW-131	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	**0.167**	<0.000381	<0.000361	0.0432	<0.00393
	MW-131	Jun-20		<0.00735	<0.00745	<0.00665	<0.00790	<0.00500	<0.00940	**0.110**	<0.00630	<0.00409	0.0408 J	<0.0595
	MW-133	Nov-14		<0.0380	<0.0320	<0.0130	<0.0380	<0.0260	<0.0400	**0.280**		<0.0360	0.0530 J	<0.390
	MW-133	Apr-15		<0.0380	<0.0319	<0.0130	<0.0380	<0.0260	<0.0400	**0.138**		<0.0360	<0.0390	<0.390
	MW-134	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000846 J	<0.000381	<0.000361	<0.000387	<0.00393
	MW-134	Apr-19	FD	<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000471 J	<0.000381	<0.000361	<0.000387	<0.00393
	MW-134	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000835 J	<0.000381	<0.000361	<0.000387	<0.00393
	MW-134	Oct-19	FD	<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-134	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-134	Jun-20	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-134	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-134	Oct-20	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-134	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-134	Apr-21	FD	<0.000147 J4	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-134	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-134	Sep-21	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-135	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-135	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-135	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-135	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-135	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-135	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-145	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-145	Oct-20	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-145	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-145	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-146	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-146	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158 J4	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-146	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-146	Sep-21	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-147	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-147	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-147	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-148	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-148	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158 J4	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-148	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	RA-4196	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	RA-4196	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	RA-4196	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	RA-4196	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	0.000876 J	<0.000104	<0.00119
	RA-4798	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	RA-4798	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	0.00111	<0.000387	<0.00393
	RA-4798	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	0.00228	<0.000104	<0.00119
	RA-4798	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	0.000877 J	<0.000104	<0.00119
	RA-4798	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	0.00128	<0.000104	<0.00119
	RA-4798	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	0.00209	<0.000104	<0.00119
	RW-12R	Apr-17		<0.00192	<0.00160	<0.000650	<0.00192	<0.00130	<0.00199	0.0338	<0.00190	<0.00180	<0.00194	<0.0196
	RW-12R	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.00448	<0.000381	<0.000361	<0.000387	<0.00393
	RW-12R	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383 J4	<0.000259	<0.000398	0.0102	<0.000381	<0.000361	<0.000387	<0.00393
	RW-12R	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.00494	<0.000126	<0.0000819	<0.000104	<0.00119
	RW-13R	Apr-16		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.0443	<0.000381	0.000758 J	0.00539	<0.00393
	RW-13R	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.0443	<0.000381	0.000655 J	0.000443 J	<0.00393
	RW-18A	Apr-17		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	RW-18A	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	RW-18A	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	RW-18A	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	RW-20	Apr-15		<0.00380	<0.00319	<0.00130	<0.00380	<0.00260	<0.00400	**0.539**		<0.00360	**0.113**	<0.0390
	RW-22	Apr-15		<0.00380	<0.00319	<0.00130	<0.00380	<0.00260	<0.00400	**0.575**		<0.00360	**0.0853**	<0.0390
NCL	MW-18	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-18	Apr-19		<0.000385	<0.000319 J4	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-18	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-18	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-45	Apr-19		<0.000385	<0.000319 J4	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-45	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381 J4	<0.000361	<0.000387	<0.00393
	MW-45	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-45	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119 J3
	MW-45	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-45	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-53	Apr-16		<0.000385	<0.000319	<0.000130 J4	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-53	Apr-17		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-53	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-53	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-53R	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-53R	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-54A	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-54A	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381 J4	<0.000361	<0.000387	<0.00393
	MW-54A	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-54A	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-54A	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-54A	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-54B	Apr-15		<0.000380	<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370		<0.000360	<0.000390	<0.00390
	MW-54B	Apr-17		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-54B	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-54B	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-55	Apr-19		<0.000385	<0.000319 J4	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-55	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381 J4	<0.000361	<0.000387	<0.00393
	MW-55	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-55	Oct-20		<0.00147	<0.00149	<0.00133	<0.00158	<0.00100	<0.00188	<0.00322	<0.00126	<0.000819	<0.00104	<0.0119
	MW-55	Apr-21		<0.00147	<0.00149	<0.00133	<0.00158	<0.00100	<0.00188	<0.00322	<0.00126	<0.000819	<0.00104	<0.0119
	MW-55	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-56	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-56	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-56	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-56	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-108	Apr-19		<0.00192	<0.00160	<0.000650	<0.00192	<0.00130	<0.00199	0.0435	<0.00190	<0.00180	<0.00194	<0.0196
	MW-108	Oct-19		<0.00193	<0.00159	<0.000650	<0.00192	<0.00130	<0.00199	0.0279	<0.00191	<0.00181	0.00359 J	<0.0197
	MW-108	Jun-20		<0.000735	<0.000745	<0.000665	<0.000790	<0.000500	<0.000940	0.0128	<0.000630	<0.000409	0.00213 J	<0.00595
	MW-108	Oct-20		<0.000735	<0.000745	<0.000665	<0.000790	<0.000500	<0.000940	0.00527	<0.000630	<0.000409	0.000782 J	<0.00595
	MW-108	Apr-21		<0.000735	<0.000745	<0.000665	<0.000790	<0.000500	<0.000940	0.00750	<0.000630	<0.000409	0.000774 J	<0.00595
	MW-108	Sep-21		<0.00147	<0.00149	<0.00133	<0.00158	<0.00100	<0.00188	0.00684 J	<0.00126	<0.000819	<0.00104	<0.0119

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Appendix B, Table B.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2021 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

Analyte Group:				Volatile Organic Compounds											
			Analyte:	1,1,1,2-Tetra-chloroethane	1,1,1-Tri-chloroethane	1,1,2,2-Tetra-chloroethane	1,1,2-Tri-chloroethane	1,1-Di-chloroethane	1,1-Di-chloroethene	1,2,4-Trimethyl-benzene	1,2-Dibromoethane (Ethylene dibromide)	1,2-Di-chloroethane	1,3,5-Trimethyl-benzene	2-Butanone (MEK)
			Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
			CGWSL:	---	0.200	0.01	0.00500	0.0250	0.00700	0.0560	0.0000500	0.00500	0.0600	5.56
			CGWSL Source:	---	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	USEPA TW	NMED TW
Area	Well ID	Date	Dup											
NCL	NCL-31	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000429 J	<0.000381	<0.000361	<0.000387	<0.00393
	NCL-31	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000439 J	<0.000381	<0.000361	<0.000387	<0.00393
	NCL-31	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.000542 J	<0.000126	<0.0000819	0.000195 J	<0.00119
	NCL-31	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.000771 J	<0.000126	<0.0000819	0.000160 J	<0.00119
	NCL-31	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.00249	<0.000126	<0.0000819	0.000458 J	<0.00119
	NCL-31	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.000439 J	<0.000126	<0.0000819	<0.000104	<0.00119
	NCL-32	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	NCL-32	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381 J4	<0.000361	<0.000387	<0.00393
	NCL-32	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	NCL-32	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	NCL-32	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	NCL-32	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	NCL-33	Apr-19		<0.000385	<0.000319 J4	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	NCL-33	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381 J4	<0.000361	<0.000387	<0.00393
	NCL-33	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	NCL-33	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	NCL-33	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	NCL-33	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	NCL-34A	Oct-18		<0.00385	<0.00319	<0.00130	<0.00383	<0.00259	<0.00398	0.00612 J	<0.00381	<0.00361	<0.00387	<0.0393
	NCL-34A	Apr-19		<0.00770	<0.00638	<0.00260	<0.00766	<0.00518	<0.00796	<0.00746	<0.00762	<0.00722	<0.00774	<0.0786
	NCL-34A	Oct-19		<0.00193	<0.00159	<0.000650 J4	<0.00192	<0.00130	<0.00199	0.00369 J	<0.00191	<0.00181	0.00207 J	<0.0197
	NCL-34A	Jun-20		<0.00294	<0.00298	<0.00266	<0.00316	<0.00200	<0.00376	0.0113 J	<0.00252	<0.00164	0.00286 J	<0.0238
	NCL-44	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	NCL-44	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381 J4	<0.000361	<0.000387	<0.00393
	NCL-44	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	NCL-44	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	NCL-44	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	NCL-44	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	NCL-49	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	NCL-49	Apr-19	FD	<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	NCL-49	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381 J4	<0.000361	<0.000387	<0.00393
	NCL-49	Oct-19	FD	<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381 J4	<0.000361	<0.000387	<0.00393
	NCL-49	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	NCL-49	Jun-20	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	NCL-49	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	NCL-49	Oct-20	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	NCL-49	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	NCL-49	Apr-21	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	NCL-49	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	NCL-49	Sep-21	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
North Refinery	MW-23	Apr-19		<0.0385	<0.0319	<0.0130	<0.0383	<0.0259	<0.0398	<0.0373	<0.0381	<0.0361	<0.0387	<0.393
	MW-23	Oct-19		<0.00385	<0.00319	<0.00130	<0.00383	<0.00259	<0.00398	<0.00373	<0.00381	<0.00361	<0.00387	<0.0393
	MW-23	Jun-20		<0.00147	<0.00149	<0.00133	<0.00158	<0.00100	<0.00188	<0.00322	<0.00126	<0.000819	<0.00104	<0.0119
	MW-23	Oct-20		<0.00147	<0.00149	<0.00133	<0.00158	<0.00100	<0.00188	<0.00322	<0.00126	<0.000819	<0.00104	<0.0119
	MW-29	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-29	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383 J4	<0.000259	<0.000398	<0.000373	<0.000381 J4	<0.000361	<0.000387	<0.00393
	MW-29	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-29	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-29	Apr-21		<0.000147 J4	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-29	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	0.000151 J	<0.000104	<0.00119
	MW-39	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.0144	<0.000381	<0.000361	0.00508	<0.00393
	MW-39	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383 J4	<0.000259	<0.000398	0.00573	<0.000381 J4	<0.000361	0.00237	<0.00393
	MW-39	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.00959	<0.000126	<0.0000819	0.00206	<0.00119
	MW-39	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.00377	<0.000126	<0.0000819	0.00119	<0.00119
	MW-40	Apr-17		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000538 J	<0.000381	<0.000361	<0.000387	<0.00393
	MW-40	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-40	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-40	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-41	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-41	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-41	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-41	Apr-21		<0.000147 J4	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-42	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.00362	<0.000381	<0.000361	<0.000387	<0.00393
	MW-42	Apr-19		<0.00192	<0.00160	<0.000650	<0.00192	<0.00130	<0.00199	0.0148	<0.00190	<0.00180	<0.00194	<0.0196
	MW-42	Jun-20		<0.000735	<0.000745	<0.000665	<0.000790	<0.000500	<0.000940	0.0163	<0.000630	<0.000409	<0.000520	<0.00595
	MW-42	Apr-21		<0.000735 J4	<0.000745	<0.000665	<0.000790	<0.000500	<0.000940	0.00322 J	<0.000630	<0.000409	<0.000520	<0.00595
	MW-43	Apr-19		<0.0770	<0.0638	<0.0260	<0.0766	<0.0518	<0.0796	**0.450**	<0.0762	<0.0722	**0.0997 J**	<0.786
	MW-43	Oct-19		<0.0770	<0.0638	<0.0260	<0.0766	<0.0518	<0.0796	**0.423**	<0.0762	<0.0722	**0.128 J**	<0.786
	MW-43	Jun-20		<0.00294	<0.00298	<0.00266	<0.00316	<0.00200	<0.00376	**0.284**	<0.00252	<0.00164	0.00304 J	<0.0238
	MW-43	Oct-20		<0.00735	<0.00745	<0.00665	<0.00790	<0.00500	<0.00940	**0.302**	<0.00630	<0.00409	<0.00520	<0.0595
	MW-59	Apr-17		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-59	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-59	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383 J4	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-59	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-60	Apr-19		<0.000385 J4	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000401 J	<0.000381 J4	<0.000361	<0.000387	<0.00393
	MW-60	Apr-19	FD	<0.000385 J4	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381 J4	<0.000361	<0.000387	<0.00393
	MW-60	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383 J4	<0.000259	<0.000398	<0.000373	<0.000381 J4	<0.000361	<0.000387	<0.00393
	MW-60	Oct-19	FD	<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-60	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-60	Jun-20	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.000401 J	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-60	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-60	Oct-20	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-61	Apr-19		<0.0192	<0.0160	<0.00650	<0.0192 J4	<0.0130	<0.0199	**0.174**	<0.0190	<0.0180	<0.0194	<0.196
	MW-61	Oct-19		<0.0193	<0.0159	<0.00650	<0.0192	<0.0130	<0.0199	**0.237**	<0.0191	<0.0181	<0.0194	<0.197
	MW-61	Jun-20		<0.00735	<0.00745	<0.00665	<0.00790	<0.00500	<0.00940	**0.222**	<0.00630	<0.00409	<0.00520	<0.0595
	MW-61	Oct-20		<0.00735	<0.00745	<0.00665	<0.00790	<0.00500	<0.00940	**0.241**	<0.00630	<0.00409	0.0191 J	<0.0595
	MW-61	Apr-21		<0.00735	<0.00745	<0.00665	<0.00790	<0.00500	<0.00940	**0.224**	<0.00630	<0.00409	0.0237 J	<0.0595
	MW-61	Sep-21		<0.00735	<0.00745	<0.00665	<0.00790	<0.00500	<0.00940	**0.261**	<0.00630	<0.00409	0.0325 J	<0.0595
	MW-62	Apr-19		<0.00770	<0.00638	<0.00260	<0.00766	<0.00518	<0.00796	**0.536**	<0.00762	<0.00722	**0.129**	<0.0786
	MW-62	Oct-19		<0.00770	<0.00638	<0.00260	<0.00766	<0.00518	<0.00796	**0.537**	<0.00762	<0.00722	**0.123**	<0.0786
	MW-62	Jun-20		<0.00294	<0.00298	<0.00266	<0.00316	<0.00200	<0.00376	**0.382**	<0.00252	<0.00164	**0.0782**	<0.0238
	MW-62	Oct-20		<0.00294	<0.00298	<0.00266	<0.00316	<0.00200	<0.00376	**0.347**	<0.00252	<0.00164	**0.0783**	<0.0238
	MW-62	Sep-21		<0.00735	<0.00745	<0.00665	<0.00790	<0.00500	<0.00940	**1.20**	<0.00630	<0.00409	**0.204**	<0.0595
	MW-62R	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	**0.0775**	<0.000126	<0.0000819	0.0117	<0.00119
	MW-62R	Apr-21		<0.00735	<0.00745	<0.00665	<0.00790	<0.00500	<0.00940	0.0469 J	<0.00630	<0.00409	<0.00520	<0.0595
	MW-67	Oct-17		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.00119	<0.000381	<0.000361	<0.000387	<0.00393
	MW-67	Apr-18		<0.00192	<0.00160	<0.000650	<0.00192	<0.00130	<0.00199	0.00206 J	<0.00190	<0.00180	<0.00194	<0.0196
	MW-67	Oct-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000557 J	<0.000381	<0.000361	<0.000387	<0.00393
	MW-67	Apr-19		<0.00192	<0.00160	<0.000650	<0.00192	<0.00130	<0.00199	<0.00186	<0.00190	<0.00180	<0.00194	<0.0196

Appendix B, Table B.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2021 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Volatile Organic Compounds										
				Analyte:	1,1,1,2-Tetra-chloroethane	1,1,1-Tri-chloroethane	1,1,2,2-Tetra-chloroethane	1,1,2-Tri-chloroethane	1,1-Di-chloroethane	1,1-Di-chloroethene	1,2,4-Trimethyl-benzene	1,2-Dibromoethane (Ethylene dibromide)	1,2-Di-chloroethane	1,3,5-Trimethyl-benzene	2-Butanone (MEK)
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL:	---	0.200	0.01	0.00500	0.0250	0.00700	0.0560	0.0000500	0.00500	0.0600	5.56
				CGWSL Source:	---	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	USEPA TW	NMED TW
Area	Well ID	Date	Dup												
North Refinery	MW-90	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-90	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383 J4	<0.000259	<0.000398	<0.000373	<0.000381 J4	<0.000361	<0.000387	<0.00393
	MW-90	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-90	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-90	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-90	Sep-21		<0.00147	<0.00149	<0.00133	<0.00158	<0.00100	<0.00188	<0.00322	<0.00126	<0.000819	<0.00104	<0.0119 J3
	MW-91	Oct-18		<0.0385	<0.0319	<0.0130	<0.0383	<0.0259	<0.0398	**0.182**	<0.0381	<0.0361	0.0510 J	<0.393
	MW-91	Apr-19		<0.0385	<0.0319	<0.0130	<0.0383	<0.0259	<0.0398	**0.216**	<0.0381	<0.0361	0.0571 J	<0.393
	MW-91	Oct-19		<0.0385	<0.0319	<0.0130	<0.0383 J4	<0.0259	<0.0398	**0.239**	<0.0381 J4	<0.0361	**0.0675 J**	<0.393
	MW-91	Jun-20		<0.0147	<0.0149	<0.0133	<0.0158	<0.0100	<0.0188	**0.234**	<0.0126	<0.00819	**0.0671 J**	<0.119
	MW-92	Apr-16		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	**0.0588**	<0.000381	<0.000361	0.0174	<0.00393
	MW-92	Oct-16		<0.00770	<0.00638	<0.00260	<0.00766	<0.00518	<0.00796	0.0308	<0.00762	<0.00722	0.00835 J	<0.0786
	MW-93	Apr-17		<0.00962	<0.00798	<0.00325	<0.00958	<0.00648	<0.00995	**0.148**	<0.00952	<0.00902	0.0236 J	<0.0982
	MW-93	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	**0.116**	<0.000381	<0.000361	0.0260	<0.00393
	MW-93	Apr-19		<0.000385	<0.000319	<0.000130	0.000927 J	<0.000259	<0.000398	**0.187**	<0.000381	<0.000361	0.0356	<0.00393
	MW-93	Jun-20		<0.00294	<0.00298	<0.00266	<0.00316	<0.00200	<0.00376	**0.111**	<0.00252	<0.00164	0.0243	<0.0238
	MW-94	Oct-15		<0.00385	<0.00319	<0.00130	<0.00383	<0.00259	<0.00398	**0.432**		<0.00361	**0.0857**	<0.0393
	MW-94	Apr-16		<0.0192	<0.0160	<0.00650	<0.0192	<0.0130	<0.0199	**0.489**	<0.0190	<0.0180	**0.100**	<0.196 J4
	MW-94	Oct-16		<0.00192	<0.00160	<0.000650	<0.00192	<0.00130	<0.00199	**0.458**	<0.00190	<0.00180	**0.0917**	<0.0196
	MW-94	Apr-17		<0.00962	<0.00798	<0.00325	<0.00958	<0.00648	<0.00995	**0.398**	<0.00952	<0.00902	**0.0785**	<0.0982
	MW-95	Apr-17		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-95	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-95	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-95	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-96	Apr-19		<0.0192	<0.0160	<0.00650	<0.0192	<0.0130	<0.0199	<0.0186	<0.0190	<0.0180	<0.0194	<0.196
	MW-96	Oct-19		<0.0193	<0.0159	<0.00650	<0.0192	<0.0130	<0.0199	<0.0187	<0.0191	<0.0181	<0.0194	<0.197
	MW-96	Jun-20		<0.0368	<0.0373	<0.0333	<0.0395	<0.0250	<0.0470	<0.0805	<0.0315	<0.0205	<0.0260	<0.298
	MW-96	Oct-20		<0.0368	<0.0373	<0.0333	<0.0395	<0.0250	<0.0470	<0.0805	<0.0315	<0.0205	<0.0260	<0.298
	MW-96	Sep-21		<0.00147	<0.00149	<0.00133	<0.00158	<0.00100	<0.00188	0.0116	<0.00126	<0.000819	0.00109 J	<0.0119
	MW-98	Apr-19		<0.0192	<0.0160	<0.00650	<0.0192	<0.0130	<0.0199	**0.618**	<0.0190	<0.0180	**0.138**	<0.196
	MW-98	Oct-19		<0.0193	<0.0159	<0.00650	<0.0192	<0.0130	<0.0199	**0.453**	<0.0191	<0.0181	**0.112**	<0.197
	MW-98	Jun-20		<0.00735	<0.00745	<0.00665	<0.00790	<0.00500	<0.00940	**0.646**	<0.00630	<0.00409	**0.110**	<0.0595
	MW-98	Oct-20		<0.00735	<0.00745	<0.00665	<0.00790	<0.00500	<0.00940	**0.371**	<0.00630	<0.00409	**0.0820**	<0.0595
	MW-98	Apr-21		<0.00735	<0.00745	<0.00665	<0.00790	<0.00500	<0.00940	**0.431**	<0.00630	<0.00409	**0.0924**	<0.0595
	MW-98	Sep-21		<0.00735	<0.00745	<0.00665	<0.00790	<0.00500	<0.00940	**0.392**	<0.00630	<0.00409	**0.0923**	<0.0595
	MW-137	Oct-17		<0.0770	<0.0638	<0.0260	<0.0766	<0.0518	<0.0796	**0.559**	<0.0762	<0.0722	**0.137 J**	<0.786
	MW-137	Apr-18		<0.0770	<0.0638	<0.0260	<0.0766	<0.0518	<0.0796	**0.531**	<0.0762	<0.0722	**0.125 J**	<0.786
	MW-137	Oct-18		<0.0770	<0.0638	<0.0260	<0.0766	<0.0518	<0.0796	**0.342**	<0.0762	<0.0722	<0.0774	<0.786
	MW-137	Apr-19		<0.0770	<0.0638	<0.0260	<0.0766	<0.0518	<0.0796	**0.426**	<0.0762	<0.0722	**0.0946 J**	<0.786
	MW-138	Oct-17		<0.00192	<0.00160	<0.000650	<0.00192	<0.00130	<0.00199	0.00547	<0.00190	<0.00180	<0.00194	<0.0196
	MW-138	Apr-18		<0.00192	<0.00160	<0.000650	<0.00192	<0.00130	<0.00199	0.0413	<0.00190	<0.00180	0.00633	<0.0196
	MW-138	Oct-18		<0.00192	<0.00160	<0.000650	<0.00192	<0.00130	<0.00199	**0.0799**	<0.00190	<0.00180	0.0121	<0.0196
	MW-138	Apr-19		<0.00192	<0.00160	<0.000650	<0.00192	<0.00130	<0.00199	**0.126**	<0.00190	<0.00180	0.0214	<0.0196
	RW-1R	Apr-16		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	0.000763 J	0.00369	<0.000381	<0.000361	0.000516 J	<0.00393
	RW-1	Apr-17		<0.00385	<0.00319	<0.00130	<0.00383	<0.00259	<0.00398	<0.00373	<0.00381	<0.00361	<0.00387	<0.0393
	RW-1	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	0.00110	0.0303	<0.000381	<0.000361	0.00550	<0.00393
	RW-1	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	0.00107	0.0348	<0.000381	<0.000361	0.00566	<0.00393
	RW-2	Apr-15		<0.00380	<0.00319	<0.00130	<0.00380	<0.00260	<0.00400	**0.330**		<0.00360 UJ	**0.0772**	<0.0390 UJ
	RW-2R	Apr-16		<0.0192	<0.0160	<0.00650	<0.0192	<0.0130	<0.0199	**0.188**	<0.0190	<0.0180	0.0419 J	<0.196
	RW-2	Apr-17		<0.0192	<0.0160	<0.00650	<0.0192	<0.0130	<0.0199	**0.271**	<0.0190	<0.0180	**0.0664**	<0.196
	RW-2	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	0.00122	**0.329**	<0.000381	<0.000361	**0.0783**	<0.00393
	RW-7	Apr-17		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	RW-7	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.00502	<0.000381	<0.000361	0.000415 J	<0.00393
	RW-7	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.00114	<0.000381	<0.000361	<0.000387	<0.00393
	RW-7	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.000639 J	<0.000126	<0.0000819	<0.000104	<0.00119
	RW-8	Apr-15		<0.00380	<0.00319	<0.00130	<0.00380	<0.00260	<0.00400	0.00710 J		<0.00360	<0.00390	<0.0390
	RW-8	Apr-17		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	**0.0928**	<0.000381	0.00343	0.0249	<0.00393
	RW-9	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.00314	<0.000381	<0.000361	<0.000387	<0.00393
	RW-9	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	RW-9	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.000722 J	<0.000126	0.000218 J	0.000313 J	<0.00119
	RW-9	Apr-21		<0.000147 J4	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.00294	<0.000126	<0.0000819	0.000584 J	<0.00119
	RW-10	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000631 J	<0.000381	<0.000361	<0.000387	<0.00393
	RW-10	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000377 J	<0.000381	<0.000361	<0.000387	<0.00393
	RW-10	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.000959 J	<0.000126	<0.0000819	0.000180 J	<0.00119
	RW-10	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.00429	<0.000126	<0.0000819	0.000850 J	<0.00119
	RW-16B	Apr-17		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	RW-16B	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	RW-16B	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	RW-16B	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.000398 J	<0.000126	<0.0000819	0.000156 J	0.0142
	RW-17A	Apr-17		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	RW-17A	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	RW-17A	Apr-19		<0.000385 J4	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381 J4	<0.000361	<0.000387	<0.00393
	RW-17A	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
North RO Field	MW-117	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-117	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-117	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-117	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-117	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-117	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-118	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-118	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-118	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-118	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-118	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-118	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-119	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-119	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-119	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-119	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-119	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-119	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
South Refinery	KWB-2R	Apr-17		<0.000385	<0.000319	0.000160 J	<0.000383	<0.000259	<0.000398	0.0341	<0.000381	<0.000361	<0.000387	0.0164
	KWB-2R	Oct-17		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	**0.150**	<0.000381	<0.000361	<0.000387	<0.00393
	KWB-2R	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	**0.148**	<0.000381	<0.000361	0.00172	<0.00393
	KWB-2R	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383 J4	<0.000259	<0.000398	**0.139**	<0.000381 J4	<0.000361	0.00233	<0.00393
	KWB-5	Oct-17		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.0932	<0.000381	<0.000361	<0.000387	<0.00393
	KWB-5	Apr-18		<0.0962	<0.0798	<0.0325	<0.0958	<0.0648	<0.0995	<0.0932	<0.0952	<0.0902	<0.0968	<0.982
	KWB-5	Oct-18		<0.0962	<0.0798	<0.0325	<0.0958	<0.0648	<0.0995	<0.0932	<0.0952	<0.0902	<0.0968	<0.982
	KWB-5	Apr-19		<0.0962	<0.0798	<0.0325	<0.0958	<0.0648	<0.0995	<0.0932	<0.0952	<0.0902	<0.0968	<0.982

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Appendix B, Table B.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2021 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Volatile Organic Compounds										
				Analyte:	1,1,1,2-Tetra-chloroethane	1,1,1-Tri-chloroethane	1,1,2,2-Tetra-chloroethane	1,1,2-Tri-chloroethane	1,1-Di-chloroethane	1,1-Di-chloroethene	1,2,4-Trimethyl-benzene	1,2-Dibromoethane (Ethylene dibromide)	1,2-Di-chloroethane	1,3,5-Trimethyl-benzene	2-Butanone (MEK)
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL:	---	0.200	0.01	0.00500	0.0250	0.00700	0.0560	0.0000500	0.00500	0.0600	5.56
				CGWSL Source:	---	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	USEPA TW	NMED TW
Area	Well ID	Date	Dup												
South Refinery	KWB-6	Apr-17		<0.00192	<0.00160	<0.000650	<0.00192	<0.00130	<0.00199	**0.399**	<0.00190	0.00451 J	0.0517	<0.0196	
	KWB-6	Oct-17		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	**0.206**	<0.000381	<0.000361	0.0302	<0.00393	
	KWB-6	Apr-18		<0.00770	<0.00638	<0.00260	<0.00766	<0.00518	<0.00796	**0.164**	<0.00762	<0.00722	0.0557	<0.0786	
	KWB-6	Oct-18		<0.00770	<0.00638	<0.00260	<0.00766	<0.00518	<0.00796	**0.122**	<0.00762	<0.00722	**0.0611**	<0.0786 J3J4	
	MW-28	Apr-19		<0.0192	<0.0160	<0.00650	<0.0192 J4	<0.0130	<0.0199	**0.107**	<0.0190	<0.0180	<0.0194	<0.196	
	MW-28	Oct-19		<0.0193	<0.0159	<0.00650	<0.0192	<0.0130	<0.0199	**0.213**	<0.0191	<0.0181	0.0243 J	<0.197	
	MW-28	Jun-20		<0.000735	<0.000745	<0.000665	<0.000790	<0.000500	<0.000940	0.0527	<0.000630	<0.000409	<0.000520	<0.00595	
	MW-28	Oct-20		<0.000735	<0.000745	<0.000665	<0.000790	<0.000500	<0.000940	0.0430	<0.000630	<0.000409	0.00133 J	<0.00595	
	MW-48	Apr-18		<0.0962	<0.0798	<0.0325	<0.0958	<0.0648	<0.0995	**0.381**	<0.0952	<0.0902	<0.0968	<0.982	
	MW-48	Oct-18		<0.0962	<0.0798	<0.0325	<0.0958	<0.0648	<0.0995	**0.377**	<0.0952	<0.0902	<0.0968	<0.982 J3J4	
	MW-48	Apr-19		<0.0962	<0.0798	<0.0325	<0.0958	<0.0648	<0.0995	**0.564**	<0.0952	<0.0902	<0.0968	<0.982	
	MW-48	Oct-19		<0.0963	<0.0798	<0.0325	<0.0958	<0.0648	<0.0995	**0.240 J**	<0.0953	<0.0903	<0.0967	<0.983	
	MW-50	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393	
	MW-50	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383 J4	<0.000259	<0.000398	<0.000373	<0.000381 J4	<0.000361	<0.000387	<0.00393	
	MW-50	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119	
	MW-50	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119	
	MW-50	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	0.000114 J	<0.000104	<0.00119	
	MW-50	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.000688 J	<0.000126	<0.0000819	0.000143 J	<0.00119	
	MW-52	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393	
	MW-52	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393	
	MW-52	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119	
	MW-52	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119	
	MW-52	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119	
	MW-52	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119	
	MW-64	Apr-19		<0.00770	<0.00638	<0.00260	<0.00766	<0.00518	<0.00796	**0.592**	<0.00762	<0.00722	**0.117**	<0.0786	
	MW-64	Oct-19		<0.00963	<0.00797	<0.00325	<0.00958 J4	<0.00648	<0.00995	**0.522**	<0.00953 J4	<0.00903	**0.102**	<0.0983	
	MW-64	Jun-20		<0.0735	<0.0745	<0.0665	<0.0790	<0.0500	<0.0940	**0.453 J**	<0.0630	<0.0409	**0.0760 J**	<0.595	
	MW-64	Oct-20		<0.0735	<0.0745	<0.0665	<0.0790	<0.0500	<0.0940	**0.252 J**	<0.0630	<0.0409	<0.0520	<0.595	
	MW-64	Apr-21		<0.0735	<0.0745	<0.0665	<0.0790	<0.0500	<0.0940	**0.436 J**	<0.0630	<0.0409	**0.0967 J**	<0.595	
	MW-64	Sep-21		<0.00735	<0.00745	<0.00665	<0.00790	<0.00500	<0.00940	**0.315**	<0.00630	<0.00409	**0.0602**	<0.0595	
	MW-65	Apr-18		<0.0385	<0.0319	<0.0130	<0.0383	<0.0259	<0.0398	<0.0373	<0.0381	<0.0361	<0.0387	<0.393	
	MW-65	Oct-18		<0.0385	<0.0319	<0.0130	<0.0383	<0.0259	<0.0398	<0.0373	<0.0381	<0.0361	<0.0387	<0.393	
	MW-65	Apr-19		<0.0385	<0.0319	<0.0130	<0.0383	<0.0259	<0.0398	<0.0373	<0.0381	<0.0361	<0.0387	<0.393	
	MW-65	Oct-19		<0.0385	<0.0319	<0.0130	<0.0383 J4	<0.0259	<0.0398	<0.0373	<0.0381 J4	<0.0361	<0.0387	<0.393	
	MW-66	Apr-19		<0.00962	<0.00798	<0.00325	<0.00958 J4	<0.00648	<0.00995	<0.00932	<0.00952	<0.00902	<0.00968	<0.0982	
	MW-66	Oct-19		<0.00963	<0.00797	<0.00325	<0.00958	<0.00648	<0.00995	<0.00933	<0.00953	<0.00903	<0.00968	<0.0983	
	MW-66	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.000705 J	<0.000126	<0.0000819	<0.000104	<0.00119	
	MW-66	Oct-20		<0.00147	<0.00149	<0.00133	<0.00158	<0.00100	<0.00188	<0.00322	<0.00126	<0.000819	<0.00104	<0.0119	
	MW-66	Apr-21		<0.00147	<0.00149	<0.00133	<0.00158	<0.00100	<0.00188	0.00570 J	<0.00126	<0.000819	0.00114 J	<0.0119	
	MW-99	Oct-18		<0.0385	<0.0319	<0.0130	<0.0383	<0.0259	<0.0398	**0.284**	<0.0381	<0.0361	<0.0387	<0.393 J3J4	
	MW-99	Apr-19		<0.0385	<0.0319	<0.0130	<0.0383 J4	<0.0259	<0.0398	**0.352**	<0.0381	<0.0361	<0.0387	<0.393	
	MW-99	Oct-19		<0.0385	<0.0319	<0.0130	<0.0383	<0.0259	<0.0398	**0.234**	<0.0381	<0.0361	<0.0387	<0.393	
	MW-99	Jun-20		<0.00147	<0.00149	<0.00133	<0.00158	<0.00100	<0.00188	**0.149**	<0.00126	<0.000819	<0.00104	<0.0119	
	MW-101	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383 J4	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393	
	MW-101	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393	
	MW-101	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119	
	MW-101	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.0254	<0.000126	<0.0000819	0.00284	<0.00119	
	MW-101	Apr-21		<0.00294	<0.00298	<0.00266	<0.00316	<0.00200	<0.00376	<0.00644	<0.00252	<0.00164	<0.00208	<0.0238	
	MW-101	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.00172	<0.000126	<0.0000819	0.000333 J	<0.00119	
	MW-102	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383 J4	<0.000259	<0.000398	**0.235**	<0.000381	<0.000361	0.0306	<0.00393	
	MW-102	Oct-19		<0.0193	<0.0159	<0.00650	<0.0192	<0.0130	<0.0199	**0.263**	<0.0191	<0.0181	0.0481 J	<0.197	
	MW-102	Jun-20		<0.0147	<0.0149	<0.0133	<0.0158	<0.0100	<0.0188	**0.0927 J**	<0.0126	<0.00819	<0.0104	<0.119	
	MW-102	Oct-20		<0.0147	<0.0149	<0.0133	<0.0158	<0.0100	<0.0188	**0.0910 J**	<0.0126	<0.00819	0.0117 J	<0.119	
	MW-102	Apr-21		<0.0147	<0.0149	<0.0133	<0.0158	<0.0100	<0.0188	**0.114**	<0.0126	<0.00819	<0.0104	<0.119	
	MW-102	Sep-21		<0.00735	<0.00745	<0.00665	<0.00790	<0.00500	<0.00940	**0.131**	<0.00630	<0.00409	0.00901 J	<0.0595	
	MW-102	Sep-21	FD	<0.00735	<0.00745	<0.00665	<0.00790	<0.00500	<0.00940	**0.139**	<0.00630	<0.00409	0.0110 J	<0.0595	
	MW-103	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393	
	MW-103	Apr-19		<0.00770	<0.00638	<0.00260	<0.00766	<0.00518	<0.00796	<0.00746	<0.00762	<0.00722	<0.00774	<0.0786	
	MW-103	Jun-20		<0.00294	<0.00298	<0.00266	<0.00316	<0.00200	<0.00376	<0.00644	<0.00252	<0.00164	<0.00208	<0.0238	
	MW-103	Apr-21		<0.00294	<0.00298	<0.00266	<0.00316	<0.00200	<0.00376	<0.00644	<0.00252	<0.00164	<0.00208	<0.0238	
	MW-104	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393	
	MW-104	Apr-19	FD	<0.000385	<0.000319	<0.000130	**0.00760**	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393	
	MW-104	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383 J4	<0.000259	<0.000398	0.000715 J	<0.000381 J4	<0.000361	<0.000387	<0.00393	
	MW-104	Oct-19	FD	<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000374 J	<0.000381	<0.000361	<0.000387	<0.00393	
	MW-104	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.000486 J	<0.000126	<0.0000819	<0.000104	<0.00119	
	MW-104	Jun-20	FD	<0.000147	<0.000149	<0.000133	<0.000158 J4	<0.000100	<0.000188	0.000368 J	<0.000126	<0.0000819	<0.000104	<0.00119	
	MW-104	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119	
	MW-104	Oct-20	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.000351 J	<0.000126	<0.0000819	<0.000104	<0.00119	
	MW-104	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119	
	MW-104	Apr-21	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119	
	MW-104	Sep-21		<0.000735	<0.000745	<0.000665	<0.000790	<0.000500	<0.000940	<0.00161 J4	<0.000630	<0.000409	<0.000520 J4	<0.00595	
	MW-105	Apr-19		<0.000385 J4	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.0442	<0.000381 J4	<0.000361	0.0237	<0.00393	
	MW-105	Oct-19		<0.0193	<0.0159	<0.00650	<0.0192	<0.0130	<0.0199	0.0522	<0.0191	<0.0181	0.0365 J	<0.197	
	MW-105	Jun-20		<0.00735	<0.00745	<0.00665	<0.00790	<0.00500	<0.00940	0.0443 J	<0.00630	<0.00409	0.0247 J	<0.0595	
	MW-105	Oct-20		<0.00735	<0.00745	<0.00665	<0.00790	<0.00500	<0.00940	**0.0572**	<0.00630	<0.00409	0.0202 J	<0.0595	
	MW-105	Apr-21		<0.0147	<0.0149	<0.0133	<0.0158	<0.0100	<0.0188	**0.0594 J**	<0.0126	<0.00819	<0.0104	<0.119	
	MW-106	Apr-19		<0.192 J4	<0.160	<0.0650	<0.192	<0.130	<0.199	**0.554**	<0.190 J4	<0.180	**0.281 J**	<1.96	
	MW-106	Oct-19		<0.0193	<0.0159	<0.00650	<0.0192	<0.0130	<0.0199	**0.0848**	<0.0191	<0.0181	<0.0194	<0.197	
	MW-106	Jun-20		<0.0147	<0.0149	<0.0133	<0.0158	<0.0100	<0.0188	**0.0861 J**	<0.0126	<0.00819	0.0146 J	<0.119	
	MW-106	Oct-20		<0.0294	<0.0298	<0.0266	<0.0316	<0.0200	<0.0376	**0.0943 J**	<0.0252	<0.0164	<0.0208	<0.238	
	MW-106	Apr-21		<0.0294	<0.0298	<0.0266	<0.0316	<0.0200	<0.0376	**0.116 J**	<0.0252	<0.0164	<0.0208	<0.238	
	MW-107	Oct-16		<0.00192	<0.00160	<0.000650	<0.00192	<0.00130	<0.00199	0.00205 J	<0.00190	<0.00180	<0.00194	<0.0196	
	MW-107	Apr-17		<0.0192	<0.0160	<0.00650	<0.0192	<0.0130	<0.0199	<0.0186	<0.0190	<0.0180	<0.0194	<0.196	
	MW-107	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.00228	<0.000381	<0.000361	0.00425	<0.00393	
	MW-107	Apr-19		<0.0962	<0.0798	<0.0325	<0.0958 J4	<0.0648	<0.0995	<0.0932	<0.0952	<0.0902	<0.0968	<0.982	
	MW-109	Apr-19		<0.00770	<0.00638	<0.00260	<0.00766	<0.00518	<0.00796	<0.00746	<0.00762	<0.00722	<0.00774	<0.0786	
	MW-109	Oct-19		<0.00193	<0.00159	<0.000650	<0.00192 J4	<0.00130	<0.00199	0.00288 J	<0.00191	<0.00181	<0.00194	<0.0197	
	MW-109	Jun-20		<0.00147	<0.00149	<0.00133	<0.00158	<0.00100	<0.00188	<0.00322	<0.00126	<0.000819	<0.00104	<0.0119	
	MW-109	Oct-20		<0.00147	<0.00149	<0.00133	<0.00158	<0.00100	<0.00188	<0.00322	<0.00126	<0.000819	<0.00104	<0.0119	
	MW-109	Apr-21		<0.00147	<0.00149	<0.00133	<0.00158	<0.00100	<0.00188	<0.00322	<0.00126	<0.000819	<0.00104	<0.0119	
	MW-109	Sep-21		<0.00368	<0.00373	<0.00333	<0.00395	<0.00250	<0.00470	<0.00805	<0.00315	<0.00205	<0.00260	<0.0298	

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Appendix B, Table B.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2021 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

Analyte Group:				Volatile Organic Compounds											
			Analyte:	1,1,1,2-Tetra-chloroethane	1,1,1-Tri-chloroethane	1,1,2,2-Tetra-chloroethane	1,1,2-Tri-chloroethane	1,1-Di-chloroethane	1,1-Di-chloroethene	1,2,4-Trimethyl-benzene	1,2-Dibromoethane (Ethylene dibromide)	1,2-Di-chloroethane	1,3,5-Trimethyl-benzene	2-Butanone (MEK)
			Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
			CGWSL:	---	0.200	0.01	0.00500	0.0250	0.00700	0.0560	0.0000500	0.00500	0.0600	5.56
			CGWSL Source:	---	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	USEPA TW	NMED TW
Area	Well ID	Date	Dup											
South Refinery	MW-110	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000560 J	<0.000381	<0.000361	<0.000387	<0.00393
	MW-110	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-110	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.00293	<0.000126	<0.0000819	0.000744 J	<0.00119
	MW-110	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-110	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	0.000127 J	<0.00119
	MW-110	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-139	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	0.00846 J
	MW-139	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-139	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-139	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-139	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	RA-313	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	RA-313	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	RA-313	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	RA-313	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	RW-4	Apr-17		<0.00192	<0.00160	<0.000650	<0.00192	<0.00130	<0.00199	<0.00186	<0.00190	<0.00180	<0.00194	<0.0196
	RW-4	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000659 J	<0.000381	<0.000361	<0.000387	<0.00393
	RW-4	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383 J4	<0.000259	<0.000398	0.00105	<0.000381	<0.000361	0.000400 J	<0.00393
	RW-4	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.000958 J	<0.000126	<0.0000819	0.000329 J	<0.00119
	RW-5R	Apr-15		<0.00380	<0.00319	<0.00130	<0.00380	<0.00260	<0.00400	**0.298**		<0.00360	0.0558	<0.0390
	RW-5R	Apr-16		<0.00770	<0.00638	<0.00260	<0.00766	<0.00518	<0.00796	**0.437**	<0.00762	<0.00722	**0.100**	<0.0786
	RW-6	Apr-15		<0.00380	<0.00319	<0.00130	<0.00380	<0.00260	<0.00400	**0.134**		<0.00360	0.0280	<0.0390
	RW-6R	Apr-16		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.00555	<0.000381	<0.000361	0.00111	<0.00393
	RW-6	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.0143	<0.000381	<0.000361	0.00259	<0.00393
	RW-6	Apr-19		<0.00770	<0.00638	<0.00260	<0.00766 J4	<0.00518	<0.00796	0.0110 J	<0.00762	<0.00722	<0.00774	<0.0786
	RW-15C	Apr-17		<0.00962	<0.00798	<0.00325	<0.00958	<0.00648	<0.00995	**1.46**	<0.00952	<0.00902	**0.231**	<0.0982
	RW-15C	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	**1.06**	<0.000381	<0.000361	**0.138**	<0.00393
	RW-15C	Apr-19		<0.00385	<0.00319	<0.00130	<0.00383	<0.00259	<0.00398	**0.728**	<0.00381	<0.00361	0.0476	<0.0393
South RO Field	MW-114	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-114	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-114	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-114	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-114	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	0.000160 J	<0.000104	<0.00119
	MW-114	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	0.000276 J	<0.00119
	MW-115	Apr-19		<0.000385 J4	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381 J4	<0.000361	<0.000387	<0.00393
	MW-115	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-115	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-115	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-115	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-115	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-116	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383 J4	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-116	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383 J4	<0.000259	<0.000398	<0.000373	<0.000381 J4	<0.000361	<0.000387	<0.00393
	MW-116	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-116	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-116	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-116	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
TEL	MW-49	Apr-19		<0.00192	<0.00160	<0.000650	<0.00192	<0.00130	<0.00199	**0.0784**	<0.00190	<0.00180	0.0112	<0.0196
	MW-49	Oct-19		<0.00193	<0.00159	<0.000650 J4	<0.00192	<0.00130	<0.00199	**0.0794**	<0.00191	<0.00181	0.0155	<0.0197
	MW-49	Jun-20		<0.00294	<0.00298	<0.00266	<0.00316	<0.00200	<0.00376	**0.115**	<0.00252	<0.00164	0.0214	<0.0238
	MW-49	Oct-20		<0.00294	<0.00298	<0.00266	<0.00316	<0.00200	<0.00376	**0.0763**	<0.00252	<0.00164	0.0154 J	<0.0238
	MW-49	Apr-21		<0.00368	<0.00373	<0.00333	<0.00395	<0.00250	<0.00470	0.0527	<0.00315	<0.00205	0.0105 J	<0.0298
	MW-49	Sep-21		<0.00147	<0.00149	<0.00133	<0.00158	<0.00100	<0.00188	0.0403	<0.00126	<0.000819	0.00713 J	<0.0119
	TEL-1	Oct-18		<0.00192	<0.00160	<0.000650	<0.00192	<0.00130	<0.00199	<0.00186	<0.00190	<0.00180	<0.00194	<0.0196
	TEL-1	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383 J4	<0.000259	<0.000398	0.000820 J	<0.000381	<0.000361	<0.000387	<0.00393
	TEL-1	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.00140	<0.000381	<0.000361	<0.000387	<0.00393
	TEL-1	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.00114	<0.000126	<0.0000819	0.000302 J	<0.00119
	TEL-2	Oct-18		<0.00962	<0.00798	<0.00325	<0.00958	<0.00648	<0.00995	**0.115**	<0.00952	<0.00902	0.0165 J	<0.0982
	TEL-2	Apr-19		<0.00385	<0.00319	<0.00130	<0.00383 J4	<0.00259	<0.00398	**0.0639**	<0.00381	<0.00361	0.00655 J	<0.0393
	TEL-2	Oct-19		<0.00385	<0.00319	<0.00130	<0.00383	<0.00259	<0.00398	**0.0603**	<0.00381	<0.00361	0.00551 J	<0.0393
	TEL-2	Jun-20		<0.00147	<0.00149	<0.00133	<0.00158	<0.00100	<0.00188	0.0402	<0.00126	<0.000819	0.00377 J	<0.0119
	TEL-3	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.0200	<0.000381	<0.000361	0.000983 J	<0.00393
	TEL-3	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383 J4	<0.000259	<0.000398	0.0226	<0.000381	<0.000361	<0.000387	<0.00393
	TEL-3	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.0379	<0.000381	<0.000361	<0.000387	<0.00393
	TEL-3	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	**0.0659**	<0.000126	<0.0000819	0.00147	<0.00119
	TEL-4	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383 J4	<0.000259	<0.000398	0.00105	<0.000381	<0.000361	<0.000387	<0.00393
	TEL-4	Apr-19	FD	<0.000385	<0.000319	<0.000130	<0.000383 J4	<0.000259	<0.000398	0.00105	<0.000381	<0.000361	<0.000387	<0.00393
	TEL-4	Oct-19		<0.00193	<0.00159	<0.000650	0.00347 J	<0.00130	<0.00199	<0.00187	<0.00191	<0.00181	<0.00194	<0.0197
	TEL-4	Oct-19	FD	<0.000385	<0.000319	<0.000130 J4	<0.000383	<0.000259	<0.000398	0.000713 J	<0.000381	<0.000361	<0.000387	<0.00393
	TEL-4	Jun-20		<0.000735	<0.000745	<0.000665	<0.000790	<0.000500	<0.000940	<0.00161	<0.000630	<0.000409	<0.000520	<0.00595
	TEL-4	Jun-20	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.000866 J	<0.000126	<0.0000819	<0.000104	<0.00119
	TEL-4	Oct-20		<0.000735	<0.000745	<0.000665	<0.000790	<0.000500	<0.000940	<0.00161	<0.000630	<0.000409	<0.000520	<0.00595
	TEL-4	Oct-20	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119 J3
	TEL-4	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.00286	<0.000126	<0.0000819	0.000486 J	<0.00119
	TEL-4	Apr-21	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.00291	<0.000126	<0.0000819	0.000488 J	<0.00119
	TEL-4	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.00135	<0.000126	<0.0000819	<0.000104	<0.00119
	TEL-4	Sep-21	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.00128	<0.000126	<0.0000819	0.000193 J	<0.00119
Three Mile Ditch	MW-8	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-8	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-8	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-8	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-16	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-16	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387 J4	<0.00393
	MW-16	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-16	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-20	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-20	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-20	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-20	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-21	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-21	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-21	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-21	Oct-20		<0.000735	<0.000745	<0.000665	<0.000790	<0.000500	<0.000940	<0.00161	<0.000630	<0.000409	<0.000520	<0.00595
	MW-21	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-21	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-25	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-25	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-25	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-25	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-26	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-26	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383 J4	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-26	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-26	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119

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Appendix B, Table B.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2021 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Volatile Organic Compounds										
				Analyte:	1,1,1,2-Tetra-chloroethane	1,1,1-Tri-chloroethane	1,1,2,2-Tetra-chloroethane	1,1,2-Tri-chloroethane	1,1-Di-chloroethane	1,1-Di-chloroethene	1,2,4-Trimethyl-benzene	1,2-Dibromoethane (Ethylene dibromide)	1,2-Di-chloroethane	1,3,5-Trimethyl-benzene	2-Butanone (MEK)
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL:	---	0.200	0.01	0.00500	0.0250	0.00700	0.0560	0.0000500	0.00500	0.0600	5.56
				CGWSL Source:	---	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	USEPA TW	NMED TW
Area	Well ID	Date	Dup												
Three Mile Ditch	MW-27	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-27	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383 J4	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-27	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-27	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-46R	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383 J4	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-46R	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-46R	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-46R	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-46R	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-46R	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-68	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-68	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383 J4	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-68	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-68	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-71	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-71	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383 J4	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-71	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	0.000171 J	<0.000104	<0.00119
	MW-71	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	0.000156 J	<0.000104	<0.00119
	MW-89	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-89	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383 J4	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	MW-89	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	MW-89	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	NP-1	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	NP-1	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	NP-1	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	0.000187 J	<0.000104	<0.00119
	NP-1	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.000430 J	<0.000126	<0.0000819	0.000104 J	<0.00119
	NP-1	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	NP-1	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.00805	<0.000126	<0.0000819	0.000215 J	<0.00119
	NP-6	Apr-15		<0.000380	<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370		<0.000360 UJ	<0.000390	<0.00390 UJ
	NP-6	Apr-17		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	NP-6	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	NP-6	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
Upgradient	UG-1	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	UG-1	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	UG-1	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	UG-1	Apr-21		<0.000147	<0.000149 J4	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	UG-2	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	UG-2	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	UG-2	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	UG-2	Apr-21		<0.000147	<0.000149 J4	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	UG-3R	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	UG-3R	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	UG-3R	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	UG-3R	Apr-21		<0.000147	<0.000149 J4	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	UG-4	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	UG-4	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	<0.000381	<0.000361	<0.000387	<0.00393
	UG-4	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119
	UG-4	Apr-21		<0.000147	<0.000149 J4	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.000126	<0.0000819	<0.000104	<0.00119

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Appendix C, Table C.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2020 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Volatile Organic Compounds											
				Analyte:	2-Hexanone (Methyl N-Butyl Ketone)	4-Isopropyl-toluene (p-Cymene)	4-Methyl-2-pentanone	Acetone	Benzene	Bromo-dichloro-methane	Bromoform (Tribromo-methane)	Bromo-methane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL:	---	---	1.24	14.1	0.00500	0.0800	---	0.00754	0.810	0.00500	0.100	20.9
				CGWSL Source:	---	---	NMED TW	TMED TW	WQCC HH	USEPA MCL	---	NMED TW	NMED TW	WQCC HH	USEPA MCL	NMED TW
Area	Well ID	Date	Dup													
Cross-Gradient	KWB-13	Apr-18		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	KWB-13	Apr-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866 J3	<0.000275	<0.000379	<0.000348	<0.000453
	KWB-13	Jun-20		<0.000787	<0.000120	<0.000478	<0.0113	0.000205 J	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116 J4	<0.000192
	KWB-13	Apr-21		<0.000787	<0.000120	<0.000478	<0.0113	0.000162 J	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-136	Apr-19		<0.00382	<0.000350	<0.00214	<0.0100 J4	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-136	Oct-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-136	Jun-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	0.000273 JB	<0.000128	<0.000116	<0.000192
	MW-136	Oct-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605 J4	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-136	Apr-21		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-136	Sep-21		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	NP-5	Apr-15		<0.00380	<0.000350	<0.00210	<0.0100	<0.000330	<0.000380	<0.000470	<0.000870	<0.000280	<0.000380	<0.000350	<0.000450
	NP-5	Apr-17		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	NP-5	Apr-19		<0.00382	<0.000350	<0.00214	<0.0100 J4	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	NP-5	Apr-21		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	RA-3156	Apr-18		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	RA-3156	Apr-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866 J3	<0.000275	<0.000379	<0.000348	<0.000453
	RA-3156	Jun-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	0.000520 JB	<0.000128	<0.000116	<0.000192
	RA-3156	Apr-21		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
Evaporation Ponds	MW-1R	Apr-18		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-1R	Apr-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-1R	Jun-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-1R	Apr-21		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-2A	Apr-19		<0.0191	<0.00175	<0.0107	<0.0500	<0.00166	<0.00190	<0.00234	<0.00433	<0.00138	<0.00190	<0.00174	<0.00226
	MW-2A	Oct-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-2A	Jun-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-2A	Oct-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-2A	Apr-21		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-2A	Sep-21													
	MW-3	Apr-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-3	Apr-19	FD	<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-3	Oct-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-3	Oct-19	FD	<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866 J3	<0.000275 J3	<0.000379 J3	<0.000348	<0.000453
	MW-3	Jun-20		<0.0197	<0.00300	<0.0120	<0.282	<0.00235	<0.00340	<0.00322	<0.0151	<0.00241	<0.00320	<0.00290	<0.00480
	MW-3	Jun-20	FD	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605 J3	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-3	Oct-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	0.000107 J	<0.000128	<0.000116	<0.000192
	MW-3	Oct-20	FD	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-3	Apr-21		<0.0197	<0.00300	<0.0120	<0.282	<0.00235	<0.00340	<0.00322	<0.0151	<0.00241	<0.00320	<0.00290	<0.00480
	MW-3	Apr-21	FD	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-3	Sep-21													
	MW-3	Sep-21	FD												
	MW-4A	Apr-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-4A	Oct-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-4A	Jun-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-4A	Oct-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-4A	Apr-21		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-4A	Sep-21													
	MW-4B	Apr-15		<0.00380	<0.000350	<0.00210	<0.0100	0.00183	<0.000380	<0.000470	<0.000870	<0.000280	<0.000380	<0.000350	<0.000450
	MW-4B	Apr-17		<0.00382 J3J4	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-4B	Apr-19		<0.00382	<0.000350	<0.00214	<0.0100	0.000393 J	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-4B	Apr-21		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-5A	Apr-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-5A	Oct-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866 J3	<0.000275 J3	<0.000379 J3	<0.000348	<0.000453
	MW-5A	Jun-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-5A	Oct-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-5A	Apr-21		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-5A	Sep-21													
	MW-5B	Apr-15		<0.00380	<0.000350	<0.00210	<0.0100	<0.000330	<0.000380	<0.000470	<0.000870	<0.000280	<0.000380	<0.000350	<0.000450
	MW-5B	Apr-17		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-5B	Apr-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-5B	Apr-21		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-5C	Apr-15		<0.00380	<0.000350	<0.00210	<0.0100	<0.000330	<0.000380	<0.000470	<0.000870	<0.000280	<0.000380	<0.000350	<0.000450
	MW-5C	Apr-17		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-5C	Apr-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-5C	Apr-21		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-6A	Apr-18		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453 J4
	MW-6A	Apr-19		<0.0191	<0.00175	<0.0107	<0.0500	0.00190 J	<0.00190	<0.00234	<0.00433	<0.00138	<0.00190	<0.00174	<0.00226
	MW-6A	Jun-20		<0.00394	<0.000600	<0.00239	<0.0565	<0.000471	<0.000680	<0.000645	<0.00303	<0.000481	<0.000640	<0.000580	<0.000960
	MW-6A	Apr-21		<0.00394	<0.000600	<0.00239	<0.0565	<0.000471	<0.000680	<0.000645	<0.00303	<0.000481	<0.000640	<0.000580	<0.000960
	MW-6B	Apr-15		<0.00380	<0.000350	<0.00210	<0.0100	<0.000330	<0.000380	<0.000470	<0.000870	<0.000280	<0.000380	<0.000350	<0.000450
	MW-6B	Apr-17		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-6B	Apr-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-6B	Apr-21		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-7A	Apr-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-7A	Apr-19	FD	<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-7A	Oct-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866 J3	<0.000275 J3	<0.000379 J3	<0.000348	<0.000453
	MW-7A	Oct-19	FD	<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866 J3	<0.000275 J3	<0.000379 J3	<0.000348	<0.000453
	MW-7A	Jun-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-7A	Jun-20	FD	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-7A	Oct-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-7A	Oct-20	FD	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-7A	Apr-21		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-7A	Apr-21	FD	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-7A	Sep-21		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-7A	Sep-21	FD	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-7B	Apr-15		<0.00380	<0.000350	<0.00210	<0.0100	<0.000330	<0.000380	<0.000470	<0.000870	<0.000280	<0.000380	<0.000350	<0.000450
	MW-7B	Apr-17		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-7B	Apr-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-7B	Apr-21		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-10	Apr-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-10	Oct-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-10	Jun-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-10	Oct-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-10	Apr-21		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-10	Sep-21													
	MW-11A	Apr-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-11A	Oct-19													
	MW-11A	Jun-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-11A	Oct-20													
	MW-11A	Apr-21		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-11A	Sep-21													

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Appendix C, Table C.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2020 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Volatile Organic Compounds											
				Analyte:	2-Hexanone (Methyl N-Butyl Ketone)	4-Isopropyl-toluene (p-Cymene)	4-Methyl-2-pentanone	Acetone	Benzene	Bromo-dichloro-methane	Bromoform (Tribromo-methane)	Bromo-methane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL:	---	---	1.24	14.1	0.00500	0.0800	---	0.00754	0.810	0.00500	0.100	20.9
				CGWSL Source:	---	---	NMED TW	TMED TW	WQCC HH	USEPA MCL	---	NMED TW	NMED TW	WQCC HH	USEPA MCL	NMED TW
Area	Well ID	Date	Dup													
Evaporation Ponds	MW-11B	Apr-15			<0.00380	<0.000350	<0.00210	<0.0100	<0.000330	<0.000380	<0.000470	<0.000870	<0.000280	<0.000380	<0.000350	<0.000450
	MW-11B	Apr-17			<0.00382 J3J4	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-11B	Apr-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-11B	Apr-21			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-15	Apr-18			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-15	Apr-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-15	Jun-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-15	Apr-21			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-18A	Apr-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-18A	Oct-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866 J3	<0.000275 J3	<0.000379 J3	<0.000348	<0.000453
	MW-18A	Jun-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-18A	Oct-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-18A	Apr-21			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-18A	Sep-21														
	MW-18B	Apr-15			<0.00380	<0.000350	<0.00210	<0.0100	<0.000330	<0.000380	<0.000470	<0.000870	<0.000280	<0.000380	<0.000350	<0.000450
	MW-18B	Apr-17			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-18B	Apr-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-18B	Apr-21			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-22A	Apr-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-22A	Apr-19	FD		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-22A	Oct-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-22A	Oct-19	FD		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-22A	Jun-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-22A	Jun-20	FD		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-22A	Oct-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-22A	Oct-20	FD		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-22A	Apr-21			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-22A	Apr-21	FD		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-22A	Sep-21														
	MW-22A	Sep-21	FD													
	MW-22B	Apr-15			<0.00380	<0.000350	<0.00210	<0.0100	<0.000330	<0.000380	<0.000470	<0.000870	<0.000280	<0.000380	<0.000350	<0.000450
	MW-22B	Apr-17			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-22B	Apr-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-22B	Apr-21			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-70	Apr-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-70	Oct-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866 J3	<0.000275 J3	<0.000379 J3	<0.000348	<0.000453
	MW-70	Jun-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-70	Oct-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	0.000277 JB	<0.000128	<0.000116	<0.000192
	MW-70	Apr-21			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-70	Sep-21														
	MW-72	Apr-18			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-72	Apr-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-72	Jun-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-72	Apr-21			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-73	Apr-18			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-73	Apr-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-73	Jun-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-73	Apr-21			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-74	Apr-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-74	Oct-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-74	Jun-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-74	Oct-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-74	Apr-21			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-74	Sep-21														
	MW-75	Apr-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-75	Oct-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-75	Jun-20			<0.0197	<0.00300	<0.0120	<0.282	<0.00235	<0.00340	<0.00322	<0.0151	<0.00241	<0.00320	<0.00290	<0.00480
	MW-75	Oct-20			<0.0197	<0.00300	<0.0120	<0.282	<0.00235	<0.00340	<0.00322	<0.0151	<0.00241	<0.00320	<0.00290	<0.00480
	MW-75	Apr-21			<0.0197	<0.00300	<0.0120	<0.282	<0.00235	<0.00340	<0.00322	<0.0151	<0.00241	<0.00320	<0.00290	<0.00480
	MW-75	Sep-21														
	MW-76	Apr-19			<0.00382	<0.000350	<0.00214	0.0130 J	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-76	Oct-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-76	Jun-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-76	Oct-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128 J4	<0.000116	<0.000192
	MW-76	Apr-21			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-76	Sep-21														
	MW-77	Apr-18			<0.0382	<0.00350	<0.0214	<0.100	<0.00331	<0.00380	<0.00469	<0.00866	<0.00275	<0.00379	<0.00348	<0.00453
	MW-77	Apr-19			<0.0382	<0.00350	<0.0214	<0.100	<0.00331	<0.00380	<0.00469	<0.00866	<0.00275	<0.00379	<0.00348	<0.00453
	MW-77	Jun-20			<0.0197	<0.00300	<0.0120	<0.282	<0.00235	<0.00340	<0.00322	<0.0151	<0.00241	<0.00320	<0.00290	<0.00480
	MW-77	Apr-21			<0.0197	<0.00300	<0.0120	<0.282	<0.00235	<0.00340	<0.00322	<0.0151	<0.00241	<0.00320	<0.00290	<0.00480
	MW-78	Apr-18			<0.00382	<0.000350	<0.00214	0.0139 J	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-78	Apr-19			<0.0382	<0.00350	<0.0214	<0.100	<0.00331	<0.00380	<0.00469	<0.00866	<0.00275	<0.00379	<0.00348	<0.00453
	MW-78	Jun-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-78	Apr-21			<0.000787	<0.000120	<0.000478	0.0140 J	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-79	Apr-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-79	Oct-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-79	Jun-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116 J4	<0.000192
	MW-79	Oct-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-79	Apr-21			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-79	Sep-21														
	MW-80	Apr-18			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-80	Apr-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-80	Jun-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116 J4	<0.000192
	MW-80	Apr-21			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-81	Apr-18			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-81	Apr-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-81	Jun-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116 J4	<0.000192
	MW-81	Apr-21			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-82	Apr-18			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-82	Apr-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-82	Jun-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-82	Apr-21			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-83	Apr-19			<0.0191	<0.00175	<0.0107	<0.0500	<0.00166	<0.00190	<0.00234	<0.00433	<0.00138	<0.00190	<0.00174	<0.00226
	MW-83	Oct-19			<0.00382	<0.000350	<0.00214	0.0135 J	<0.000331	<0.000380	<0.000469	<0.000866	0.000907 JB	<0.000379	<0.000348	<0.000453
	MW-83	Jun-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-83	Oct-20			<0.000787	<0.000120	<0.000478	<0.0113	0.000236 J	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-83	Apr-21			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-83	Sep-21														
	MW-84	Apr-19			<0.0191	<0.00175	<0.0107	<0.0500	<0.00166	<0.00190	<0.00234	<0.00433	<0.00138	<0.00190	<0.00174	<0.00226
	MW-84	Oct-19			<0.0191	<0.00175	<0.0107	<0.0500	<0.00166	<0.00190	<0.00234	<0.00433	<0.00138	<0.00190	<0.00174	<0.00227
	MW-84	Jun-20			<0.00394	<0.000600	<0.00239	<0.0565	<0.000471	<0.000680	<0.000645	<0.00303	<0.000481	<0.000640	<0.000580 J4	<0.000960
	MW-84	Oct-20			<0.00787	<0.00120	<0.00478	<0.113	<0.000941	<0.00136	<0.00129	<0.00605	<0.000962	<0.00128	<0.00116	<0.00192
	MW-84	Apr-21			<0.00787	<0.00120	<0.00478	<0.113	<0.000941	<0.00136	<0.00129	<0.00605	<0.000962	<0.00128	<0.00116	<0.00192
	MW-84	Sep-21														

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Appendix C, Table C.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2020 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

Analyte Group:				Volatile Organic Compounds												
			Analyte:	2-Hexanone (Methyl N-Butyl Ketone)	4-Isopropyl-toluene (p-Cymene)	4-Methyl-2-pentanone	Acetone	Benzene	Bromo-dichloro-methane	Bromoform (Tribromo-methane)	Bromo-methane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane
			Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
			CGWSL:	---	---	1.24	14.1	0.00500	0.0800	---	0.00754	0.810	0.00500	0.100	20.9
			CGWSL Source:	---	---	NMED TW	TMED TW	WQCC HH	USEPA MCL	---	NMED TW	NMED TW	WQCC HH	USEPA MCL	NMED TW
Area	Well ID	Date	Dup												
Evaporation Ponds	MW-86	Jun-20		<0.0157	<0.00240	<0.00956	<0.226	**0.0242**	<0.00272	<0.00258	<0.0121	0.00254 J	<0.00256	<0.00232 J4	<0.00384
	MW-86	Oct-20		<0.0157	<0.00240	<0.00956	<0.226	**0.0313**	<0.00272	<0.00258	<0.0121	<0.00192	<0.00256	<0.00232	<0.00384
	MW-87	Apr-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-87	Oct-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-87	Jun-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-87	Oct-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-87	Apr-21		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-87	Sep-21													
	MW-88	Apr-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-88	Oct-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-88	Jun-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-88	Oct-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128 J4	<0.000116	<0.000192
	MW-88	Apr-21		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-88	Sep-21													
	MW-120	Apr-19		<0.0191	<0.00175	<0.0107	<0.0500	<0.00166	<0.00190	<0.00234	<0.00433	<0.00138	<0.00190	<0.00174	<0.00226
	MW-120	Oct-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	0.000577 JB	<0.000379	<0.000348	<0.000453
	MW-120	Jun-20		<0.00394	<0.000600	<0.00239	<0.0565	<0.000471	<0.000680	<0.000645	<0.00303	<0.000481	<0.000640	<0.000580	<0.000960
	MW-120	Oct-20		<0.00394	<0.000600	<0.00239	<0.0565	<0.000471	<0.000680	<0.000645	<0.00303	<0.000481	<0.000640	<0.000580	<0.000960
	MW-120	Apr-21		<0.00394	<0.000600	<0.00239	<0.0565	<0.000471	<0.000680	<0.000645	<0.00303	<0.000481	<0.000640	<0.000580	<0.000960
	MW-120	Sep-21		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-121	Apr-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-121	Oct-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-121	Jun-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-121	Oct-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-121	Apr-21		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-121	Sep-21													
	MW-122	Apr-19		<0.0191	<0.00175	<0.0107	<0.0500	<0.00166	<0.00190	<0.00234	<0.00433	<0.00138	<0.00190	<0.00174	<0.00226
	MW-122	Oct-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	0.000536 JB	<0.000379	<0.000348	<0.000453
	MW-122	Jun-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116 J4	<0.000192
	MW-122	Oct-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-122	Apr-21		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-122	Sep-21													
	MW-123	Apr-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-123	Oct-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-123	Jun-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-123	Oct-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-123	Apr-21		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-123	Sep-21													
	MW-124	Apr-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-124	Oct-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866 J3	<0.000275 J3	<0.000379 J3	<0.000348	<0.000453
	MW-124	Jun-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-124	Oct-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-124	Apr-21		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-124	Sep-21													
	OCD-1R	Apr-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	OCD-1R	Oct-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	OCD-1R	Jun-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	OCD-1R	Oct-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	OCD-1R	Apr-21		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	OCD-1R	Sep-21													
	OCD-2A	Apr-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	OCD-2A	Oct-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	OCD-2A	Jun-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	OCD-2A	Oct-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	OCD-2A	Apr-21		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	OCD-2A	Sep-21													
	OCD-3	Apr-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	OCD-3	Oct-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	OCD-3	Jun-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	OCD-3	Oct-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	OCD-3	Apr-21		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	OCD-3	Sep-21													
	OCD-4	Apr-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	OCD-4	Oct-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	OCD-4	Jun-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	OCD-4	Oct-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	OCD-4	Apr-21		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	OCD-4	Sep-21													
	OCD-5	Apr-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	OCD-5	Oct-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	OCD-5	Jun-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	OCD-5	Oct-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	OCD-5	Apr-21		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	OCD-5	Sep-21													
	OCD-6	Apr-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	OCD-6	Oct-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	OCD-6	Jun-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	OCD-6	Oct-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	OCD-6	Apr-21		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	OCD-6	Sep-21													
	OCD-7AR	Apr-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	OCD-7AR	Oct-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	OCD-7AR	Jun-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	OCD-7AR	Oct-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	OCD-7AR	Apr-21		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	OCD-7AR	Sep-21													
	OCD-7B	Apr-15		<0.00380	<0.000350	<0.00210	<0.0100	<0.000330	<0.000380	<0.000470	<0.000870	0.000420 J	<0.000380	<0.000350	<0.000450
	OCD-7B	Apr-17		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	OCD-7B	Apr-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	OCD-7B	Apr-21		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	OCD-8A	Apr-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	OCD-8A	Oct-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866 J3	<0.000275 J3	<0.000379 J3	<0.000348	<0.000453
	OCD-8A	Jun-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	OCD-8A	Oct-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	OCD-8A	Apr-21		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	OCD-8A	Sep-21													
	OCD-8B	Apr-15		<0.00380	<0.000350	<0.00210	<0.0100	<0.000330	<0.000380	<0.000470	<0.000870	<0.000280	<0.000380	<0.000350	<0.000450
	OCD-8B	Apr-17		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	OCD-8B	Apr-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	OCD-8B	Apr-21		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
Field East of Refinery	KWB-1A	Apr-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866 J3	<0.000275	<0.000379	<0.000348	<0.000453
	KWB-1A	Oct-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	KWB-1A	Jun-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	0.000300 JB	<0.000128	<0.000116	<0.000192
	KWB-1A	Oct-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605 J4	<0.0000962	<0.000128	<0.000116	<0.000192
	KWB-1C	Apr-15		<0.00380	<0.000350	<0.00210	<0.0100	<0.000330	<0.000380	<0.000470	<0.000870	<0.000280	<0.000380	<0.000350	<0.000450
	KWB-1C	Apr-17		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	KWB-1C	Apr-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866 J3	<0.000275	<0.000379	<0.000348	<0.000453
	KWB-1C	Apr-21		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192

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Appendix C, Table C.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2020 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Volatile Organic Compounds											
				Analyte:	2-Hexanone (Methyl N-Butyl Ketone)	4-Isopropyl-toluene (p-Cymene)	4-Methyl-2-pentanone	Acetone	Benzene	Bromo-dichloro-methane	Bromoform (Tribromo-methane)	Bromo-methane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL:	---	---	1.24	14.1	0.00500	0.0800	---	0.00754	0.810	0.00500	0.100	20.9
				CGWSL Source:	---	---	NMED TW	TMED TW	WQCC HH	USEPA MCL	---	NMED TW	NMED TW	WQCC HH	USEPA MCL	NMED TW
Area	Well ID	Date	Dup													
Field East of Refinery	KWB-7	Jun-20			<0.000787	0.00161	<0.000478	<0.0113	**0.0545**	<0.000136	<0.000129	<0.000605	0.00118	<0.000128	<0.000116	<0.000192
	KWB-7	Oct-20			<0.000787	0.000201 J	<0.000478	<0.0113	**0.00789**	<0.000136	<0.000129	<0.000605	0.000319 JB	<0.000128	<0.000116	<0.000192
	KWB-7	Apr-21			<0.000787	0.00285	<0.000478	<0.0113	**1.01**	<0.000136	<0.000129	<0.000605	0.000668 J	<0.000128	<0.000116	<0.000192
	KWB-7	Sep-21			<0.000787	0.00284	<0.000478	<0.0113	**0.0131**	<0.000136	<0.000129	<0.000605	0.000243 J	<0.000128	<0.000116	<0.000192
	KWB-8	Oct-16			<0.764	<0.0700	<0.428	<2.00	**11.5**	<0.0760	<0.0938	<0.173	<0.0550	<0.0758	<0.0696	<0.0906
	KWB-8	Apr-17			<0.382	<0.0350	<0.214	<1.00	**5.62**	<0.0380	<0.0469	<0.0866	<0.0275	<0.0379	<0.0348	<0.0453
	KWB-8	Oct-17			0.00515 J	0.00112	<0.00214	0.0801 V3	**12.5**	<0.000380	<0.000469	<0.000866	0.00427 V3	<0.000379	<0.000348	<0.000453
	KWB-8	Oct-20			<0.157	<0.0240	<0.0956	<2.26	**17.8**	<0.0272	<0.0258	<0.121	0.0664 JB	<0.0256	<0.0232	<0.0384
	KWB-10R	Apr-17			<0.191	<0.0175	<0.107	<0.500	**4.95**	<0.0190	<0.0234	<0.0433	<0.0138	<0.0190	<0.0174	<0.0226
	KWB-10R	Oct-17			<0.00382	0.0184	<0.00214	<0.0100	**7.06**	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	KWB-10R	Apr-18			<0.955	<0.0875	<0.535	<2.50	**3.06**	<0.0950	<0.117	<0.216	<0.0688	<0.0948	<0.0870	<0.113
	KWB-10R	Oct-18			<0.955	<0.0875	<0.535	<2.50	**3.81**	<0.0950	<0.117	<0.216	<0.0688	<0.0948	<0.0870	<0.113 J4
	KWB-11A	Apr-19			<0.00382	<0.000350	<0.00214	<0.0100 J4	0.000898 J	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	KWB-11A	Jun-20			<0.000787	<0.000120	<0.000478	<0.0113	0.000492 J	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	KWB-11A	Oct-20			<0.000787	<0.000120	<0.000478	<0.0113	0.00234	<0.000136	<0.000129	<0.000605	0.000169 JB	<0.000128	<0.000116	<0.000192
	KWB-11A	Sep-21			<0.000787	0.00102	<0.000478	<0.0113	**0.0512**	<0.000136	<0.000129	<0.000605	0.000121 J	<0.000128	<0.000116	<0.000192
	KWB-11B	Apr-19			<0.00382	<0.000350	<0.00214	<0.0100 J4	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	KWB-11B	Oct-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	KWB-11B	Jun-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	KWB-11B	Oct-20			<0.000787	<0.000120	<0.000478	<0.0113	0.00192	<0.000136	<0.000129	<0.000605	0.000191 JB	<0.000128	<0.000116	<0.000192
	KWB-11B	Apr-21			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	KWB-11B	Sep-21			<0.000787	<0.000120	<0.000478	<0.0113	0.0000957 J	<0.000136	<0.000129	<0.000605	0.000126 J	<0.000128	<0.000116	<0.000192
	KWB-12A	Oct-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	KWB-12A	Jun-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116 J4	<0.000192
	KWB-12A	Oct-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605 J4	<0.0000962	<0.000128	<0.000116	<0.000192
	KWB-12A	Sep-21			<0.000787	<0.000120	<0.000478	<0.0113	0.000531 J	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	KWB-12B	Apr-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	KWB-12B	Apr-19	FD		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	KWB-12B	Oct-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	KWB-12B	Oct-19	FD		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	KWB-12B	Jun-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116 J4	<0.000192
	KWB-12B	Jun-20	FD		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	KWB-12B	Oct-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605 J4	<0.0000962	<0.000128	<0.000116	<0.000192
	KWB-12B	Oct-20	FD		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	KWB-12B	Apr-21			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	KWB-12B	Apr-21	FD		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	KWB-12B	Sep-21			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	KWB-12B	Sep-21	FD		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	KWB-P4	Apr-15			<0.00380	<0.000350	<0.00210	<0.0100	<0.000330	<0.000380	<0.000470	<0.000870	<0.000280	<0.000380	<0.000350	<0.000450
	KWB-P4	Apr-17			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	KWB-P4	Apr-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866 J3	<0.000275	<0.000379	<0.000348	<0.000453
	KWB-P4	Apr-21			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-57	Apr-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-57	Oct-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-57	Jun-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116 J4	<0.000192
	MW-57	Oct-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605 J4	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-57	Apr-21			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-57	Sep-21			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-58	Oct-17			<0.00382	0.00399	<0.00214	<0.0100	**4.08**	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-58	Apr-18			<0.191	<0.0175	<0.107	<0.500	**4.12**	<0.0190	<0.0234	<0.0433	<0.0138	<0.0190	<0.0174	<0.0226
	MW-58	Oct-18			<0.191	<0.0175	<0.107	<0.500 J3	**7.11**	<0.0190	<0.0234	<0.0433	<0.0138	<0.0190	<0.0174	<0.0226
	MW-58	Oct-19			<0.0382	0.00466 J	<0.0214	<0.100	**3.78**	<0.00380	<0.00469	<0.00866	<0.00275	<0.00379	<0.00348	<0.00453
	MW-111	Oct-18			<0.0955	<0.00875	<0.0535	<0.250	**0.0268**	<0.00950	<0.0117	<0.0216	<0.00688	<0.00948	<0.00870	<0.0113 J4
	MW-111	Apr-19			<0.00382	<0.000350	<0.00214	<0.0100	**0.115**	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-111	Oct-19			<0.00382	<0.000350	<0.00214	0.0116 J	**0.167**	<0.000380	<0.000469	<0.000866	<0.00688	<0.000379	<0.000348	<0.000453
	MW-111	Jun-20			<0.0197	<0.00300	<0.0120	<0.282	**0.439**	<0.00340	<0.00322	<0.0151	0.00625 JB	<0.00320	<0.00290	<0.00480
	MW-112	Nov-14			<0.0960	<0.00880	<0.0540	<0.250	**8.50**	<0.00950	<0.0120	<0.0220	<0.00690	<0.00950	<0.00870	<0.0110
	MW-113	Apr-19			<0.00382	<0.000350	<0.00214	<0.0100 J4	**0.0154**	<0.000380	<0.000469	<0.000866	0.00171	<0.000379	<0.000348	<0.000453
	MW-113	Apr-19	FD		<0.00382	<0.000350	<0.00214	<0.0100	**0.0139**	<0.000380	<0.000469	<0.000866	0.000317 J	<0.000379	<0.000348	<0.000453
	MW-113	Oct-19			<0.00382	0.00313	0.00408 J	<0.0100	**0.547 J4**	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-113	Oct-19	FD		<0.00382	0.00292	0.00587 J	<0.0100	**0.546**	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-113	Jun-20			<0.00394	0.00138 J	<0.00239	<0.0565	**0.0306**	<0.000680	<0.000645	<0.00303	0.00281 JB	<0.000640	<0.000580	<0.000960
	MW-113	Jun-20	FD		<0.000787	0.00157	0.000770 J	0.0396 J	**0.0248**	<0.000136	<0.000129	<0.000605	0.000181 J	<0.000128	<0.000116 J4	<0.000192
	MW-113	Oct-20			<0.00394	0.00147 J	<0.00239	<0.0565	**0.368**	<0.000680	<0.000645	<0.00303	0.00185 JB	<0.000640	<0.000580	<0.000960
	MW-113	Oct-20	FD		<0.000787	0.00191	<0.000478	<0.0113	**0.428**	<0.000136	<0.000129	<0.000605	0.000234 JB	<0.000128	<0.000116	<0.000192
	MW-113	Apr-21			<0.00394	0.00120 J	<0.00239	<0.0565	**0.0272**	<0.000680	<0.000645	<0.00303	<0.000481	<0.000640	<0.000580	<0.000960
	MW-113	Apr-21	FD		<0.000787 J4	0.00382	<0.000478	<0.0113	**0.0417**	<0.000136	<0.000129 J4	<0.000605	0.000140 J	<0.000128	<0.000116	<0.000192 J4
	MW-113	Sep-21			<0.0394	<0.00600	<0.0239	<0.565	**3.43**	<0.00680	<0.00645	<0.0303	<0.00481	<0.00640	<0.00580	<0.00960
	MW-113	Sep-21	FD		<0.0197	0.00630 J	<0.0120	<0.282	**3.68**	<0.00340	<0.00322	<0.0151	<0.00241	<0.00320	<0.00290	<0.00480
	MW-125	Apr-19			<0.00382	<0.000350	<0.00214	<0.0100 J4	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-125	Oct-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-125	Jun-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116 J4	<0.000192
	MW-125	Oct-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-125	Apr-21			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-125	Sep-21			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	0.000102 J	<0.000128	<0.000116	<0.000192
	MW-126A	Apr-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866 J3	<0.000275	<0.000379	<0.000348	<0.000453
	MW-126A	Oct-19			<0.00382	<0.000350	<0.00214	<0.0100	**0.170**	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-126A	Jun-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116 J4	<0.000192
	MW-126A	Oct-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605 J4	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-126B	Apr-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866 J3	<0.000275	<0.000379	<0.000348	<0.000453
	MW-126B	Oct-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-126B	Jun-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116 J4	<0.000192
	MW-126B	Oct-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605 J4	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-126B	Apr-21			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-126B	Sep-21			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-127	Oct-17			<0.00382	<0.000350	<0.00214	<0.0100	**0.462**	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-127	Apr-18			<0.0764	<0.00700	<0.0428	<0.200	**1.18**	<0.00760	<0.00938	<0.0173	<0.00550	<0.00758	<0.00696	<0.00906
	MW-127	Oct-18			<0.0764	<0.00700	<0.0428	<0.200	**1.15**	<0.00760	<0.00938	<0.0173	<0.00550	<0.00758	<0.00696	<0.00906 J4
	MW-127	Apr-19			<0.0764	<0.00700	<0.0428	<0.200	**1.65**	<0.00760	<0.00938	<0.0173 J3	<0.00550	<0.00758	<0.00696	<0.00906
	MW-128	Oct-17			<0.00382	<0.000350	<0.00214	<0.0100	**0.0701**	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-128	Apr-18			<0.0764	<0.00700	<0.0428	<0.200	**0.122**	<0.00760	<0.00938	<0.0173	<0.00550	<0.00758	<0.00696	<0.00906
	MW-128	Oct-18			<0.0764	<0.00700	<0.0428	<0.200	**0.729**	<0.00760	<0.00938	<0.0173	<0.00550	<0.00758	<0.00696	<0.00906
	MW-128	Apr-19			<0.0764	<0.00700	<0.0428	<0.200 J4	**0.643**	<0.00760	<0.00938	<0.0173	<0.00550	<0.00758	<0.00696	<0.00906
	MW-129	Apr-16			<0.00382	<0.000350	<0.00214	<0.0100	<0.0166	<0.000380	<0.000469	<0.000866	0.000295 J	<0.000379	<0.000348	<0.000453
	MW-129	Oct-16			<0.00382	<0.000350	<0.00214	<0.0100	**0.00791**	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-129	Apr-17			<0.00382	<0.000350	<0.00214	<0.0100	0.00299	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-129	Apr-18			<0.00382	<0.000350	<0.00214	<0.0100	**0.00731**	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453

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Appendix C, Table C.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2020 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Volatile Organic Compounds											
				Analyte:	2-Hexanone (Methyl N-Butyl Ketone)	4-Isopropyl-toluene (p-Cymene)	4-Methyl-2-pentanone	Acetone	Benzene	Bromo-dichloro-methane	Bromoform (Tribromo-methane)	Bromo-methane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL:	---	---	1.24	14.1	0.00500	0.0800	---	0.00754	0.810	0.00500	0.100	20.9
				CGWSL Source:	---	---	NMED TW	TMED TW	WQCC HH	USEPA MCL	---	NMED TW	NMED TW	WQCC HH	USEPA MCL	NMED TW
Area	Well ID	Date	Dup													
Field East of Refinery	MW-130	Apr-19			<0.00382	<0.000350	<0.00214	0.0116 J	0.000351 J	<0.000380	<0.000469	<0.000866 J3	<0.000275	<0.000379	<0.000348	<0.000453
	MW-130	Oct-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-130	Jun-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	0.000332 JB	<0.000128	<0.000116	<0.000192
	MW-130	Oct-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-130	Apr-21			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-130	Sep-21			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-131	Apr-17			<0.00382	0.000554 J	<0.00214	<0.0100	**3.09**	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-131	Oct-17			<0.00382	0.000701 J	<0.00214	<0.0100	**1.39**	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-131	Oct-19			<0.00382	0.00141	<0.00214	<0.0100	**0.796**	<0.000380	<0.000469	<0.000866	<0.0138	<0.000379	<0.000348	<0.000453
	MW-131	Jun-20			<0.0394	<0.00600	<0.0239	<0.565	**0.907**	<0.00680	<0.00645	<0.0303	<0.00481	<0.00640	<0.00580	<0.00960
	MW-133	Nov-14			<0.380	<0.0350	<0.210	<1.00	**0.620**	<0.0380	<0.0470	<0.0870	<0.0280	<0.0380	<0.0350	<0.0450
	MW-133	Apr-15			<0.380	<0.0350	<0.210	<1.00	**0.788**	<0.0380	<0.0470	<0.0870	<0.0280	<0.0380	<0.0350	<0.0450
	MW-134	Apr-19			<0.00382	<0.000350	<0.00214	<0.0100	0.000947 J	<0.000380	<0.000469	<0.000866 J3	<0.000275	<0.000379	<0.000348	<0.000453
	MW-134	Apr-19	FD		<0.00382	<0.000350	<0.00214	<0.0100	0.00279	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-134	Oct-19			<0.00382	<0.000350	<0.00214	<0.0100	0.000392 J	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-134	Oct-19	FD		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-134	Jun-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	0.000449 JB	<0.000128	<0.000116	<0.000192
	MW-134	Jun-20	FD		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-134	Oct-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605 J4	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-134	Oct-20	FD		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-134	Apr-21			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-134	Apr-21	FD		<0.000787 J4	<0.000120	<0.000478	<0.0113	0.000102 J	<0.000136	<0.000129 J4	<0.000605	0.000147 J	<0.000128	<0.000116	<0.000192 J4
	MW-134	Sep-21			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-134	Sep-21	FD		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-135	Apr-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866 J3	<0.000275	<0.000379	<0.000348	<0.000453
	MW-135	Oct-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-135	Jun-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	0.000301 JB	<0.000128	<0.000116	<0.000192
	MW-135	Oct-20			<0.000787	<0.000120	<0.000478	<0.0113	0.00250	<0.000136	<0.000129	<0.000605	0.000188 JB	<0.000128	<0.000116	<0.000192
	MW-135	Apr-21			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-135	Sep-21			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	0.000131 J	<0.000128	<0.000116	<0.000192
	MW-145	Oct-20			<0.000787	<0.000120	<0.000478	<0.0113 J4	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-145	Oct-20	FD		<0.000787	<0.000120	<0.000478	<0.0113 J4	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-145	Apr-21			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-145	Sep-21			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-146	Oct-20			<0.000787	<0.000120	<0.000478	<0.0113 J4	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-146	Apr-21			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-146	Sep-21			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-146	Sep-21	FD		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-147	Oct-20			<0.000787	<0.000120	<0.000478	<0.0113 J4	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-147	Apr-21			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-147	Sep-21			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-148	Oct-20			<0.000787	<0.000120	<0.000478	<0.0113 J4	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-148	Apr-21			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-148	Sep-21			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	RA-4196	Apr-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	RA-4196	Oct-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	RA-4196	Jun-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	0.000840 JB	<0.000128	<0.000116	<0.000192
	RA-4196	Oct-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941 Q	<0.000136	<0.000129	<0.000605	0.000179 JB	<0.000128	<0.000116	<0.000192
	RA-4798	Apr-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	RA-4798	Oct-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	RA-4798	Jun-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	0.000356 JB	<0.000128	<0.000116	<0.000192
	RA-4798	Oct-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941 Q	<0.000136	<0.000129	<0.000605	0.000185 JB	<0.000128	<0.000116	<0.000192
	RA-4798	Apr-21			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	RA-4798	Sep-21			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	RW-12R	Apr-17			<0.0191	0.00214 J	<0.0107	<0.0500	**0.335**	<0.00190	<0.00234	<0.00433	0.00142 J	<0.00190	<0.00174	<0.00226
	RW-12R	Apr-18			<0.00382	0.000372 J	<0.00214	0.0352 J	**0.0358**	<0.000380	<0.000469	<0.000866	0.00104	<0.000379	<0.000348	<0.000453
	RW-12R	Apr-19			<0.00382	<0.000350	<0.00214	<0.0100 J4	**0.0764**	<0.000380	<0.000469	<0.000866	0.00155	<0.000379	<0.000348	<0.000453
	RW-12R	Jun-20			<0.000787	0.000352 J	0.00567 J	<0.0113	**0.154**	<0.000136	<0.000129	<0.000605	0.00118 B	<0.000128	<0.000116	<0.000192
	RW-13R	Apr-16			<0.00382	0.000561 J	<0.00214	<0.0100	**0.878**	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	RW-13R	Apr-18			<0.00382	0.00134	<0.00214	0.0281 J	**0.0770**	<0.000380	<0.000469	<0.000866	0.000455 J	<0.000379	<0.000348	<0.000453
	RW-18A	Apr-17			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	RW-18A	Apr-18			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	RW-18A	Apr-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866 J3	<0.000275	<0.000379	<0.000348	<0.000453
	RW-18A	Jun-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	RW-20	Apr-15			<0.0380	0.00401 J	<0.0210	<0.100	**1.87**	<0.00380	<0.00470	<0.00870	<0.00280	<0.00380	<0.00350	<0.00450
	RW-22	Apr-15			<0.0380	0.00521 J	<0.0210	<0.100	**4.07**	<0.00380	<0.00470	<0.00870	<0.00280	<0.00380	<0.00350	<0.00450
NCL	MW-18	Apr-18			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-18	Apr-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-18	Jun-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-18	Apr-21			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-45	Apr-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-45	Oct-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-45	Jun-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-45	Oct-20			<0.000787	<0.000120	<0.000478	<0.0113 J3	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-45	Apr-21			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-45	Sep-21			<0.000787	<0.000120	<0.000478	<0.0113	0.000219 J	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-53	Apr-16			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-53	Apr-17			<0.00382	<0.000350	<0.00214	<0.0100 J4	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-53	Apr-18			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-53	Apr-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-53R	Oct-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-53R	Apr-21			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-54A	Apr-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-54A	Oct-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-54A	Jun-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-54A	Oct-20			<0.000787	<0.000120	<0.000478	<0.0113	0.000171 J	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-54A	Apr-21			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-54A	Sep-21			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-54B	Apr-15			<0.00380	<0.000350	<0.00210	0.0128 J	<0.000330	<0.000380	<0.000470	<0.000870	<0.000280	<0.000380	<0.000350	<0.000450
	MW-54B	Apr-17			<0.00382	<0.000350	<0.00214	<0.0100 J4	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-54B	Apr-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-54B	Apr-21			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-55	Apr-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-55	Oct-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-55	Jun-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-55	Oct-20			<0.00787	<0.00120	<0.00478	<0.113	<0.000941	<0.00136	<0.00129	<0.00605	<0.000962	<0.00128	<0.00116	<0.00192
	MW-55	Apr-21			<0.00787	<0.00120	<0.00478	<0.113	<0.000941	<0.00136	<0.00129	<0.00605	<0.000962	<0.00128	<0.00116	<0.00192
	MW-55	Sep-21			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-56	Apr-18			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-56	Apr-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-56	Jun-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-56	Apr-21			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-108	Apr-19			<0.0191	0.00237 J	<0.0107	<0.0500	**0.328**	<0.00190	<0.00234	<0.00433	0.00170 J	<0.00190	<0.00174	<0.00226
	MW-108	Oct-19			<0.0191	0.00251 J	<0.0107	<0.0500	**0.301**	<0.00190	<0.00234	<0.00433	<0.00138	<0.00190	<0.00174	<0.00227
	MW-108	Jun-20			<0.00394	0.00115 J	<0.00239	<0.0565	**0.235**	<0.000680	<0.000645	<0.00303	0.000980 JB	<0.000640	<0.000580	<0.000960
	MW-108	Oct-20			<0.00394	<0.000600	<0.00239	<0.0565	**0.100**	<0.000680	<0.000645	<0.00303	<0.000481	<0.000640	<0.000580	<0.000960
	MW-108	Apr-21			<0.00394	0.000781 J	<0.00239	<0.0565	**0.200**	<0.000680	<0.000645	<0.00303	0.000748 J	<0.000640	<0.000580	<0.000960
	MW-108	Sep-21			<0.00787	<0.00120	<0.00478	<0.113	**0.141**	<0.00136	<0.00129	<0.00605	<0.000962	<0.00128	<0.00116	<0.00192

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Appendix C, Table C.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2020 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

Analyte Group:				Volatile Organic Compounds												
			Analyte:	2-Hexanone (Methyl N-Butyl Ketone)	4-Isopropyl-toluene (p-Cymene)	4-Methyl-2-pentanone	Acetone	Benzene	Bromo-dichloro-methane	Bromoform (Tribromo-methane)	Bromo-methane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane
			Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
			CGWSL:	---	---	1.24	14.1	0.00500	0.0800	---	0.00754	0.810	0.00500	0.100	20.9
			CGWSL Source:	---	---	NMED TW	TMED TW	WQCC HH	USEPA MCL	---	NMED TW	NMED TW	WQCC HH	USEPA MCL	NMED TW
Area	Well ID	Date	Dup												
NCL	NCL-31	Apr-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	NCL-31	Oct-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	NCL-31	Jun-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	NCL-31	Oct-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	NCL-31	Apr-21		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	NCL-31	Sep-21		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	NCL-32	Apr-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	NCL-32	Oct-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	NCL-32	Jun-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	NCL-32	Oct-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	NCL-32	Apr-21		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	NCL-32	Sep-21		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	NCL-33	Apr-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	NCL-33	Oct-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	NCL-33	Jun-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	NCL-33	Oct-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	NCL-33	Apr-21		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	NCL-33	Sep-21		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	NCL-34A	Oct-18		<0.0382	<0.00350	<0.0214	<0.100	**1.11**	<0.00380	<0.00469	<0.00866	0.0105 B	<0.00379	<0.00348	<0.00453
	NCL-34A	Apr-19		<0.0764	<0.00700	<0.0428	<0.200	**0.479**	<0.00760	<0.00938	<0.0173	<0.00550	<0.00758	<0.00696	<0.00906
	NCL-34A	Oct-19		<0.0191	0.00219 J	<0.0107	<0.0500	**0.562**	<0.00190	<0.00234	<0.00433	<0.00138	<0.00190	<0.00174	<0.00227
	NCL-34A	Jun-20		<0.0157	<0.00240	<0.00956	<0.226	**1.10**	<0.00272	<0.00258	<0.0121	<0.00192	<0.00256	<0.00232	<0.00384
	NCL-44	Apr-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	NCL-44	Oct-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	NCL-44	Jun-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	NCL-44	Oct-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	NCL-44	Apr-21		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	NCL-44	Sep-21		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	NCL-49	Apr-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	NCL-49	Apr-19	FD	<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	NCL-49	Oct-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	NCL-49	Oct-19	FD	<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	NCL-49	Jun-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	NCL-49	Jun-20	FD	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	NCL-49	Oct-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	NCL-49	Oct-20	FD	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	NCL-49	Apr-21		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	NCL-49	Apr-21	FD	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	NCL-49	Sep-21		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	NCL-49	Sep-21	FD	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
North Refinery	MW-23	Apr-19		<0.382	<0.0350	<0.214	<1.00	**5.52**	<0.0380	<0.0469	<0.0866	<0.0275	<0.0379	<0.0348	<0.0453
	MW-23	Oct-19		<0.0382	<0.00350	<0.0214	<0.100	**1.42**	<0.00380	<0.00469	<0.00866	<0.00275	<0.00379	<0.00348	<0.00453
	MW-23	Jun-20		<0.00787	<0.00120	<0.00478	<0.113	**2.68**	<0.00136	<0.00129	<0.00605	<0.000962	<0.00128	<0.00116	<0.00192
	MW-23	Oct-20		<0.00787	<0.00120	<0.00478	<0.113	**0.915**	<0.00136	<0.00129	<0.00605	<0.000962	<0.00128	<0.00116	<0.00192
	MW-29	Apr-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-29	Oct-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-29	Jun-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	0.000212 J	<0.000128	<0.000116	<0.000192
	MW-29	Oct-20		<0.000787	<0.000120	<0.000478	<0.0113	0.00158	<0.000136	<0.000129	<0.000605	0.000298 JB	<0.000128	<0.000116	<0.000192
	MW-29	Apr-21		<0.000787 J4	<0.000120	<0.000478	<0.0113	0.0000994 J	<0.000136	<0.000129 J4	<0.000605	0.000267 J	<0.000128	<0.000116	<0.000192 J4
	MW-29	Sep-21		<0.000787	<0.000120	<0.000478	<0.0113	0.000196 J	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-39	Apr-19		<0.00382	<0.000350	<0.00214	<0.0100	**0.0314**	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-39	Oct-19		<0.00382	<0.000350	<0.00214	<0.0100	**0.0271**	<0.000380	<0.000469	<0.000866	0.000700 J	<0.000379	<0.000348	<0.000453
	MW-39	Jun-20		0.00100 J	0.000516 J	<0.000478	<0.0113	**0.0289**	<0.000136	<0.000129	<0.000605	0.000474 J	<0.000128	<0.000116 J4	<0.000192
	MW-39	Oct-20		<0.000787	0.000315 J	<0.000478	<0.0113	0.00397	<0.000136	<0.000129	<0.000605 J4	0.000500 J	<0.000128	<0.000116	<0.000192
	MW-40	Apr-17		<0.00382	0.000356 J	<0.00214	<0.0100	**0.00857**	<0.000380	<0.000469	<0.000866	0.00128	<0.000379	<0.000348	<0.000453
	MW-40	Apr-18		<0.00382	0.000376 J	0.00447 J	0.0269 J	0.000769 J	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-40	Apr-19		<0.00382	<0.000350	<0.00214	<0.0100	**0.0192**	<0.000380	<0.000469	<0.000866	0.00113	<0.000379	<0.000348	<0.000453
	MW-40	Jun-20		<0.000787	0.000184 J	<0.000478	<0.0113	0.000284 J	<0.000136	<0.000129	<0.000605	0.000625 J	<0.000128	<0.000116	<0.000192
	MW-41	Apr-18		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	0.000311 J	<0.000379	<0.000348	<0.000453
	MW-41	Apr-19		<0.00382	<0.000350	<0.00214	<0.0100	**0.00758**	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-41	Jun-20		<0.000787	<0.000120	<0.000478	<0.0113	**0.0173**	<0.000136	<0.000129	<0.000605	0.000737 J	<0.000128	<0.000116	<0.000192
	MW-41	Apr-21		<0.000787 J4	<0.000120	<0.000478	<0.0113	**0.00922**	<0.000136	<0.000129 J4	<0.000605	0.000170 J	<0.000128	<0.000116	<0.000192 J4
	MW-42	Apr-18		<0.00382	<0.000350	<0.00214	<0.0100	**0.0488**	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-42	Apr-19		<0.0191	<0.00175	<0.0107	<0.0500	**0.164**	<0.00190	<0.00234	<0.00433	<0.00138	<0.00190	<0.00174	<0.00226
	MW-42	Jun-20		<0.00394	<0.000600	<0.00239	<0.0565	**0.109**	<0.000680	<0.000645	<0.00303	<0.000481	<0.000640	<0.000580	<0.000960
	MW-42	Apr-21		<0.00394 J4	<0.000600	<0.00239	<0.0565	**0.00740**	<0.000680	<0.000645 J4	<0.00303	0.00127 J	<0.000640	<0.000580	<0.000960 J4
	MW-43	Apr-19		<0.764	<0.0700	<0.428	<2.00	**6.22**	<0.0760	<0.0938	<0.173	<0.0550	<0.0758	<0.0696	<0.0906
	MW-43	Oct-19		<0.764	<0.0700	<0.428	<2.00	**5.74**	<0.0760	<0.0938	<0.173	<0.0550	<0.0758	<0.0696	<0.0906
	MW-43	Jun-20		<0.0157	0.00337 J	<0.00956	<0.226	**3.09**	<0.00272	<0.00258	<0.0121	<0.00192	<0.00256	<0.00232 J4	<0.00384
	MW-43	Oct-20		<0.0394	<0.00600	<0.0239	<0.565	**9.06**	<0.00680	<0.00645	<0.0303	<0.00481	<0.00640	<0.00580	<0.00960
	MW-59	Apr-17		<0.00382	<0.000350	<0.00214	<0.0100	0.00218	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-59	Apr-18		<0.00382	<0.000350	<0.00214	<0.0100	0.00105	<0.000380	<0.000469	<0.000866	0.000371 J	<0.000379	<0.000348	<0.000453
	MW-59	Apr-19		<0.00382	<0.000350	<0.00214	<0.0100 J4	0.000519 J	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-59	Jun-20		<0.000787	<0.000120	<0.000478	<0.0113	0.00112	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-60	Apr-19		<0.00382	<0.000350	<0.00214	<0.0100 J4	0.00434	<0.000380	<0.000469	<0.000866	0.000833 J	<0.000379	<0.000348	<0.000453
	MW-60	Apr-19	FD	<0.00382	<0.000350	<0.00214	<0.0100 J4	0.00207	<0.000380	<0.000469	<0.000866	0.000573 J	<0.000379	<0.000348	<0.000453
	MW-60	Oct-19		<0.00382	<0.000350	<0.00214	<0.0100	0.000658 J	<0.000380	<0.000469	<0.000866	0.00127	<0.000379	<0.000348	<0.000453
	MW-60	Oct-19	FD	<0.00382	<0.000350	<0.00214	<0.0100	0.000602 J	<0.000380	<0.000469	<0.000866	0.00168 B	<0.000379	<0.000348	<0.000453
	MW-60	Jun-20		<0.000787	<0.000120	<0.000478	<0.0113	0.00187	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-60	Jun-20	FD	<0.000787	<0.000120	<0.000478	<0.0113	0.00390	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-60	Oct-20		<0.000787	<0.000120	<0.000478	<0.0113	0.00231	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-60	Oct-20	FD	<0.000787	<0.000120	<0.000478	<0.0113	0.00279 B	<0.000136	<0.000129	<0.000605	0.000755 JB	<0.000128	<0.000116	<0.000192
	MW-61	Apr-19		<0.191	<0.0175	<0.107	<0.500 J4	**1.59**	<0.0190	<0.0234	<0.0433	<0.0138	<0.0190	<0.0174	<0.0226
	MW-61	Oct-19		<0.191	<0.0175	<0.107	<0.500	**0.835**	<0.0190	<0.0235	<0.0433	0.0511	<0.0190	<0.0174	<0.0227
	MW-61	Jun-20		<0.0394	<0.00600	<0.0239	<0.565	**1.60**	<0.00680	<0.00645	<0.0303	<0.00481	<0.00640	<0.00580	<0.00960
	MW-61	Oct-20		<0.0394	0.00659 J	<0.0239	<0.565	**1.60**	<0.00680	<0.00645	<0.0303	0.00858 J	<0.00640	<0.00580	<0.00960
	MW-61	Apr-21		<0.0394	<0.00600	<0.0239	<0.565	**1.29**	<0.00680	<0.00645	<0.0303	<0.00481	<0.00640	<0.00580	<0.00960
	MW-61	Sep-21		<0.0394	0.00703 J	<0.0239	<0.565	**1.62**	<0.00680	<0.00645	<0.0303	<0.00481	<0.00640	<0.00580	<0.00960
	MW-62	Apr-19		<0.0764	<0.00700	<0.0428	<0.200	**1.87**	<0.00760	<0.00938	<0.0173	<0.00550	<0.00758	<0.00696	<0.00906
	MW-62	Oct-19		<0.0764	<0.00700	<0.0428	<0.200	**1.77**	<0.00760	<0.00938	<0.0173	<0.00550	<0.00758	<0.00696	<0.00906
	MW-62	Jun-20		<0.0157	<0.00240	<0.00956	<0.226	**1.09**	<0.00272	<0.00258	<0.0121	<0.00192	<0.00256	<0.00232	<0.00384
	MW-62	Oct-20		<0.0157	0.00397 J	<0.00956	<0.226	**1.24**	<0.00272	<0.00258	<0.0121	0.00520 J	<0.00256	<0.00232	<0.00384
	MW-62	Sep-21		<0.0394	0.0371 J	<0.0239	<0.565	**2.11**	<0.00680	<0.00645	<0.0303	<0.00481	<0.00640	<0.00580	<0.00960
	MW-62R	Oct-20		<0.000787	0.00274	<0.000478	<0.0113	**1.92**	<0.000136	<0.000129	<0.000605	0.00126	<0.000128	<0.000116	<0.000192
	MW-62R	Apr-21		<0.0394	<0.00600	<0.0239	<0.565	**0.451**	<0.00680	<0.00645	<0.0303	<0.00481	<0.00640	<0.00580	<0.00960
	MW-67	Oct-17		<0.00382	0.000487 J	<0.00214	<0.0100	**0.130**	<0.000380	<0.000469	<0.000866	0.000547 J	<0.000379	<0.000348	<0.000453
	MW-67	Apr-18		<0.0191	0.00191 J	<0.0107	<0.0500	**0.147**	<0.00190	<0.00234	<0.00433	<0.00138	<0.00190	<0.00174	<0.00226
	MW-67	Oct-18		<0.00382	0.000513 J	<0.00214	<0.0100	0.00480	<0.000380	<0.000469	<0.000866	0.000465 J	<0.000379	<0.000348	<0.000453
	MW-67	Apr-19		<0.0191	<0.00175	<0.0107	<0.0500	**0.122**	<0.00190	<0.00234	<0.00433	<0.00138	<0.00190	<0.00174	<0.00226

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Appendix C, Table C.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2020 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Volatile Organic Compounds											
				Analyte:	2-Hexanone (Methyl N-Butyl Ketone)	4-Isopropyl-toluene (p-Cymene)	4-Methyl-2-pentanone	Acetone	Benzene	Bromo-dichloro-methane	Bromoform (Tribromo-methane)	Bromo-methane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL:	---	---	1.24	14.1	0.00500	0.0800	---	0.00754	0.810	0.00500	0.100	20.9
				CGWSL Source:	---	---	NMED TW	TMED TW	WQCC HH	USEPA MCL	---	NMED TW	NMED TW	WQCC HH	USEPA MCL	NMED TW
Area	Well ID	Date	Dup													
North Refinery	MW-90	Apr-19			<0.00382	0.00153	<0.00214	<0.0100	0.00125	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-90	Oct-19			<0.00382	<0.000350	<0.00214	<0.0100	0.00267	<0.000380	<0.000469	<0.000866	0.00139	<0.000379	<0.000348	<0.000453
	MW-90	Jun-20			<0.000787	<0.000120	<0.000478	<0.0113	0.00305	<0.000136	<0.000129	<0.000605	0.000600 J	<0.000128	<0.000116	<0.000192
	MW-90	Oct-20			<0.000787	<0.000120	<0.000478	<0.0113	0.00334	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-90	Apr-21			<0.000787	<0.000120	<0.000478	<0.0113	0.00164	<0.000136	<0.000129	<0.000605	0.000200 J	<0.000128	<0.000116	<0.000192
	MW-90	Sep-21			<0.00787	<0.00120	<0.00478	<0.113	**0.00730 J**	<0.00136	<0.00129	<0.00605	<0.000962	<0.00128	<0.00116	<0.00192
	MW-91	Oct-18			<0.382	<0.0350	<0.214	<1.00	**2.86**	<0.0380	<0.0469	<0.0866	<0.0275	<0.0379	<0.0348	<0.0453
	MW-91	Apr-19			<0.382	<0.0350	<0.214	<1.00	**2.89**	<0.0380	<0.0469	<0.0866	<0.0275	<0.0379	<0.0348	<0.0453
	MW-91	Oct-19			<0.382	<0.0350	<0.214	<1.00	**4.07**	<0.0380	<0.0469	<0.0866	<0.0275	<0.0379	<0.0348	<0.0453
	MW-91	Jun-20			<0.0787	<0.0120	<0.0478	<1.13	**4.12**	<0.0136	<0.0129	<0.0605	0.0254 J	<0.0128	<0.0116	<0.0192
	MW-92	Apr-16			<0.00382	0.00344	<0.00214	<0.0100	**2.87**	<0.000380	<0.000469	<0.000866	0.000589 J	<0.000379	<0.000348	<0.000453
	MW-92	Oct-16			<0.0764	<0.00700	<0.0428	<0.200 J3	**2.05**	<0.00760	<0.00938	<0.0173	<0.00550	<0.00758	<0.00696	<0.00906
	MW-93	Apr-17			<0.0955	<0.00875	<0.0535	<0.250	**0.633**	<0.00950	<0.0117	<0.0216 J4	<0.00688	<0.00948	<0.00870	<0.0113
	MW-93	Apr-18			<0.00382	0.00268	<0.00214	<0.0100	**0.857**	<0.000380	<0.000469	<0.000866	0.00180	<0.000379	<0.000348	<0.000453
	MW-93	Apr-19			<0.00382	0.00345	<0.00214	<0.0100	**0.673**	<0.000380	<0.000469	<0.000866	0.00136	<0.000379	<0.000348	<0.000453
	MW-93	Jun-20			<0.0157	<0.00240	<0.00956	<0.226	**1.21**	<0.00272	<0.00258	<0.0121	<0.00192	<0.00256	<0.00232	<0.00384
	MW-94	Oct-15			<0.0382	0.0301	<0.0214	<0.100	**0.339**	<0.00380	<0.00469	<0.00866	0.00445 J	<0.00379	<0.00348	<0.00453
	MW-94	Apr-16			<0.191	<0.0175	<0.107	<0.500	**0.417**	<0.0190	<0.0234	<0.0433	0.0155 J	<0.0190	<0.0174	<0.0226
	MW-94	Oct-16			<0.0191	0.0163	<0.0107	<0.0500 J3	**0.297**	<0.00190	<0.00234	<0.00433	0.00479 J	<0.00190	<0.00174	<0.00226
	MW-94	Apr-17			<0.0955	0.0477	<0.0535	<0.250	**0.284**	<0.00950	<0.0117	<0.0216 J4	0.0101 J	<0.00948	<0.00870	<0.0113
	MW-95	Apr-17			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-95	Apr-18			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453 J4
	MW-95	Apr-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-95	Jun-20			<0.000787	<0.000120	<0.000478	<0.0113	0.000603 J	<0.000136	<0.000129	<0.000605	0.000192 J	<0.000128	<0.000116	<0.000192
	MW-96	Apr-19			<0.191	<0.0175	<0.107	<0.500	<0.0166	<0.0190	<0.0234	<0.0433	<0.0138	<0.0190	<0.0174	<0.0226
	MW-96	Oct-19			<0.191	<0.0175	<0.107	<0.500	<0.0166	<0.0190	<0.0235	<0.0433	0.0430 JB	<0.0190	<0.0174	<0.0227
	MW-96	Jun-20			<0.197	<0.0300	<0.120	<2.82	<0.0235	<0.0340	<0.0323	<0.151	<0.0241	<0.0320	<0.0290	<0.0480
	MW-96	Oct-20			<0.197	<0.0300	<0.120	<2.82	**0.0424 J**	<0.0340	<0.0323	<0.151	<0.0241	<0.0320	<0.0290	<0.0480
	MW-96	Sep-21			<0.00787	<0.00120	<0.00478	<0.113	0.00122 J	<0.00136	<0.00129	<0.00605	<0.000962	<0.00128	<0.00116	<0.00192
	MW-98	Apr-19			<0.191	<0.0175	<0.107	<0.500	**2.69**	<0.0190	<0.0234	<0.0433	<0.0138	<0.0190	<0.0174	<0.0226
	MW-98	Oct-19			<0.191	0.0216 J	<0.107	<0.500	**1.88**	<0.0190	<0.0235	<0.0433	<0.0138	<0.0190	<0.0174	<0.0227
	MW-98	Jun-20			0.0414 J	0.00660 J	<0.0239	<0.565	**1.74**	<0.00680	<0.00645	<0.0303	0.0181 J	<0.00640	<0.00580 J4	<0.00960
	MW-98	Oct-20			<0.0394	0.0145 J	<0.0239	<0.565	**1.73**	<0.00680	<0.00645	<0.0303	0.0133 J	<0.00640	<0.00580	<0.00960
	MW-98	Apr-21			<0.0394	<0.00600	<0.0239	<0.565	**1.12**	<0.00680	<0.00645	<0.0303	<0.00481	<0.00640	<0.00580	<0.00960
	MW-98	Sep-21			<0.0394	<0.00600	<0.0239	<0.565	**1.20**	<0.00680	<0.00645	<0.0303	<0.00481	<0.00640	<0.00580	<0.00960
	MW-137	Oct-17			<0.764	<0.0700	<0.428	<2.00	**12.5**	<0.0760	<0.0938	<0.173	0.0615 J	<0.0758	<0.0696	<0.0906
	MW-137	Apr-18			<0.764	<0.0700	<0.428	<2.00	**9.63**	<0.0760	<0.0938	<0.173	0.0554 J	<0.0758	<0.0696	<0.0906
	MW-137	Oct-18			<0.764	<0.0700	<0.428	<2.00	**10.6**	<0.0760	<0.0938	<0.173	<0.0550	<0.0758	<0.0696	<0.0906
	MW-137	Apr-19			<0.764	<0.0700	<0.428	<2.00	**7.93**	<0.0760	<0.0938	<0.173	<0.0550	<0.0758	<0.0696	<0.0906
	MW-138	Oct-17			<0.0191	<0.00175	<0.0107	<0.0500	**0.701**	<0.00190	<0.00234	<0.00433	<0.00138	<0.00190	<0.00174	<0.00226
	MW-138	Apr-18			<0.0191	<0.00175	<0.0107	<0.0500	**0.741**	<0.00190	<0.00234	<0.00433	0.00176 J	<0.00190	<0.00174	<0.00226
	MW-138	Oct-18			<0.0191	0.00303 J	<0.0107	<0.0500	**0.628**	<0.00190	<0.00234	<0.00433	<0.00138	<0.00190	<0.00174	<0.00226
	MW-138	Apr-19			<0.0191	0.00509	<0.0107	<0.0500	**0.663**	<0.00190	<0.00234	<0.00433	<0.00138	<0.00190	<0.00174	<0.00226
	RW-1R	Apr-16			<0.00382	<0.000350	<0.00214	<0.0100	**0.426**	<0.000380	<0.000469	<0.000866	0.000422 J	<0.000379	<0.000348	<0.000453
	RW-1	Apr-17			<0.0382	<0.00350	<0.0214	<0.100	**0.696**	<0.00380	<0.00469	<0.00866	0.00277 J	<0.00379	<0.00348	<0.00453
	RW-1	Apr-18			<0.00382	0.00204	<0.00214	<0.0100	**1.52**	<0.000380	<0.000469	<0.000866	0.00134	<0.000379	<0.000348	<0.000453
	RW-1	Apr-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	0.00151	<0.000379	<0.000348	<0.000453
	RW-2	Apr-15			<0.0380 UJ	0.00554 J	<0.0210	0.334 J	**5.34**	<0.00380	<0.00470 UJ	<0.00870	0.00899 J	<0.00380	<0.00350	<0.00450
	RW-2R	Apr-16			<0.191	<0.0175	<0.107	<0.500	**5.86**	<0.0190	<0.0234	<0.0433	0.0186 J	<0.0190	<0.0174	<0.0226
	RW-2	Apr-17			<0.191	<0.0175	<0.107	<0.500	**7.78**	<0.0190	<0.0234	<0.0433 J4	<0.0138	<0.0190	<0.0174	<0.0226
	RW-2	Apr-18			<0.00382	0.00776	<0.00214	<0.0100	**4.68**	<0.000380	<0.000469	<0.000866	0.00224	<0.000379	<0.000348	<0.000453
	RW-7	Apr-17			<0.00382	<0.000350	<0.00214	0.0100 J	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	RW-7	Apr-18			<0.00382	0.000872 J	<0.00214	<0.0100	**0.0319**	<0.000380	<0.000469	<0.000866	0.000556 J	<0.000379	<0.000348	<0.000453 J4
	RW-7	Apr-19			<0.00382	<0.000350	<0.00214	<0.0100	**0.0114**	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	RW-7	Jun-20			<0.000787	<0.000120	<0.000478	<0.0113	0.00487	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	RW-8	Apr-15			<0.0380	<0.00350	<0.0210	<0.100	**0.0412**	<0.00380	<0.00470	<0.00870	<0.00280	<0.00380	<0.00350	<0.00450
	RW-8	Apr-17			<0.00382	0.00735	<0.00214	<0.0100	**0.0718**	<0.000380	<0.000469	<0.000866	0.00138	<0.000379	<0.000348	<0.000453
	RW-9	Apr-18			<0.00382	0.000962 J	<0.00214	0.0433 J	**0.243**	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	RW-9	Apr-19			<0.00382	0.000940 J	<0.00214	<0.0100	**0.0968**	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	RW-9	Jun-20			<0.000787	0.000410 J	<0.000478	<0.0113	0.000141 J	<0.000136	<0.000129	<0.000605	0.000553 J	<0.000128	<0.000116	<0.000192
	RW-9	Apr-21			<0.000787 J4	<0.000120	<0.000478	<0.0113	0.000352 J	<0.000136	<0.000129 J4	<0.000605	0.000609 J	<0.000128	<0.000116	<0.000192 J4
	RW-10	Apr-18			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	RW-10	Apr-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	RW-10	Jun-20			<0.000787	<0.000120	<0.000478	<0.0113	0.000205 J	<0.000136	<0.000129	<0.000605	0.000318 J	<0.000128	<0.000116 J4	<0.000192
	RW-10	Apr-21			<0.000787	<0.000120	<0.000478	<0.0113	0.000378 J	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	RW-16B	Apr-17			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866 J4	<0.000275	<0.000379	<0.000348	<0.000453
	RW-16B	Apr-18			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453 J4
	RW-16B	Apr-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	RW-16B	Jun-20			0.00117 J	<0.000120	<0.000478	0.0228 J	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	RW-17A	Apr-17			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	RW-17A	Apr-18			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	RW-17A	Apr-19			<0.00382	<0.000350	<0.00214	<0.0100 J4	0.000850 J	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	RW-17A	Jun-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
North RO Field	MW-117	Apr-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-117	Oct-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-117	Jun-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-117	Oct-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605 J4	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-117	Apr-21			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-117	Sep-21			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-118	Apr-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-118	Oct-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-118	Jun-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-118	Oct-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605 J4	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-118	Apr-21			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-118	Sep-21			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-119	Apr-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-119	Oct-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-119	Jun-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-119	Oct-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605 J4	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-119	Apr-21			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-119	Sep-21			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	0.000102 J	<0.000128	<0.000116	<0.000192
South Refinery	KWB-2R	Apr-17			<0.00382	<0.000350	<0.00214	<0.0100	**0.0260**	<0.000380	<0.000469	<0.000866	0.000332 J	<0.000379	<0.000348	<0.000453
	KWB-2R	Oct-17			<0.00382	0.00198	<0.00214	<0.0100	**1.12**	<0.000380	<0.000469	<0.000866	0.000367 J	<0.000379	<0.000348	<0.000453
	KWB-2R	Apr-19			<0.00382	0.00160	<0.00214	<0.0100	**0.177**	<0.000380	<0.000469	<0.000866 J3	<0.000275	<0.000379	<0.000348	<0.000453
	KWB-2R	Oct-19			<0.00382	0.00115	<0.00214	<0.0100	**0.920**	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	KWB-5	Oct-17			<0.00382	<0.000350	<0.00214	<0.0100	**0.336**	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	KWB-5	Apr-18			<0.955	<0.0875	<0.535	<2.50	**0.411**	<0.0950	<0.117	<0.216	<0.0688	<0.0948	<0.0870	<0.113
	KWB-5	Oct-18			<0.955	<0.0875	<0.535	<2.50	**0.278**	<0.0950	<0.117	<0.216	<0.0688	<0.0948	<0.0870	<0.113 J4
	KWB-5	Apr-19			<0.955	<0.0875	<0.535	<2.50	**0.425**	<0.0950	<0.117	<0.216 J3	<0.0688	<0.0948	<0.0870	<0.113

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Appendix C, Table C.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2020 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Volatile Organic Compounds											
				Analyte:	2-Hexanone (Methyl N-Butyl Ketone)	4-Isopropyl-toluene (p-Cymene)	4-Methyl-2-pentanone	Acetone	Benzene	Bromo-dichloro-methane	Bromoform (Tribromo-methane)	Bromo-methane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL:	---	---	1.24	14.1	0.00500	0.0800	---	0.00754	0.810	0.00500	0.100	20.9
				CGWSL Source:	---	---	NMED TW	TMED TW	WQCC HH	USEPA MCL	---	NMED TW	NMED TW	WQCC HH	USEPA MCL	NMED TW
Area	Well ID	Date	Dup													
South Refinery	KWB-6	Apr-17			<0.0191	0.00450 J	<0.0107	<0.0500	**4.67**	<0.00190	<0.00234	<0.00433	<0.00138	<0.00190	<0.00174	<0.00226
	KWB-6	Oct-17			<0.00382	0.00825	<0.00214	<0.0100	**3.22**	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	KWB-6	Apr-18			<0.0764	0.00807 J	<0.0428	<0.200	**3.88**	<0.00760	<0.00938	<0.0173	<0.00550	<0.00758	<0.00696	<0.00906
	KWB-6	Oct-18			<0.0764	0.00755 J	<0.0428	<0.200 J3	**2.64**	<0.00760	<0.00938	<0.0173	<0.00550	<0.00758	<0.00696	<0.00906
	MW-28	Apr-19			<0.191	<0.0175	<0.107	<0.500 J4	**1.43**	<0.0190	<0.0234	<0.0433	<0.0138	<0.0190	<0.0174	<0.0226
	MW-28	Oct-19			<0.191	<0.0175	<0.107	<0.500	**1.51**	<0.0190	<0.0235	<0.0433	0.0372 J	<0.0190	<0.0174	<0.0227
	MW-28	Jun-20			<0.00394	0.00154 J	<0.00239	<0.0565	**0.397**	<0.000680	<0.000645	<0.00303	0.000607 J	<0.000640	<0.000580 J4	<0.000960
	MW-28	Oct-20			<0.00394	0.00110 J	<0.00239	<0.0565	**0.362**	<0.000680	<0.000645	<0.00303	<0.000481	<0.000640	<0.000580	<0.000960
	MW-48	Apr-18			<0.955	<0.0875	<0.535	<2.50	**14.9**	<0.0950	<0.117	<0.216	<0.0688	<0.0948	<0.0870	<0.113
	MW-48	Oct-18			<0.955	<0.0875	<0.535	<2.50 J3	**7.97**	<0.0950	<0.117	<0.216	<0.0688	<0.0948	<0.0870	<0.113
	MW-48	Apr-19			<0.955	<0.0875	<0.535	<2.50	**4.87**	<0.0950	<0.117	<0.216 J3	<0.0688	<0.0948	<0.0870	<0.113
	MW-48	Oct-19			<0.955	<0.0875	<0.535	<2.50	**5.04**	<0.0950	<0.117	<0.217	<0.0688	<0.0948	<0.0870	<0.113
	MW-50	Apr-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-50	Oct-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-50	Jun-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-50	Oct-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605 J4	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-50	Apr-21			<0.000787	<0.000120	<0.000478	<0.0113	0.000515 J	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-50	Sep-21			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-52	Apr-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866 J3	<0.000275	<0.000379	<0.000348	<0.000453
	MW-52	Oct-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-52	Jun-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	0.000318 JB	<0.000128	<0.000116	<0.000192
	MW-52	Oct-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-52	Apr-21			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-52	Sep-21			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-64	Apr-19			<0.0764	<0.00700	<0.0428	<0.200	**33.6**	<0.00760	<0.00938	<0.0173	<0.00550	<0.00758	<0.00696	<0.00906
	MW-64	Oct-19			<0.0955	<0.00875	<0.0535	<0.250	**35.7**	<0.00950	<0.0117	<0.0217	<0.00688	<0.00948	<0.00870	<0.0113
	MW-64	Jun-20			<0.394	<0.0600	<0.239	<5.65	**27.5**	<0.0680	<0.0645	<0.303	<0.0481	<0.0640	<0.0580 J4	<0.0960
	MW-64	Oct-20			<0.394	<0.0600	<0.239	<5.65	**27.2**	<0.0680	<0.0645	<0.303	<0.0481	<0.0640	<0.0580	<0.0960
	MW-64	Apr-21			<0.394	<0.0600	<0.239	<5.65	**27.1**	<0.0680	<0.0645	<0.303	<0.0481	<0.0640	<0.0580	<0.0960
	MW-64	Sep-21			<0.0394	<0.00600	<0.0239	<0.565	**25.1**	<0.00680	<0.00645	<0.0303	<0.00481	<0.00640	<0.00580	<0.00960
	MW-65	Apr-18			<0.382	<0.0350	<0.214	<1.00	**4.39**	<0.0380	<0.0469	<0.0866	<0.0275	<0.0379	<0.0348	<0.0453
	MW-65	Oct-18			<0.382	<0.0350	<0.214	<1.00	**2.84**	<0.0380	<0.0469	<0.0866	<0.0275	<0.0379	<0.0348	<0.0453 J4
	MW-65	Apr-19			<0.382	<0.0350	<0.214	<1.00	**5.45**	<0.0380	<0.0469	<0.0866	<0.0275	<0.0379	<0.0348	<0.0453
	MW-65	Oct-19			<0.382	<0.0350	<0.214	<1.00	**6.07**	<0.0380	<0.0469	<0.0866	<0.0275	<0.0379	<0.0348	<0.0453
	MW-66	Apr-19			<0.0955	<0.00875	<0.0535	<0.250 J4	**0.916**	<0.00950	<0.0117	<0.0216	<0.00688	<0.00948	<0.00870	<0.0113
	MW-66	Oct-19			<0.0955	<0.00875	<0.0535	<0.250	**1.24**	<0.00950	<0.0117	<0.0217	<0.00688	<0.00948	<0.00870	<0.0113
	MW-66	Jun-20			<0.000787	<0.000120	<0.000478	<0.0113	**1.18**	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-66	Oct-20			<0.00787	<0.00120	<0.00478	<0.113	**0.965**	<0.00136	<0.00129	<0.00605	<0.000962	<0.00128	<0.00116	<0.00192
	MW-66	Apr-21			<0.00787	<0.00120	<0.00478	<0.113	**0.701**	<0.00136	<0.00129	<0.00605	<0.000962	<0.00128	<0.00116	<0.00192
	MW-99	Oct-18			<0.382	<0.0350	<0.214	<1.00 J3	**2.54**	<0.0380	<0.0469	<0.0866	<0.0275	<0.0379	<0.0348	<0.0453
	MW-99	Apr-19			<0.382	<0.0350	<0.214	<1.00 J4	**1.67**	<0.0380	<0.0469	<0.0866	<0.0275	<0.0379	<0.0348	<0.0453
	MW-99	Oct-19			<0.382	<0.0350	<0.214	<1.00	**0.233**	<0.0380	<0.0469	<0.0866	<0.0275	<0.0379	<0.0348	<0.0453
	MW-99	Jun-20			<0.00787	0.00193 J	<0.00478	<0.113	**0.414**	<0.00136	<0.00129	<0.00605	0.0193	<0.00128	<0.00116	<0.00192
	MW-101	Apr-19			<0.00382	<0.000350	<0.00214	<0.0100 J4	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-101	Oct-19			<0.00382	<0.000350	<0.00214	<0.0100	0.000430 J	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-101	Jun-20			<0.000787	<0.000120	<0.000478	<0.0113	0.00438	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116 J4	<0.000192
	MW-101	Oct-20			<0.000787	0.000621 J	<0.000478	<0.0113	**2.32**	<0.000136	<0.000129	<0.000605 J4	0.000718 J	<0.000128	<0.000116	<0.000192
	MW-101	Apr-21			<0.0157	<0.00240	<0.00956	<0.226	**0.810**	<0.00272	<0.00258	<0.0121	<0.00192	<0.00256	<0.00232	<0.00384
	MW-101	Sep-21			<0.000787	0.000597 J	<0.000478	<0.0113	**0.687**	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-102	Apr-19			<0.00382	0.00528	<0.00214	<0.0100 J4	**11.0**	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-102	Oct-19			<0.191	<0.0175	<0.107	<0.500	**12.3**	<0.0190	<0.0235	<0.0433	0.0260 J	<0.0190	<0.0174	<0.0227
	MW-102	Jun-20			<0.0787	<0.0120	<0.0478	<1.13	**7.10**	<0.0136	<0.0129	<0.0605	<0.00962	<0.0128	<0.0116	<0.0192
	MW-102	Oct-20			<0.0787	<0.0120	<0.0478	<1.13	**8.72**	<0.0136	<0.0129	<0.0605	<0.00962	<0.0128	<0.0116	<0.0192
	MW-102	Apr-21			<0.0787	<0.0120	<0.0478	<1.13	**7.61**	<0.0136	<0.0129	<0.0605	<0.00962	<0.0128	<0.0116	<0.0192
	MW-102	Sep-21			<0.0394	<0.00600	<0.0239	<0.565	**10.7**	<0.00680	<0.00645	<0.0303	<0.00481	<0.00640	<0.00580	<0.00960
	MW-102	Sep-21	FD		<0.0394	<0.00600	<0.0239	<0.565	**10.8**	<0.00680	<0.00645	<0.0303	<0.00481	<0.00640	<0.00580	<0.00960
	MW-103	Apr-18			<0.00382	<0.000350	<0.00214	<0.0100	**1.75**	<0.000380	<0.000469	<0.000866	0.000406 J	<0.000379	<0.000348	<0.000453
	MW-103	Apr-19			<0.0764	<0.00700	<0.0428	<0.200	**1.39**	<0.00760	<0.00938	<0.0173	<0.00550	<0.00758	<0.00696	<0.00906
	MW-103	Jun-20			<0.0157	<0.00240	<0.00956	<0.226	**1.14**	<0.00272	<0.00258	<0.0121	0.00218 J	<0.00256	<0.00232 J4	<0.00384
	MW-103	Apr-21			<0.0157	<0.00240	<0.00956	<0.226	**1.09**	<0.00272	<0.00258	<0.0121	<0.00192	<0.00256	<0.00232	<0.00384
	MW-104	Apr-19			<0.00382	<0.000350	<0.00214	<0.0100	**0.192**	<0.000380	<0.000469	<0.000866	0.000831 J	<0.000379	<0.000348	<0.000453
	MW-104	Apr-19	FD		<0.00382	<0.000350	<0.00214	<0.0100	**0.190**	<0.000380	<0.000469	<0.000866	0.000791 J	<0.000379	<0.000348	<0.000453
	MW-104	Oct-19			<0.00382	<0.000350	<0.00214	<0.0100	**0.181**	<0.000380	<0.000469	<0.000866	0.000811 J	<0.000379	<0.000348	<0.000453
	MW-104	Oct-19	FD		<0.00382	<0.000350	<0.00214	<0.0100	**0.173**	<0.000380	<0.000469	<0.000866	0.00131 B	<0.000379	<0.000348	<0.000453
	MW-104	Jun-20			<0.000787	<0.000120	<0.000478	<0.0113	**0.0720**	<0.000136	<0.000129	<0.000605	0.000648 J	<0.000128	<0.000116 J4	<0.000192
	MW-104	Jun-20	FD		<0.000787	<0.000120	<0.000478	<0.0113	**0.0660**	<0.000136	<0.000129	<0.000605	0.000403 J	<0.000128	<0.000116 J4	<0.000192
	MW-104	Oct-20			<0.000787	<0.000120	<0.000478	<0.0113	0.00473	<0.000136	<0.000129	<0.000605 J4	0.00229	<0.000128	<0.000116	<0.000192
	MW-104	Oct-20	FD		<0.000787	<0.000120	<0.000478	<0.0113	**0.00631**	<0.000136	<0.000129	<0.000605	0.000721 J	<0.000128	<0.000116	<0.000192
	MW-104	Apr-21			<0.000787	<0.000120	<0.000478	<0.0113	**0.0163**	<0.000136	<0.000129	<0.000605	0.000232 J	<0.000128	<0.000116	<0.000192
	MW-104	Apr-21	FD		<0.000787	<0.000120	<0.000478	<0.0113	**0.0169**	<0.000136	<0.000129	<0.000605	0.000289 J	<0.000128	<0.000116	<0.000192
	MW-104	Sep-21			<0.00394	<0.000600 J4	<0.00239	<0.0565	<0.000471	<0.000680	<0.000645	<0.00303	0.000742 J	<0.000640	<0.000580	<0.000960
	MW-105	Apr-19			<0.00382	0.00474	0.00339 J	<0.0100 J4	**8.07**	<0.000380	<0.000469	<0.000866	0.00219	<0.000379	<0.000348	<0.000453
	MW-105	Oct-19			<0.191	<0.0175	<0.107	<0.500	**4.23**	<0.0190	<0.0235	<0.0433	0.0394 J	<0.0190	<0.0174	<0.0227
	MW-105	Jun-20			<0.0394	<0.00600	<0.0239	<0.565	**7.41**	<0.00680	<0.00645	<0.0303	<0.00481	<0.00640	<0.00580	<0.00960
	MW-105	Oct-20			<0.0394	<0.00600	<0.0239	<0.565	**11.5**	<0.00680	<0.00645	<0.0303	<0.00481	<0.00640	<0.00580	<0.00960
	MW-105	Apr-21			<0.0787	<0.0120	<0.0478	<1.13	**7.07**	<0.0136	<0.0129	<0.0605	<0.00962	<0.0128	<0.0116	<0.0192
	MW-106	Apr-19			<1.91	<0.175	<1.07	<5.00 J4	**5.92**	<0.190	<0.234	<0.433	<0.138	<0.190	<0.174	<0.226
	MW-106	Oct-19			<0.191	<0.0175	<0.107	<0.500	**9.61**	<0.0190	<0.0235	<0.0433	0.0343 J	<0.0190	<0.0174	<0.0227
	MW-106	Jun-20			<0.0787	<0.0120	<0.0478	<1.13	**9.39**	<0.0136	<0.0129	<0.0605	<0.00962	<0.0128	<0.0116	<0.0192
	MW-106	Oct-20			<0.157	<0.0240	<0.0956	<2.26	**14.9**	<0.0272	<0.0258	<0.121	<0.0192	<0.0256	<0.0232	<0.0384
	MW-106	Apr-21			<0.157	<0.0240	<0.0956	<2.26	**9.39**	<0.0272	<0.0258	<0.121	<0.0192	<0.0256	<0.0232	<0.0384
	MW-107	Oct-16			<0.0191	<0.00175	<0.0107	<0.0500	**6.35**	<0.00190	<0.00234	<0.00433	<0.00138	<0.00190	<0.00174	<0.00226
	MW-107	Apr-17			<0.191	<0.0175	<0.107	<0.500	**3.37**	<0.0190	<0.0234	<0.0433 J4	<0.0138	<0.0190	<0.0174	<0.0226
	MW-107	Apr-18			<0.00382	0.000710 J	0.00375 J	<0.0100	**6.55**	<0.000380	<0.000469	<0.000866	0.000332 J	<0.000379	<0.000348	<0.000453
	MW-107	Apr-19			<0.955	<0.0875	<0.535	<2.50 J4	**6.43**	<0.0950	<0.117	<0.216	<0.0688	<0.0948	<0.0870	<0.113
	MW-109	Apr-19			<0.0764	<0.00700	<0.0428	<0.200	**1.03**	<0.00760	<0.00938	<0.0173 J3	<0.00550	<0.00758	<0.00696	<0.00906
	MW-109	Oct-19			<0.0191	<0.00175	<0.0107	<0.0500	**1.11**	<0.00190	<0.00234	<0.00433	<0.00138	<0.00190	<0.00174	<0.00227
	MW-109	Jun-20			<0.00787	<0.00120	<0.00478	<0.113	**1.78**	<0.00136	<0.00129	<0.00605	0.00454 JB	<0.00128	<0.00116	<0.00192
	MW-109	Oct-20			<0.00787	<0.00120	<0.00478	<0.113	**1.11**	<0.00136	<0.00129	<0.00605	<0.000962	<0.00128	<0.00116	<0.00192
	MW-109	Apr-21			<0.00787	<0.00120	<0.00478	<0.113	**0.690**	<0.00136	<0.00129	<0.00605	<0.000962	<0.00128	<0.00116	<0.00192
	MW-109	Sep-21			<0.0197	<0.00300	<0.0120	<0.282	**2.18**	<0.00340	<0.00322	<0.0151	<0.00241	<0.00320	<0.00290	<0.00480

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Appendix C, Table C.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2020 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

Analyte Group:				Volatile Organic Compounds												
Analyte:				2-Hexanone (Methyl N-Butyl Ketone)	4-Isopropyl-toluene (p-Cymene)	4-Methyl-2-pentanone	Acetone	Benzene	Bromo-dichloro-methane	Bromoform (Tribromo-methane)	Bromo-methane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane
Units:				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
CGWSL:				---	---	1.24	14.1	0.00500	0.0800	---	0.00754	0.810	0.00500	0.100	20.9
CGWSL Source:				---	---	NMED TW	TMED TW	WQCC HH	USEPA MCL	---	NMED TW	NMED TW	WQCC HH	USEPA MCL	NMED TW
Area	Well ID	Date	Dup												
South Refinery	MW-110	Apr-19		<0.00382	<0.000350	<0.00214	<0.0100	**0.0117**	<0.000380	<0.000469	<0.000866 J3	<0.000275	<0.000379	<0.000348	<0.000453
	MW-110	Oct-19		<0.00382	<0.000350	<0.00214	<0.0100	0.000530 J	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-110	Jun-20		<0.000787	0.00103	<0.000478	<0.0113	0.00152	<0.000136	<0.000129	<0.000605	0.000346 JB	<0.000128	<0.000116	<0.000192
	MW-110	Oct-20		<0.000787	<0.000120	<0.000478	<0.0113	0.000146 J	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-110	Apr-21		<0.000787	<0.000120	<0.000478	<0.0113	**0.0581**	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-110	Sep-21		<0.000787	<0.000120	<0.000478	<0.0113	0.00427	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-139	Oct-19		<0.00382	<0.000350	<0.00214	<0.0100	0.00153	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-139	Jun-20		<0.000787	<0.000120	<0.000478	<0.0113	0.000275 J	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	0.000626 J	<0.000192
	MW-139	Oct-20		<0.000787	<0.000120	<0.000478	<0.0113	0.000206 J	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-139	Apr-21		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	0.000847 J	<0.000192
	MW-139	Sep-21		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	RA-313	Apr-18		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	RA-313	Apr-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866 J3	<0.000275	<0.000379	<0.000348	<0.000453
	RA-313	Jun-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	0.000433 JB	<0.000128	<0.000116	<0.000192
	RA-313	Apr-21		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	RW-4	Apr-17		<0.0191	<0.00175	<0.0107	0.0509 J	**0.0294**	<0.00190	<0.00234	<0.00433 J4	0.00239 J	<0.00190	<0.00174	<0.00226
	RW-4	Apr-18		<0.00382	<0.000350	<0.00214	<0.0100	**0.00821**	<0.000380	<0.000469	<0.000866	0.000447 J	<0.000379	<0.000348	<0.000453
	RW-4	Apr-19		<0.00382	0.000386 J	<0.00214	<0.0100 J4	**0.0854**	<0.000380	<0.000469	<0.000866	0.00131	<0.000379	<0.000348	<0.000453
	RW-4	Jun-20		<0.000787	0.000341 J	<0.000478	<0.0113	**0.0184**	<0.000136	<0.000129	<0.000605	0.00108 B	<0.000128	<0.000116	<0.000192
	RW-5R	Apr-15		<0.0380	<0.00350	<0.0210	<0.100	**2.92**	<0.00380	<0.00470	<0.00870	<0.00280	<0.00380	<0.00350	<0.00450
	RW-5R	Apr-16		<0.0764	<0.00700	<0.0428	<0.200	**3.48**	<0.00760	<0.00938	<0.0173	<0.00550	<0.00758	<0.00696	<0.00906
	RW-6	Apr-15		<0.0380	<0.00350	<0.0210	<0.100	**0.636**	<0.00380	<0.00470	<0.00870	0.00771 J	<0.00380	<0.00350	<0.00450
	RW-6R	Apr-16		<0.00382	0.000401 J	<0.00214	<0.0100	**0.218**	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	RW-6	Apr-18		<0.00382	0.000996 J	<0.00214	<0.0100	**2.67**	<0.000380	<0.000469	<0.000866	0.000533 J	<0.000379	<0.000348	<0.000453
	RW-6	Apr-19		<0.0764	<0.00700	<0.0428	<0.200 J4	**1.18**	<0.00760	<0.00938	<0.0173	<0.00550	<0.00758	<0.00696	<0.00906
	RW-15C	Apr-17		<0.0955	<0.00875	<0.0535	<0.250	**19.1**	<0.00950	<0.0117	<0.0216	<0.00688	<0.00948	<0.00870	<0.0113
	RW-15C	Apr-18		<0.00382	0.00545	<0.00214	<0.0100	**21.9**	<0.000380	<0.000469	<0.000866	0.000650 JV3	<0.000379	<0.000348	<0.000453
	RW-15C	Apr-19		<0.0382	0.00722 J	<0.0214	<0.100	<0.00331	<0.00380	<0.00469	<0.00866 J3	<0.00275	<0.00379	<0.00348	<0.00453
South RO Field	MW-114	Apr-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-114	Oct-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-114	Jun-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-114	Oct-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-114	Apr-21		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-114	Sep-21		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	0.000102 J	<0.000128	<0.000116	<0.000192
	MW-115	Apr-19		<0.00382	<0.000350	<0.00214	<0.0100 J4	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-115	Oct-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-115	Jun-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-115	Oct-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-115	Apr-21		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-115	Sep-21		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	0.0000992 J	<0.000128	<0.000116	<0.000192
	MW-116	Apr-19		<0.00382	<0.000350	<0.00214	<0.0100 J4	<0.000331	<0.000380	<0.000469	<0.000866	0.000412 J	<0.000379	<0.000348	<0.000453
	MW-116	Oct-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-116	Jun-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-116	Oct-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-116	Apr-21		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-116	Sep-21		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
TEL	MW-49	Apr-19		<0.0191	0.00223 J	<0.0107	<0.0500	**0.400**	<0.00190	<0.00234	<0.00433	0.00256 J	<0.00190	<0.00174	<0.00226
	MW-49	Oct-19		<0.0191	<0.00175	<0.0107	<0.0500	**0.576**	<0.00190	<0.00234	<0.00433	0.00330 J	<0.00190	<0.00174	<0.00227
	MW-49	Jun-20		<0.0157	0.00264 J	<0.00956	<0.226	**0.600**	<0.00272	<0.00258	<0.0121	<0.00192	<0.00256	<0.00232	<0.00384
	MW-49	Oct-20		<0.0157	<0.00240	<0.00956	<0.226	**0.404**	<0.00272	<0.00258	<0.0121	<0.00192	<0.00256	<0.00232	<0.00384
	MW-49	Apr-21		<0.0197	<0.00300	<0.0120	<0.282	**0.280**	<0.00340	<0.00322	<0.0151	<0.00241	<0.00320	<0.00290	<0.00480
	MW-49	Sep-21		<0.00787	0.00125 J	<0.00478	<0.113	**0.280**	<0.00136	<0.00129	<0.00605	<0.000962	<0.00128	<0.00116	<0.00192
	TEL-1	Oct-18		<0.0191	<0.00175	<0.0107	<0.0500	<0.00166	<0.00190	<0.00234	<0.00433	<0.00138	<0.00190	<0.00174	<0.00226
	TEL-1	Apr-19		<0.00382	<0.000350	<0.00214	<0.0100 J4	<0.000331	<0.000380	<0.000469	<0.000866	0.00214	<0.000379	<0.000348	<0.000453
	TEL-1	Oct-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	0.00114 B	<0.000379	<0.000348	<0.000453
	TEL-1	Jun-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	TEL-2	Oct-18		<0.0955	<0.00875	<0.0535	<0.250	**0.936**	<0.00950	<0.0117	<0.0216	<0.00688	<0.00948	<0.00870	<0.0113
	TEL-2	Apr-19		<0.0382	<0.00350	<0.0214	<0.100 J4	**1.08**	<0.00380	<0.00469	<0.00866	0.0474	<0.00379	<0.00348	<0.00453
	TEL-2	Oct-19		<0.0382	<0.00350	<0.0214	<0.100	**0.618**	<0.00380	<0.00469	<0.00866	<0.00275	<0.00379 J4	<0.00348	<0.00453
	TEL-2	Jun-20		<0.00787	<0.00120	<0.00478	<0.113	**0.362**	<0.00136	<0.00129	<0.00605	<0.000962	<0.00128	<0.00116	<0.00192
	TEL-3	Apr-18		<0.00382	0.000823 J	<0.00214	<0.0100	**0.392**	<0.000380	<0.000469	<0.000866	0.00114	<0.000379	<0.000348	<0.000453
	TEL-3	Apr-19		<0.00382	0.000906 J	<0.00214	<0.0100 J4	**0.162**	<0.000380	<0.000469	<0.000866	0.00181	<0.000379	<0.000348	<0.000453
	TEL-3	Oct-19		<0.00382	0.000861 J	<0.00214	<0.0100	**0.0573**	<0.000380	<0.000469	<0.000866	0.00279 B	<0.000379	<0.000348	<0.000453
	TEL-3	Oct-20		<0.000787	0.00180	<0.000478	<0.0113	**0.182**	<0.000136	<0.000129	<0.000605 J4	0.00307	<0.000128	<0.000116	<0.000192
	TEL-4	Apr-19		<0.00382	<0.000350	<0.00214	<0.0100 J4	0.00190	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	TEL-4	Apr-19	FD	<0.00382	<0.000350	<0.00214	<0.0100 J4	0.00193	<0.000380	<0.000469	<0.000866	0.00219	<0.000379	<0.000348	<0.000453
	TEL-4	Oct-19		<0.0191	<0.00175	<0.0107	<0.0500	**0.0913**	<0.00190	<0.00234	<0.00433	<0.00138	<0.00190 J4	<0.00174	<0.00227
	TEL-4	Oct-19	FD	<0.00382	0.00239	<0.00214	<0.0100	**0.0955**	<0.000380	<0.000469	<0.000866	0.000507 J	<0.000379	<0.000348	<0.000453
	TEL-4	Jun-20		<0.00394	<0.000600	<0.00239	<0.0565	**0.00721**	<0.000680	<0.000645	<0.00303	<0.000481	<0.000640	<0.000580	<0.000960
	TEL-4	Jun-20	FD	<0.000787	<0.000120	<0.000478	<0.0113	**0.00759**	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	TEL-4	Oct-20		<0.00394	<0.000600	<0.00239	<0.0565	0.00154 J	<0.000680	<0.000645	<0.00303	<0.000481	<0.000640	<0.000580	<0.000960
	TEL-4	Oct-20	FD	<0.000787	<0.000120	<0.000478	<0.0113 J3	0.00133	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	TEL-4	Apr-21		<0.000787	<0.000120	<0.000478	<0.0113	0.000588 J	<0.000136	<0.000129	<0.000605	0.000163 J	<0.000128	<0.000116	<0.000192
	TEL-4	Apr-21	FD	<0.000787	<0.000120	<0.000478	<0.0113	0.000602 J	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	TEL-4	Sep-21		<0.000787	0.000135 J	<0.000478	<0.0113	**0.116**	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	TEL-4	Sep-21	FD	<0.000787	<0.000120	<0.000478	<0.0113	**0.133**	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
Three Mile Ditch	MW-8	Apr-18		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-8	Apr-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-8	Jun-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-8	Apr-21		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-16	Apr-18		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-16	Apr-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-16	Jun-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-16	Apr-21		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-20	Apr-18		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-20	Apr-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-20	Jun-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-20	Apr-21		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-21	Apr-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-21	Oct-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-21	Jun-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-21	Oct-20		<0.00394	<0.000600	<0.00239	<0.0565	<0.000471	<0.000680	<0.000645	<0.00303	<0.000481	<0.000640	<0.000580	<0.000960
	MW-21	Apr-21		<0.000787	<0.000120	<0.000478	<0.0113 J3J4	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-21	Sep-21		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	0.000129 J	<0.000128	<0.000116	<0.000192
	MW-25	Apr-18		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-25	Apr-19		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-25	Jun-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-25	Apr-21		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-26	Apr-18		<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-26	Apr-19		<0.00382	<0.000350	<0.00214	<0.0100 J4	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-26	Jun-20		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-26	Apr-21		<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192

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Appendix C, Table C.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2020 Annual Groundwater Monitoring Report
HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Volatile Organic Compounds											
				Analyte:	2-Hexanone (Methyl N-Butyl Ketone)	4-Isopropyl-toluene (p-Cymene)	4-Methyl-2-pentanone	Acetone	Benzene	Bromo-dichloro-methane	Bromoform (Tribromo-methane)	Bromo-methane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL:	---	---	1.24	14.1	0.00500	0.0800	---	0.00754	0.810	0.00500	0.100	20.9
				CGWSL Source:	---	---	NMED TW	TMED TW	WQCC HH	USEPA MCL	---	NMED TW	NMED TW	WQCC HH	USEPA MCL	NMED TW
Area	Well ID	Date	Dup													
Three Mile Ditch	MW-27	Apr-18			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-27	Apr-19			<0.00382	<0.000350	<0.00214	<0.0100 J4	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-27	Jun-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-27	Apr-21			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-46R	Apr-19			<0.00382	<0.000350	<0.00214	<0.0100 J4	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-46R	Oct-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-46R	Jun-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	0.000120 J	<0.000128	<0.000116	<0.000192
	MW-46R	Oct-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-46R	Apr-21			<0.000787	<0.000120	<0.000478	<0.0113 J3J4	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-46R	Sep-21			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-68	Apr-18			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-68	Apr-19			<0.00382	<0.000350	<0.00214	<0.0100 J4	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-68	Jun-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-68	Apr-21			<0.000787	<0.000120	<0.000478	<0.0113 J3J4	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-71	Apr-18			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-71	Apr-19			<0.00382	<0.000350	<0.00214	<0.0100 J4	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-71	Jun-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-71	Apr-21			<0.000787	<0.000120	<0.000478	<0.0113 J3J4	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-89	Apr-18			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-89	Apr-19			<0.00382	<0.000350	<0.00214	<0.0100 J4	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	MW-89	Jun-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-89	Apr-21			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	NP-1	Apr-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	NP-1	Oct-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	NP-1	Jun-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	NP-1	Oct-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	NP-1	Apr-21			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	NP-1	Sep-21			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	0.000154 J	<0.000128	<0.000116	<0.000192
	NP-6	Apr-15			<0.00380 UJ	<0.000350	<0.00210	<0.0100	<0.000330	<0.000380	<0.000470 UJ	<0.000870	0.00376	<0.000380	<0.000350	<0.000450
	NP-6	Apr-17			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	NP-6	Apr-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	NP-6	Apr-21			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
Upgradient	UG-1	Apr-18			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	UG-1	Apr-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	UG-1	Jun-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116 J4	<0.000192
	UG-1	Apr-21			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136 J4	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	UG-2	Apr-18			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	UG-2	Apr-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	UG-2	Jun-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116 J4	<0.000192
	UG-2	Apr-21			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136 J4	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	UG-3R	Apr-18			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	UG-3R	Apr-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	UG-3R	Jun-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116 J4	<0.000192
	UG-3R	Apr-21			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136 J4	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	UG-4	Apr-18			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	UG-4	Apr-19			<0.00382	<0.000350	<0.00214	<0.0100	<0.000331	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453
	UG-4	Jun-20			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116 J4	<0.000192
	UG-4	Apr-21			<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136 J4	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192

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Appendix C, Table C.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2020 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Volatile Organic Compounds										
				Analyte:	Chloroform	Chloro-methane	cis-1,2-Dichloro-ethene	cis-1,3-Dichloro-propene	Dibromo-chloromethane	Ethyl-benzene	Isopropyl-benzene (Cumene)	m,p-Xylene	Methyl tert-butyl ether (MTBE)	Methylene chloride	Naphthalene
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL:	0.0800	0.0203	0.0700	0.00471	0.0800	0.700	0.447	---	0.100	0.00500	0.0300
				CGWSL Source:	USEPA MCL	NMED TW	WQCC HH	USEPA TW	USEPA MCL	WQCC HH	WQCC TW	---	WQCC Dom	WQCC HH	WQCC HH
Area	**Well ID**	**Date**	**Dup**												
Cross-Gradient	KWB-13	Apr-18		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	KWB-13	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	0.000387 J	0.000789 J	<0.000367	<0.00100	0.00236 JJ4
	KWB-13	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111 J4	<0.000140	0.000234 J	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	KWB-13	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111 J4	<0.000140	0.000210 J	<0.000105	0.000438 J	<0.000101	<0.000430	<0.00100
	MW-136	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327 J4	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	MW-136	Oct-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	MW-136	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-136	Oct-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000122 J	<0.000430	<0.00100
	MW-136	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111 J4	<0.000140	<0.000137	<0.000105	<0.000430	0.000430 J	<0.000430	<0.00100
	MW-136	Sep-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000624 J	<0.000430	<0.00100
	NP-5	Apr-15		<0.000320	<0.000280	<0.000260	<0.000420	<0.000330	<0.000380	<0.000330	<0.000720	<0.000370	<0.00100	<0.00100
	NP-5	Apr-17		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	NP-5	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327 J4	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	NP-5	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111 J4	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	RA-3156	Apr-18		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	RA-3156	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100 J4
	RA-3156	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	RA-3156	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000124 J	<0.000430	<0.00100
Evaporation Ponds	MW-1R	Apr-18		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	MW-1R	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	MW-1R	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-1R	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-2A	Apr-19		<0.00162	<0.00138	<0.00130	<0.00209	<0.00164	<0.00192	<0.00163	<0.00360	<0.00184	<0.00500	<0.00500 J3
	MW-2A	Oct-19		<0.000324	<0.000276 J3	<0.000260	<0.000418	<0.000327 J4	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	MW-2A	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-2A	Oct-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-2A	Apr-21		<0.000111	<0.000960 J4	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100 J4
	MW-2A	Sep-21												
	MW-3	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418 J4	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	MW-3	Apr-19	FD	<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	MW-3	Oct-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	0.00132	<0.000719	<0.000367	<0.00100	<0.00100
	MW-3	Oct-19	FD	<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	MW-3	Jun-20		<0.00278	<0.0240	<0.00315	<0.00278	<0.00350	<0.00343	<0.00263	<0.0107	<0.00253	**0.0181 J**	<0.0250
	MW-3	Jun-20	FD	<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	0.000341 J	<0.000430	<0.000101	<0.000430	<0.00100
	MW-3	Oct-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	0.000139 J	<0.000430	<0.000101	<0.000430	<0.00100
	MW-3	Oct-20	FD	<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	0.000169 J	<0.000430	<0.000101	<0.000430	<0.00100
	MW-3	Apr-21		<0.00278	<0.0240	<0.00315	<0.00278	<0.00350	<0.00343	<0.00263	<0.0107	<0.00253	<0.0107	<0.0250
	MW-3	Apr-21	FD	<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	0.000291 J	<0.000430	<0.000101	<0.000430	<0.00100
	MW-3	Sep-21												
	MW-3	Sep-21	FD											
	MW-4A	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	0.00233	<0.000719	<0.000367	<0.00100	<0.00100 J3
	MW-4A	Oct-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	0.00175	0.000959 J	<0.000367	<0.00100	<0.00100
	MW-4A	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	0.00134	0.000627 J	0.000195 J	<0.000430	<0.00100
	MW-4A	Oct-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	0.00191	0.00214	0.000244 J	<0.000430	<0.00100
	MW-4A	Apr-21		<0.000111	<0.000960 J4	<0.000126	<0.000111	<0.000140	<0.000137	0.00208	0.000907 J	0.000252 J	<0.000430	<0.00100 J4
	MW-4A	Sep-21												
	MW-4B	Apr-15		<0.000320	<0.000280	<0.000260	<0.000420	<0.000330	0.000462 J	0.000845 J	<0.000720	<0.000370	<0.00100	<0.00100
	MW-4B	Apr-17		<0.000324	<0.000276 J4	<0.000260	<0.000418 J4	<0.000327	<0.000384	0.000727 J	<0.000719	<0.000367	<0.00100	<0.00100 J4
	MW-4B	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	0.000395 J	<0.000719	<0.000367	<0.00100	<0.00100 J3
	MW-4B	Apr-21		<0.000111	<0.000960 J4	<0.000126	<0.000111	<0.000140	<0.000137	0.000184 J	<0.000430	0.000158 J	<0.000430	<0.00100 J4
	MW-5A	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	0.00129	<0.00100	<0.00100 J3
	MW-5A	Oct-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	0.00143	<0.00100	<0.00100
	MW-5A	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	0.000800 J	<0.000430	0.000812 J	<0.000430	<0.00100
	MW-5A	Oct-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	0.000616 J	<0.000430	0.00142	<0.000430	<0.00100
	MW-5A	Apr-21		<0.000111	<0.000960 J4	<0.000126	<0.000111	<0.000140	<0.000137	0.000416 J	<0.000430	0.00156	<0.000430	<0.00100 J4
	MW-5A	Sep-21												
	MW-5B	Apr-15		<0.000320	<0.000280	<0.000260	<0.000420	<0.000330	<0.000380	<0.000330	<0.000720	0.00148	<0.00100	<0.00100
	MW-5B	Apr-17		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	0.00140	<0.00100	<0.00100
	MW-5B	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	0.000981 J	<0.00100	<0.00100 J3
	MW-5B	Apr-21		<0.000111	<0.000960 J4	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000335 J	<0.000430	<0.00100 J4
	MW-5C	Apr-15		<0.000320	<0.000280	<0.000260	<0.000420	<0.000330	<0.000380	<0.000330	<0.000720	0.000507 J	<0.00100	<0.00100
	MW-5C	Apr-17		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	0.000369 J	<0.00100	<0.00100
	MW-5C	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100 J3
	MW-5C	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000861 J	<0.000430	<0.00100
	MW-6A	Apr-18		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	0.00117	0.000931 J	0.00167 J	<0.000367	<0.00100	<0.00100
	MW-6A	Apr-19		<0.00162	<0.00138	<0.00130	<0.00209	<0.00164	0.00197 J	<0.00163	0.00413 J	<0.00184	<0.00500	<0.00500 J3
	MW-6A	Jun-20		<0.000555	<0.00480	<0.000630	<0.000555	<0.000700	0.000927 J	<0.000525	<0.00215	<0.000505	**0.0101 J**	<0.00500
	MW-6A	Apr-21		<0.000555	<0.00480 J4	<0.000630	<0.000555	<0.000700	0.00142 J	<0.000525	0.00298 J	<0.000505	<0.00215	<0.00500 J4
	MW-6B	Apr-15		<0.000320	<0.000280	<0.000260	<0.000420	<0.000330	<0.000380	<0.000330	<0.000720	<0.000370	<0.00100	<0.00100
	MW-6B	Apr-17		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	MW-6B	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100 J3
	MW-6B	Apr-21		<0.000111	<0.000960 J4	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100 J4
	MW-7A	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	0.00122	<0.00100	<0.00100 J3
	MW-7A	Apr-19	FD	<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	0.00161	<0.00100	<0.00100
	MW-7A	Oct-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	0.00137	<0.00100	<0.00100
	MW-7A	Oct-19	FD	<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	0.00154	<0.00100	<0.00100
	MW-7A	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000858 J	<0.000430	<0.00100
	MW-7A	Jun-20	FD	<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.00113	<0.000430	<0.00100
	MW-7A	Oct-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000957 J	<0.000430	<0.00100
	MW-7A	Oct-20	FD	<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000984 J	<0.000430	<0.00100
	MW-7A	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000747 J	<0.000430	<0.00100
	MW-7A	Apr-21	FD	<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000765 J	<0.000430	<0.00100
	MW-7A	Sep-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000870 J	<0.000430	0.00164 J
	MW-7A	Sep-21	FD	<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000863 J	<0.000430	0.00164 J
	MW-7B	Apr-15		<0.000320	<0.000280	<0.000260	<0.000420	<0.000330	<0.000380	<0.000330	<0.000720	<0.000370	<0.00100	<0.00100
	MW-7B	Apr-17		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	MW-7B	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100 J3
	MW-7B	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-10	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418 J4	<0.000327	<0.000384	<0.000326	<0.000719	0.00170	<0.00100	<0.00100
	MW-10	Oct-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	0.00147	<0.00100	<0.00100
	MW-10	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.00136	<0.000430	<0.00100
	MW-10	Oct-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.00136	<0.000430	<0.00100
	MW-10	Apr-21		<0.000111	<0.000960 J4	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.00124	<0.000430	<0.00100 J4
	MW-10	Sep-21												
	MW-11A	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	MW-11A	Oct-19												
	MW-11A	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-11A	Oct-20												
	MW-11A	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-11A	Sep-21												

Appendix C, Table C.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2020 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Volatile Organic Compounds										
				Analyte:	Chloroform	Chloro-methane	cis-1,2-Dichloro-ethene	cis-1,3-Dichloro-propene	Dibromo-chloromethane	Ethyl-benzene	Isopropyl-benzene (Cumene)	m,p-Xylene	Methyl tert-butyl ether (MTBE)	Methylene chloride	Naphthalene
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL:	0.0800	0.0203	0.0700	0.00471	0.0800	0.700	0.447	---	0.100	0.00500	0.0300
				CGWSL Source:	USEPA MCL	NMED TW	WQCC HH	USEPA TW	USEPA MCL	WQCC HH	WQCC TW	---	WQCC Dom	WQCC HH	WQCC HH
Area	Well ID	Date	Dup												
Evaporation Ponds	MW-11B	Apr-15		<0.000320	<0.000280	<0.000260	<0.000420	<0.000330	<0.000380	<0.000330	<0.000720	<0.000370	<0.00100	<0.00100
	MW-11B	Apr-17		<0.000324	<0.000276 J4	<0.000260	<0.000418 J4	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100 J4
	MW-11B	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	MW-11B	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-15	Apr-18		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	0.000836 J	<0.00100	<0.00100
	MW-15	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	0.000549 J	<0.00100	<0.00100
	MW-15	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-15	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-18A	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	0.000600 J	<0.00100	<0.00100
	MW-18A	Oct-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	0.000793 J	<0.00100	<0.00100
	MW-18A	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000734 J	<0.000430	<0.00100
	MW-18A	Oct-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000678 J	<0.000430	<0.00100
	MW-18A	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000522 J	<0.000430	<0.00100
	MW-18A	Sep-21												
	MW-18B	Apr-15		<0.000320	<0.000280	<0.000260	<0.000420	<0.000330	<0.000380	<0.000330	<0.000720	<0.000370	<0.00100	<0.00100
	MW-18B	Apr-17		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	MW-18B	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	MW-18B	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-22A	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418 J4	<0.000327	<0.000384	<0.000326	<0.000719	0.00438	<0.00100	<0.00100
	MW-22A	Apr-19	FD	<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	0.00409	<0.00100	<0.00100
	MW-22A	Oct-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	0.000923 J	<0.00100	<0.00100
	MW-22A	Oct-19	FD	<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	0.00103	<0.00100	<0.00100
	MW-22A	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.00242	<0.000430	<0.00100
	MW-22A	Jun-20	FD	<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.00254	<0.000430	<0.00100
	MW-22A	Oct-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.00286	<0.000430	<0.00100
	MW-22A	Oct-20	FD	<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.00273	<0.000430	<0.00100
	MW-22A	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.00245	<0.000430	<0.00100
	MW-22A	Apr-21	FD	<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.00245	<0.000430	<0.00100
	MW-22A	Sep-21												
	MW-22A	Sep-21	FD											
	MW-22B	Apr-15		<0.000320 UJ	<0.000280	<0.000260	<0.000420	<0.000330	<0.000380	<0.000330	<0.000720	0.00634	<0.00100	<0.00100
	MW-22B	Apr-17		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	0.00564	<0.00100	<0.00100
	MW-22B	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418 J4	<0.000327	<0.000384	<0.000326	<0.000719	0.00582	<0.00100	<0.00100
	MW-22B	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.00462	<0.000430	<0.00100
	MW-70	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	MW-70	Oct-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	MW-70	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000119 J	<0.000430	<0.00100
	MW-70	Oct-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000124 J	<0.000430	<0.00100
	MW-70	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-70	Sep-21												
	MW-72	Apr-18		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	MW-72	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100 J3
	MW-72	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-72	Apr-21		<0.000111	<0.000960 J4	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100 J4
	MW-73	Apr-18		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	MW-73	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418 J4	<0.000327	<0.000384	<0.000326	<0.000719	0.000992 J	<0.00100	<0.00100
	MW-73	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.00105	<0.000430	<0.00100
	MW-73	Apr-21		<0.000111	<0.000960 J4	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.00102	<0.000430	<0.00100 J4
	MW-74	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418 J4	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	MW-74	Oct-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	0.000725 J	<0.00100	<0.00100
	MW-74	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000294 J	<0.000430	<0.00100
	MW-74	Oct-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000761 J	<0.000430	<0.00100
	MW-74	Apr-21		<0.000111	<0.000960 J4	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000577 J	<0.000430	<0.00100 J4
	MW-74	Sep-21												
	MW-75	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418 J4	<0.000327	<0.000384	0.000547 J	<0.000719	0.00644	<0.00100	<0.00100
	MW-75	Oct-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	0.00777	<0.000719	0.00232	<0.00100	<0.00100
	MW-75	Jun-20		<0.00278	<0.0240	<0.00315	<0.00278	<0.00350	<0.00343	0.00352 J	<0.0107	0.00263 J	<0.0107	<0.0250
	MW-75	Oct-20		<0.00278	<0.0240	<0.00315	<0.00278	<0.00350	<0.00343	0.00529 J	<0.0107	0.00583 J	<0.0107	<0.0250
	MW-75	Apr-21		<0.00278	<0.0240	<0.00315	<0.00278	<0.00350	<0.00343	<0.00263	<0.0107	<0.00253	<0.0107	<0.0250
	MW-75	Sep-21												
	MW-76	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418 J4	<0.000327	<0.000384	0.0112	<0.000719	0.0115	<0.00100	<0.00100
	MW-76	Oct-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	0.0158	<0.000719	0.0123	<0.00100	<0.00100
	MW-76	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	0.00915	0.000628 J	0.0111	<0.000430	<0.00100
	MW-76	Oct-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	0.00944	<0.000430	0.00743	<0.000430	<0.00100
	MW-76	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	0.00467	<0.000430	0.00437	<0.000430	<0.00100
	MW-76	Sep-21												
	MW-77	Apr-18		<0.00324	<0.00276	<0.00260	<0.00418	<0.00327	<0.00384	0.0131	<0.00719	<0.00367	<0.0100	<0.0100
	MW-77	Apr-19		<0.00324	<0.00276	<0.00260	<0.00418 J4	<0.00327	<0.00384	0.0145	<0.00719	0.00392 J	<0.0100	<0.0100
	MW-77	Jun-20		<0.00278	<0.0240	<0.00315	<0.00278	<0.00350	<0.00343	0.0226 J	<0.0107	<0.00253	<0.0107	<0.0250
	MW-77	Apr-21		<0.00278	<0.0240	<0.00315	<0.00278	<0.00350	<0.00343	<0.00263	<0.0107	<0.00253	<0.0107	<0.0250
	MW-78	Apr-18		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	MW-78	Apr-19		<0.00324	<0.00276	<0.00260	<0.00418 J4	<0.00327	<0.00384	<0.00326	<0.00719	<0.00367	<0.0100	<0.0100
	MW-78	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-78	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-79	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418 J4	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	MW-79	Oct-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	MW-79	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-79	Oct-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-79	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-79	Sep-21												
	MW-80	Apr-18		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	MW-80	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418 J4	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	MW-80	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-80	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-81	Apr-18		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	MW-81	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418 J4	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	MW-81	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-81	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-82	Apr-18		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	MW-82	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418 J4	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	MW-82	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-82	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-83	Apr-19		<0.00162	<0.00138	<0.00130	<0.00209	<0.00164	<0.00192	<0.00163	<0.00360	<0.00184	<0.00500	<0.00500 J3
	MW-83	Oct-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	0.00249	<0.000719	<0.000367	<0.00100	<0.00100
	MW-83	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	0.00144	<0.000430	<0.000101	<0.000430	<0.00100
	MW-83	Oct-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	0.00263	0.00127 J	0.000649 J	<0.000430	<0.00100
	MW-83	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-83	Sep-21												
	MW-84	Apr-19		<0.00162	<0.00138	<0.00130	<0.00209	<0.00164	<0.00192	<0.00163	<0.00360	<0.00184	<0.00500	<0.00500 J3
	MW-84	Oct-19		<0.00162	<0.00138	<0.00130	<0.00209	<0.00164	<0.00192	<0.00163	<0.00360	<0.00184	<0.00500	<0.00500
	MW-84	Jun-20		<0.000555	<0.00480	<0.000630	<0.000555	<0.000700	<0.000685	0.000576 J	<0.00215	0.00112 J	<0.00215	<0.00500
	MW-84	Oct-20		<0.00111	<0.00960	<0.00126	<0.00111	<0.00140	<0.00137	<0.00105	<0.00430	0.00104 J	<0.00430	<0.0100
	MW-84	Apr-21		<0.00111	<0.00960	<0.00126	<0.00111	<0.00140	<0.00137	<0.00105	<0.00430	<0.00101	<0.00430	<0.0100
	MW-84	Sep-21												

Appendix C, Table C.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2020 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Volatile Organic Compounds										
				Analyte:	Chloroform	Chloro-methane	cis-1,2-Dichloro-ethene	cis-1,3-Dichloro-propene	Dibromo-chloromethane	Ethyl-benzene	Isopropyl-benzene (Cumene)	m,p-Xylene	Methyl tert-butyl ether (MTBE)	Methylene chloride	Naphthalene
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL:	0.0800	0.0203	0.0700	0.00471	0.0800	0.700	0.447	---	0.100	0.00500	0.0300
				CGWSL Source:	USEPA MCL	NMED TW	WQCC HH	USEPA TW	USEPA MCL	WQCC HH	WQCC TW	---	WQCC Dom	WQCC HH	WQCC HH
Area	Well ID	Date	Dup												
Evaporation Ponds	MW-86	Jun-20		<0.00222	<0.0192	<0.00252	<0.00222	<0.00280	0.0199 J	0.00509 J	0.0267 J	<0.00202	<0.00860	<0.0200	
	MW-86	Oct-20		<0.00222	<0.0192	<0.00252	<0.00222	<0.00280	0.0228	0.00405 J	0.0295 J	<0.00202	<0.00860	<0.0200	
	MW-87	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	0.000622 J	<0.00100	<0.00100	
	MW-87	Oct-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	0.00108	<0.00100	<0.00100	
	MW-87	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000725 J	<0.000430	<0.00100	
	MW-87	Oct-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000777 J	<0.000430	<0.00100	
	MW-87	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000558 J	<0.000430	<0.00100	
	MW-87	Sep-21													
	MW-88	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418 J4	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100	
	MW-88	Oct-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100	
	MW-88	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	
	MW-88	Oct-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	
	MW-88	Apr-21		<0.000111	<0.000960 J4	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100 J4	
	MW-88	Sep-21													
	MW-120	Apr-19		<0.00162	<0.00138	<0.00130	<0.00209	<0.00164	<0.00192	<0.00163	<0.00360	<0.00184	<0.00500	<0.00500 J3	
	MW-120	Oct-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100	
	MW-120	Jun-20		<0.000555	<0.00480	<0.000630	<0.000555	<0.000700	<0.000685	<0.000525	<0.00215	<0.000505	<0.00215	<0.00500	
	MW-120	Oct-20		<0.000555	<0.00480	<0.000630	<0.000555	<0.000700	<0.000685	<0.000525	<0.00215	<0.000505	<0.00215	<0.00500	
	MW-120	Apr-21		<0.000555	<0.00480	<0.000630	<0.000555	<0.000700	<0.000685	<0.000525	<0.00215	<0.000505	<0.00215	<0.00500	
	MW-120	Sep-21		<0.000111	<0.000960	0.000173 JB	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	
	MW-121	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100 J3	
	MW-121	Oct-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100	
	MW-121	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	
	MW-121	Oct-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	
	MW-121	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	
	MW-121	Sep-21													
	MW-122	Apr-19		<0.00162	<0.00138	<0.00130	<0.00209	<0.00164	<0.00192	<0.00163	<0.00360	<0.00184	<0.00500	<0.00500 J3	
	MW-122	Oct-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100	
	MW-122	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	
	MW-122	Oct-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	
	MW-122	Apr-21		<0.000111	<0.000960 J4	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100 J4	
	MW-122	Sep-21													
	MW-123	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418 J4	<0.000327	<0.000384	<0.000326	<0.000719	0.00163	<0.00100	<0.00100	
	MW-123	Oct-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	0.00133	<0.00100	<0.00100	
	MW-123	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.00149	<0.000430	<0.00100	
	MW-123	Oct-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.00174	<0.000430	<0.00100	
	MW-123	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.00153	<0.000430	<0.00100	
	MW-123	Sep-21													
	MW-124	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100	
	MW-124	Oct-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100	
	MW-124	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	
	MW-124	Oct-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	
	MW-124	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	
	MW-124	Sep-21													
	OCD-1R	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100	
	OCD-1R	Oct-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100	
	OCD-1R	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	
	OCD-1R	Oct-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	
	OCD-1R	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	
	OCD-1R	Sep-21													
	OCD-2A	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100	
	OCD-2A	Oct-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100	
	OCD-2A	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	
	OCD-2A	Oct-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	
	OCD-2A	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	
	OCD-2A	Sep-21													
	OCD-3	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100	
	OCD-3	Oct-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100	
	OCD-3	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	
	OCD-3	Oct-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	
	OCD-3	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	
	OCD-3	Sep-21													
	OCD-4	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100	
	OCD-4	Oct-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100	
	OCD-4	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	
	OCD-4	Oct-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	
	OCD-4	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	
	OCD-4	Sep-21													
	OCD-5	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100	
	OCD-5	Oct-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100	
	OCD-5	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	
	OCD-5	Oct-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	
	OCD-5	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	
	OCD-5	Sep-21													
	OCD-6	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100 J3	
	OCD-6	Oct-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100	
	OCD-6	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	
	OCD-6	Oct-20		<0.000111	<0.000960	0.000170 JB	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	
	OCD-6	Apr-21		<0.000111	<0.000960 J4	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100 J4	
	OCD-6	Sep-21													
	OCD-7AR	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	0.000632 J	<0.00100	<0.00100 J3	
	OCD-7AR	Oct-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	0.00190	<0.00100	<0.00100	
	OCD-7AR	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000944 J	<0.000430	<0.00100	
	OCD-7AR	Oct-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.00157	<0.000430	<0.00100	
	OCD-7AR	Apr-21		<0.000111	<0.000960 J4	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.00129	<0.000430	<0.00100 J4	
	OCD-7AR	Sep-21													
	OCD-7B	Apr-15		<0.000320	<0.000280	<0.000260	<0.000420	<0.000330	<0.000380	<0.000330	<0.000720	<0.000370	<0.00100	<0.00100	
	OCD-7B	Apr-17		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100	
	OCD-7B	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100 J3	
	OCD-7B	Apr-21		<0.000111	<0.000960 J4	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100 J4	
	OCD-8A	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	0.00400	<0.00100	<0.00100 J3	
	OCD-8A	Oct-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	0.000471 J	<0.00100	<0.00100	
	OCD-8A	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.00275	<0.000430	<0.00100	
	OCD-8A	Oct-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.00342	<0.000430	<0.00100	
	OCD-8A	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.00345	<0.000430	<0.00100	
	OCD-8A	Sep-21													
	OCD-8B	Apr-15		<0.000320	<0.000280	<0.000260	<0.000420	<0.000330	<0.000380	<0.000330	<0.000720	0.00155	<0.00100	<0.00100	
	OCD-8B	Apr-17		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	0.000919 J	<0.00100	<0.00100	
	OCD-8B	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	0.000876 J	<0.00100	<0.00100	
	OCD-8B	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000606 J	<0.000430	<0.00100	
Field East of Refinery	KWB-1A	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100 J4	
	KWB-1A	Oct-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100	
	KWB-1A	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	
	KWB-1A	Oct-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	
	KWB-1C	Apr-15		<0.000320	<0.000280	<0.000260	<0.000420	<0.000330	<0.000380	<0.000330	<0.000720	<0.000370	<0.00100	<0.00100	
	KWB-1C	Apr-17		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100	
	KWB-1C	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100 J4	
	KWB-1C	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111 J4	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	

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Appendix C, Table C.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2020 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Volatile Organic Compounds										
				Analyte:	Chloroform	Chloro-methane	cis-1,2-Dichloro-ethene	cis-1,3-Dichloro-propene	Dibromo-chloromethane	Ethyl-benzene	Isopropyl-benzene (Cumene)	m,p-Xylene	Methyl tert-butyl ether (MTBE)	Methylene chloride	Naphthalene
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL:	0.0800	0.0203	0.0700	0.00471	0.0800	0.700	0.447	---	0.100	0.00500	0.0300
				CGWSL Source:	USEPA MCL	NMED TW	WQCC HH	USEPA TW	USEPA MCL	WQCC HH	WQCC TW	---	WQCC Dom	WQCC HH	WQCC HH
Area	Well ID	Date	Dup												
Field East of Refinery	KWB-7	Jun-20			<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	0.00936	0.0409	0.0390	0.00932	<0.000430	0.00822
	KWB-7	Oct-20			<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	0.00262	0.0188	0.00249	0.00365	<0.000430	<0.00100
	KWB-7	Apr-21			<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	0.459	0.0554	0.167	0.00489	<0.000430	**0.0306**
	KWB-7	Sep-21			<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	0.331	0.105	0.0764	0.00580	<0.000430	0.0108
	KWB-8	Oct-16			<0.0648	<0.0552	<0.0520	<0.0836	<0.0654	**0.828**	<0.0652	1.01	<0.0734	<0.200	<0.200 J4
	KWB-8	Apr-17			<0.0324	<0.0276	<0.0260	<0.0418	<0.0327	**1.24**	0.0467 J	1.92	**0.129**	<0.100	**0.141** J
	KWB-8	Oct-17			<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	0.617	0.0182	0.782	**0.134** V3	<0.00100	**0.0519**
	KWB-8	Oct-20			<0.0222	<0.192	<0.0252	<0.0222	<0.0280	**2.89**	0.0937 J	4.05	0.0230 J	<0.0860	**0.539** J
	KWB-10R	Apr-17			0.0172 J	<0.0138	<0.0130	<0.0209	<0.0164	0.505	0.0486 J	0.716	**3.65**	<0.0500	**0.156** J
	KWB-10R	Oct-17			<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	0.530	0.0494	0.655	**5.41**	<0.00100	**0.152**
	KWB-10R	Apr-18			<0.0810	<0.0690	<0.0650	<0.104	<0.0818	0.354	<0.0815	0.457 J	**2.74**	<0.250	<0.250
	KWB-10R	Oct-18			<0.0810	<0.0690	<0.0650	<0.104	<0.0818	0.238 J	<0.0815	0.217 J	**4.12**	<0.250	<0.250
	KWB-11A	Apr-19			<0.000324	<0.000276	<0.000260	<0.000418	<0.000327 J4	<0.000384	0.00105	<0.000719	0.00371	<0.00100	<0.00100
	KWB-11A	Jun-20			<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	0.000576 J	0.00360	<0.000430	0.00359	<0.000430	<0.00100
	KWB-11A	Oct-20			<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	0.000380 J	<0.000430	0.00307	<0.000430	<0.00100
	KWB-11A	Sep-21			<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	0.0382	0.0169	0.0209	0.00221	<0.000430	0.00154 J
	KWB-11B	Apr-19			<0.000324	<0.000276	<0.000260	<0.000418	<0.000327 J4	<0.000384	<0.000326	<0.000719	0.000774 J	<0.00100	<0.00100
	KWB-11B	Oct-19			<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	0.00103	<0.00100	<0.00100
	KWB-11B	Jun-20			<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.00140	<0.000430	<0.00100
	KWB-11B	Oct-20			<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.00156	<0.000430	<0.00100
	KWB-11B	Apr-21			<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.00105	<0.000430	<0.00100
	KWB-11B	Sep-21			<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	0.000419 J	0.000232 J	<0.000430	0.00152	<0.000430	<0.00100
	KWB-12A	Oct-19			<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	KWB-12A	Jun-20			<0.000111	<0.000960	<0.000126	<0.000111 J4	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	KWB-12A	Oct-20			<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	KWB-12A	Sep-21			<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	0.000527 J	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	KWB-12B	Apr-19			<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	KWB-12B	Apr-19	FD		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	KWB-12B	Oct-19			<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	KWB-12B	Oct-19	FD		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	KWB-12B	Jun-20			<0.000111	<0.000960	<0.000126	<0.000111 J4	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	KWB-12B	Jun-20	FD		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	KWB-12B	Oct-20			<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	KWB-12B	Oct-20	FD		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	KWB-12B	Apr-21			<0.000111	<0.000960	<0.000126	<0.000111 J4	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	KWB-12B	Apr-21	FD		<0.000111	<0.000960	<0.000126	<0.000111 J4	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	KWB-12B	Sep-21			<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	KWB-12B	Sep-21	FD		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	KWB-P4	Apr-15			<0.000320	<0.000280	<0.000260	<0.000420	<0.000330	<0.000380	<0.000330	<0.000720	<0.000370	<0.00100	<0.00100
	KWB-P4	Apr-17			<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	KWB-P4	Apr-19			<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100 J4
	KWB-P4	Apr-21			<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-57	Apr-19			<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	MW-57	Oct-19			<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	MW-57	Jun-20			<0.000111	<0.000960	<0.000126	<0.000111 J4	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-57	Oct-20			<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-57	Apr-21			<0.000111	<0.000960	<0.000126	<0.000111 J4	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-57	Sep-21			<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-58	Oct-17			<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	0.0965	0.0456	0.220	0.0987	<0.00100	**0.0469**
	MW-58	Apr-18			<0.0162	<0.0138	<0.0130	<0.0209	<0.0164	**0.946**	0.0521	0.268	0.0303 J	<0.0500	**0.267**
	MW-58	Oct-18			<0.0162	<0.0138	<0.0130	<0.0209	<0.0164	0.0351 J	0.0461 J	<0.0360	0.0624	<0.0500	<0.0500
	MW-58	Oct-19			<0.00324	<0.00276	<0.00260	<0.00418	<0.00327 J4	0.634	0.0370	0.395	<0.00367	<0.0100	**0.0917**
	MW-111	Oct-18			<0.00810	<0.00690	<0.00650	<0.0104	<0.00818	<0.00960	<0.00815	<0.0180	**1.47**	<0.0250	<0.0250
	MW-111	Apr-19			<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	0.00258	0.00388	0.00523	**1.46**	<0.00100	0.00408 J
	MW-111	Oct-19			<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	0.0164	0.00148	0.00995	**1.23**	<0.00100	0.00372 J
	MW-111	Jun-20			<0.00278	<0.0240	<0.00315	<0.00278	<0.00350	0.0408	0.00406 J	0.0148 J	**1.30**	<0.0107	<0.0250
	MW-112	Nov-14			<0.00810	<0.00690	<0.00650	<0.0100	<0.00820	**0.970**	0.0570	1.40	**1.00**	<0.0250	**0.200**
	MW-113	Apr-19			<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	0.00703	0.000860 J	0.0113	0.0112	<0.00100	0.00108 J
	MW-113	Apr-19	FD		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	0.00809	<0.000326	0.0128	0.00973	<0.00100	0.00110 J
	MW-113	Oct-19			<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	0.248	0.0549	0.307	0.00823	<0.00100	**0.128**
	MW-113	Oct-19	FD		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	0.270	0.0601	0.284	0.00809	<0.00100	**0.0986**
	MW-113	Jun-20			<0.000555	<0.00480	<0.000630	<0.000555	<0.000700	0.00355 J	0.00158 J	0.0363	0.0129	<0.00215	<0.00500
	MW-113	Jun-20	FD		0.00490 J	<0.000960	<0.000126	<0.000111	<0.000140	0.00448	0.000915 J	0.0470	0.0104	<0.000430	0.00195 J
	MW-113	Oct-20			<0.000555	<0.00480	<0.000630	<0.000555	<0.000700	0.129	0.0208	0.154	0.0117	<0.00215	0.0101 J
	MW-113	Oct-20	FD		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	0.137	0.0226	0.165	0.0118	<0.000430	0.0104
	MW-113	Apr-21			<0.000555	<0.00480	<0.000630	<0.000555	<0.000700	0.0126	0.00161 J	0.0395	0.00805	<0.00215	<0.00500
	MW-113	Apr-21	FD		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	0.0183	0.00231	0.0569	0.00823	<0.000430	0.00507
	MW-113	Sep-21			<0.00555	<0.0480	<0.00630	<0.00555	<0.00700	**2.14**	0.109	0.877	0.0544	<0.0215	**0.158** J
	MW-113	Sep-21	FD		<0.00278	<0.0240	<0.00315	<0.00278	<0.00350	**1.97**	0.111	0.872	0.0630	<0.0107	**0.118** J
	MW-125	Apr-19			<0.000324	<0.000276	<0.000260	<0.000418	<0.000327 J4	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	MW-125	Oct-19			<0.000324	<0.000276	<0.000260	<0.000418	<0.000327 J4	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	MW-125	Jun-20			<0.000111	<0.000960	<0.000126	<0.000111 J4	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-125	Oct-20			<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	0.000155 J	<0.000430	<0.000101	<0.000430	<0.00100
	MW-125	Apr-21			<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-125	Sep-21			<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-126A	Apr-19			<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100 J4
	MW-126A	Oct-19			<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	0.0114	0.0135	0.00569	<0.000367	<0.00100	0.00221 J
	MW-126A	Jun-20			<0.000111	<0.000960	<0.000126	<0.000111 J4	<0.000140	<0.000137	<0.000105	<0.000430	0.000248 J	<0.000430	<0.00100
	MW-126A	Oct-20			<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000502 J	<0.000430	<0.00100
	MW-126B	Apr-19			<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100 J4
	MW-126B	Oct-19			<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	MW-126B	Jun-20			<0.000111	<0.000960	<0.000126	<0.000111 J4	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-126B	Oct-20			<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000114 J	<0.000430	<0.00100
	MW-126B	Apr-21			<0.000111	<0.000960	<0.000126	<0.000111 J4	<0.000140	<0.000137	<0.000105	<0.000430	0.000152 J	<0.000430	<0.00100
	MW-126B	Sep-21			<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000151 J	<0.000430	<0.00100
	MW-127	Oct-17			<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	0.0937	0.0130	0.0445	**0.885**	<0.00100	0.00901
	MW-127	Apr-18			<0.00648	<0.00552	<0.00520	<0.00836	<0.00654	0.121	0.0160 J	0.0654	**0.623**	<0.0200	<0.0200
	MW-127	Oct-18			<0.00648	<0.00552	<0.00520	<0.00836	<0.00654	0.0797	0.0180 J	0.0458	**0.774**	<0.0200	<0.0200
	MW-127	Apr-19			<0.00648	<0.00552	<0.00520	<0.00836	<0.00654	0.138	0.0199 J	0.0933	**0.628**	<0.0200	<0.0200 J4
	MW-128	Oct-17			<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	0.00128	0.00133	0.00336	**0.785**	<0.00100	0.00142 J
	MW-128	Apr-18			<0.00648	<0.00552	<0.00520	<0.00836	<0.00654	<0.00768	<0.00652	<0.0144	**0.961**	<0.0200	**0.0422** J
	MW-128	Oct-18			<0.00648	<0.00552	<0.00520	<0.00836	<0.00654	0.0247	<0.00652	<0.0144	**0.963**	<0.0200	<0.0200
	MW-128	Apr-19			<0.00648	<0.00552	<0.00520	<0.00836	<0.00654	0.0199 J	<0.00652	<0.0144	**0.765**	<0.0200	<0.0200
	MW-129	Apr-16			<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.0192	0.00172	0.00199	**4.59**	<0.00100	0.00534
	MW-129	Oct-16			<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	0.000985 J	0.00144	0.00124	**4.73**	<0.00100	0.00186 JJ4
	MW-129	Apr-17			<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	0.000976 J	0.000737 J	**4.34**	<0.00100	0.00247 J
	MW-129	Apr-18			<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	0.00130	0.000687 J	0.00125 J	**5.40**	<0.00100	0.00124 J

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Appendix C, Table C.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2020 Annual Groundwater Monitoring Report
HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Volatile Organic Compounds										
				Analyte:	Chloroform	Chloro-methane	cis-1,2-Dichloro-ethene	cis-1,3-Dichloro-propene	Dibromo-chloromethane	Ethyl-benzene	Isopropyl-benzene (Cumene)	m,p-Xylene	Methyl tert-butyl ether (MTBE)	Methylene chloride	Naphthalene
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL:	0.0800	0.0203	0.0700	0.00471	0.0800	0.700	0.447	---	0.100	0.00500	0.0300
				CGWSL Source:	USEPA MCL	NMED TW	WQCC HH	USEPA TW	USEPA MCL	WQCC HH	WQCC TW	---	WQCC Dom	WQCC HH	WQCC HH
Area	Well ID	Date	Dup												
Field East of Refinery	MW-130	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	0.00131	<0.00100	<0.00100 J4
	MW-130	Oct-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	0.00295	<0.00100	<0.00100
	MW-130	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.00424	<0.000430	<0.00100
	MW-130	Oct-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.00328	<0.000430	<0.00100
	MW-130	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.00230	<0.000430	<0.00100
	MW-130	Sep-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.00205	<0.000430	<0.00100
	MW-131	Apr-17		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	0.0532	0.0206	0.0735	**3.99**	<0.00100	0.0295
	MW-131	Oct-17		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.0960	0.0162	<0.180	**5.25**	<0.00100	**0.0303**
	MW-131	Oct-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	0.0255	0.00961	0.681	**4.95**	<0.00100	**0.0314**
	MW-131	Jun-20		<0.00555	<0.0480	<0.00630	<0.00555	<0.00700	0.0171 J	0.00743 J	0.544	**2.91**	<0.0215	<0.0500
	MW-133	Nov-14		<0.0320	<0.0280	<0.0260	<0.0420	<0.0330	0.300	0.0570 J	0.180 J	**5.60**	<0.100	<0.100
	MW-133	Apr-15		<0.0320	<0.0280	<0.0260	<0.0420	<0.0330	0.199	<0.0330	0.108	**6.67**	<0.100	<0.100
	MW-134	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100 J4
	MW-134	Apr-19	FD	<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	MW-134	Oct-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	0.000442 J	<0.000326	<0.000719	<0.000367	<0.00100	0.00326 J
	MW-134	Oct-19	FD	<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	0.00106 J	<0.000367	<0.00100	0.00248 J
	MW-134	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-134	Jun-20	FD	<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-134	Oct-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-134	Oct-20	FD	<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-134	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-134	Apr-21	FD	<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-134	Sep-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-134	Sep-21	FD	<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-135	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100 J4
	MW-135	Oct-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	MW-135	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-135	Oct-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-135	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-135	Sep-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	0.00119	0.000707 J	<0.000101	<0.000430	0.00174 J
	MW-145	Oct-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000496 J	<0.000430	<0.00100
	MW-145	Oct-20	FD	<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000507 J	<0.000430	<0.00100
	MW-145	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111 J4	<0.000140	<0.000137	<0.000105	<0.000430	0.000546 J	<0.000430	<0.00100
	MW-145	Sep-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000998 J	<0.000430	<0.00100
	MW-146	Oct-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-146	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-146	Sep-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000125 J	<0.000430	<0.00100
	MW-146	Sep-21	FD	<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000105 J	<0.000430	<0.00100
	MW-147	Oct-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-147	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-147	Sep-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-148	Oct-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000183 J	<0.000430	<0.00100
	MW-148	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-148	Sep-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	RA-4196	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	0.00594	<0.00100	<0.00100
	RA-4196	Oct-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	0.00709	<0.00100	<0.00100
	RA-4196	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.00948	<0.000430	<0.00100
	RA-4196	Oct-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.00798	<0.000430	<0.00100
	RA-4798	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	RA-4798	Oct-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	0.00943	<0.00100	<0.00100
	RA-4798	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.0170	<0.000430	<0.00100
	RA-4798	Oct-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.00654	<0.000430	<0.00100
	RA-4798	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.0136	<0.000430	<0.00100
	RA-4798	Sep-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.0166	<0.000430	<0.00100
	RW-12R	Apr-17		<0.00162	<0.00138	<0.00130	<0.00209	<0.00164	0.00823	0.0591	0.0239	0.00210 J	<0.00500	0.00877 J
	RW-12R	Apr-18		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	0.00269	0.0459	0.00648	0.00315	<0.00100	0.00130 J
	RW-12R	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	0.00142	0.0316	0.00595	0.00341	<0.00100	<0.00100
	RW-12R	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	0.00223	0.0303	0.00553	0.00225	<0.000430	<0.00100
	RW-13R	Apr-16		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	0.0691	0.0117	0.0939	0.0779	<0.00100	0.0148
	RW-13R	Apr-18		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	0.00855	0.0177	0.0283	0.0559	<0.00100	0.00114 J
	RW-18A	Apr-17		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	RW-18A	Apr-18		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	RW-18A	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100 J4
	RW-18A	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	RW-20	Apr-15		<0.00320	<0.00280	<0.00260	<0.00420	<0.00330	**0.973**	0.0456	1.30	**0.209**	<0.0100	**0.183**
	RW-22	Apr-15		<0.00320	<0.00280	<0.00260	<0.00420	<0.00330	**1.09**	0.0525	0.850	**0.178**	<0.0100	**0.164**
NCL	MW-18	Apr-18		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	MW-18	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	MW-18	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000340 J	<0.000430	<0.00100 J4
	MW-18	Apr-21		<0.000111	<0.000960 J4	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000338 J	<0.000430	<0.00100
	MW-45	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	0.0108	<0.00100	<0.00100
	MW-45	Oct-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	0.00874	<0.00100	<0.00100
	MW-45	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.00634	<0.000430	<0.00100 J4
	MW-45	Oct-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.0124	<0.000430	<0.00100
	MW-45	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.00926	<0.000430	<0.00100
	MW-45	Sep-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	0.000162 J	0.000483 J	0.00981	<0.000430	<0.00100
	MW-53	Apr-16		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	MW-53	Apr-17		<0.000324	<0.000276	0.000391 J	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	MW-53	Apr-18		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	MW-53	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	MW-53R	Oct-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-53R	Apr-21		<0.000111	<0.000960 J4	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-54A	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	MW-54A	Oct-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	MW-54A	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-54A	Oct-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-54A	Apr-21		<0.000111	<0.000960 J4	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-54A	Sep-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	0.00170 J
	MW-54B	Apr-15		<0.000320	<0.000280	<0.000260	<0.000420	<0.000330	<0.000380	<0.000330	<0.000720	<0.000370	<0.00100	<0.00100
	MW-54B	Apr-17		<0.000324	<0.000276	0.000616 J	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	MW-54B	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	MW-54B	Apr-21		<0.000111	<0.000960 J4	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-55	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	0.0672	<0.00100	<0.00100
	MW-55	Oct-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	**0.106**	<0.00100	<0.00100
	MW-55	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	**0.228**	<0.000430	<0.00100
	MW-55	Oct-20		<0.00111	<0.00960	<0.00126	<0.00111	<0.00140	<0.00137	<0.00105	<0.00430	**0.299**	<0.00430	<0.0100
	MW-55	Apr-21		<0.00111	<0.00960 J4	<0.00126	<0.00111	<0.00140	<0.00137	<0.00105	<0.00430	**0.449**	<0.00430	<0.0100
	MW-55	Sep-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	**0.318**	<0.000430	<0.00100
	MW-56	Apr-18		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	0.00328	<0.00100	<0.00100
	MW-56	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	0.00208	<0.00100	<0.00100
	MW-56	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000339 J	<0.000430	<0.00100
	MW-56	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000138 J	<0.000430	<0.00100
	MW-108	Apr-19		<0.00162	<0.00138	<0.00130	<0.00209	<0.00164	0.00347 J	0.0409	0.0663	<0.00184	<0.00500	<0.00500
	MW-108	Oct-19		<0.00162	<0.00138	<0.00130	<0.00209	<0.00164	0.00383 J	0.0344	0.0621	<0.00184	<0.00500	0.00557 J
	MW-108	Jun-20		0.00126 J	<0.00480	<0.000630	<0.000555	<0.000700	0.00278 J	0.0235	0.0403	<0.000505	<0.00215	<0.00500 J4
	MW-108	Oct-20		<0.000555	<0.00480	<0.000630	<0.000555	<0.000700	<0.000685	0.0119	0.0176	<0.000505	<0.00215	<0.00500
	MW-108	Apr-21		<0.000555	<0.00480 J4	<0.000630	<0.000555	<0.000700	0.00278 J	0.0212	0.0313	<0.000505	<0.00215	<0.00500
	MW-108	Sep-21		<0.00111	<0.00960	<0.00126	<0.00111	<0.00140	<0.00137	0.0184	0.0194 J	0.00231 J	<0.00430	<0.0100

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Appendix C, Table C.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2020 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Volatile Organic Compounds										
				Analyte:	Chloroform	Chloro-methane	cis-1,2-Dichloro-ethene	cis-1,3-Dichloro-propene	Dibromo-chloromethane	Ethyl-benzene	Isopropyl-benzene (Cumene)	m,p-Xylene	Methyl tert-butyl ether (MTBE)	Methylene chloride	Naphthalene
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL:	0.0800	0.0203	0.0700	0.00471	0.0800	0.700	0.447	---	0.100	0.00500	0.0300
				CGWSL Source:	USEPA MCL	NMED TW	WQCC HH	USEPA TW	USEPA MCL	WQCC HH	WQCC TW	---	WQCC Dom	WQCC HH	WQCC HH
Area	Well ID	Date	Dup												
NCL	NCL-31	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	0.00251	<0.000719	<0.000367	<0.00100	<0.00100	
	NCL-31	Oct-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	0.000681 J	<0.000719	<0.000367	<0.00100	<0.00100	
	NCL-31	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	0.000241 J	0.000205 J	0.000667 J	<0.000101	<0.000430	<0.00100	J4
	NCL-31	Oct-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	0.000275 J	0.000108 J	0.000833 J	<0.000101	<0.000430	<0.00100	
	NCL-31	Apr-21		<0.000111	<0.000960 J4	<0.000126	<0.000111	<0.000140	0.000613 J	0.000251 J	0.000927 J	<0.000101	<0.000430	0.00252	J
	NCL-31	Sep-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	0.000152 J	<0.000430	<0.000101	<0.000430	0.00185	J
	NCL-32	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100	
	NCL-32	Oct-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100	
	NCL-32	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	J4
	NCL-32	Oct-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	
	NCL-32	Apr-21		<0.000111	<0.000960 J4	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	
	NCL-32	Sep-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	
	NCL-33	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100	
	NCL-33	Oct-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	0.000371 J	<0.00100	<0.00100	
	NCL-33	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000208 J	<0.000430	<0.00100	J4
	NCL-33	Oct-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000230 J	<0.000430	<0.00100	
	NCL-33	Apr-21		<0.000111	<0.000960 J4	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000449 J	<0.000430	<0.00100	
	NCL-33	Sep-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000377 J	<0.000430	<0.00100	
	NCL-34A	Oct-18		<0.00324	<0.00276	<0.00260	<0.00418	<0.00327	0.00672 J	0.0828	0.0266	<0.00367	<0.0100	<0.0100	
	NCL-34A	Apr-19		<0.00648	<0.00552	<0.00520	<0.00836	<0.00654	<0.00768	0.0808	<0.0144	<0.00734	<0.0200	<0.0200	J3J4
	NCL-34A	Oct-19		<0.00162	<0.00138	<0.00130	<0.00209	<0.00164	0.00677	0.0824	0.0175	<0.00184	<0.00500	<0.00500	
	NCL-34A	Jun-20		<0.00222	<0.0192	<0.00252	<0.00222	<0.00280	0.00476 J	0.0844	0.0335 J	<0.00202	<0.00860	<0.0200	J4
	NCL-44	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	0.00109	<0.000719	<0.000367	<0.00100	<0.00100	
	NCL-44	Oct-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	0.00154	<0.000719	<0.000367	<0.00100	<0.00100	
	NCL-44	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	0.00134	<0.000430	0.000383 J	<0.000430	<0.00100	J4
	NCL-44	Oct-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	0.00164	<0.000430	0.000412 J	<0.000430	<0.00100	
	NCL-44	Apr-21		<0.000111	<0.000960 J4	<0.000126	<0.000111	<0.000140	<0.000137	0.000426 J	<0.000430	0.000426 J	<0.000430	<0.00100	
	NCL-44	Sep-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	0.000503 J	<0.000430	0.000313 J	<0.000430	<0.00100	
	NCL-49	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100	
	NCL-49	Apr-19	FD	<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100	
	NCL-49	Oct-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100	
	NCL-49	Oct-19	FD	<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100	
	NCL-49	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	
	NCL-49	Jun-20	FD	<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	
	NCL-49	Oct-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	
	NCL-49	Oct-20	FD	<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	
	NCL-49	Apr-21		<0.000111	<0.000960 J4	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	
	NCL-49	Apr-21	FD	<0.000111	<0.000960 J4	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	
	NCL-49	Sep-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	
	NCL-49	Sep-21	FD	<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	
North Refinery	MW-23	Apr-19		<0.0324	<0.0276	<0.0260	<0.0418	<0.0327	0.0397 J	0.0949 J	<0.0719	<0.0367	<0.100	<0.100	
	MW-23	Oct-19		<0.00324	<0.00276	<0.00260	<0.00418	<0.00327	0.0105	0.0779	<0.00719	0.0336	<0.0100	**0.0359**	J
	MW-23	Jun-20		<0.00111	<0.00960	<0.00126	<0.00111	<0.00140	0.00865 J	0.101	<0.00430	0.0407	<0.00430	**0.0380**	J
	MW-23	Oct-20		<0.00111	<0.00960	<0.00126	<0.00111	<0.00140	0.0264	0.125	<0.00430	0.0751	<0.00430	**0.0750**	
	MW-29	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	0.00116	<0.00100	<0.00100	
	MW-29	Oct-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327 J4	0.000547 J	<0.000326	<0.000719	0.00208	<0.00100	<0.00100	
	MW-29	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	0.000183 J	<0.000430	0.00162	<0.000430	<0.00100	
	MW-29	Oct-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.00251	<0.000430	<0.00100	
	MW-29	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	0.000701 J	<0.000430	0.00190	<0.000430	<0.00100	
	MW-29	Sep-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.0238	<0.000430	<0.00100	
	MW-39	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	0.00689	0.0181	0.0354	0.000625 J	<0.00100	<0.00100	
	MW-39	Oct-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327 J4	0.00609	0.0225	0.0263	0.00113	<0.00100	<0.00100	
	MW-39	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111 J4	<0.000140	0.00317	0.0234	0.0232	0.00120	<0.000430	0.00109	J
	MW-39	Oct-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	0.00165	0.0123	0.0115	0.00138	<0.000430	0.00123	J
	MW-40	Apr-17		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	0.000721 J	0.0804	0.0117	<0.000367	<0.00100	<0.00100	
	MW-40	Apr-18		0.00196 J	<0.000276	<0.000260	<0.000418	<0.000327	0.000567 J	0.0930	0.00619	<0.000367	<0.00100	<0.00100	
	MW-40	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	0.0799	0.00157 J	<0.000367	<0.00100	<0.00100	
	MW-40	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	0.000220 J	0.0484	0.00241	<0.000101	<0.000430	<0.00100	
	MW-41	Apr-18		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	0.00791	<0.000719	0.00796	<0.00100	<0.00100	
	MW-41	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	0.0216	<0.000719	0.0178	<0.00100	<0.00100	
	MW-41	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	0.00729	<0.000430	0.0254	<0.000430	<0.00100	
	MW-41	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	0.00608	<0.000430	0.0267	<0.000430	<0.00100	
	MW-42	Apr-18		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	0.0256	0.00420	0.00598	<0.00100	<0.00100	
	MW-42	Apr-19		<0.00162	<0.00138	<0.00130	<0.00209	<0.00164	<0.00192	0.0331	0.0226	0.00655	<0.00500	<0.00500	
	MW-42	Jun-20		<0.000555	<0.00480	<0.000630	<0.000555	<0.000700	0.00108 J	0.0301	0.0535	0.0103	<0.00215	<0.00500	
	MW-42	Apr-21		<0.000555	<0.00480	<0.000630	<0.000555	<0.000700	<0.000685	0.0186	0.00852 J	0.0180	<0.00215	<0.00500	
	MW-43	Apr-19		<0.0648	<0.0552	<0.0520	<0.0836	<0.0654	<0.0768	<0.0652	0.744	<0.0734	<0.200	**0.307**	J
	MW-43	Oct-19		<0.0648	<0.0552	<0.0520	<0.0836	<0.0654	0.129 J	<0.0652	0.610	<0.0734	<0.200	**0.229**	J
	MW-43	Jun-20		0.00489 J	<0.0192	<0.00252	<0.00222	<0.00280	0.0311	0.0437	0.703	0.0347	<0.00860	**0.132**	
	MW-43	Oct-20		<0.00555	<0.0480	<0.00630	<0.00555	<0.00700	0.136	0.0453 J	0.852	0.0481 J	<0.0215	**0.105**	J
	MW-59	Apr-17		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	0.0175	<0.000719	<0.000367	<0.00100	<0.00100	
	MW-59	Apr-18		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	0.0236	<0.000719	<0.000367	<0.00100	<0.00100	
	MW-59	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	0.0207	<0.000719	<0.000367	<0.00100	<0.00100	
	MW-59	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	0.0103	<0.000430	0.00350	<0.000430	0.00202	J
	MW-60	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327 J4	<0.000384	0.0220	0.00202	<0.000367	<0.00100	<0.00100	
	MW-60	Apr-19	FD	<0.000324	<0.000276	<0.000260	<0.000418	<0.000327 J4	<0.000384	0.0217	0.00124 J	<0.000367	<0.00100	<0.00100	
	MW-60	Oct-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327 J4	0.000798 J	0.0233	0.0114	<0.000367	<0.00100	<0.00100	
	MW-60	Oct-19	FD	<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	0.000739 J	0.0227	0.0108	<0.000367	<0.00100	<0.00100	
	MW-60	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	0.000281 J	0.0145	0.00157 J	<0.000101	<0.000430	<0.00100	
	MW-60	Jun-20	FD	<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	0.000296 J	0.0126	0.00194 J	<0.000101	<0.000430	<0.00100	
	MW-60	Oct-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	0.000461 J	0.0231	0.00238	0.000168 J	<0.000430	<0.00100	
	MW-60	Oct-20	FD	<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	0.000472 J	0.0231	0.00224	0.000180 J	<0.000430	<0.00100	J4
	MW-61	Apr-19		<0.0162	<0.0138	<0.0130	<0.0209	<0.0164	0.0512	0.0994	0.483	<0.0184	<0.0500	**0.117**	J
	MW-61	Oct-19		<0.0162	<0.0138	<0.0130	<0.0209	<0.0164	0.0550	0.116	0.571	<0.0184	<0.0500	**0.211**	J
	MW-61	Jun-20		<0.00555	<0.0480	<0.00630	<0.00555	<0.00700	0.0545	0.0906	0.611	<0.00505	<0.0215	**0.177**	J
	MW-61	Oct-20		<0.00555	<0.0480	<0.00630	<0.00555	<0.00700	0.0519	0.107	0.695	0.0110 J	<0.0215	**0.177**	J
	MW-61	Apr-21		<0.00555	<0.0480	<0.00630	<0.00555	<0.00700	0.0587	0.0757	0.568	0.00740 J	<0.0215	**0.185**	J
	MW-61	Sep-21		<0.00555	<0.0480	<0.00630	<0.00555	<0.00700	0.110	0.102	0.789	0.0286 J	<0.0215	**0.190**	J
	MW-62	Apr-19		<0.00648	<0.00552	<0.00520	<0.00836	<0.00654	0.0652	0.117	0.988	<0.00734	<0.0200	**0.177**	
	MW-62	Oct-19		<0.00648	<0.00552	<0.00520	<0.00836	<0.00654	0.0653	0.124	0.874	0.0449	<0.0200	**0.177**	
	MW-62	Jun-20		<0.00222	<0.0192	<0.00252	<0.00222	<0.00280	0.0506	0.0647	0.557	0.0672	<0.00860	**0.177**	
	MW-62	Oct-20		<0.00222	<0.0192	<0.00252	<0.00222	<0.00280	0.151	0.0974	0.757	0.0836	<0.00860	**0.116**	
	MW-62	Sep-21		<0.00555	<0.0480	<0.00630	<0.00555	<0.00700	**0.773**	0.152	2.34	**0.120**	<0.0215	**0.344**	
	MW-62R	Oct-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	0.0302	0.162	0.136	0.0107	<0.000430	**0.0790**	
	MW-62R	Apr-21		<0.00555	<0.0480	<0.00630	<0.00555	<0.00700	0.0287 J	0.136	<0.0215	0.00545 J	<0.0215	<0.0500	
	MW-67	Oct-17		<0.000324	<0.000276	0.00275	<0.000418	<0.000327	0.00330	0.0300	0.00245	**0.201**	<0.00100	<0.00100	
	MW-67	Apr-18		<0.00162	<0.00138	<0.00130	<0.00209	<0.00164	0.00500	0.0470	0.00916 J	**0.219**	<0.00500	<0.00500	
	MW-67	Oct-18		<0.000324	<0.000276	0.00122	<0.000418	<0.000327	0.000620 J	0.0231	0.00113 J	**0.289**	<0.00100	<0.00100	
	MW-67	Apr-19		<0.00162	<0.00138	<0.00130	<0.00209	<0.00164	0.00237 J	0.0348	<0.00360	**0.140**	<0.00500	<0.00500	

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Appendix C, Table C.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2020 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Volatile Organic Compounds										
				Analyte:	Chloroform	Chloro-methane	cis-1,2-Dichloro-ethene	cis-1,3-Dichloro-propene	Dibromo-chloromethane	Ethyl-benzene	Isopropyl-benzene (Cumene)	m,p-Xylene	Methyl tert-butyl ether (MTBE)	Methylene chloride	Naphthalene
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL:	0.0800	0.0203	0.0700	0.00471	0.0800	0.700	0.447	---	0.100	0.00500	0.0300
				CGWSL Source:	USEPA MCL	NMED TW	WQCC HH	USEPA TW	USEPA MCL	WQCC HH	WQCC TW	---	WQCC Dom	WQCC HH	WQCC HH
Area	Well ID	Date	Dup												
North Refinery	MW-90	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	0.0289	<0.000719	<0.000367	<0.00100	<0.00100
	MW-90	Oct-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327 J4	0.000557 J	0.0259	<0.000719	<0.000367	<0.00100	<0.00100
	MW-90	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	0.000290 J	0.0353	<0.000430	<0.000101	<0.000430	<0.00100
	MW-90	Oct-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	0.000310 J	0.0462	<0.000430	<0.000101	<0.000430	<0.00100
	MW-90	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111 J4	<0.000140	0.000228 J	0.0406	<0.000430	<0.000101	<0.000430	<0.00100
	MW-90	Sep-21		<0.00111	<0.00960	<0.00126	<0.00111	<0.00140	<0.00137	0.0265	<0.00430	<0.00101	<0.00430	<0.0100
	MW-91	Oct-18		<0.0324	<0.0276	<0.0260	<0.0418	<0.0327	0.210	0.0813 J	0.552	<0.0367	<0.100	<0.100
	MW-91	Apr-19		<0.0324	<0.0276	**0.0926 J**	<0.0418	<0.0327	0.481	0.0850 J	0.612	<0.0367	<0.100	<0.100
	MW-91	Oct-19		<0.0324	<0.0276	<0.0260	<0.0418	<0.0327 J4	**1.48**	0.115	1.57	<0.0367	<0.100	<0.100
	MW-91	Jun-20		<0.0111	<0.0960	<0.0126	<0.0111	<0.0140	**1.85**	0.105	1.85	<0.0101	<0.0430	<0.100
	MW-92	Apr-16		<0.000324	<0.000276	0.0640	<0.000418	<0.000327	0.462	0.0373	0.161	**0.113**	<0.00100	**0.224 J**
	MW-92	Oct-16		<0.00648	<0.00552	**0.0968**	<0.00836	<0.00654	0.400	0.0242	0.0947	**0.134**	<0.0200	**0.174**
	MW-93	Apr-17		<0.00810	<0.00690	<0.00650	<0.0104	<0.00818	<0.00960	0.0355	0.326	<0.00918	<0.0250	**0.0422 J**
	MW-93	Apr-18		<0.000324	<0.000276	0.000281 J	<0.000418	<0.000327	0.00738	0.0359	0.332	<0.000367	<0.00100	0.0256
	MW-93	Apr-19		<0.000324	<0.000276	0.000267 J	<0.000418	<0.000327	0.00962	0.0340	0.299	<0.000367	<0.00100	**0.0482**
	MW-93	Jun-20		<0.00222	<0.0192	<0.00252	<0.00222	<0.00280	0.00622 J	0.0262	0.296	<0.00202	<0.00860	**0.0519 J**
	MW-94	Oct-15		<0.00324	<0.00276	<0.00260	<0.00418	<0.00327	0.509	0.0646	0.214	**0.798**	<0.0100	**0.202**
	MW-94	Apr-16		<0.0162	<0.0138	0.0149 J	<0.0209	<0.0164	0.553	0.0776	0.228	**0.621**	<0.0500	**0.228 J**
	MW-94	Oct-16		<0.00162	<0.00138	<0.00130	<0.00209	<0.00164	0.564	0.0705	0.202	**2.01**	<0.00500	**0.128**
	MW-94	Apr-17		<0.00810	<0.00690	<0.00650	<0.0104	<0.00818	0.432	0.0621	0.168	**0.958**	<0.0250	**0.174**
	MW-95	Apr-17		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	0.0114	<0.000719	<0.000367	<0.00100	<0.00100
	MW-95	Apr-18		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	0.0122	<0.000719	<0.000367	<0.00100	<0.00100
	MW-95	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	0.00797	<0.000719	<0.000367	<0.00100	<0.00100
	MW-95	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	0.000196 J	0.00904	<0.000430	<0.000101	<0.000430	<0.00100
	MW-96	Apr-19		<0.0162	<0.0138	<0.0130	<0.0209	<0.0164	<0.0192	0.0919	<0.0360	**32.7**	<0.0500	<0.0500
	MW-96	Oct-19		<0.0162	<0.0138	<0.0130	<0.0209	<0.0164	<0.0192	0.0614	<0.0360	**33.3**	<0.0500	<0.0500
	MW-96	Jun-20		<0.0278	<0.240	<0.0315	<0.0278	<0.0350	<0.0343	0.0848 J	<0.108	**37.6**	<0.108	<0.250
	MW-96	Oct-20		<0.0278	<0.240	<0.0315	<0.0278	<0.0350	<0.0343	0.0931 J	<0.108	**40.5**	<0.108	<0.250
	MW-96	Sep-21		<0.00111	<0.00960	<0.00126	<0.00111	<0.00140	0.00320 J	0.0683	<0.00430	**29.5**	<0.00430	0.0248 J
	MW-98	Apr-19		<0.0162	<0.0138	<0.0130	<0.0209	<0.0164	**1.18**	0.0988	2.16	<0.0184	<0.0500	**0.251**
	MW-98	Oct-19		<0.0162	<0.0138	<0.0130	<0.0209	<0.0164	**0.870**	0.0947	1.84	<0.0184	<0.0500	**0.301**
	MW-98	Jun-20		<0.00555	<0.0480	<0.00630	<0.00555 J4	<0.00700	**0.711**	0.120	2.14	<0.00505	<0.0215	**0.255**
	MW-98	Oct-20		<0.00555	<0.0480	<0.00630	<0.00555	<0.00700	**0.788**	0.0840	1.85	<0.00505	<0.0215	**0.207 J**
	MW-98	Apr-21		<0.00555	<0.0480	<0.00630	<0.00555 J4	<0.00700	**0.938**	0.0818	1.81	<0.00505	<0.0215	**0.294**
	MW-98	Sep-21		<0.00555	<0.0480	<0.00630	<0.00555	<0.00700	0.629	0.0816	1.73	<0.00505	<0.0215	**0.223 J**
	MW-137	Oct-17		<0.0648	<0.0552	<0.0520	<0.0836	<0.0654	**1.53**	0.113 J	0.891	0.0754 J	<0.200	**0.317 J**
	MW-137	Apr-18		<0.0648	<0.0552	<0.0520	<0.0836	<0.0654	**1.86**	0.117 J	0.905	0.0758 J	<0.200	**0.373 J**
	MW-137	Oct-18		<0.0648	<0.0552	<0.0520	<0.0836	<0.0654	**1.09**	0.0812 J	0.523	0.0876 J	<0.200	**0.237 J**
	MW-137	Apr-19		<0.0648	<0.0552	<0.0520	<0.0836	<0.0654	**1.21**	0.0714 J	0.547	<0.0734	<0.200	<0.200
	MW-138	Oct-17		<0.00162	<0.00138	<0.00130	<0.00209	<0.00164	0.0244	0.0579	0.00565 J	**0.163**	<0.00500	**0.0635**
	MW-138	Apr-18		<0.00162	<0.00138	<0.00130	<0.00209	<0.00164	0.222	0.0572	0.0438	**0.188**	<0.00500	**0.0667**
	MW-138	Oct-18		<0.00162	<0.00138	<0.00130	<0.00209	<0.00164	0.423	0.0543	0.109	**0.269**	**0.00504 J**	**0.0379**
	MW-138	Apr-19		<0.00162	<0.00138	<0.00130	<0.00209	<0.00164	0.389	0.0611	0.0968	**0.171**	<0.00500	**0.0377**
	RW-1R	Apr-16		<0.000324	<0.000276	**2.14**	<0.000418	<0.000327	0.0214	<0.000326	0.0111	0.0133	<0.00100	0.00762
	RW-1	Apr-17		<0.00324	<0.00276	**0.624**	<0.00418	<0.00327	0.0169	0.00424 J	0.00743 J	0.0441	<0.0100	<0.0100
	RW-1	Apr-18		<0.000324	<0.000276	**0.681**	<0.000418	<0.000327	0.0964	0.0316	0.0827	0.0292	<0.00100	0.0132
	RW-1	Apr-19		<0.000324	<0.000276	**0.980**	<0.000418	<0.000327	0.102	0.0222	0.0803	0.0218	<0.00100	0.00849
	RW-2	Apr-15		<0.00320	<0.00280	**0.619**	<0.00420	<0.00330 UJ	**1.02**	0.0551	0.445	<0.00370	<0.0100 UJ	**0.157 J**
	RW-2R	Apr-16		<0.0162	<0.0138	**0.555**	<0.0209	<0.0164	0.591	0.0332 J	0.253	0.0226 J	<0.0500	**0.145 J**
	RW-2	Apr-17		<0.0162	<0.0138	**0.828**	<0.0209	<0.0164	**0.837**	0.0533	0.413	<0.0184	<0.0500	**0.145 J**
	RW-2	Apr-18		<0.000324	<0.000276	**0.543**	<0.000418	<0.000327	0.672	0.0769	0.440	0.0120	<0.00100	**0.190**
	RW-7	Apr-17		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	0.0325	<0.00100	<0.00100
	RW-7	Apr-18		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	0.00132	0.00650	0.00431	0.0378	<0.00100	0.00204 J
	RW-7	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	0.00312	0.000961 J	0.0229	<0.00100	<0.00100
	RW-7	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	0.000204 J	0.00809	0.00209	0.00825	<0.000430	<0.00100
	RW-8	Apr-15		<0.00320	<0.00280	<0.00260	<0.00420	<0.00330	0.00801 J	0.0204	<0.00720	**2.41**	**0.0113 J**	<0.0100
	RW-8	Apr-17		<0.000324	<0.000276	0.000478 J	<0.000418	<0.000327	0.0198	0.0193	0.0386	**1.94**	<0.00100	**0.0320**
	RW-9	Apr-18		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	0.00159	0.100	0.0180	0.00409	<0.00100	<0.00100
	RW-9	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	0.00108	0.0952	0.00929	0.00439	<0.00100	<0.00100
	RW-9	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	0.000448 J	0.0791	0.000974 J	0.0674	<0.000430	<0.00100
	RW-9	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	0.000652 J	0.0758	0.00127 J	**0.219**	<0.000430	0.00212 J
	RW-10	Apr-18		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	0.000727 J	0.00307	0.00126 J	<0.000367	<0.00100	<0.00100
	RW-10	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	0.000633 J	0.00242	0.000967 J	<0.000367	<0.00100	<0.00100
	RW-10	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111 J4	<0.000140	0.000865 J	0.00269	0.00152 J	0.000418 J	<0.000430	<0.00100
	RW-10	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111 J4	<0.000140	0.00500	0.00387	0.00301	0.00268	<0.000430	0.00196 J
	RW-16B	Apr-17		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	0.0152	<0.00100	<0.00100
	RW-16B	Apr-18		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	0.00172	<0.00100	<0.00100
	RW-16B	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	0.00166	<0.00100	<0.00100
	RW-16B	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	0.000328 J	<0.000105	0.000872 J	0.00482	<0.000430	<0.00100
	RW-17A	Apr-17		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	**0.189**	<0.00100	<0.00100
	RW-17A	Apr-18		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	**0.107**	<0.00100	<0.00100
	RW-17A	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327 J4	<0.000384	<0.000326	<0.000719	0.0434	<0.00100	<0.00100
	RW-17A	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
North RO Field	MW-117	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	MW-117	Oct-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	MW-117	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000222 J	<0.000430	<0.00100
	MW-117	Oct-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.00195	<0.000430	<0.00100
	MW-117	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.00284	<0.000430	<0.00100
	MW-117	Sep-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.0580	<0.000430	<0.00100
	MW-118	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	MW-118	Oct-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	MW-118	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-118	Oct-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	0.000149 J	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-118	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-118	Sep-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000139 J	<0.000430	<0.00100
	MW-119	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	MW-119	Oct-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	MW-119	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-119	Oct-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-119	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111 J4	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-119	Sep-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
South Refinery	KWB-2R	Apr-17		0.00360 J	<0.000276	<0.000260	<0.000418	<0.000327	0.00543	0.00816	0.0273	0.0192	<0.00100	0.00609
	KWB-2R	Oct-17		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	0.325	0.0635	0.183	0.0202	<0.00100	**0.0675**
	KWB-2R	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	0.686	0.0403	0.175	0.0235	<0.00100	0.00993 J4
	KWB-2R	Oct-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327 J4	0.264	0.0724	0.109	0.0216	<0.00100	**0.0323**
	KWB-5	Oct-17		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.0960	0.00852	<0.180	**12.4**	<0.00100	0.0131
	KWB-5	Apr-18		<0.0810	<0.0690	<0.0650	<0.104	<0.0818	<0.0960	<0.0815	<0.180	**10.3**	<0.250	<0.250
	KWB-5	Oct-18		<0.0810	<0.0690	<0.0650	<0.104	<0.0818	<0.0960	<0.0815	<0.180	**10.8**	<0.250	<0.250
	KWB-5	Apr-19		<0.0810	<0.0690	<0.0650	<0.104	<0.0818	<0.0960	<0.0815	<0.180	**9.94**	<0.250	<0.250 J4

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Appendix C, Table C.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2020 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

Analyte Group:				Volatile Organic Compounds											
			Analyte:	Chloroform	Chloro-methane	cis-1,2-Dichloro-ethene	cis-1,3-Dichloro-propene	Dibromo-chloromethane	Ethyl-benzene	Isopropyl-benzene (Cumene)	m,p-Xylene	Methyl tert-butyl ether (MTBE)	Methylene chloride	Naphthalene
			Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
			CGWSL:	0.0800	0.0203	0.0700	0.00471	0.0800	0.700	0.447	---	0.100	0.00500	0.0300
			CGWSL Source:	USEPA MCL	NMED TW	WQCC HH	USEPA TW	USEPA MCL	WQCC HH	WQCC TW	---	WQCC Dom	WQCC HH	WQCC HH
Area	Well ID	Date	Dup											
South Refinery	KWB-6	Apr-17		<0.00162	<0.00138	<0.00130	<0.00209	<0.00164	0.346	0.0344	0.373	**0.154**	<0.00500	**0.0563**
	KWB-6	Oct-17		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	0.183	0.0199	0.275	**0.102**	<0.00100	**0.0436**
	KWB-6	Apr-18		<0.00648	<0.00552	<0.00520	<0.00836	<0.00654	0.156	0.0252	0.223	**0.122**	<0.0200	**0.0587** J
	KWB-6	Oct-18		<0.00648	<0.00552	<0.00520	<0.00836	<0.00654	0.102	0.0133 J	0.356	**0.120**	<0.0200	**0.0469** J
	MW-28	Apr-19		<0.0162	<0.0138	<0.0130	<0.0209	<0.0164	0.0274 J	0.0436 J	0.140	**0.268**	<0.0500	**0.0736** J
	MW-28	Oct-19		<0.0162	<0.0138	<0.0130	<0.0209	<0.0164	0.0375 J	0.0755	0.264	**0.692**	<0.0500	**0.137** J
	MW-28	Jun-20		0.00390 J	<0.00480	<0.000630	<0.000555	<0.000700	0.0201	0.0246	0.0901	**0.194**	<0.00215	0.0157 J
	MW-28	Oct-20		<0.000555	<0.00480	<0.000630	<0.000555	<0.000700	0.0136	0.0192	0.0609	**0.214**	<0.00215	0.00638 J
	MW-48	Apr-18		<0.0810	<0.0690	<0.0650	<0.104	<0.0818	**1.36**	<0.0815	0.954	**0.171** J	<0.250	<0.250
	MW-48	Oct-18		<0.0810	<0.0690	<0.0650	<0.104	<0.0818	0.479	0.0962 J	0.358 J	**0.611**	<0.250	<0.250
	MW-48	Apr-19		<0.0810	<0.0690	<0.0650	<0.104	<0.0818	0.603	0.122 J	0.498 J	**0.372**	<0.250	**1.20** JJ4
	MW-48	Oct-19		<0.0810	<0.0690	<0.0650	<0.105	<0.0817	0.118 J	<0.0815	0.290 J	**0.517**	<0.250	<0.250
	MW-50	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	MW-50	Oct-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327 J4	0.000417 J	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	MW-50	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	0.000106 J	<0.000430	<0.000101	<0.000430	<0.00100
	MW-50	Oct-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	0.000110 J	<0.000430	<0.000101	<0.000430	<0.00100
	MW-50	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111 J4	<0.000140	<0.000137	0.000135 J	<0.000430	<0.000101	<0.000430	<0.00100
	MW-50	Sep-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	0.000722 J	<0.000430	<0.000101	<0.000430	<0.00100
	MW-52	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100 J4
	MW-52	Oct-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	MW-52	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-52	Oct-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-52	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-52	Sep-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-64	Apr-19		<0.00648	<0.00552	<0.00520	<0.00836	<0.00654	**2.46**	0.0702	3.90	**0.509**	<0.0200	**0.171**
	MW-64	Oct-19		<0.00810	<0.00690	<0.00650	<0.0105	<0.00818 J4	**2.79**	0.0758	3.92	**0.502**	<0.0250	**0.133**
	MW-64	Jun-20		<0.0555	<0.480	<0.0630	<0.0555 J4	<0.0700	**1.76**	0.0605 J	3.26	**0.461** J	<0.215	<0.500
	MW-64	Oct-20		<0.0555	<0.480	<0.0630	<0.0555	<0.0700	**1.55**	0.0640 J	2.31	**0.560**	<0.215	<0.500
	MW-64	Apr-21		<0.0555	<0.480	<0.0630	<0.0555	<0.0700	**1.80**	0.0599 J	3.22	**0.431** J	<0.215	<0.500
	MW-64	Sep-21		<0.00555	<0.0480	<0.00630	<0.00555	<0.00700	**1.03**	0.0278 J	2.24	**0.491**	<0.0215	**0.105** J
	MW-65	Apr-18		<0.0324	<0.0276	<0.0260	<0.0418	<0.0327	0.0528 J	0.0594 J	<0.0719	**1.73**	<0.100	**0.253** J
	MW-65	Oct-18		<0.0324	<0.0276	<0.0260	<0.0418	<0.0327	<0.0384	0.0545 J	<0.0719	**2.38**	<0.100	<0.100
	MW-65	Apr-19		<0.0324	<0.0276	<0.0260	<0.0418	<0.0327	0.0628 J	0.0535 J	<0.0719	**2.35**	<0.100	**0.152** J
	MW-65	Oct-19		<0.0324	<0.0276	<0.0260	<0.0418	<0.0327 J4	0.0565 J	0.0608 J	<0.0719	**1.82**	<0.100	**0.148** J
	MW-66	Apr-19		<0.00810	<0.00690	<0.00650	<0.0104	<0.00818	<0.00960	0.0366	<0.0180	**1.36**	<0.0250	**0.0987** J
	MW-66	Oct-19		<0.00810	<0.00690	<0.00650	<0.0105	<0.00818	<0.00960	0.0446	<0.0180	**1.69**	<0.0250	**0.0758** J
	MW-66	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	0.00717	0.0552	0.0121	**1.62**	<0.000430	**0.167**
	MW-66	Oct-20		<0.00111	<0.00960	<0.00126	<0.00111	<0.00140	0.00643 J	0.0424	0.00604 J	**1.90**	<0.00430	**0.0737**
	MW-66	Apr-21		<0.00111	<0.00960	<0.00126	<0.00111	<0.00140	0.0185	0.0296	0.0223	**3.15**	<0.00430	**0.0620**
	MW-99	Oct-18		<0.0324	<0.0276	<0.0260	<0.0418	<0.0327	0.201	0.0672 J	0.358	**3.10**	<0.100	<0.100
	MW-99	Apr-19		<0.0324	<0.0276	<0.0260	<0.0418	<0.0327	0.491	0.0480 J	0.379	**2.24**	<0.100	<0.100
	MW-99	Oct-19		<0.0324	<0.0276	<0.0260	<0.0418	<0.0327	0.241	<0.0326	0.218	**0.533**	<0.100	<0.100
	MW-99	Jun-20		<0.00111	<0.00960	<0.00126	<0.00111	<0.00140	0.0866	0.0139	0.0721	**0.379**	<0.00430	<0.0100
	MW-101	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	0.000950 J	<0.000719	0.0830	<0.00100	<0.00100
	MW-101	Oct-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	0.00284	<0.000719	0.0766	<0.00100	0.00270 J
	MW-101	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111 J4	<0.000140	0.000302 J	0.00538	<0.000430	0.0502	<0.000430	<0.00100
	MW-101	Oct-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	0.0180	0.0205	0.0771	0.0532	<0.000430	0.0180
	MW-101	Apr-21		<0.00222	<0.0192	<0.00252	<0.00222	<0.00280	0.0141 J	0.0155 J	<0.00860	0.0567	<0.00860	<0.0200
	MW-101	Sep-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	0.00801	0.0149	0.00348	0.0635	<0.000430	0.00215 J
	MW-102	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	0.0389	0.362	**1.79**	<0.00100	**0.178**
	MW-102	Oct-19		<0.0162	<0.0138	<0.0130	<0.0209	<0.0164	**0.908**	0.0535	0.450	**1.55**	<0.0500	**0.179** J
	MW-102	Jun-20		<0.0111	<0.0960	<0.0126	<0.0111	<0.0140	0.477	0.0273 J	0.188 J	**0.719**	<0.0430	**0.142** J
	MW-102	Oct-20		<0.0111	<0.0960	<0.0126	<0.0111	<0.0140	0.537	0.0289 J	0.227	**1.20**	<0.0430	**0.127** J
	MW-102	Apr-21		<0.0111	<0.0960	<0.0126	<0.0111	<0.0140	0.418	0.0336 J	0.165 J	**1.23**	<0.0430	**0.156** J
	MW-102	Sep-21		<0.00555	<0.0480	<0.00630	<0.00555	<0.00700	0.645	0.0373 J	0.248	**1.22**	<0.0215	**0.172** J
	MW-102	Sep-21	FD	<0.00555	<0.0480	<0.00630	<0.00555	<0.00700	0.654	0.0368 J	0.253	**1.22**	<0.0215	**0.186** J
	MW-103	Apr-18		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	0.0384	0.0303	0.00775	<0.000367	<0.00100	**0.116**
	MW-103	Apr-19		<0.00648	<0.00552	<0.00520	<0.00836	<0.00654	0.0573	0.0247	<0.0144	<0.00734	<0.0200	0.0256 J
	MW-103	Jun-20		<0.00222	<0.0192	<0.00252	<0.00222 J4	<0.00280	0.00844 J	0.0295	<0.00860	<0.00202	<0.00860	<0.0200
	MW-103	Apr-21		<0.00222	<0.0192	<0.00252	<0.00222	<0.00280	0.00314 J	0.0276	<0.00860	<0.00202	<0.00860	<0.0200
	MW-104	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	0.000633 J	0.0376	<0.000719	0.00178	<0.00100	<0.00100
	MW-104	Apr-19	FD	<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	0.0300	<0.000719	0.00158	<0.00100	<0.00100
	MW-104	Oct-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327 J4	0.00330	0.0286	<0.000719	0.00165	<0.00100	0.00216 J
	MW-104	Oct-19	FD	<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	0.00250	0.0258	<0.000719	<0.00184	<0.00100	0.00208 J
	MW-104	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111 J4	<0.000140	<0.000137	0.0324	<0.000430	0.000680 J	<0.000430	<0.00100
	MW-104	Jun-20	FD	<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	0.000161 J	0.0263	<0.000430	0.000790 J	<0.000430	<0.00100
	MW-104	Oct-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	0.0256	<0.000430	0.000402 J	<0.000430	<0.00100
	MW-104	Oct-20	FD	<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	0.0221	<0.000430	0.000506 J	<0.000430	<0.00100
	MW-104	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111 J4	<0.000140	<0.000137	0.0228	<0.000430	0.000406 J	<0.000430	<0.00100
	MW-104	Apr-21	FD	<0.000111	<0.000960	<0.000126	<0.000111 J4	<0.000140	<0.000137	0.0229	<0.000430	0.000417 J	<0.000430	<0.00100
	MW-104	Sep-21		<0.000555	<0.00480	<0.000630	<0.000555	<0.000700	<0.000685	0.0202	<0.00215	<0.000505	<0.00215	<0.00500 J3
	MW-105	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327 J4	0.0988	0.0379	0.239	0.00541	<0.00100	**0.0334**
	MW-105	Oct-19		<0.0162	<0.0138	<0.0130	<0.0209	<0.0164	0.0963	0.0367 J	0.308	<0.0184	<0.0500	**0.134** J
	MW-105	Jun-20		<0.00555	<0.0480	<0.00630	<0.00555	<0.00700	0.0282 J	0.0329 J	0.237	0.0234 J	<0.0215	<0.0500
	MW-105	Oct-20		<0.00555	<0.0480	<0.00630	<0.00555	<0.00700	0.584	0.0432 J	0.371	0.0230 J	<0.0215	**0.0778** J
	MW-105	Apr-21		<0.0111	<0.0960	<0.0126	<0.0111	<0.0140	0.0453 J	0.0498 J	0.215	0.0296 J	<0.0430	<0.100
	MW-106	Apr-19		<0.162	<0.138	<0.130	<0.209	<0.164 J4	<0.192	0.305 J	<0.360	<0.184	<0.500	**1.24** J
	MW-106	Oct-19		<0.0162	<0.0138	<0.0130	<0.0209	<0.0164	0.0301 J	0.0336 J	0.196	0.0757	<0.0500	**0.148** J
	MW-106	Jun-20		<0.0111	<0.0960	<0.0126	<0.0111	<0.0140	0.0662 J	0.0273 J	0.173 J	0.0672 J	<0.0430	<0.100
	MW-106	Oct-20		<0.0222	<0.192	<0.0252	<0.0222	<0.0280	0.161 J	0.0376 J	0.253 J	**0.105** J	<0.0860	<0.200
	MW-106	Apr-21		<0.0222	<0.192	<0.0252	<0.0222 J4	<0.0280	0.101 J	0.0374 J	0.245 J	0.0746 J	<0.0860	<0.200
	MW-107	Oct-16		<0.00162	<0.00138	<0.00130	<0.00209	<0.00164	0.0192	0.0457	0.00857 J	**3.05**	<0.00500	**0.0614**
	MW-107	Apr-17		<0.0162	<0.0138	<0.0130	<0.0209	<0.0164	<0.0192	0.0334 J	<0.0360	**2.78**	<0.0500	**0.0788** J
	MW-107	Apr-18		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	0.0382	0.0576	0.0130	**3.02**	<0.00100	**0.143**
	MW-107	Apr-19		<0.0810	<0.0690	<0.0650	<0.104	<0.0818	<0.0960	<0.0815	<0.180	**3.39**	<0.250	<0.250
	MW-109	Apr-19		<0.00648	<0.00552	<0.00520	<0.00836	<0.00654	0.0115 J	0.0606	0.0183 J	<0.00734	<0.0200	<0.0200 J4
	MW-109	Oct-19		<0.00162	<0.00138	<0.00130	<0.00209	<0.00164	0.00829	0.0523	0.0136	<0.00184	<0.00500	<0.00500
	MW-109	Jun-20		<0.00111	<0.00960	<0.00126	<0.00111	<0.00140	0.00892 J	0.0746	0.0238	<0.00101	<0.00430	<0.0100
	MW-109	Oct-20		<0.00111	<0.00960	<0.00126	<0.00111	<0.00140	0.00637 J	0.0619	0.0114 J	<0.00101	<0.00430	<0.0100
	MW-109	Apr-21		<0.00111	<0.00960	<0.00126	<0.00111	<0.00140	0.00539 J	0.0482	0.00555 J	<0.00101	<0.00430	<0.0100
	MW-109	Sep-21		<0.00278	<0.0240	<0.00315	<0.00278	<0.00350	0.00952 J	0.0741	0.0145 J	<0.00253	<0.0107	<0.0250

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Appendix C, Table C.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2020 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

Analyte Group:				Volatile Organic Compounds											
Analyte:				Chloroform	Chloro-methane	cis-1,2-Dichloro-ethene	cis-1,3-Dichloro-propene	Dibromo-chloromethane	Ethyl-benzene	Isopropyl-benzene (Cumene)	m,p-Xylene	Methyl tert-butyl ether (MTBE)	Methylene chloride	Naphthalene
Units:				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
CGWSL:				0.0800	0.0203	0.0700	0.00471	0.0800	0.700	0.447	---	0.100	0.00500	0.0300
CGWSL Source:				USEPA MCL	NMED TW	WQCC HH	USEPA TW	USEPA MCL	WQCC HH	WQCC TW	---	WQCC Dom	WQCC HH	WQCC HH
Area	**Well ID**	**Date**	**Dup**											
South Refinery	MW-110	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	0.000675 J	0.00922	0.00169 J	<0.000367	<0.00100	<0.00100 J4
	MW-110	Oct-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	0.000929 J	<0.000719	<0.000367	<0.00100	<0.00100
	MW-110	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	0.000357 J	0.00747	0.00123 J	<0.000101	<0.000430	<0.00100
	MW-110	Oct-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	0.000175 J	0.00157	<0.000430	<0.000101	<0.000430	<0.00100
	MW-110	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	0.000193 J	0.0104	0.000578 J	<0.000101	<0.000430	<0.00100
	MW-110	Sep-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	0.00737	0.00315	<0.000101	<0.000430	0.00207 J
	MW-139	Oct-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	0.0187	<0.000719	<0.000367	<0.00100	<0.00100
	MW-139	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	0.0102	<0.000430	<0.000101	<0.000430	<0.00100
	MW-139	Oct-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	0.00832	<0.000430	<0.000101	<0.000430	0.00410 J
	MW-139	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111 J4	<0.000140	<0.000137	0.00437	<0.000430	<0.000101	<0.000430	<0.00100
	MW-139	Sep-21		<0.000111	<0.000960	0.000128 JB	<0.000111	<0.000140	<0.000137	0.0163	<0.000430	<0.000101	<0.000430	<0.00100
	RA-313	Apr-18		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	RA-313	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100 J4
	RA-313	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	RA-313	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	RW-4	Apr-17		<0.00162	<0.00138	<0.00130	<0.00209	<0.00164	<0.00192	0.00716	<0.00360	**0.132**	<0.00500	<0.00500
	RW-4	Apr-18		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	0.00618	<0.000719	0.0583	<0.00100	0.00103 J
	RW-4	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	0.00198	0.0159	0.00147 J	0.0933	<0.00100	0.0266
	RW-4	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	0.00185	0.0254	0.00270	0.0727	<0.000430	<0.00100
	RW-5R	Apr-15		<0.00320	<0.00280	<0.00260	<0.00420	<0.00330	**1.03**	0.0398	1.39	**2.15**	<0.0100	**0.174**
	RW-5R	Apr-16		<0.00648	<0.00552	<0.00520	<0.00836	<0.00654	**1.20**	0.0643	1.68	**1.64**	<0.0200	**0.205**
	RW-6	Apr-15		<0.00320	<0.00280	<0.00260	<0.00420	<0.00330	0.0476	0.0173	0.102	**2.27**	<0.0100	**0.0602**
	RW-6R	Apr-16		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	0.00474	0.00797	0.00472	**2.68**	<0.00100	0.00574
	RW-6	Apr-18		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	0.0838	0.0299	0.0926	<0.000367	<0.00100	0.0290
	RW-6	Apr-19		<0.00648	<0.00552	<0.00520	<0.00836	<0.00654	0.0487	0.0327	0.0224 J	**0.792**	<0.0200	**0.0678** J
	RW-15C	Apr-17		<0.00810	<0.00690	<0.00650	<0.0104	<0.00818	**4.19**	0.143	4.92	**4.25**	<0.0250	**0.383**
	RW-15C	Apr-18		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	**3.93**	0.114	2.98	**3.02**	<0.00100	<0.500
	RW-15C	Apr-19		<0.00324	<0.00276	<0.00260	<0.00418	<0.00327	**3.03**	0.134	1.04	**3.66**	<0.0100	**0.173** J4
South RO Field	MW-114	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	MW-114	Oct-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	MW-114	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.00475	<0.000430	<0.00100
	MW-114	Oct-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.0112	<0.000430	<0.00100
	MW-114	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.0101	<0.000430	<0.00100
	MW-114	Sep-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	0.00159	<0.000430	0.0120	<0.000430	<0.00100
	MW-115	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327 J4	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	MW-115	Oct-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	MW-115	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.00126	<0.000430	<0.00100
	MW-115	Oct-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.00364	<0.000430	<0.00100
	MW-115	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.0113	<0.000430	<0.00100
	MW-115	Sep-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.0228	<0.000430	<0.00100
	MW-116	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	MW-116	Oct-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327 J4	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	MW-116	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-116	Oct-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-116	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-116	Sep-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
TEL	MW-49	Apr-19		<0.00162	<0.00138	<0.00130	<0.00209	<0.00164	0.0137	0.0347	0.112	**0.139**	<0.00500	0.0165 J
	MW-49	Oct-19		<0.00162	<0.00138	<0.00130	<0.00209	<0.00164	0.0175	0.0311	0.120	**0.160**	<0.00500	0.0132 J
	MW-49	Jun-20		<0.00222	<0.0192	<0.00252	<0.00222	<0.00280	0.0249	0.0470	0.179	**0.148**	<0.00860	0.0241 J
	MW-49	Oct-20		<0.00222	<0.0192	<0.00252	<0.00222	<0.00280	0.0121 J	0.0329	0.113	**0.196**	<0.00860	<0.0200
	MW-49	Apr-21		<0.00278	<0.0240	<0.00315	<0.00278	<0.00350	0.00827 J	0.0291	0.0793	**0.257**	<0.0107	<0.0250
	MW-49	Sep-21		<0.00111	<0.00960	<0.00126	<0.00111	<0.00140	0.00787 J	0.0240	0.0675	**0.210**	<0.00430	0.0201 J
	TEL-1	Oct-18		<0.00162	<0.00138	<0.00130	<0.00209	<0.00164	<0.00192	<0.00163	<0.00360	0.00255 J	<0.00500	<0.00500
	TEL-1	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	0.000481 J	0.000923 J	<0.000719	0.00297	<0.00100	<0.00100
	TEL-1	Oct-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	0.000750 J	0.00128	0.000880 J	0.00310	<0.00100	<0.00100
	TEL-1	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	0.000831 J	0.00123	0.00139 J	0.00230	<0.000430	<0.00100
	TEL-2	Oct-18		<0.00810	<0.00690	<0.00650	<0.0104	<0.00818	0.0121 J	0.0354	0.123	<0.00918	<0.0250	<0.0250
	TEL-2	Apr-19		<0.00324	<0.00276	<0.00260	<0.00418	<0.00327	0.00401 J	0.0254	0.0843	0.00752 J	<0.0100	<0.0100
	TEL-2	Oct-19		<0.00324	<0.00276	<0.00260	<0.00418	<0.00327	0.00384 J	0.0202	0.0638	0.00496 J	<0.0100 J4	<0.0100
	TEL-2	Jun-20		<0.00111	<0.00960	<0.00126	<0.00111	<0.00140	0.00152 J	0.0178	0.0489	0.00459 J	<0.00430	<0.0100
	TEL-3	Apr-18		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	0.00162	0.0556	0.0188	0.0637	<0.00100	<0.00100
	TEL-3	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	0.000779 J	0.0519	0.00717	0.00433	<0.00100	<0.00100
	TEL-3	Oct-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	0.000766 J	0.0368	0.0123	0.00175	<0.00100	0.00119 J
	TEL-3	Oct-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	0.00262	0.0541	0.0441	0.00419	<0.000430	0.00365 J
	TEL-4	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	0.0179	0.000983 J	0.00115	<0.00100	<0.00100
	TEL-4	Apr-19	FD	<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	0.0185	0.00104 J	0.00122	<0.00100	<0.00100
	TEL-4	Oct-19		<0.00162	<0.00138	<0.00130	<0.00209	<0.00164	<0.00192	0.0144	<0.00360	0.0381	<0.00500 J4	<0.00500
	TEL-4	Oct-19	FD	<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	0.0195	0.00125 J	0.0425	<0.00100	<0.00100
	TEL-4	Jun-20		<0.000555	<0.00480	<0.000630	<0.000555	<0.000700	<0.000685	0.0148	<0.00215	0.0431	<0.00215	<0.00500
	TEL-4	Jun-20	FD	<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	0.000453 J	0.0168	0.00183 J	0.0438	<0.000430	<0.00100
	TEL-4	Oct-20		<0.000555	<0.00480	<0.000630	<0.000555	<0.000700	<0.000685	0.00919	<0.00215	0.0898	<0.00215	<0.00500
	TEL-4	Oct-20	FD	<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	0.000370 J	0.0114	0.000965 J	0.0891	<0.000430	<0.00100
	TEL-4	Apr-21		<0.000111	<0.000960 J4	<0.000126	<0.000111	<0.000140	0.000952 J	0.0120	0.00151 J	0.0969	<0.000430	0.00240 J
	TEL-4	Apr-21	FD	<0.000111	<0.000960 J4	<0.000126	<0.000111	<0.000140	0.00106	0.0112	0.00150 J	0.0942	<0.000430	0.00236 J
	TEL-4	Sep-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	0.000365 J	0.0121	0.00113 J	0.0369	<0.000430	0.00140 J
	TEL-4	Sep-21	FD	<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	0.000393 J	0.0137	0.00107 J	0.0393	<0.000430	0.00150 J
Three Mile Ditch	MW-8	Apr-18		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	0.0388	<0.00100	<0.00100
	MW-8	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	0.0750	<0.00100	<0.00100 J3J4
	MW-8	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	**0.149**	<0.000430	<0.00100 J4
	MW-8	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	**0.104**	<0.000430	<0.00100
	MW-16	Apr-18		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	MW-16	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	MW-16	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100 J4
	MW-16	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-20	Apr-18		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	MW-20	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100 J3J4
	MW-20	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100 J4
	MW-20	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-21	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	**0.101**	<0.00100	<0.00100 J3J4
	MW-21	Oct-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	**0.217**	<0.00100	<0.00100
	MW-21	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	**0.128**	<0.000430	<0.00100 J4
	MW-21	Oct-20		<0.000555	<0.00480	<0.000630	<0.000555	<0.000700	<0.000685	<0.000525	<0.00215	**0.243**	<0.00215	<0.00500
	MW-21	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.0948	<0.000430	<0.00100
	MW-21	Sep-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	**0.191**	<0.000430	<0.00100
	MW-25	Apr-18		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	MW-25	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	MW-25	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100 J4
	MW-25	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100
	MW-26	Apr-18		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	MW-26	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100
	MW-26	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100 J4
	MW-26	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100

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Appendix C, Table C.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2020 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Volatile Organic Compounds											
				Analyte:	Chloroform	Chloro-methane	cis-1,2-Dichloro-ethene	cis-1,3-Dichloro-propene	Dibromo-chloromethane	Ethyl-benzene	Isopropyl-benzene (Cumene)	m,p-Xylene	Methyl tert-butyl ether (MTBE)	Methylene chloride	Naphthalene
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL:	0.0800	0.0203	0.0700	0.00471	0.0800	0.700	0.447	---	0.100	0.00500	0.0300
				CGWSL Source:	USEPA MCL	NMED TW	WQCC HH	USEPA TW	USEPA MCL	WQCC HH	WQCC TW	---	WQCC Dom	WQCC HH	WQCC HH
Area	**Well ID**	**Date**	**Dup**												
Three Mile Ditch	MW-27	Apr-18		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100	
	MW-27	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100	
	MW-27	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	J4
	MW-27	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	
	MW-46R	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100	
	MW-46R	Oct-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100	
	MW-46R	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	
	MW-46R	Oct-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	
	MW-46R	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	
	MW-46R	Sep-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	
	MW-68	Apr-18		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100	
	MW-68	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100	
	MW-68	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	J4
	MW-68	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	
	MW-71	Apr-18		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100	
	MW-71	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100	
	MW-71	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.00152	<0.000430	<0.00100	J4
	MW-71	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.00706	<0.000430	<0.00100	
	MW-89	Apr-18		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100	
	MW-89	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100	
	MW-89	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	J4
	MW-89	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	
	NP-1	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	0.0484	<0.00100	<0.00100	J3J4
	NP-1	Oct-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	**0.149**	<0.00100	<0.00100	
	NP-1	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	**0.216**	<0.000430	<0.00100	J4
	NP-1	Oct-20		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	0.000245 J	<0.000105	0.000456 J	**0.217**	<0.000430	<0.00100	
	NP-1	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	**0.101**	<0.000430	<0.00100	
	NP-1	Sep-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.00343	0.000159 J	<0.000430	**0.503**	<0.000430	0.00145 J	
	NP-6	Apr-15		<0.000320	<0.000280	<0.000260	<0.000420	<0.000330 UJ	<0.000380	<0.000330	<0.000720	0.00878	<0.00100 UJ	<0.00100 UJ	
	NP-6	Apr-17		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	0.0353	<0.00100	<0.00100	
	NP-6	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	0.0729	<0.00100	<0.00100	J3J4
	NP-6	Apr-21		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.0407	<0.000430	<0.00100	
Upgradient	UG-1	Apr-18		0.000367 J	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100	
	UG-1	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100	
	UG-1	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111 J4	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	
	UG-1	Apr-21		<0.000111 J4	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	
	UG-2	Apr-18		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100	
	UG-2	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100	
	UG-2	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111 J4	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	
	UG-2	Apr-21		<0.000111 J4	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	
	UG-3R	Apr-18		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100	
	UG-3R	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100	
	UG-3R	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111 J4	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	
	UG-3R	Apr-21		<0.000111 J4	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	
	UG-4	Apr-18		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100	
	UG-4	Apr-19		<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	<0.000367	<0.00100	<0.00100	
	UG-4	Jun-20		<0.000111	<0.000960	<0.000126	<0.000111 J4	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	
	UG-4	Apr-21		<0.000111 J4	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	

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Appendix C, Table C.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2020 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Volatile Organic Compounds													
				Analyte:	n-Butyl-benzene	N-Propyl-benzene	o-Xylene	sec-Butyl-benzene (2-Phenyl-butane)	Styrene	tert-Butyl alcohol (tert-Butanol)	Tetra-chloroethene	Toluene	Total Xylenes	trans-1,2-Dichloroethene	trans-1,3-Di-chloropropene	Tri-chloroethene	Vinyl Chloride
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL:	1.00	0.660	0.193	2.00	0.100	0.150	0.00500	1.00	0.620	0.100	--	0.00500	0.00200
				CGWSL Source:	USEPA TW	USEPA TW	WQCC TW	USEPA TW	WQCC HH	USEPA TW	WQCC HH	WQCC HH	WQCC HH	WQCC HH	--	WQCC HH	WQCC HH
Area	**Well ID**	**Date**	**Dup**														
Cross-Gradient	KWB-13	Apr-18		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	KWB-13	Apr-19		<0.000361	0.000683 J	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	KWB-13	Jun-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190 J4	<0.000234
	KWB-13	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	0.000438 J	<0.000149	<0.000118	<0.000190	<0.000234
	MW-136	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-136	Oct-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-136	Jun-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-136	Oct-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190 J4	<0.000234
	MW-136	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-136	Sep-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	NP-5	Apr-15		<0.000360	<0.000350	<0.000340	<0.000360	<0.000310		<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000400	<0.000260
	NP-5	Apr-17		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	NP-5	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	NP-5	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	RA-3156	Apr-18		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	RA-3156	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	RA-3156	Jun-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	RA-3156	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
Evaporation Ponds	MW-1R	Apr-18		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-1R	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-1R	Jun-20		<0.000157 J4	<0.0000993	<0.000174	<0.000125 J4	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-1R	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-2A	Apr-19		<0.00180	<0.00174	<0.00170	<0.00182	<0.00154		<0.00186	<0.00206	<0.00530	<0.00198	<0.00210	<0.00199	<0.00130
	MW-2A	Oct-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-2A	Jun-20		<0.000157 J4	<0.0000993	<0.000174	<0.000125 J4	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-2A	Oct-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-2A	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-2A	Sep-21														
	MW-3	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-3	Apr-19	FD	<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-3	Oct-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	0.000488 JB	<0.000259
	MW-3	Oct-19	FD	<0.000361	<0.000349	<0.000341	<0.000365	<0.000307 J3		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-3	Jun-20		<0.00393	<0.00248	<0.00435	<0.00313	<0.00295		<0.00750	<0.00695	<0.00435	<0.00373	<0.00295	<0.00475	<0.00585
	MW-3	Jun-20	FD	<0.000157	<0.0000993	<0.000174	0.000130 J	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-3	Oct-20		<0.000157	<0.0000993	<0.000174	0.000140 J	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	0.000491 J	<0.000234
	MW-3	Oct-20	FD	<0.000157	<0.0000993	<0.000174	0.000160 J	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118 J4	<0.000190	<0.000234
	MW-3	Apr-21		<0.00393	<0.00248	<0.00435	<0.00313	<0.00295		<0.00750	<0.00695	<0.00435	<0.00373	<0.00295	<0.00475	<0.00585
	MW-3	Apr-21	FD	<0.000157	<0.0000993	<0.000174	0.000188 J	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-3	Sep-21														
	MW-3	Sep-21	FD													
	MW-4A	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-4A	Oct-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	0.000484 JB	<0.000259
	MW-4A	Jun-20		<0.000157	<0.0000993	<0.000174	0.000326 J	<0.000118		<0.000300	<0.000278	0.000627 J	<0.000149	<0.000118	<0.000190	<0.000234
	MW-4A	Oct-20		<0.000157	0.000126 J	0.000202 J	0.000339 J	<0.000118		<0.000300	<0.000278	0.00234 J	<0.000149	<0.000118	<0.000190	<0.000234
	MW-4A	Apr-21		<0.000157	0.000114 J	<0.000174	0.000355 J	<0.000118		<0.000300	<0.000278	0.000907 J	<0.000149	<0.000118	<0.000190	<0.000234
	MW-4A	Sep-21														
	MW-4B	Apr-15		<0.000360	<0.000350	<0.000340	<0.000360	<0.000310		<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000400	<0.000260
	MW-4B	Apr-17		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-4B	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-4B	Apr-21		<0.000157	<0.0000993	<0.000174	0.000204 J	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-5A	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-5A	Oct-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307 J3		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-5A	Jun-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-5A	Oct-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-5A	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-5A	Sep-21														
	MW-5B	Apr-15		<0.000360	<0.000350	<0.000340	<0.000360	<0.000310		<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000400	<0.000260
	MW-5B	Apr-17		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-5B	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-5B	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-5C	Apr-15		<0.000360	<0.000350	<0.000340	<0.000360	<0.000310		<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000400	<0.000260
	MW-5C	Apr-17		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-5C	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-5C	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-6A	Apr-18		<0.000361	0.000460 J	0.00192	<0.000365	<0.000307		<0.000372	0.00139	0.00360	<0.000396	<0.000419	<0.000398	<0.000259
	MW-6A	Apr-19		<0.00180	<0.00174	0.00291 J	<0.00182	<0.00154		<0.00186	0.00289 J	0.00704 J	<0.00198	<0.00210	<0.00199	<0.00130
	MW-6A	Jun-20		<0.000785	<0.000497	0.00171 J	<0.000625	<0.000590		<0.00150	<0.00139	0.00171 J	<0.000745	<0.000590	**0.0217**	<0.00117
	MW-6A	Apr-21		<0.000785	<0.000497	0.00304 J	<0.000625	<0.000590		<0.00150	0.00219 J	0.00602 J	<0.000745	<0.000590	<0.000950	<0.00117
	MW-6B	Apr-15		<0.000360	<0.000350	<0.000340	<0.000360	<0.000310		<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000400	<0.000260
	MW-6B	Apr-17		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-6B	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-6B	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-7A	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-7A	Apr-19	FD	<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-7A	Oct-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307 J3		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-7A	Oct-19	FD	<0.000361	<0.000349	<0.000341	<0.000365	<0.000307 J3		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-7A	Jun-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-7A	Jun-20	FD	<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-7A	Oct-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-7A	Oct-20	FD	<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-7A	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-7A	Apr-21	FD	<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-7A	Sep-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118	0.00432 J	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-7A	Sep-21	FD	<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-7B	Apr-15		<0.000360	<0.000350	<0.000340	<0.000360	<0.000310		<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000400	<0.000260
	MW-7B	Apr-17		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-7B	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-7B	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-10	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-10	Oct-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-10	Jun-20		<0.000157 J4	<0.0000993	<0.000174	<0.000125 J4	<0.000118		<0.000300 J4	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-10	Oct-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-10	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-10	Sep-21														
	MW-11A	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-11A	Oct-19														
	MW-11A	Jun-20		<0.000157 J4	<0.0000993	<0.000174	<0.000125 J4	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-11A	Oct-20														
	MW-11A	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-11A	Sep-21														

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Appendix C, Table C.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2020 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Volatile Organic Compounds													
				Analyte:	n-Butyl-benzene	N-Propyl-benzene	o-Xylene	sec-Butyl-benzene (2-Phenyl-butane)	Styrene	tert-Butyl alcohol (tert-Butanol)	Tetra-chloroethene	Toluene	Total Xylenes	trans-1,2-Dichloroethene	trans-1,3-Di-chloropropene	Tri-chloroethene	Vinyl Chloride
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL:	1.00	0.660	0.193	2.00	0.100	0.150	0.00500	1.00	0.620	0.100	--	0.00500	0.00200
				CGWSL Source:	USEPA TW	USEPA TW	WQCC TW	USEPA TW	WQCC HH	USEPA TW	WQCC HH	WQCC HH	WQCC HH	WQCC HH	--	WQCC HH	WQCC HH
Area	Well ID	Date	Dup														
Evaporation Ponds	MW-11B	Apr-15			<0.000360	<0.000350	<0.000340	<0.000360	<0.000310		<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000400	<0.000260
	MW-11B	Apr-17			<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-11B	Apr-19			<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-11B	Apr-21			<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-15	Apr-18			<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-15	Apr-19			<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-15	Jun-20			<0.000157 J4	<0.0000993	<0.000174	<0.000125 J4	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-15	Apr-21			<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-18A	Apr-19			<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-18A	Oct-19			<0.000361	<0.000349	<0.000341	<0.000365	<0.000307 J3		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-18A	Jun-20			<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-18A	Oct-20			<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-18A	Apr-21			<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-18A	Sep-21															
	MW-18B	Apr-15			<0.000360	<0.000350	<0.000340	<0.000360	<0.000310		<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000400	<0.000260
	MW-18B	Apr-17			<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-18B	Apr-19			<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-18B	Apr-21			<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-22A	Apr-19			<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-22A	Apr-19	FD		<0.000361	<0.000349	<0.000341	0.000517 J	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-22A	Oct-19			<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-22A	Oct-19	FD		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-22A	Jun-20			0.000199 J	<0.0000993	<0.000174	0.000265 J	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-22A	Jun-20	FD		<0.000157 J4	<0.0000993	<0.000174	<0.000125 J4	<0.000118		<0.000300 J4	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-22A	Oct-20			<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-22A	Oct-20	FD		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-22A	Apr-21			<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-22A	Apr-21	FD		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-22A	Sep-21															
	MW-22A	Sep-21	FD														
	MW-22B	Apr-15			<0.000360	<0.000350	<0.000340	0.000381 J	<0.000310 UJ		<0.000370	<0.000780 UJ	<0.00110	<0.000400	<0.000420	<0.000400	<0.000260
	MW-22B	Apr-17			<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-22B	Apr-19			<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-22B	Apr-21			<0.000157	<0.0000993	<0.000174	0.000545 J	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-70	Apr-19			<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-70	Oct-19			<0.000361	<0.000349	<0.000341	<0.000365	<0.000307 J3		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-70	Jun-20			<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-70	Oct-20			<0.000157	0.000146 J	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-70	Apr-21			<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-70	Sep-21															
	MW-72	Apr-18			<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-72	Apr-19			<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-72	Jun-20			<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-72	Apr-21			<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-73	Apr-18			<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-73	Apr-19			<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-73	Jun-20			<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-73	Apr-21			<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-74	Apr-19			<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-74	Oct-19			<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	0.000473 JB	<0.000259
	MW-74	Jun-20			<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-74	Oct-20			<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-74	Apr-21			<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-74	Sep-21															
	MW-75	Apr-19			<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-75	Oct-19			<0.000361	<0.000349	<0.000341	0.000866 J	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-75	Jun-20			<0.00393	<0.00248	<0.00435	<0.00313	<0.00295		<0.00750	<0.00695	<0.00435	<0.00373	<0.00295	<0.00475	<0.00585
	MW-75	Oct-20			<0.00393	<0.00248	<0.00435	<0.00313	<0.00295		<0.00750	<0.00695	<0.00435	<0.00373	<0.00295	<0.00475	<0.00585
	MW-75	Apr-21			<0.00393	<0.00248	<0.00435	<0.00313	<0.00295		<0.00750	<0.00695	<0.00435	<0.00373	<0.00295	<0.00475	<0.00585
	MW-75	Sep-21															
	MW-76	Apr-19			<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-76	Oct-19			<0.000361	0.000634 J	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-76	Jun-20			<0.000157 J4	<0.0000993	<0.000174	<0.000125 J4	<0.000118		<0.000300 J4	<0.000278	0.000628 J	<0.000149	<0.000118	<0.000190	<0.000234
	MW-76	Oct-20			<0.000157	0.000372 J	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-76	Apr-21			<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-76	Sep-21															
	MW-77	Apr-18			<0.00361	<0.00349	<0.00341	<0.00365	<0.00307		<0.00372	<0.00412	<0.0106	<0.00396	<0.00419	<0.00398	<0.00259
	MW-77	Apr-19			<0.00361	<0.00349	<0.00341	<0.00365	<0.00307		<0.00372	<0.00412	<0.0106	<0.00396	<0.00419	<0.00398	<0.00259
	MW-77	Jun-20			<0.00393	0.00360 J	<0.00435	<0.00313	<0.00295		<0.00750	<0.00695	<0.00435	<0.00373	<0.00295	<0.00475	<0.00585
	MW-77	Apr-21			<0.00393	<0.00248	<0.00435	<0.00313	<0.00295		<0.00750	<0.00695	<0.00435	<0.00373	<0.00295	<0.00475	<0.00585
	MW-78	Apr-18			<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-78	Apr-19			<0.00361	<0.00349	<0.00341	<0.00365	<0.00307		<0.00372	<0.00412	<0.0106	<0.00396	<0.00419	<0.00398	<0.00259
	MW-78	Jun-20			<0.000157 J4	<0.0000993	<0.000174	<0.000125 J4	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-78	Apr-21			<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-79	Apr-19			<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-79	Oct-19			<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-79	Jun-20			<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300 J4	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-79	Oct-20			<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-79	Apr-21			<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-79	Sep-21															
	MW-80	Apr-18			<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-80	Apr-19			<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-80	Jun-20			<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300 J4	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-80	Apr-21			<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-81	Apr-18			<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-81	Apr-19			<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-81	Jun-20			<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300 J4	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-81	Apr-21			<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-82	Apr-18			<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-82	Apr-19			<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-82	Jun-20			<0.000157 J4	<0.0000993	<0.000174	<0.000125 J4	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-82	Apr-21			<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-83	Apr-19			<0.00180	<0.00174	<0.00170	<0.00182	<0.00154		<0.00186	<0.00206	<0.00530	<0.00198	<0.00210	<0.00199	<0.00130
	MW-83	Oct-19			<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-83	Jun-20			<0.000157 J4	<0.0000993	<0.000174	<0.000125 J4	<0.000118		<0.000300 J4	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-83	Oct-20			<0.000157	0.000165 J	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	0.00127 J	<0.000149	<0.000118 J4	<0.000190	<0.000234
	MW-83	Apr-21			<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-83	Sep-21															
	MW-84	Apr-19			<0.00180	<0.00174	<0.00170	<0.00182	<0.00154		<0.00186	<0.00206	<0.00530	<0.00198	<0.00210	<0.00199	<0.00130
	MW-84	Oct-19			<0.00181	<0.00174	<0.00170	<0.00183	<0.00154		<0.00186	0.00344 J	<0.00530	<0.00198	<0.00209	<0.00199	<0.00130
	MW-84	Jun-20			<0.000785	<0.000497	<0.000870	<0.000625	<0.000590		<0.00150 J4	<0.00139	<0.000870	<0.000745	<0.000590	<0.000950	<0.00117
	MW-84	Oct-20			<0.00157	<0.000993	<0.00174	<0.00125	<0.00118		<0.00300	<0.00278	<0.00174	<0.00149	<0.00118	<0.00190	<0.00234
	MW-84	Apr-21			<0.00157	<0.000993	<0.00174	<0.00125	<0.00118		<0.00300	<0.00278	<0.00174	<0.00149	<0.00118	<0.00190	<0.00234
	MW-84	Sep-21															

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Appendix C, Table C.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2020 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Volatile Organic Compounds													
				Analyte:	n-Butyl-benzene	N-Propyl-benzene	o-Xylene	sec-Butyl-benzene (2-Phenyl-butane)	Styrene	tert-Butyl alcohol (tert-Butanol)	Tetra-chloroethene	Toluene	Total Xylenes	trans-1,2-Dichloroethene	trans-1,3-Di-chloropropene	Tri-chloroethene	Vinyl Chloride
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL:	1.00	0.660	0.193	2.00	0.100	0.150	0.00500	1.00	0.620	0.100	--	0.00500	0.00200
				CGWSL Source:	USEPA TW	USEPA TW	WQCC TW	USEPA TW	WQCC HH	USEPA TW	WQCC HH	WQCC HH	WQCC HH	WQCC HH	--	WQCC HH	WQCC HH
Area	Well ID	Date	Dup														
Evaporation Ponds	MW-86	Jun-20		<0.00314	0.00566 J	0.0216	<0.00250	<0.00236		<0.00600 J4	0.0345	0.0483 J	<0.00298	<0.00236	<0.00380	<0.00468	
	MW-86	Oct-20		<0.00314	0.00471 J	0.0288	<0.00250	<0.00236		<0.00600	0.0435	0.0583 J	<0.00298	<0.00236	<0.00380	<0.00468	
	MW-87	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259	
	MW-87	Oct-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259	
	MW-87	Jun-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234	
	MW-87	Oct-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234	
	MW-87	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234	
	MW-87	Sep-21															
	MW-88	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259	
	MW-88	Oct-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259	
	MW-88	Jun-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234	
	MW-88	Oct-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234	
	MW-88	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234	
	MW-88	Sep-21															
	MW-120	Apr-19		<0.00180	<0.00174	<0.00170	<0.00182	<0.00154		<0.00186	<0.00206	<0.00530	<0.00198	<0.00210	<0.00199	<0.00130	
	MW-120	Oct-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259	
	MW-120	Jun-20		<0.000785	<0.000497	<0.000870	<0.000625	<0.000590		<0.00150	<0.00139	<0.000870	<0.000745	<0.000590	0.00169 J	<0.00117	
	MW-120	Oct-20		<0.000785	<0.000497	<0.000870	<0.000625	<0.000590		<0.00150	<0.00139	<0.000870	<0.000745	<0.000590	<0.000950	<0.00117	
	MW-120	Apr-21		<0.000785	<0.000497	<0.000870	<0.000625	<0.000590		<0.00150	<0.00139	<0.000870	<0.000745	<0.000590	<0.000950	<0.00117	
	MW-120	Sep-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234	
	MW-121	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259	
	MW-121	Oct-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	0.000498 JB	<0.000259	
	MW-121	Jun-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234	
	MW-121	Oct-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234	
	MW-121	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234	
	MW-121	Sep-21															
	MW-122	Apr-19		<0.00180	<0.00174	<0.00170	<0.00182	<0.00154		<0.00186	<0.00206	<0.00530	<0.00198	<0.00210	<0.00199	<0.00130	
	MW-122	Oct-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259	
	MW-122	Jun-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300 J4	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234	
	MW-122	Oct-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234	
	MW-122	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234	
	MW-122	Sep-21															
	MW-123	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	0.00678	<0.000398	<0.000259	
	MW-123	Oct-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259	
	MW-123	Jun-20		<0.000157 J4	<0.0000993	<0.000174	<0.000125 J4	<0.000118		<0.000300 J4	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234	
	MW-123	Oct-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234	
	MW-123	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234	
	MW-123	Sep-21															
	MW-124	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259	
	MW-124	Oct-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307 J3		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259	
	MW-124	Jun-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234	
	MW-124	Oct-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234	
	MW-124	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234	
	MW-124	Sep-21															
	OCD-1R	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259	
	OCD-1R	Oct-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259	
	OCD-1R	Jun-20		<0.000157 J4	<0.0000993	<0.000174	<0.000125 J4	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234	
	OCD-1R	Oct-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118 J4	<0.000190	<0.000234	
	OCD-1R	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234	
	OCD-1R	Sep-21															
	OCD-2A	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259	
	OCD-2A	Oct-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259	
	OCD-2A	Jun-20		<0.000157 J4	<0.0000993	<0.000174	<0.000125 J4	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234	
	OCD-2A	Oct-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118 J4	<0.000190	<0.000234	
	OCD-2A	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234	
	OCD-2A	Sep-21															
	OCD-3	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259	
	OCD-3	Oct-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259	
	OCD-3	Jun-20		<0.000157 J4	<0.0000993	<0.000174	<0.000125 J4	<0.000118		0.000862 JBJ4	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234	
	OCD-3	Oct-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234	
	OCD-3	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234	
	OCD-3	Sep-21															
	OCD-4	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259	
	OCD-4	Oct-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259	
	OCD-4	Jun-20		<0.000157 J4	<0.0000993	<0.000174	<0.000125 J4	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234	
	OCD-4	Oct-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234	
	OCD-4	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234	
	OCD-4	Sep-21															
	OCD-5	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259	
	OCD-5	Oct-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259	
	OCD-5	Jun-20		<0.000157 J4	<0.0000993	<0.000174	<0.000125 J4	<0.000118		<0.000300 J4	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234	
	OCD-5	Oct-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234	
	OCD-5	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234	
	OCD-5	Sep-21															
	OCD-6	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259	
	OCD-6	Oct-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259	
	OCD-6	Jun-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234	
	OCD-6	Oct-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234	
	OCD-6	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234	
	OCD-6	Sep-21															
	OCD-7AR	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259	
	OCD-7AR	Oct-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259	
	OCD-7AR	Jun-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234	
	OCD-7AR	Oct-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234	
	OCD-7AR	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234	
	OCD-7AR	Sep-21															
	OCD-7B	Apr-15		<0.000360	<0.000350	<0.000340	<0.000360	<0.000310		<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000400	<0.000260	
	OCD-7B	Apr-17		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259	
	OCD-7B	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259	
	OCD-7B	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234	
	OCD-8A	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259	
	OCD-8A	Oct-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307 J3		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259	
	OCD-8A	Jun-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234	
	OCD-8A	Oct-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234	
	OCD-8A	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234	
	OCD-8A	Sep-21															
	OCD-8B	Apr-15		<0.000360	<0.000350	<0.000340	<0.000360	<0.000310		<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000400	<0.000260	
	OCD-8B	Apr-17		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259	
	OCD-8B	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259	
	OCD-8B	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234	
Field East of Refinery	KWB-1A	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259	
	KWB-1A	Oct-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259	
	KWB-1A	Jun-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234	
	KWB-1A	Oct-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190 J4	<0.000234	
	KWB-1C	Apr-15		<0.000360	<0.000350	<0.000340	<0.000360	<0.000310		<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000400	<0.000260	
	KWB-1C	Apr-17		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259	
	KWB-1C	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259	
	KWB-1C	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234	

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Appendix C, Table C.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2020 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Volatile Organic Compounds													
				Analyte:	n-Butyl-benzene	N-Propyl-benzene	o-Xylene	sec-Butyl-benzene (2-Phenyl-butane)	Styrene	tert-Butyl alcohol (tert-Butanol)	Tetra-chloroethene	Toluene	Total Xylenes	trans-1,2-Dichloroethene	trans-1,3-Di-chloropropene	Tri-chloroethene	Vinyl Chloride
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL:	1.00	0.660	0.193	2.00	0.100	0.150	0.00500	1.00	0.620	0.100	--	0.00500	0.00200
				CGWSL Source:	USEPA TW	USEPA TW	WQCC TW	USEPA TW	WQCC HH	USEPA TW	WQCC HH	WQCC HH	WQCC HH	WQCC HH	--	WQCC HH	WQCC HH
Area	Well ID	Date	Dup														
Field East of Refinery	KWB-7	Jun-20		0.000580 J	0.0205	0.00226	0.00879	<0.000118		<0.000300	0.000536 J	0.0413	<0.000149	<0.000118	<0.000190	<0.000234
	KWB-7	Oct-20		0.000270 J	0.0140	0.000402 J	0.00555	<0.000118		<0.000300	<0.000278	0.00289 J	<0.000149	<0.000118	<0.000190	<0.000234
	KWB-7	Apr-21		0.00170	0.0659	0.0116	0.00793	<0.000118		<0.000300	0.0255	0.179	<0.000149	<0.000118	<0.000190	<0.000234
	KWB-7	Sep-21		0.00291	0.119	0.00582	0.0155	<0.000118	0.0287	<0.000300	0.00322	0.0822	<0.000149	<0.000118	<0.000190	<0.000234
	KWB-8	Oct-16		<0.0722	<0.0698	0.150 J	<0.0730	<0.0614		<0.0744	**1.48**	**1.16**	<0.0792	<0.0838	<0.0796	<0.0518
	KWB-8	Apr-17		<0.0361	0.0852 J	0.145	<0.0365	<0.0307		<0.0372	0.747	**2.07**	<0.0396	<0.0419	<0.0398	<0.0259
	KWB-8	Oct-17		0.00209	0.0217	0.0133	<0.000365	<0.000307		<0.000372	0.336	**0.795**	<0.000396	<0.000419	<0.000398	<0.000259
	KWB-8	Oct-20		<0.0314	0.168 J	0.139 J	<0.0250	<0.0236		<0.0600	**1.08**	**4.19**	<0.0298	<0.0236	<0.0380	<0.0468
	KWB-10R	Apr-17		<0.0180	0.0714	**0.198**	<0.0182	<0.0154		<0.0186	0.0605	**0.914**	<0.0198	<0.0210	<0.0199	<0.0130
	KWB-10R	Oct-17		<0.000361	0.0748	0.112 J	0.0126	<0.000307		<0.000372	0.0588	**0.767**	<0.000396	<0.000419	<0.000398	<0.000259
	KWB-10R	Apr-18		<0.0902	<0.0872	0.0922 J	<0.0912	<0.0768		<0.0930	<0.103	0.549 J	<0.0990	<0.105	<0.0995	<0.0648
	KWB-10R	Oct-18		<0.0902	<0.0872	<0.0852	<0.0912	<0.0768		<0.0930	<0.103	<0.265	<0.0990	<0.105	<0.0995	<0.0648
	KWB-11A	Apr-19		<0.000361	<0.000349	<0.000341	0.00135	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	KWB-11A	Jun-20		<0.000157	0.00125	<0.000174	0.00210	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	KWB-11A	Oct-20		<0.000157	<0.0000993	<0.000174	0.00279	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	KWB-11A	Sep-21		0.00117	0.0253	0.000426 J	0.00401	<0.000118	0.0932	<0.000300	0.000984 J	0.0213	<0.000149	<0.000118	<0.000190	<0.000234
	KWB-11B	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	KWB-11B	Oct-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	KWB-11B	Jun-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	KWB-11B	Oct-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	KWB-11B	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	KWB-11B	Sep-21		<0.000157	0.000380 J	<0.000174	0.000132 J	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	KWB-12A	Oct-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	KWB-12A	Jun-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190 J4	<0.000234
	KWB-12A	Oct-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190 J4	<0.000234
	KWB-12A	Sep-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	KWB-12B	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	KWB-12B	Apr-19	FD	<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	KWB-12B	Oct-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	KWB-12B	Oct-19	FD	<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	KWB-12B	Jun-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190 J4	<0.000234
	KWB-12B	Jun-20	FD	<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	KWB-12B	Oct-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190 J4	<0.000234
	KWB-12B	Oct-20	FD	<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190 J4	<0.000234
	KWB-12B	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	KWB-12B	Apr-21	FD	<0.000157	<0.0000993	<0.000174	0.000261 J	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	KWB-12B	Sep-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	KWB-12B	Sep-21	FD	<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	KWB-P4	Apr-15		<0.000360	<0.000350	<0.000340	<0.000360	<0.000310		<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000400	<0.000260
	KWB-P4	Apr-17		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	KWB-P4	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	KWB-P4	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-57	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-57	Oct-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-57	Jun-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190 J4	<0.000234
	MW-57	Oct-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190 J4	<0.000234
	MW-57	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-57	Sep-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-58	Oct-17		0.00529	0.0842	0.00179	0.00872	<0.000307		<0.000372	0.0101	0.222	<0.000396	<0.000419	<0.000398	<0.000259
	MW-58	Apr-18		<0.0180	0.0965	<0.0170	<0.0182	<0.0154		<0.0186	<0.0206	0.268	<0.0198	<0.0210	<0.0199	<0.0130
	MW-58	Oct-18		<0.0180	0.0900	<0.0170	<0.0182	<0.0154		<0.0186	<0.0206	<0.0530	<0.0198	<0.0210	<0.0199	<0.0130 J3
	MW-58	Oct-19		0.00804 J	0.0676	0.0119	0.0105	<0.00307		<0.00372	0.0141 J4	0.407	<0.00396	<0.00419	<0.00398	<0.00259
	MW-111	Oct-18		<0.00902	<0.00872	<0.00852	<0.00912	<0.00768		<0.00930	<0.0103	<0.0265	<0.00990	<0.0105	<0.00995	<0.00648
	MW-111	Apr-19		<0.000361	0.00424	<0.000341	0.000668 J	<0.000307		<0.000372	0.000523 J	0.00523	<0.000396	<0.000419	<0.000398	<0.000259
	MW-111	Oct-19		<0.000361	<0.000349	0.000929 J	<0.000365	<0.000307		<0.000372	<0.0103	0.0109	<0.000396	<0.000419	<0.000398	<0.000259
	MW-111	Jun-20		<0.00393	0.00411 J	<0.00435	<0.00313	<0.00295		<0.00750	<0.00695	0.0148 J	<0.00373	<0.00295	<0.00475	<0.00585
	MW-112	Nov-14		<0.00900	0.100	**0.600**	0.00910 J	<0.00770		<0.00930	0.730	**2.00**	<0.00990	<0.0100	<0.0100	<0.00650
	MW-113	Apr-19		<0.000361	0.000730 J	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	0.0113	<0.000396	<0.000419	<0.000398	<0.000259
	MW-113	Apr-19	FD	<0.000361	0.000651 J	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	0.0128	<0.000396	<0.000419	<0.000398	<0.000259
	MW-113	Oct-19		0.00451	0.0521	0.00194	0.00793	<0.000307		<0.000372	0.00609	0.309	<0.000396	<0.000419	<0.000398	<0.000259
	MW-113	Oct-19	FD	0.00377	0.0452	0.00233	0.00773	<0.000307		<0.000372	0.00657	0.286	<0.000396	<0.000419	<0.000398	<0.000259
	MW-113	Jun-20		<0.000785	0.00199 J	<0.000870	<0.000625	<0.000590		<0.00150	<0.00139	0.0363	<0.000745	<0.000590	<0.000950	<0.00117
	MW-113	Jun-20	FD	<0.000157	0.000600 J	0.000359 J	0.000611 J	<0.000118		0.000582 JJ4	0.000490 J	0.0474	<0.000149	<0.000118	<0.000190	<0.000234
	MW-113	Oct-20		0.000994 J	0.0265	<0.000870	0.00271 J	<0.000590		<0.00150	0.00446 J	0.154	<0.000745	<0.000590	<0.000950	<0.00117
	MW-113	Oct-20	FD	0.00112	0.0295	0.000755 J	0.00332	<0.000118		<0.000300	0.00403	0.166	<0.000149	<0.000118	<0.000190	<0.000234
	MW-113	Apr-21		<0.000785	0.00198 J	0.00172 J	0.000965 J	<0.000590		<0.00150	<0.00139	0.0412	<0.000745	<0.000590	<0.000950	<0.00117
	MW-113	Apr-21	FD	<0.000157	0.00273	0.00222	0.00148	<0.000118		<0.000300	0.00120	0.0591	<0.000149	<0.000118	<0.000190	<0.000234
	MW-113	Sep-21		<0.00785	0.153	<0.00870	<0.00625	<0.00590	<0.203	<0.0150	0.0330 J	**0.877**	<0.00745	<0.00590	<0.00950	<0.0117
	MW-113	Sep-21	FD	0.00723 J	0.165	<0.00435	0.0150 J	<0.00295	<0.102	<0.00750	0.0305	**0.872**	<0.00373	<0.00295	<0.00475	<0.00585
	MW-125	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-125	Oct-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412 J4	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-125	Jun-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190 J4	<0.000234
	MW-125	Oct-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118 J4	<0.000190	<0.000234
	MW-125	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-125	Sep-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-126A	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-126A	Oct-19		<0.000361	0.00532	<0.000341	0.00286	<0.000307		<0.000372	0.00168	0.00569	<0.000396	<0.000419	<0.000398	<0.000259
	MW-126A	Jun-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190 J4	<0.000234
	MW-126A	Oct-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190 J4	<0.000234
	MW-126B	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-126B	Oct-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-126B	Jun-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190 J4	<0.000234
	MW-126B	Oct-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190 J4	<0.000234
	MW-126B	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-126B	Sep-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-127	Oct-17		<0.000361	0.0185	0.00373	0.00319	<0.000307		<0.000372	0.0396	0.0482	<0.000396	<0.000419	<0.000398	<0.000259
	MW-127	Apr-18		<0.00722	0.0255	<0.00682	<0.00730	<0.00614		<0.00744	0.0424	0.0654	<0.00792	<0.00838	<0.00796	<0.00518
	MW-127	Oct-18		<0.00722	0.0258	<0.00682	<0.00730	<0.00614		<0.00744	0.0397	0.0458 J	<0.00792	<0.00838	<0.00796	<0.00518
	MW-127	Apr-19		<0.00722	0.0261	<0.00682	<0.00730	<0.00614		<0.00744	0.0261	0.0933	<0.00792	<0.00838	<0.00796	<0.00518
	MW-128	Oct-17		<0.000361	0.00170	<0.000341	0.000380 J	<0.000307		<0.000372	0.000781 J	0.00336	<0.000396	<0.000419	<0.000398	<0.000259
	MW-128	Apr-18		<0.00722	<0.00698	<0.00682	<0.00730	<0.00614		<0.00744	<0.00824	<0.0212	<0.00792	<0.00838	<0.00796	<0.00518
	MW-128	Oct-18		<0.00722	0.00759 J	<0.00682	<0.00730	<0.00614		<0.00744	<0.00824	<0.0212	<0.00792	<0.00838	<0.00796	<0.00518
	MW-128	Apr-19		<0.00722	<0.00698	<0.00682	<0.00730	<0.00614		<0.00744	<0.00824	<0.0212	<0.00792	<0.00838	<0.00796	<0.00518
	MW-129	Apr-16		0.000444 J	0.000863 J	0.000796 J	0.00103	<0.000307		<0.000372	<0.0390	0.00278 J	<0.000396	<0.000419 J4	<0.000398	<0.000259
	MW-129	Oct-16		<0.000361	0.000383 J	<0.000341	0.00105	<0.000307		<0.000372	0.000920 J	0.00124 J	<0.000396	<0.000419	<0.000398	<0.000259
	MW-129	Apr-17		<0.000361	<0.000349	<0.000341	0.000928 J	<0.000307		<0.000372	0.000543 J	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-129	Apr-18		<0.000361	<0.000349	<0.000341	0.000419 J	<0.000307		<0.000372	0.000816 J	0.00125 J	<0.000396	<0.000419	<0.000398	<0.000259

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Appendix C, Table C.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2020 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Volatile Organic Compounds													
				Analyte:	n-Butyl-benzene	N-Propyl-benzene	o-Xylene	sec-Butyl-benzene (2-Phenyl-butane)	Styrene	tert-Butyl alcohol (tert-Butanol)	Tetra-chloroethene	Toluene	Total Xylenes	trans-1,2-Dichloroethene	trans-1,3-Di-chloropropene	Tri-chloroethene	Vinyl Chloride
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL:	1.00	0.660	0.193	2.00	0.100	0.150	0.00500	1.00	0.620	0.100	--	0.00500	0.00200
				CGWSL Source:	USEPA TW	USEPA TW	WQCC TW	USEPA TW	WQCC HH	USEPA TW	WQCC HH	WQCC HH	WQCC HH	WQCC HH	--	WQCC HH	WQCC HH
Area	Well ID	Date	Dup														
Field East of Refinery	MW-130	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-130	Oct-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-130	Jun-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-130	Oct-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118 J4	<0.000190	<0.000234
	MW-130	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-130	Sep-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-131	Apr-17		0.00255	0.0338	0.0406	0.00331	<0.000307		<0.000372	0.153	0.114	<0.000396	<0.000419	<0.000398	<0.000259
	MW-131	Oct-17		0.00185	0.0262	<0.0852	0.00286	<0.000307		<0.000372	0.0627	<0.265	<0.000396	<0.000419	<0.000398	<0.000259
	MW-131	Oct-19		0.00269	0.0141	**0.312**	0.00315	<0.000307		<0.000372	0.232	**0.993**	<0.000396	<0.000419	<0.000398	<0.000259
	MW-131	Jun-20		<0.00785	0.0121 J	**0.242**	<0.00625	<0.00590		<0.0150	0.150	**0.786**	<0.00745	<0.00590	<0.00950	<0.0117
	MW-133	Nov-14		<0.0360	0.0840 J	0.0380 J	<0.0360	<0.0310		<0.0370	0.100 J	0.220 J	<0.0400	<0.0420	<0.0400	<0.0260
	MW-133	Apr-15		<0.0360	0.0451 J	<0.0340	<0.0360	<0.0310		<0.0370	<0.0780	<0.110	<0.0400	<0.0420	<0.0400	<0.0260
	MW-134	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-134	Apr-19	FD	<0.000361	<0.000349 J4	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-134	Oct-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-134	Oct-19	FD	<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	0.00106 J	<0.000396	<0.000419	<0.000398	<0.000259
	MW-134	Jun-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-134	Jun-20	FD	<0.000157 J4	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-134	Oct-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190 J4	<0.000234
	MW-134	Oct-20	FD	<0.000157	<0.0000993	<0.000174	0.000176 J	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190 J4	<0.000234
	MW-134	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-134	Apr-21	FD	<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-134	Sep-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-134	Sep-21	FD	<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-135	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-135	Oct-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-135	Jun-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-135	Oct-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-135	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-135	Sep-21		<0.000157	<0.0000993	<0.000174	0.000393 J	<0.000118	<0.00406	<0.000300	<0.000278	0.000707 J	<0.000149	<0.000118	<0.000190	<0.000234
	MW-145	Oct-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-145	Oct-20	FD	<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-145	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-145	Sep-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-146	Oct-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-146	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-146	Sep-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-146	Sep-21	FD	<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-147	Oct-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-147	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-147	Sep-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-148	Oct-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-148	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-148	Sep-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	RA-4196	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	RA-4196	Oct-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	RA-4196	Jun-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	RA-4196	Oct-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	RA-4798	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	RA-4798	Oct-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	RA-4798	Jun-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	RA-4798	Oct-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	RA-4798	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	RA-4798	Sep-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	RW-12R	Apr-17		<0.00180	0.0809	0.00177 J	0.0104	<0.00154		<0.00186	0.00354 J	0.0257	<0.00198	<0.00210	<0.00199	<0.00130
	RW-12R	Apr-18		0.00125	0.0634	<0.000341	0.00564	<0.000307		<0.000372	0.00157	0.00648	<0.000396	<0.000419	<0.000398	<0.000259
	RW-12R	Apr-19		0.000615 J	0.0279	0.000476 J	0.00360	<0.000307		<0.000372	0.000866 J	0.00643	<0.000396	<0.000419	<0.000398	<0.000259
	RW-12R	Jun-20		<0.000157	0.0304	0.000522 J	0.00414	<0.000118		<0.000300	0.000997 J	0.00605	<0.000149	<0.000118	<0.000190	<0.000234
	RW-13R	Apr-16		0.00124	0.0183	0.0139	0.00270	<0.000307		<0.000372	0.0175	0.108	<0.000396	<0.000419	<0.000398	<0.000259
	RW-13R	Apr-18		0.00193	0.0319	0.00159	0.00378	<0.000307		<0.000372	0.00322	0.0299	<0.000396	<0.000419	<0.000398	<0.000259
	RW-18A	Apr-17		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	RW-18A	Apr-18		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	RW-18A	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	RW-18A	Jun-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	RW-20	Apr-15		0.00846 J	0.0980	0.0590	0.00931 J	<0.00310		<0.00370	0.211	**1.35**	<0.00400	<0.00420	<0.00400	<0.00260
	RW-22	Apr-15		0.00856 J	0.103	0.0952	0.00967 J	<0.00310		<0.00370	0.216	**0.945**	<0.00400	<0.00420	<0.00400	<0.00260
NCL	MW-18	Apr-18		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-18	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-18	Jun-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-18	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-45	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-45	Oct-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-45	Jun-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-45	Oct-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-45	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-45	Sep-21		<0.000157	0.000138 J	<0.000174	<0.000125	<0.000118	0.00888	<0.000300	<0.000278	0.000483 J	<0.000149	<0.000118	<0.000190	<0.000234
	MW-53	Apr-16		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-53	Apr-17		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-53	Apr-18		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-53	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-53R	Oct-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-53R	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-54A	Apr-19		<0.000361	<0.000349 J4	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-54A	Oct-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-54A	Jun-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-54A	Oct-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-54A	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-54A	Sep-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-54B	Apr-15		<0.000360	<0.000350	<0.000340	<0.000360	<0.000310		<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000400	<0.000260
	MW-54B	Apr-17		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-54B	Apr-19		<0.000361	<0.000349 J4	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-54B	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-55	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-55	Oct-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-55	Jun-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-55	Oct-20		<0.00157	<0.000993	<0.00174	<0.00125	<0.00118		<0.00300	<0.00278	<0.00174	<0.00149	<0.00118	<0.00190	<0.00234
	MW-55	Apr-21		<0.00157	<0.000993	<0.00174	0.00158 J	<0.00118		<0.00300	<0.00278	<0.00174	<0.00149	<0.00118	<0.00190	<0.00234
	MW-55	Sep-21		<0.000157	<0.0000993	<0.000174	0.000184 JB	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-56	Apr-18		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-56	Apr-19		<0.000361	<0.000349 J4	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-56	Jun-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-56	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-108	Apr-19		<0.00180	0.0369	0.00282 J	0.00648	<0.00154		<0.00186	0.00475 J	0.0691	<0.00198	<0.00210	<0.00199	<0.00130
	MW-108	Oct-19		0.00398 J	0.0308	0.00221 J	0.00704	<0.00154		<0.00186	0.00475 J	0.0643	<0.00198	<0.00209	0.00276 JB	<0.00130
	MW-108	Jun-20		0.00177 J	0.0205	0.00120 J	0.00388 J	<0.000590		<0.00150	0.00293 J	0.0415	<0.000745	<0.000590	<0.000950	<0.00117
	MW-108	Oct-20		<0.000785	0.00864	<0.000870	0.00187 J	<0.000590		<0.00150	0.00141 J	0.0176	<0.000745	<0.000590	<0.000950	<0.00117
	MW-108	Apr-21		0.00157 J	0.0174	<0.000870	0.00355 J	<0.000590		<0.00150	0.00286 J	0.0313	<0.000745	<0.000590	<0.000950	<0.00117
	MW-108	Sep-21		<0.00157	0.0141	<0.00174	0.00291 J	<0.00118	<0.0406	<0.00300	<0.00278	0.0194 J	<0.00149	<0.00118	<0.00190	<0.00234

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Appendix C, Table C.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2020 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Volatile Organic Compounds													
				Analyte:	n-Butyl-benzene	N-Propyl-benzene	o-Xylene	sec-Butyl-benzene (2-Phenyl-butane)	Styrene	tert-Butyl alcohol (tert-Butanol)	Tetra-chloroethene	Toluene	Total Xylenes	trans-1,2-Dichloroethene	trans-1,3-Di-chloropropene	Tri-chloroethene	Vinyl Chloride
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL:	1.00	0.660	0.193	2.00	0.100	0.150	0.00500	1.00	0.620	0.100	--	0.00500	0.00200
				CGWSL Source:	USEPA TW	USEPA TW	WQCC TW	USEPA TW	WQCC HH	USEPA TW	WQCC HH	WQCC HH	WQCC HH	WQCC HH	--	WQCC HH	WQCC HH
Area	Well ID	Date	Dup														
NCL	NCL-31	Apr-19		<0.000361	<0.000349 J4	<0.000341	0.000752 J	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	NCL-31	Oct-19		<0.000361	<0.000349	<0.000341	0.00102	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	0.000508 JB	<0.000259
	NCL-31	Jun-20		<0.000157	0.000144 J	0.000287 J	<0.000125	<0.000118		<0.000300	<0.000278	0.000954 J	<0.000149	<0.000118	<0.000190	<0.000234
	NCL-31	Oct-20		<0.000157	<0.0000993	0.000396 J	<0.000125	<0.000118		<0.000300	<0.000278	0.00123 J	<0.000149	<0.000118	<0.000190	<0.000234
	NCL-31	Apr-21		<0.000157	0.000273 J	0.000352 J	0.000280 J	<0.000118		<0.000300	<0.000278	0.00128 J	<0.000149	<0.000118	<0.000190	<0.000234
	NCL-31	Sep-21		<0.000157	<0.0000993	<0.000174	0.000231 J	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	NCL-32	Apr-19		<0.000361	<0.000349 J4	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	NCL-32	Oct-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	NCL-32	Jun-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	NCL-32	Oct-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	NCL-32	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	NCL-32	Sep-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	NCL-33	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	NCL-33	Oct-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	NCL-33	Jun-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	NCL-33	Oct-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	NCL-33	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	NCL-33	Sep-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	NCL-34A	Oct-18		0.00458 J	0.0768	<0.00341	0.0136	<0.00307		<0.00372	<0.00412	0.0266 J	<0.00396	<0.00419	<0.00398	<0.00259
	NCL-34A	Apr-19		<0.00722	0.0780	<0.00682	0.0159 J	<0.00614		<0.00744	<0.00824	<0.0212	<0.00792	<0.00838	<0.00796	<0.00518
	NCL-34A	Oct-19		0.00587	0.0953	<0.00170	0.0158	<0.00154		<0.00186	<0.00206	0.0175	<0.00198	<0.00209	<0.00199	<0.00130
	NCL-34A	Jun-20		0.00420 J	0.0686	<0.00348	0.0164 J	<0.00236		<0.00600	<0.00556	0.0335 J	<0.00298	<0.00236	<0.00380	<0.00468
	NCL-44	Apr-19		<0.000361	<0.000349 J4	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	NCL-44	Oct-19		<0.000361	<0.000349	<0.000341	0.000450 J	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	NCL-44	Jun-20		<0.000157	<0.0000993	<0.000174	0.000413 J	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	NCL-44	Oct-20		<0.000157	<0.0000993	<0.000174	0.000615 J	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190 J4	<0.000234
	NCL-44	Apr-21		<0.000157	<0.0000993	<0.000174	0.000280 J	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	NCL-44	Sep-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	NCL-49	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	NCL-49	Apr-19	FD	<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	NCL-49	Oct-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	NCL-49	Oct-19	FD	<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	NCL-49	Jun-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	NCL-49	Jun-20	FD	<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	NCL-49	Oct-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	NCL-49	Oct-20	FD	<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	NCL-49	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	NCL-49	Apr-21	FD	<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	NCL-49	Sep-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	NCL-49	Sep-21	FD	<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
North Refinery	MW-23	Apr-19		<0.0361	0.251 J4	<0.0341	<0.0365	<0.0307		<0.0372	<0.0412	<0.106	<0.0396	<0.0419	<0.0398	<0.0259
	MW-23	Oct-19		0.00955 J	0.123	<0.00341	0.0129	<0.00307		<0.00372	<0.00412	<0.0106	<0.00396	<0.00419	<0.00398	<0.00259
	MW-23	Jun-20		0.00903 JJ4	0.165	<0.00174	0.0132	<0.00118		<0.00300	<0.00278	<0.00174	<0.00149	<0.00118	<0.00190	<0.00234
	MW-23	Oct-20		0.00844 J	0.153	<0.00174	0.0128	<0.00118		<0.00300	<0.00278	<0.00174	<0.00149	<0.00118	<0.00190 J4	<0.00234
	MW-29	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-29	Oct-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412 J4	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-29	Jun-20		<0.000157	<0.0000993	<0.000174	0.000143 J	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-29	Oct-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-29	Apr-21		<0.000157	<0.0000993	<0.000174	0.000398 J	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-29	Sep-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118	0.0109	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-39	Apr-19		0.000981 J	0.0162 J4	0.0196	0.00441	<0.000307		<0.000372	0.00189	0.0550	<0.000396	<0.000419	<0.000398	<0.000259
	MW-39	Oct-19		<0.000361	0.00902	0.0149	0.00293	<0.000307		<0.000372	0.00336 J4	0.0412	<0.000396	<0.000419	<0.000398	<0.000259
	MW-39	Jun-20		<0.000157	0.00630	0.00886	0.00293	<0.000118		<0.000300	0.00195	0.0321	<0.000149	<0.000118	<0.000190 J4	<0.000234
	MW-39	Oct-20		<0.000157	0.00123	0.00588	0.00199	<0.000118		<0.000300	0.000978 J	0.0174	<0.000149	<0.000118	<0.000190 J4	<0.000234
	MW-40	Apr-17		<0.000361	0.00806	<0.000341	0.0167	<0.000307		<0.000372	0.000732 J	0.0117	<0.000396	<0.000419	<0.000398	<0.000259
	MW-40	Apr-18		0.000605 J	0.00369	<0.000341	0.0182	<0.000307		<0.000372	0.000543 J	0.00619	<0.000396	<0.000419	<0.000398	<0.000259
	MW-40	Apr-19		<0.000361	0.00305	<0.000341	0.0150	<0.000307		<0.000372	<0.000412	0.00157 J	<0.000396	<0.000419	<0.000398	<0.000259
	MW-40	Jun-20		0.000245 J	0.00210	<0.000174	0.0121	<0.000118		<0.000300	0.000363 J	0.00241 J	<0.000149	<0.000118	<0.000190	<0.000234
	MW-41	Apr-18		<0.000361	<0.000349	<0.000341	0.00191	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-41	Apr-19		<0.000361	0.000966 J	<0.000341	0.00451	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-41	Jun-20		<0.000157	0.00135	<0.000174	0.00196	<0.000118		<0.000300	0.000350 J	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-41	Apr-21		<0.000157	0.00170	<0.000174	0.00140	<0.000118		<0.000300	0.000301 J	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-42	Apr-18		<0.000361	0.00300	<0.000341	0.00528	<0.000307		<0.000372	0.000959 J	0.00420	<0.000396	<0.000419	<0.000398	<0.000259
	MW-42	Apr-19		<0.00180	0.00884	<0.00170	0.00496 J	<0.00154		<0.00186	<0.00206	0.0226	<0.00198	<0.00210	<0.00199	<0.00130
	MW-42	Jun-20		<0.000785 J4	0.0107	<0.000870	0.00446 J	<0.000590		<0.00150	0.00172 J	0.0535	<0.000745	<0.000590	<0.000950	<0.00117
	MW-42	Apr-21		<0.000785	0.00361 J	<0.000870	0.00389 J	<0.000590		<0.00150	<0.00139	0.00852 J	<0.000745	<0.000590	<0.000950	<0.00117
	MW-43	Apr-19		<0.0722	0.102 JJ4	<0.0682	<0.0730	<0.0614		<0.0744	<0.0824	**0.744**	<0.0792	<0.0838	<0.0796	<0.0518
	MW-43	Oct-19		<0.0722	<0.0698	<0.0682	<0.0730	<0.0614		<0.0744	<0.0824	0.610	<0.0792	<0.0838	<0.0796	<0.0518
	MW-43	Jun-20		0.00373 J	0.0569	0.00925 J	0.00578 J	<0.00236		<0.00600 J4	0.0224	**0.712**	<0.00298	<0.00236	<0.00380	<0.00468
	MW-43	Oct-20		<0.00785	0.0559	0.0510	<0.00625	<0.00590		<0.0150	0.0676	**0.903**	<0.00745	<0.00590	<0.00950 J4	<0.0117
	MW-59	Apr-17		<0.000361	0.000538 J	<0.000341	0.00297	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-59	Apr-18		<0.000361	0.00246	<0.000341	0.00348	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-59	Apr-19		<0.000361	0.000636 J	<0.000341	0.00301	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-59	Jun-20		<0.000157 J4	0.000566 J	<0.000174	0.00133	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-60	Apr-19		<0.000361	0.00120	<0.000341	0.00306	<0.000307		<0.000372	<0.000412	0.00202 J	<0.000396	<0.000419	<0.000398	<0.000259
	MW-60	Apr-19	FD	<0.000361	0.000796 J	<0.000341	0.00305	<0.000307		<0.000372	<0.000412	0.00124 J	<0.000396	<0.000419	<0.000398	<0.000259
	MW-60	Oct-19		<0.000361	0.000994 J	<0.000341	0.00313	<0.000307		<0.000372	<0.000412 J4	0.0114	<0.000396	<0.000419	<0.000398	<0.000259
	MW-60	Oct-19	FD	<0.000361	0.000812 J	<0.000341	0.00319	<0.000307		<0.000372	<0.000412	0.0108	<0.000396	<0.000419	<0.000398	<0.000259
	MW-60	Jun-20		<0.000157 J4	0.000862 J	<0.000174	0.00171	<0.000118		<0.000300	<0.000278	0.00157 J	<0.000149	<0.000118	<0.000190	<0.000234
	MW-60	Jun-20	FD	<0.000157 J4	0.000948 J	<0.000174	0.00163	<0.000118		<0.000300	<0.000278	0.00194 J	<0.000149	<0.000118	<0.000190	<0.000234
	MW-60	Oct-20		<0.000157	0.00120	<0.000174	0.00254	<0.000118		<0.000300	<0.000278	0.00238 J	<0.000149	<0.000118 J4	<0.000190	<0.000234
	MW-60	Oct-20	FD	<0.000157	0.00136	<0.000174	0.00303	<0.000118		<0.000300	<0.000278	0.00224 J	<0.000149	<0.000118	<0.000190	<0.000234
	MW-61	Apr-19		<0.0180	0.110	<0.0170	<0.0182	<0.0154		<0.0186	0.106	0.483	<0.0198	<0.0210	<0.0199	<0.0130
	MW-61	Oct-19		<0.0181	0.145	<0.0170	<0.0183	<0.0154		<0.0186	0.0848	0.571	<0.0198	<0.0209	<0.0199	<0.0130
	MW-61	Jun-20		<0.00785 J4	0.119	<0.00870	<0.00625	<0.00590		<0.0150	0.153	0.611	<0.00745	<0.00590	<0.00950	<0.0117
	MW-61	Oct-20		<0.00785	0.110	<0.00870	0.00816 J	<0.00590		<0.0150	0.161	**0.695**	<0.00745	<0.00590	<0.00950 J4	<0.0117
	MW-61	Apr-21		<0.00785	0.0999	<0.00870	0.00975 J	<0.00590		<0.0150	0.140	0.568	<0.00745	<0.00590	<0.00950	<0.0117
	MW-61	Sep-21		<0.00785	0.115	<0.00870	0.0138 J	<0.00590	<0.203	<0.0150	0.180	**0.789**	<0.00745	<0.00590	<0.00950	<0.0117
	MW-62	Apr-19		0.00746 J	0.179	<0.00682	0.0212	<0.00614		<0.00744	<0.00824	**0.988**	<0.00792	<0.00838	<0.00796	<0.00518
	MW-62	Oct-19		0.00845 J	0.210	<0.00682	0.0209	<0.00614		<0.00744	<0.00824	**0.874**	<0.00792	<0.00838	<0.00796	<0.00518
	MW-62	Jun-20		<0.00314 J4	0.105	<0.00348	<0.00250	<0.00236		<0.00600	<0.00556	0.557	<0.00298	<0.00236	<0.00380	<0.00468
	MW-62	Oct-20		0.00412 J	0.114	0.00538 J	0.00881 J	<0.00236		<0.00600	<0.00556	**0.762**	<0.00298	<0.00236	<0.00380 J4	<0.00468
	MW-62	Sep-21		0.0173 J	0.327	0.0261 J	0.0353 J	<0.00590	<0.203	<0.0150	0.0236 J	**2.37**	<0.00745	<0.00590	<0.00950	<0.0117
	MW-62R	Oct-20		0.00319	0.160	0.00103	0.0194	<0.000118		<0.000300	0.000571 J	0.137	<0.000149	<0.000118	<0.000190 J4	<0.000234
	MW-62R	Apr-21		<0.00785	0.186	<0.00870	0.0215 J	<0.00590		<0.0150	<0.0139	<0.00870	<0.00745	<0.00590	<0.00950	<0.0117
	MW-67	Oct-17		0.00196	0.00976	<0.000341	0.00570	<0.000307		<0.000372	0.00140	0.00245 J	<0.000396	<0.000419	0.000515 J	<0.000259
	MW-67	Apr-18		0.00588	0.0323	<0.00170	0.00834	<0.00154		<0.00186	0.00261 J	0.00916 J	<0.00198	<0.00210	<0.00199	<0.00130
	MW-67	Oct-18		0.00129	0.00387	<0.000341	0.00450	<0.000307		<0.000372	<0.000412	0.00113 J	<0.000396	<0.000419	0.000424 J	<0.000259
	MW-67	Apr-19		0.00299 J	0.0188 J4	<0.00170	0.00779	<0.00154		<0.00186	<0.00206	<0.00530	<0.00198	<0.00210	<0.00199	<0.00130

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Appendix C, Table C.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2020 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Volatile Organic Compounds												
				Analyte:	n-Butyl-benzene	N-Propyl-benzene	o-Xylene	sec-Butyl-benzene (2-Phenyl-butane)	Styrene	tert-Butyl alcohol (tert-Butanol)	Tetra-chloroethene	Toluene	Total Xylenes	trans-1,2-Dichloroethene	trans-1,3-Di-chloropropene	Tri-chloroethene	Vinyl Chloride
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL:	1.00	0.660	0.193	2.00	0.100	0.150	0.00500	1.00	0.620	0.100	--	0.00500	0.00200
				CGWSL Source:	USEPA TW	USEPA TW	WQCC TW	USEPA TW	WQCC HH	USEPA TW	WQCC HH	WQCC HH	WQCC HH	WQCC HH	--	WQCC HH	WQCC HH
Area	Well ID	Date	Dup														
North Refinery	MW-90	Apr-19		<0.000361	0.000910 JJ4	<0.000341	0.00594	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-90	Oct-19		<0.000361	0.00159	<0.000341	0.00514	<0.000307		<0.000372	0.000519 JJ4	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-90	Jun-20		0.000319 J	0.00509	0.000299 J	0.00725	<0.000118		<0.000300	0.000350 J	0.000299 J	<0.000149	<0.000118	<0.000190	<0.000234
	MW-90	Oct-20		0.000237 J	0.00349	0.000349 J	0.00644	<0.000118		<0.000300	0.000323 J	0.000349 J	<0.000149	<0.000118	<0.000190 J4	<0.000234
	MW-90	Apr-21		0.000309 J	0.00254	0.000225 J	0.00824	<0.000118		<0.000300	<0.000278	0.000225 J	<0.000149	<0.000118	<0.000190	<0.000234
	MW-90	Sep-21		<0.00157	0.00903 J	<0.00174	0.00498 J	<0.00118	<0.0406 J3	<0.00300	<0.00278	<0.00174	<0.00149	<0.00118	<0.00190	<0.00234
	MW-91	Oct-18		<0.0361	0.0792 J	0.164	<0.0365	<0.0307		<0.0372	**1.24**	**0.716**	<0.0396	<0.0419	<0.0398	<0.0259
	MW-91	Apr-19		<0.0361	0.104 J4	0.187	<0.0365	<0.0307		<0.0372	**1.94**	**0.799**	<0.0396	<0.0419	<0.0398	<0.0259
	MW-91	Oct-19		<0.0361	0.112	**0.548**	<0.0365	<0.0307		<0.0372	**7.07 J4**	**2.12**	<0.0396	<0.0419	<0.0398	<0.0259
	MW-91	Jun-20		<0.0157	0.114	**0.649**	<0.0125	<0.0118		<0.0300	**6.95**	**2.50**	<0.0149	<0.0118	<0.0190	<0.0234
	MW-92	Apr-16		0.00634	0.0510	0.0268	0.00699	<0.000307		0.000488 J	0.0173	0.188	0.000917 J	<0.000419	<0.000398	0.000399 J
	MW-92	Oct-16		<0.00722	0.0329	0.0151 J	<0.00730	<0.00614		<0.00744	<0.0156	0.110	<0.00792	<0.00838	<0.00796	<0.00518
	MW-93	Apr-17		<0.00902	0.0491	<0.00852	<0.00912	<0.00768		<0.00930	<0.0103	0.326	<0.00990	<0.0105	<0.00995	<0.00648
	MW-93	Apr-18		0.00367	0.0492	0.00452	0.00564	<0.000307		<0.000372	0.00797	0.336	<0.000396	<0.000419	<0.000398	<0.000259
	MW-93	Apr-19		0.00447	0.0695 J4	0.00409	0.00716	<0.000307		<0.000372	0.00748	0.303	<0.000396	<0.000419	<0.000398	<0.000259
	MW-93	Jun-20		<0.00314 J4	0.0394	<0.00348	<0.00250	<0.00236		<0.00600	0.0123 J	0.296	<0.00298	<0.00236	<0.00380	<0.00468
	MW-94	Oct-15		0.0219	0.0923	**0.360**	0.0283	<0.00307		<0.00372	0.553	0.574	<0.00396	<0.00419	<0.00398	<0.00259
	MW-94	Apr-16		0.0379 J	0.120	**0.387**	0.0403 J	<0.0154		<0.0186	0.687	0.615	<0.0198	<0.0210 J4	<0.0199	<0.0130
	MW-94	Oct-16		0.0207	0.104	**0.390**	0.0303	<0.00154		<0.00186	0.468	0.592	<0.00198	<0.00210	<0.00199	<0.00130
	MW-94	Apr-17		0.0553	0.0909	**0.292**	0.0317	<0.00768		<0.00930	0.435	0.460	<0.00990	<0.0105	<0.00995	<0.00648
	MW-95	Apr-17		<0.000361	<0.000349	<0.000341	0.00240	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-95	Apr-18		<0.000361	0.000352 J	<0.000341	0.00305	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-95	Apr-19		<0.000361	<0.000349 J4	<0.000341	0.00239	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-95	Jun-20		<0.000157	0.000158 J	<0.000174	0.00247	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-96	Apr-19		<0.0180	0.0991 J4	<0.0170	<0.0182	<0.0154		<0.0186	<0.0206	<0.0530	<0.0198	<0.0210	<0.0199	<0.0130
	MW-96	Oct-19		<0.0181	0.0686	<0.0170	<0.0183	<0.0154		<0.0186	<0.0206	<0.0530	<0.0198	<0.0209	<0.0199	<0.0130
	MW-96	Jun-20		<0.0393	0.0797 J	<0.0435	<0.0313	<0.0295		<0.0750	<0.0695	<0.0435	<0.0373	<0.0295	<0.0475	<0.0585
	MW-96	Oct-20		<0.0393	0.0692 J	<0.0435	<0.0313	<0.0295		<0.0750	<0.0695	<0.0435	<0.0373	<0.0295	<0.0475 J4	<0.0585
	MW-96	Sep-21		0.00493 JB	0.0591	0.00179 J	0.0111 B	<0.00118	<0.0406	<0.00300	<0.00278	0.00179 J	<0.00149	<0.00118	<0.00190	<0.00234
	MW-98	Apr-19		<0.0180	0.161 J4	0.0314 J	<0.0182	<0.0154		<0.0186	0.284	**2.19**	<0.0198	<0.0210	<0.0199	<0.0130
	MW-98	Oct-19		<0.0181	0.116	0.0266 J	<0.0183	<0.0154		<0.0186	0.246	**1.87**	<0.0198	<0.0209	<0.0199	<0.0130
	MW-98	Jun-20		0.00835 J	0.140	0.0256 J	0.0139 J	<0.00590		<0.0150	0.202	**2.17**	<0.00745	<0.00590	<0.00950 J4	<0.0117
	MW-98	Oct-20		<0.00785	0.0916	0.0254 J	<0.00625	<0.00590		<0.0150	0.236	**1.88**	<0.00745	<0.00590	<0.00950 J4	<0.0117
	MW-98	Apr-21		<0.00785	0.106	0.0253 J	0.00820 J	<0.00590		<0.0150	0.227	**1.84**	<0.00745	<0.00590	<0.00950	<0.0117
	MW-98	Sep-21		<0.00785	0.0900	0.0253 J	0.0122 J	<0.00590	<0.203	<0.0150	0.204	**1.76**	<0.00745	<0.00590	<0.00950	<0.0117
	MW-137	Oct-17		<0.0722	0.180 J	**0.265**	<0.0730	<0.0614		<0.0744	**1.54**	**1.16**	<0.0792	<0.0838	<0.0796	<0.0518
	MW-137	Apr-18		<0.0722	0.162 J	**0.398**	<0.0730	<0.0614		<0.0744	**1.83**	**1.30**	<0.0792	<0.0838	<0.0796	<0.0518
	MW-137	Oct-18		<0.0722	0.101 J	0.165 J	<0.0730	<0.0614		<0.0744	0.977	**0.688**	<0.0792	<0.0838	<0.0796	<0.0518
	MW-137	Apr-19		<0.0722	0.127 JJ4	**0.274**	<0.0730	<0.0614		<0.0744	**1.28**	**0.821**	<0.0792	<0.0838	<0.0796	<0.0518
	MW-138	Oct-17		0.00606	0.0697	<0.00170	0.0119	<0.00154		<0.00186	0.00577	0.00565 J	<0.00198	<0.00210	<0.00199	<0.00130
	MW-138	Apr-18		0.00518	0.0680	0.00541	0.0111	<0.00154		<0.00186	0.0128	0.0492	<0.00198	<0.00210	<0.00199	<0.00130
	MW-138	Oct-18		<0.00180	0.0724	0.00635	0.00906	<0.00154		<0.00186	0.00806	0.115	<0.00198	<0.00210	<0.00199	<0.00130
	MW-138	Apr-19		0.00737	0.108 J4	0.00315 J	0.0155	<0.00154		<0.00186	0.00480 J	0.100	<0.00198	<0.00210	<0.00199	<0.00130
	RW-1R	Apr-16		0.000511 J	0.00513	0.00110	0.000968 J	<0.000307		0.00258	0.00542	0.0122	0.0250	<0.000419	**0.00959**	0.00116
	RW-1	Apr-17		0.00401 J	0.00361 J	<0.00341	0.00414 J	<0.00307		<0.00372	0.0102	<0.0106	0.0108	<0.00419	**0.00896 J**	<0.00259
	RW-1	Apr-18		0.00339	0.0336	0.00282	0.00486	<0.000307		0.00413	0.0176	0.0855	0.0173	<0.000419	**0.0169**	0.00131
	RW-1	Apr-19		0.00257	0.0296 J4	0.00412	0.00418	<0.000307		0.00384	0.0221	0.0844	0.0226	<0.000419	**0.0237**	<0.000259
	RW-2	Apr-15		0.0106	0.0813	0.0853	0.0120	<0.00310		<0.0930	0.115	0.530	<0.00400	<0.00420	**0.0326**	<0.00260
	RW-2R	Apr-16		<0.0180	0.0412 J	0.0461 J	<0.0182	<0.0154		<0.0186	0.0569 J	0.299	<0.0198	<0.0210	**0.0285 J**	<0.0130
	RW-2	Apr-17		<0.0180	0.0816	0.0183 J	<0.0182	<0.0154		**0.0218 J**	0.0430 J	0.431	<0.0198	<0.0210	**0.0249 J**	<0.0130
	RW-2	Apr-18		0.0139	0.104	0.00601	0.0148	<0.000307		0.00335	0.0312	0.446	0.00825	<0.000419	**0.00521**	<0.000259
	RW-7	Apr-17		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	RW-7	Apr-18		0.00102	0.00280	0.00114	0.00386	<0.000307		<0.000372	0.00106	0.00545	<0.000396	<0.000419	<0.000398	<0.000259
	RW-7	Apr-19		<0.000361	0.000916 JJ4	<0.000341	0.00256	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	RW-7	Jun-20		<0.000157 J4	0.00235	0.000305 J	0.00389	<0.000118		<0.000300	0.000397 J	0.00240 J	<0.000149	<0.000118	<0.000190	<0.000234
	RW-8	Apr-15		<0.00360	0.00788 J	<0.00340	0.00942 J	<0.00310		<0.00370	<0.00780	<0.0110	<0.00400	<0.00420	<0.00400	<0.00260
	RW-8	Apr-17		0.00837	0.0191	0.0112	0.0117	<0.000307		<0.000372	0.00213	0.0498	<0.000396	<0.000419	0.00110	<0.000259
	RW-9	Apr-18		0.00212	0.0130	<0.000341	0.0194	<0.000307		<0.000372	0.00218	0.0180	<0.000396	<0.000419	<0.000398	<0.000259
	RW-9	Apr-19		0.00128	0.0105 J4	<0.000341	0.0247	<0.000307		<0.000372	0.00179	0.00929	<0.000396	<0.000419	<0.000398	<0.000259
	RW-9	Jun-20		0.000462 J	0.00201	0.000387 J	0.0152	<0.000118		<0.000300	0.00108	0.00136 J	<0.000149	<0.000118	<0.000190	<0.000234
	RW-9	Apr-21		<0.000157	0.00142	0.000732 J	0.0142	<0.000118		<0.000300	0.000442 J	0.00200 J	<0.000149	<0.000118	<0.000190	<0.000234
	RW-10	Apr-18		0.00108	<0.000349	0.00346	0.000567 J	<0.000307		<0.000372	0.00163	0.00474	<0.000396	<0.000419	<0.000398	<0.000259
	RW-10	Apr-19		<0.000361	<0.000349	0.00272	<0.000365	<0.000307		<0.000372	0.00135	0.00369	<0.000396	<0.000419	<0.000398	<0.000259
	RW-10	Jun-20		<0.000157	0.000158 J	0.00235	0.000279 J	<0.000118		<0.000300	0.00150	0.00387	<0.000149	<0.000118	<0.000190 J4	<0.000234
	RW-10	Apr-21		<0.000157	0.000395 J	0.0170	0.000615 J	<0.000118		<0.000300	0.0104	0.0200	<0.000149	<0.000118	<0.000190	<0.000234
	RW-16B	Apr-17		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	RW-16B	Apr-18		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	RW-16B	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	RW-16B	Jun-20		<0.000157	<0.0000993	0.000377 J	<0.000125	<0.000118		<0.000300	0.000428 J	0.00125 J	<0.000149	<0.000118	<0.000190	<0.000234
	RW-17A	Apr-17		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	RW-17A	Apr-18		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	RW-17A	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	RW-17A	Jun-20		<0.000157 J4	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
North RO Field	MW-117	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-117	Oct-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-117	Jun-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-117	Oct-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190 J4	<0.000234
	MW-117	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-117	Sep-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-118	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-118	Oct-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-118	Jun-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-118	Oct-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190 J4	<0.000234
	MW-118	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-118	Sep-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-119	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-119	Oct-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-119	Jun-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-119	Oct-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190 J4	<0.000234
	MW-119	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-119	Sep-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
South Refinery	KWB-2R	Apr-17		<0.000361	0.0121	0.000772 J	0.00279	<0.000307		<0.000372	<0.000412	0.0281	<0.000396	<0.000419	<0.000398	<0.000259
	KWB-2R	Oct-17		0.00453	0.111	0.00977	0.00996	<0.000307		<0.000372	0.0161	0.193	<0.000396	<0.000419	<0.000398	<0.000259
	KWB-2R	Apr-19		0.00147	0.0548	0.00500	0.00453	0.000710 J		<0.000372	0.00820	0.180	<0.000396	<0.000419	<0.000398	<0.000259
	KWB-2R	Oct-19		0.00315	0.101	0.00608	0.00857	0.00348		<0.000372	0.0140 J4	0.115	<0.000396	<0.000419	<0.000398	<0.000259
	KWB-5	Oct-17		0.00118	0.0134	<0.0852	0.00202	<0.000307		<0.000372	0.00156	<0.265	<0.000396	<0.000419	<0.000398	<0.000259
	KWB-5	Apr-18		<0.0902	<0.0872	<0.0852	<0.0912	<0.0768		<0.0930	<0.103	<0.265	<0.0990	<0.105	<0.0995	<0.0648
	KWB-5	Oct-18		<0.0902	<0.0872	<0.0852	<0.0912	<0.0768		<0.0930	<0.103	<0.265	<0.0990	<0.105	<0.0995	<0.0648
	KWB-5	Apr-19		<0.0902	<0.0872	<0.0852	<0.0912	<0.0768		<0.0930	<0.103	<0.265	<0.0990	<0.105	<0.0995	<0.0648

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Appendix C, Table C.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2020 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Volatile Organic Compounds													
				Analyte:	n-Butyl-benzene	N-Propyl-benzene	o-Xylene	sec-Butyl-benzene (2-Phenyl-butane)	Styrene	tert-Butyl alcohol (tert-Butanol)	Tetra-chloroethene	Toluene	Total Xylenes	trans-1,2-Dichloroethene	trans-1,3-Di-chloropropene	Tri-chloroethene	Vinyl Chloride
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL:	1.00	0.660	0.193	2.00	0.100	0.150	0.00500	1.00	0.620	0.100	--	0.00500	0.00200
				CGWSL Source:	USEPA TW	USEPA TW	WQCC TW	USEPA TW	WQCC HH	USEPA TW	WQCC HH	WQCC HH	WQCC HH	WQCC HH	--	WQCC HH	WQCC HH
Area	Well ID	Date	Dup														
South Refinery	KWB-6	Apr-17		0.00434 J	0.0737	0.0179	0.00695	<0.00154		<0.00186	0.0205	0.391	<0.00198	<0.00210	<0.00199	<0.00130	
	KWB-6	Oct-17		<0.000361	0.0386	0.00804	0.00483	<0.000307		<0.000372	0.0122	0.283	<0.000396	<0.000419	<0.000398	<0.000259	
	KWB-6	Apr-18		<0.00722	0.0486	0.0350	<0.00730	<0.00614		<0.00744	0.00879 J	0.258	<0.00792	<0.00838	<0.00796	<0.00518	
	KWB-6	Oct-18		<0.00722	0.0234	0.0234	<0.00730	<0.00614		<0.00744	0.0126 J	0.379	<0.00792	<0.00838	<0.00796	<0.00518 J3	
	MW-28	Apr-19		<0.0180	0.0457 J	<0.0170	<0.0182	<0.0154		<0.0186	0.0272 J	0.140 J	<0.0198	<0.0210	<0.0199	<0.0130	
	MW-28	Oct-19		<0.0181	0.0947	<0.0170	<0.0183	<0.0154		<0.0186	0.0384 J	0.264	<0.0198	<0.0209	<0.0199	<0.0130	
	MW-28	Jun-20		0.00113 J	0.0241	0.00154 J	0.00221 J	<0.000590		<0.00150 J4	0.0126	0.0916	<0.000745	<0.000590	<0.000950	<0.00117	
	MW-28	Oct-20		<0.000785	0.0182	0.00171 J	0.00171 J	<0.000590		<0.00150	0.00882	0.0626	<0.000745	<0.000590 J4	<0.000950	<0.00117	
	MW-48	Apr-18		<0.0902	0.118 J	<0.0852	<0.0912	<0.0768		<0.0930	**1.02**	**0.955**	<0.0990	<0.105	<0.0995	<0.0648	
	MW-48	Oct-18		<0.0902	0.145 J	<0.0852	<0.0912	<0.0768		<0.0930	<0.103	0.358 J	<0.0990	<0.105	<0.0995	<0.0648 J3	
	MW-48	Apr-19		<0.0902	0.177 J	<0.0852	<0.0912	<0.0768		<0.0930	0.152 J	0.498 J	<0.0990	<0.105	<0.0995	<0.0648	
	MW-48	Oct-19		<0.0903	0.0908 J	<0.0852	<0.0913	<0.0768		<0.0930	0.138 J	0.290 J	<0.0990	<0.105	<0.0995	<0.0648	
	MW-50	Apr-19		<0.000361	<0.000349 J4	<0.000341	0.000552 J	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259	
	MW-50	Oct-19		<0.000361	<0.000349	<0.000341	0.000448 J	<0.000307		<0.000372	<0.000412 J4	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259	
	MW-50	Jun-20		<0.000157	<0.0000993	<0.000174	0.000485 J	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234	
	MW-50	Oct-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190 J4	<0.000234	
	MW-50	Apr-21		<0.000157	<0.0000993	<0.000174	0.000629 J	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234	
	MW-50	Sep-21		<0.000157	0.000219 J	<0.000174	0.000621 JB	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234	
	MW-52	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259	
	MW-52	Oct-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259	
	MW-52	Jun-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234	
	MW-52	Oct-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118 J4	<0.000190	<0.000234	
	MW-52	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234	
	MW-52	Sep-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234	
	MW-64	Apr-19		<0.00722	0.102	**1.49**	0.00989 J	<0.00614		<0.00744	**15.4**	**5.39**	<0.00792	<0.00838	<0.00796	<0.00518	
	MW-64	Oct-19		<0.00903	0.106	**1.14**	0.0112 J	<0.00768		<0.00930	**11.2**	**5.06**	<0.00990	<0.0105	<0.00995	<0.00648	
	MW-64	Jun-20		<0.0785	0.0725 J	**1.03**	<0.0625	<0.0590		<0.150	**9.93**	**4.29**	<0.0745	<0.0590	<0.0950 J4	<0.117	
	MW-64	Oct-20		<0.0785	0.0626 J	**0.794**	<0.0625	<0.0590		<0.150	**8.09**	**3.10**	<0.0745	<0.0590 J4	<0.0950	<0.117	
	MW-64	Apr-21		<0.0785	0.0953 J	**0.928**	<0.0625	<0.0590		<0.150	**8.88**	**4.15**	<0.0745	<0.0590	<0.0950	<0.117	
	MW-64	Sep-21		<0.00785	0.0392 J	**0.822**	<0.00625	<0.00590	**2.48**	<0.0150	**9.03**	**3.06**	<0.00745	<0.00590	<0.00950	<0.0117	
	MW-65	Apr-18		<0.0361	0.0716 J	<0.0341	<0.0365	<0.0307		<0.0372	<0.0412	<0.106	<0.0396	<0.0419	<0.0398	<0.0259	
	MW-65	Oct-18		<0.0361	0.0881 J	<0.0341	<0.0365	<0.0307		<0.0372	<0.0206	<0.106	<0.0396	<0.0419	<0.0398	<0.0259	
	MW-65	Apr-19		<0.0361	0.0831 J	<0.0341	<0.0365	<0.0307		<0.0372	<0.0412	<0.106	<0.0396	<0.0419	<0.0398	<0.0259	
	MW-65	Oct-19		<0.0361	0.0971 J	<0.0341	<0.0365	<0.0307		<0.0372	<0.0412	<0.106	<0.0396	<0.0419	<0.0398	<0.0259	
	MW-66	Apr-19		<0.00902	0.0467	<0.00852	<0.00912	<0.00768		<0.00930	<0.0103	<0.0265	<0.00990	<0.0105	<0.00995	<0.00648	
	MW-66	Oct-19		<0.00903	0.0693	<0.00852	0.00932 J	<0.00768		<0.00930	<0.0103	<0.0265	<0.00990	<0.0105	<0.00995	<0.00648	
	MW-66	Jun-20		0.00824 J4	0.0851	0.00239	0.00857	<0.000118		<0.000300	0.00581	0.0145	<0.000149	<0.000118	<0.000190	<0.000234	
	MW-66	Oct-20		0.00483 J	0.0513	0.00183 J	0.00634 J	<0.00118		<0.00300	0.00445 J	0.00787 J	<0.00149	<0.00118 J4	<0.00190	<0.00234	
	MW-66	Apr-21		0.00627 J	0.0447	0.00451 J	0.00711 J	<0.00118		<0.00300	0.0129	0.0268 J	<0.00149	<0.00118	<0.00190	<0.00234	
	MW-99	Oct-18		<0.0361	0.101	<0.0341	<0.0365	<0.0307		<0.0372	<0.0412	0.358	<0.0396	<0.0419	<0.0398	<0.0259 J3	
	MW-99	Apr-19		<0.0361	0.0620 J	<0.0341	<0.0365	<0.0307		<0.0372	<0.0412	0.379	<0.0396	<0.0419	<0.0398	<0.0259	
	MW-99	Oct-19		<0.0361	0.0512 J	<0.0341	<0.0365	<0.0307		<0.0372	<0.0412	0.218 J	<0.0396	<0.0419	<0.0398	<0.0259	
	MW-99	Jun-20		0.00233 J	0.0249	0.00630 J	0.00426 J	<0.00118		<0.00300	0.00330 J	0.0784	<0.00149	<0.00118	<0.00190	<0.00234	
	MW-101	Apr-19		<0.000361	<0.000349	<0.000341	0.000681 J	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259	
	MW-101	Oct-19		<0.000361	0.000446 J	<0.000341	0.00131	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259	
	MW-101	Jun-20		<0.000157	0.000369 J	<0.000174	0.00174	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190 J4	<0.000234	
	MW-101	Oct-20		0.000929 J	0.0157	0.000814 J	0.00403	<0.000118		<0.000300	0.00858	0.0779	<0.000149	<0.000118	<0.000190 J4	<0.000234	
	MW-101	Apr-21		<0.00314	0.0142 J	<0.00348	0.00320 J	<0.00236		<0.00600	<0.00556	<0.00348	<0.00298	<0.00236	<0.00380	<0.00468	
	MW-101	Sep-21		0.00109	0.0140	0.000274 J	0.00356	<0.000118	0.108	<0.000300	0.00279	0.00375	<0.000149	<0.000118	<0.000190	<0.000234	
	MW-102	Apr-19		0.00897	0.0534	0.0430	0.0117	<0.000307		<0.000372	0.169	0.405	<0.000396	<0.000419	<0.000398	<0.000259	
	MW-102	Oct-19		<0.0181	0.0774	0.0825	<0.0183	<0.0154		<0.0186	0.238	0.532	<0.0198	<0.0209	<0.0199	<0.0130	
	MW-102	Jun-20		<0.0157	0.0356 J	<0.0174	<0.0125	<0.0118		<0.0300	0.0484 J	0.188 J	<0.0149	<0.0118	<0.0190	<0.0234	
	MW-102	Oct-20		<0.0157	0.0310 J	0.0274 J	<0.0125	<0.0118		<0.0300	0.0746 J	0.254 J	<0.0149	<0.0118 J4	<0.0190	<0.0234	
	MW-102	Apr-21		<0.0157	0.0481 J	<0.0174	<0.0125	<0.0118		<0.0300	0.0385 J	0.165 J	<0.0149	<0.0118	<0.0190	<0.0234	
	MW-102	Sep-21		<0.00785	0.0525	0.0149 J	0.0126 J	<0.00590	**0.588**	<0.0150	0.0990	0.263	<0.00745	<0.00590	<0.00950	<0.0117	
	MW-102	Sep-21	FD	<0.00785	0.0523	0.0196 J	0.0120 J	<0.00590	**0.502**	<0.0150	0.0893	0.273	<0.00745	<0.00590	<0.00950	<0.0117	
	MW-103	Apr-18		0.00391	0.0425	0.00461	0.00527	<0.000307		<0.000372	0.0408	0.0124	<0.000396	<0.000419	<0.000398	<0.000259	
	MW-103	Apr-19		<0.00722	0.0303	<0.00682	<0.00730	<0.00614		<0.00744	0.0347	<0.0212	<0.00792	<0.00838	<0.00796	<0.00518	
	MW-103	Jun-20		<0.00314	0.0304	<0.00348	0.00370 J	<0.00236		<0.00600	0.0121 J	<0.00348	<0.00298	<0.00236	<0.00380 J4	<0.00468	
	MW-103	Apr-21		0.00341 J	0.0356	0.00571 J	0.00417 J	<0.00236		<0.00600	0.0113 J	0.00571 J	<0.00298	<0.00236	<0.00380	<0.00468	
	MW-104	Apr-19		0.000445 J	0.00152	<0.000341	0.0443	<0.000307		<0.000372	0.000567 J	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259	
	MW-104	Apr-19	FD	<0.000361	0.00179	<0.000341	0.0413	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259	
	MW-104	Oct-19		<0.000361	0.00250	<0.000341	0.0390	0.000337 J		<0.000372	0.000515 JJ4	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259	
	MW-104	Oct-19	FD	0.000506 J	0.00197	<0.000341	0.0404	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259	
	MW-104	Jun-20		0.000349 J	0.00223	<0.000174	0.0437	<0.000118		<0.000300	0.000324 J	<0.000174	<0.000149	<0.000118	<0.000190 J4	<0.000234	
	MW-104	Jun-20	FD	0.000293 J	0.00216	<0.000174	0.0367	<0.000118		<0.000300 J4	0.000403 J	<0.000174	<0.000149	<0.000118	<0.000190 J4	<0.000234	
	MW-104	Oct-20		0.000360 J	0.00184	0.000239 J	0.0385	<0.000118		<0.000300	<0.000278	0.000239 J	<0.000149	<0.000118	<0.000190 J4	<0.000234	
	MW-104	Oct-20	FD	0.000164 J	0.00195	0.000193 J	0.0389	<0.000118		<0.000300	<0.000278	0.000193 J	<0.000149	<0.000118	<0.000190 J4	<0.000234	
	MW-104	Apr-21		0.000347 J	0.00217	<0.000174	0.0403	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234	
	MW-104	Apr-21	FD	0.000375 J	0.00210	<0.000174	0.0404	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234	
	MW-104	Sep-21		<0.000785	0.00316 J	<0.000870	0.0397	<0.000590	<0.0203	<0.00150	<0.00139	<0.000870	<0.000745	<0.000590	<0.000950	<0.00117	
	MW-105	Apr-19		0.00295	0.0306	<0.0170	0.00685	<0.000307		<0.000372	0.0155	0.239	<0.000396	<0.000419	<0.000398	<0.000259	
	MW-105	Oct-19		<0.0181	0.0321 J	<0.0170	<0.0183	<0.0154		<0.0186	<0.0206	0.308	<0.0198	<0.0209	<0.0199	<0.0130	
	MW-105	Jun-20		<0.00785 J4	0.0301 J	<0.00870	0.00775 J	<0.00590		<0.0150	0.0150 J	0.237	<0.00745	<0.00590	<0.00950	<0.0117	
	MW-105	Oct-20		<0.00785	0.0302 J	<0.00870	<0.00625	<0.00590		<0.0150	0.0187 J	0.371	<0.00745	<0.00590 J4	<0.00950	<0.0117	
	MW-105	Apr-21		<0.0157	0.0476 J	<0.0174	<0.0125	<0.0118		<0.0300	<0.0278	0.215 J	<0.0149	<0.0118	<0.0190	<0.0234	
	MW-106	Apr-19		<0.180	0.321 J	<0.170	<0.182	<0.154		<0.186	<0.206	<0.530	<0.198	<0.210	<0.199	<0.130	
	MW-106	Oct-19		<0.0181	0.0444 J	<0.0170	<0.0183	<0.0154		<0.0186	0.158	0.196	<0.0198	<0.0209	<0.0199	<0.0130	
	MW-106	Jun-20		<0.0157	0.0380 J	<0.0174	<0.0125	<0.0118		<0.0300	0.313	0.173 J	<0.0149	<0.0118	<0.0190	<0.0234	
	MW-106	Oct-20		<0.0314	0.0426 J	0.0359 J	<0.0250	<0.0236		<0.0600	0.295	0.289 J	<0.0298	<0.0236	<0.0380 J4	<0.0468	
	MW-106	Apr-21		<0.0314	0.0498 J	<0.0348	<0.0250	<0.0236		<0.0600	0.289	0.245 J	<0.0298	<0.0236	<0.0380	<0.0468	
	MW-107	Oct-16		0.00182 J	0.0693	0.00265 J	0.00592	<0.00154		<0.00186	0.00800 J	0.0112 J	<0.00198	<0.00210	<0.00199	<0.00130	
	MW-107	Apr-17		<0.0180	0.0528	<0.0170	<0.0182	<0.0154		<0.0186	<0.0206	<0.0530	<0.0198	<0.0210	<0.0199	<0.0130	
	MW-107	Apr-18		0.00377	0.0857	0.00279	0.00830	<0.000307		<0.000372	0.0142	0.0159	<0.000396	<0.000419	<0.000398	<0.000259	
	MW-107	Apr-19		<0.0902	<0.0872	<0.0852	<0.0912	<0.0768		<0.0930	<0.103	<0.265	<0.0990	<0.105	<0.0995	<0.0648	
	MW-109	Apr-19		<0.00722	0.0536	<0.00682	0.00762 J	<0.00614		<0.00744	0.0122 J	<0.0212	<0.00792	<0.00838	<0.00796	<0.00518	
	MW-109	Oct-19		0.00260 J	0.0500	<0.00170	0.00620	<0.00154		<0.00186	0.0151 J4	0.0136 J	<0.00198	<0.00209	<0.00199 J4	<0.00130	
	MW-109	Jun-20		<0.00157	0.0596	<0.00174	0.00604 J	<0.00118		<0.00300	0.0221	0.0238 J	<0.00149	<0.00118	<0.00190	<0.00234	
	MW-109	Oct-20		0.00220 J	0.0463	<0.00174	0.00621 J	<0.00118		<0.00300	0.0123	0.0114 J	<0.00149	<0.00118 J4	<0.00190	<0.00234	
	MW-109	Apr-21		0.00228 J	0.0470	<0.00174	0.00638 J	<0.00118		<0.00300	0.00829 J	0.00555 J	<0.00149	<0.00118	<0.00190	<0.00234	
	MW-109	Sep-21		<0.00393	0.0640	<0.00435	0.00752 J	<0.00295	<0.102	<0.00750	0.0250 J	0.0145 J	<0.00373	<0.00295	<0.00475	<0.00585	

Appendix C, Table C.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2020 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Volatile Organic Compounds												
				Analyte:	n-Butyl-benzene	N-Propyl-benzene	o-Xylene	sec-Butyl-benzene (2-Phenyl-butane)	Styrene	tert-Butyl alcohol (tert-Butanol)	Tetra-chloroethene	Toluene	Total Xylenes	trans-1,2-Dichloroethene	trans-1,3-Di-chloropropene	Tri-chloroethene	Vinyl Chloride
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL:	1.00	0.660	0.193	2.00	0.100	0.150	0.00500	1.00	0.620	0.100	--	0.00500	0.00200
				CGWSL Source:	USEPA TW	USEPA TW	WQCC TW	USEPA TW	WQCC HH	USEPA TW	WQCC HH	WQCC HH	WQCC HH	WQCC HH	--	WQCC HH	WQCC HH
Area	**Well ID**	**Date**	**Dup**														
South Refinery	MW-110	Apr-19		0.000715 J	0.00393	<0.000341	0.00317	<0.000307		<0.000372	0.000544 J	0.00169 J	<0.000396	<0.000419	<0.000398	<0.000259
	MW-110	Oct-19		<0.000361	0.000373 J	<0.000341	0.000943 J	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-110	Jun-20		<0.000157	0.00560	<0.000174	0.00314	<0.000118		<0.000300	<0.000278	0.00123 J	<0.000149	<0.000118	<0.000190	<0.000234
	MW-110	Oct-20		<0.000157	0.000270 J	<0.000174	0.00114	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118 J4	<0.000190	<0.000234
	MW-110	Apr-21		<0.000157	0.00139	<0.000174	0.00298	<0.000118		<0.000300	0.000418 J	0.000578 J	<0.000149	<0.000118	<0.000190	<0.000234
	MW-110	Sep-21		<0.000157	0.000228 J	<0.000174	0.00525	<0.000118	<0.00406	<0.000300	<0.000278	0.00315	<0.000149	<0.000118	<0.000190	<0.000234
	MW-139	Oct-19		0.000506 J	0.00877	<0.000341	0.00686	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-139	Jun-20		<0.000157	0.000176 J	<0.000174	0.00734	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-139	Oct-20		<0.000157	<0.0000993	<0.000174	0.00597	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190 J4	<0.000234
	MW-139	Apr-21		<0.000157	0.000343 J	<0.000174	0.00455	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-139	Sep-21		0.000167 JB	0.00309	<0.000174	0.00810	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	RA-313	Apr-18		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	RA-313	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	RA-313	Jun-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	RA-313	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	RW-4	Apr-17		<0.00180	0.00532	<0.00170	0.00213 J	<0.00154		<0.00186	<0.00206	<0.00530	<0.00198	<0.00210	<0.00199	<0.00130
	RW-4	Apr-18		<0.000361	0.00113	<0.000341	0.00254	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	RW-4	Apr-19		0.00127	0.0120	0.000454 J	0.00403	<0.000307		<0.000372	0.000772 J	0.00192 J	<0.000396	<0.000419	<0.000398	<0.000259
	RW-4	Jun-20		<0.000157	0.00881	0.00105	0.00611	<0.000118		<0.000300	0.00557	0.00375	<0.000149	<0.000118	<0.000190	<0.000234
	RW-5R	Apr-15		0.00606 J	0.0598	**0.522**	0.00691 J	<0.00310		<0.00370	**2.26**	**1.91**	<0.00400	<0.00420	<0.00400	<0.00260
	RW-5R	Apr-16		0.0117 J	0.110	**0.570**	0.0130 J	<0.00614		<0.00744	**2.51**	**2.25**	<0.00792	<0.00838	<0.00796	<0.00518
	RW-6	Apr-15		0.00738 J	0.0237	0.0558	0.00944 J	<0.00310		<0.00370	0.0126 J	0.158	<0.00400	<0.00420	<0.00400	<0.00260
	RW-6R	Apr-16		0.00138	0.00731	0.00275	0.00590	<0.000307		<0.000372	0.00683	0.00747	<0.000396	<0.000419	<0.000398	<0.000259
	RW-6	Apr-18		0.00631	0.0329	0.0570	0.0148	<0.000307		<0.000372	0.448	0.150	<0.000396	<0.000419	<0.000398	<0.000259
	RW-6	Apr-19		<0.00722	0.0308	0.00804 J	0.0141 J	<0.00614		<0.00744	0.0211	0.0304 J	<0.00792	<0.00838	<0.00796	<0.00518
	RW-15C	Apr-17		0.0168 J	0.296	**0.472**	0.0194 J	<0.00768		<0.00930	0.172	**5.39**	<0.00990	<0.0105	<0.00995	<0.00648
	RW-15C	Apr-18		0.00683	0.190	0.0285	0.0114	<0.000307		<0.000372	0.111	**3.01**	<0.000396	<0.000419	<0.000398	<0.000259
	RW-15C	Apr-19		0.0134	0.215	0.00812 J	0.0148	<0.00307		<0.00372	0.0871	**1.05**	<0.00396	<0.00419	<0.00398	<0.00259
South RO Field	MW-114	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-114	Oct-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-114	Jun-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-114	Oct-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118 J4	<0.000190	<0.000234
	MW-114	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-114	Sep-21		0.000677 J	0.000457 J	<0.000174	0.00339	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-115	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-115	Oct-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-115	Jun-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-115	Oct-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118 J4	<0.000190	<0.000234
	MW-115	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-115	Sep-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-116	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-116	Oct-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412 J4	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-116	Jun-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-116	Oct-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118 J4	<0.000190	<0.000234
	MW-116	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-116	Sep-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
TEL	MW-49	Apr-19		0.00321 J	0.0333 J4	0.00242 J	0.00534	<0.00154		<0.00186	0.00550	0.114	<0.00198	<0.00210	<0.00199	<0.00130
	MW-49	Oct-19		<0.00181	0.0473	0.00243 J	0.00340 J	<0.00154		<0.00186	0.00941	0.122	<0.00198	<0.00209	<0.00199	<0.00130
	MW-49	Jun-20		0.00395 J	0.0462	<0.00348	0.00708 J	<0.00236		<0.00600	0.00895 J	0.179	<0.00298	<0.00236	<0.00380	<0.00468
	MW-49	Oct-20		<0.00314	0.0359	<0.00348	0.00550 J	<0.00236		<0.00600	<0.00556	0.113	<0.00298	<0.00236	<0.00380	<0.00468
	MW-49	Apr-21		<0.00393	0.0268	<0.00435	0.00546 J	<0.00295		<0.00750	<0.00695	0.0793	<0.00373	<0.00295	<0.00475	<0.00585
	MW-49	Sep-21		0.00213 J	0.0210	<0.00174	0.00491 J	<0.00118	<0.0406	<0.00300	0.00473 J	0.0675	<0.00149	<0.00118	<0.00190	<0.00234
	TEL-1	Oct-18		<0.00180	<0.00174	<0.00170	<0.00182	<0.00154		<0.00186	<0.00206	<0.00530	<0.00198	<0.00210	<0.00199	<0.00130
	TEL-1	Apr-19		<0.000361	<0.000349	0.00126	0.000516 J	<0.000307		<0.000372	0.000600 J	0.00126 J	<0.000396	<0.000419	<0.000398	<0.000259
	TEL-1	Oct-19		<0.000361	<0.000349	0.00196	0.000685 J	<0.000307		<0.000372	0.000961 J	0.00284 J	<0.000396	<0.000419	<0.000398	<0.000259
	TEL-1	Jun-20		<0.000157	0.000241 J	0.00155	0.000692 J	<0.000118		<0.000300	0.000961 J	0.00294 J	<0.000149	<0.000118	<0.000190	<0.000234
	TEL-2	Oct-18		<0.00902	0.0429	<0.00852	<0.00912	<0.00768		<0.00930	0.0209 J	0.123	<0.00990	<0.0105	<0.00995	<0.00648
	TEL-2	Apr-19		<0.00361	0.0223	<0.00341	0.00395 J	<0.00307		<0.00372	0.0113	0.0843	<0.00396	<0.00419	<0.00398	<0.00259
	TEL-2	Oct-19		<0.00361	0.0242	<0.00341	<0.00365	<0.00307		<0.00372	0.00920 J	0.0638	<0.00396	<0.00419	<0.00398	<0.00259
	TEL-2	Jun-20		<0.00157	0.0150	<0.00174	0.00313 J	<0.00118		<0.00300	0.00510 J	0.0489	<0.00149	<0.00118	<0.00190	<0.00234
	TEL-3	Apr-18		0.00174	0.00998	0.00313	0.0117	<0.000307		<0.000372	0.00394	0.0219	<0.000396	<0.000419	<0.000398	<0.000259
	TEL-3	Apr-19		0.00189	0.0115	0.00165	0.00962	<0.000307		<0.000372	0.00166	0.00882	<0.000396	<0.000419	<0.000398	<0.000259
	TEL-3	Oct-19		0.00152	0.0154	0.00191	0.00654	<0.000307		<0.000372	0.00150	0.0142	<0.000396	<0.000419	<0.000398	<0.000259
	TEL-3	Oct-20		0.00244	0.0255	0.00640	0.00749	<0.000118		<0.000300	0.00449	0.0505	<0.000149	<0.000118	<0.000190 J4	<0.000234
	TEL-4	Apr-19		0.00103	0.0117	<0.000341	0.00952	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	TEL-4	Apr-19	FD	0.00114	0.0120	<0.000341	0.00981	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	TEL-4	Oct-19		<0.00181	0.0102	<0.00170	<0.00183	<0.00154		<0.00186	<0.00206	<0.00530	<0.00198	<0.00209	<0.00199	<0.00130
	TEL-4	Oct-19	FD	<0.000361	0.0109	<0.000341	0.0105	<0.000307		<0.000372	0.000648 J	0.00125 J	<0.000396	<0.000419	<0.000398	<0.000259
	TEL-4	Jun-20		<0.000785	0.00519	<0.000870	0.00914	<0.000590		<0.00150	<0.00139	<0.000870	<0.000745	<0.000590	<0.000950	<0.00117
	TEL-4	Jun-20	FD	0.000859 J	0.00690	0.000275 J	0.0111	<0.000118		<0.000300	0.000640 J	0.00211 J	<0.000149	<0.000118	<0.000190	<0.000234
	TEL-4	Oct-20		<0.000785	0.00405 J	<0.000870	0.00754	<0.000590		<0.00150	<0.00139	<0.000870	<0.000745	<0.000590	<0.000950	<0.00117
	TEL-4	Oct-20	FD	0.000616 J	0.00460	0.000209 J	0.00930	<0.000118		<0.000300	0.000395 J	0.00117 J	<0.000149	<0.000118	<0.000190	<0.000234
	TEL-4	Apr-21		0.000428 J	0.00243	0.000599 J	0.0112	<0.000118		<0.000300	0.000798 J	0.00211 J	<0.000149	<0.000118	<0.000190	<0.000234
	TEL-4	Apr-21	FD	0.000541 J	0.00328	0.000592 J	0.0107	<0.000118		<0.000300	0.000757 J	0.00209 J	<0.000149	<0.000118	<0.000190	<0.000234
	TEL-4	Sep-21		0.000327 J	0.00478	0.000229 J	0.00798	<0.000118	0.130	<0.000300	0.00113	0.00136 J	<0.000149	<0.000118	<0.000190	<0.000234
	TEL-4	Sep-21	FD	0.000337 J	0.00513	0.000254 J	0.00921	<0.000118	0.147	<0.000300	0.00129	0.00132 J	<0.000149	<0.000118	<0.000190	<0.000234
Three Mile Ditch	MW-8	Apr-18		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-8	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-8	Jun-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-8	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-16	Apr-18		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-16	Apr-19		<0.000361	<0.000349 J4	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-16	Jun-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-16	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-20	Apr-18		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-20	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-20	Jun-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-20	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-21	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-21	Oct-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-21	Jun-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-21	Oct-20		<0.000785	<0.000497	<0.000870	<0.000625	<0.000590		<0.00150	<0.00139	<0.000870	<0.000745	<0.000590	<0.000950	<0.00117
	MW-21	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-21	Sep-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-25	Apr-18		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-25	Apr-19		<0.000361	<0.000349 J4	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-25	Jun-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-25	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-26	Apr-18		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-26	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-26	Jun-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-26	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234

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Appendix C, Table C.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2020 Annual Groundwater Monitoring Report
HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Volatile Organic Compounds													
				Analyte:	n-Butyl-benzene	N-Propyl-benzene	o-Xylene	sec-Butyl-benzene (2-Phenyl-butane)	Styrene	tert-Butyl alcohol (tert-Butanol)	Tetra-chloroethene	Toluene	Total Xylenes	trans-1,2-Dichloroethene	trans-1,3-Di-chloropropene	Tri-chloroethene	Vinyl Chloride
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL:	1.00	0.660	0.193	2.00	0.100	0.150	0.00500	1.00	0.620	0.100	--	0.00500	0.00200
				CGWSL Source:	USEPA TW	USEPA TW	WQCC TW	USEPA TW	WQCC HH	USEPA TW	WQCC HH	WQCC HH	WQCC HH	WQCC HH	--	WQCC HH	WQCC HH
Area	Well ID	Date	Dup														
Three Mile Ditch	MW-27	Apr-18		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-27	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-27	Jun-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-27	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-46R	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-46R	Oct-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-46R	Jun-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-46R	Oct-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-46R	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-46R	Sep-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-68	Apr-18		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-68	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-68	Jun-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-68	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-71	Apr-18		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-71	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-71	Jun-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-71	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-89	Apr-18		<0.000361	<0.000349	0.000421 J	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-89	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-89	Jun-20		<0.000157	<0.0000993	0.000664 J	<0.000125	<0.000118		<0.000300	<0.000278	0.000664 J	<0.000149	<0.000118	<0.000190	<0.000234
	MW-89	Apr-21		<0.000157	<0.0000993	0.000241 J	<0.000125	<0.000118		<0.000300	<0.000278	0.000241 J	<0.000149	<0.000118	<0.000190	<0.000234
	NP-1	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	NP-1	Oct-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	NP-1	Jun-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	NP-1	Oct-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	0.000456 J	<0.000149	<0.000118	<0.000950	<0.000234
	NP-1	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	NP-1	Sep-21		<0.000157	<0.00248	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	NP-6	Apr-15		<0.000360	<0.000350	<0.000340	<0.000360	<0.000310		<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000400	<0.000260
	NP-6	Apr-17		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	NP-6	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	NP-6	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
Upgradient	UG-1	Apr-18		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	UG-1	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	UG-1	Jun-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190 J4	<0.000234
	UG-1	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	UG-2	Apr-18		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	UG-2	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	UG-2	Jun-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190 J4	<0.000234
	UG-2	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	UG-3R	Apr-18		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	UG-3R	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	UG-3R	Jun-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190 J4	<0.000234
	UG-3R	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	UG-4	Apr-18		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	UG-4	Apr-19		<0.000361	<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	UG-4	Jun-20		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190 J4	<0.000234
	UG-4	Apr-21		<0.000157	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234

Definitions

X	Reported concentration, X, exceeds the CGWSL.
X	Analyte detected above the detection limit at a concentration equal to X.
<x	Analyte not detected at detection limit equal to x.
<x	Analyte not detected at detection limit equal to x, but x exceeds the CGWSL.
	Blank cell indicates a sample was collected from the well during the indicated sampling event, but the analyte was not analyzed.
---	No applicable CGWSL.

Abbreviations

CGWSL	Critical Groundwater Screening Level (see Table 3)
CGWSL Source	Source for CGWSL value (see Table 3)
Dup	Duplicate sample
FD	Field duplicate sample
mg/L	Milligrams per Liter
NMED TW	NMED Risk Assessment Guidance for Site Investigations and Remediation, February 2019, Rev 2 (6/19/19), Table A-1, Tap Water Screening Level
USEPA TW	United States Environmental Protection Agency Tap Water Screening Level, "Regional Screening Levels (RSL) Summary Table", November 2020
USEPA MCL	United States Environmental Protection Agency Maximum Contaminant Level, "Regional Screening Levels (RSL) Summary Table", November 2020
WQCC Dom	NMED Groundwater standard for domestic exposure, 20.6.2.3103.B NMAC
WQCC HH	NMED Groundwater standard for human health exposure, 20.6.2.3103.A NMAC

Lab Footnote	
B	Analyte was also detected in the associated method blank.
J	Indicates an estimated value.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
Q	Sample was prepared and/or analyzed past recommended holding time.
V3	Internal standard exhibited poor recovery due to sample matrix interference; analytical result biased high.

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Appendix B, Table B.5 - Summary of Groundwater Analytical Data - Water Quality and Cyanide

2021 Annual Groundwater Monitoring Report

HollyFontier NavaJo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	Water Quality Parameters								Cyanide
				Analyte	Calcium	Chloride	Fluoride	Potassium	Sodium	Sulfate	TDS	Nitrate/Nitrite	Cyanide
				CAS	7440-70-2	16887-00-6	16984-48-8	7440-09-7	7440-23-5	14808-79-8	TDS	NO3NO2	57-12-5
				Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL		250	1.60			600	1000	10.0	0.200
				CGWSL Source		WQCC Dom	WQCC HH			WQCC Dom	WQCC Dom	WQCC HH	WQCC HH
Area	**Well ID**	**Date**	**Dup**										
Cross-Gradient	KWB-13	Apr-18		558	136	0.704	1.66	227	**2470**	**3580**	**15.3**		<0.00180
	KWB-13	Apr-19		630	125	0.605	1.69	220	**2470**	**3580**	**14.0**		<0.00180
	KWB-13	Jun-20		598	121	0.791	2.10	169	**2430**	**3710**	**14.9**		<0.00180
	KWB-13	Apr-21		660	128	0.689	3.54	181	**2090**	**3610**	**16.1 V**		<0.00180
	MW-136	Apr-19		688	**284 B**	**1.69**	2.83	144	**2680**	**4150**	4.12 J6		0.00264 J
	MW-136	Oct-19		630	**280**	**1.73**	2.75	140	**2520**	**4100**	2.38		<0.00180
	MW-136	Jun-20		631	**300**	**1.62**	2.53	139	**2370**	**4290**	**13.2**		<0.00180
	MW-136	Oct-20		640	**290**	1.54	2.55	148	**2150**	**4180**	**14.4**		<0.00180
	MW-136	Apr-21		580	**272**	1.57	2.25	128	**2020**	**3640**	**13.8**		<0.00180
	MW-136	Sep-21		542	**268 B**	1.53	2.42	115 V	**1700**	**3360**	**12.2**		<0.00180
	NP-5	Apr-15		448	**993**	**2.13**	0.484 J	209	**3030**	**6060 J**	1.38		
	NP-5	Apr-17		514	**444**	**1.63**	0.422 J	212	**3770**	**4810**	2.22		
	NP-5	Apr-19		529	**310**	**2.16**	0.320 J	206	**3370**	**5240**	5		
	NP-5	Apr-21		529	**253**	**2.49**	0.258 J	226	**3320**	**5410**	0.721		
	RA-3156	Apr-18		341	**813**	0.470	2.63	444	**1020**	**2580**	<0.0197 J6		
	RA-3156	Apr-19		83.5	**807**	0.751	0.679 J	87.0	**1650**	**3240**	1.50		
	RA-3156	Jun-20		180	**280**	0.313	2.62	97.8	**603**	**1250**	<0.0500		
	RA-3156	Apr-21		338	**533**	0.587	2.49	268	**1340**	**2970**	0.0923 J		
Evaporation Ponds	MW-1R	Apr-18		623 V	**2200**	0.679	4.56	1520 V	**2740**	**6900**	0.0640 J		
	MW-1R	Apr-19		407	**1160**	0.710	3.80	1050	**2000**	**4980**	<0.0197		
	MW-1R	Jun-20		540	**1430**	0.732	4.01	831	**2060**	**3200**	<0.0500		
	MW-1R	Apr-21		418	**1000**	0.706	3.48	704	**1430**	**3030**	1.88		
	MW-2A	Apr-19		652	**5600**	**1.93**	5.50	3930	**5430**	**15800**	<0.0197		
	MW-2A	Oct-19		585	**2180**	**2.94**	4.21	1470	**2860**	**7000**	0.171		
	MW-2A	Jun-20		487	**879**	**2.70**	3.28	610	**1730**	**3960**	<0.0500		
	MW-2A	Oct-20		292	**1240**	**2.96**	3.46	908	**1860**	**4770**	0.0609 J		
	MW-2A	Apr-21		533	**2660**	**2.58**	3.74	2380	**3770**	**9880**	0.930		
	MW-2A	Sep-21		637	**3360**	**1.93**	4.43	3220	**4730**	**13100**	<0.0500		
	MW-3	Apr-19		579	**1140**	**1.96**	4.89	771	**2480**	**5510**	0.156		
	MW-3	Apr-19	FD	603	**1230**	**1.86**	4.92	774	**2530**	**5450**	0.157		
	MW-3	Oct-19		517	**1060**	**2.38**	7.63	840	**1680**	**4290**	<0.0197		
	MW-3	Oct-19	FD	540	**1190**	**2.53**	7.51	836	**1970**	**4950**	<0.0197		
	MW-3	Jun-20		553	**1280**	**2.40**	7.64	818	**2140**	**5200**	0.0662 JB		
	MW-3	Jun-20	FD	553	**1290**	**2.52**	7.54	827	**2260**	**4970 J4**	<0.0500		
	MW-3	Oct-20		514	**1250**	**1.97**	5.94	822	**1980**	**5250**	0.210		
	MW-3	Oct-20	FD	506	**939**	**1.69**	5.85	812	**1440**	**5090**	0.245 J6		
	MW-3	Apr-21		479	**1060**	**1.93**	5.09	785	**1690**	**3990**	0.214		
	MW-3	Apr-21	FD	493	**1110**	1.55	5.16 J	889	**1850**	**3790**	0.171		
	MW-3	Sep-21		680	**1510**	**1.80**	5.14	897	**2300**	**6070**	1.45		
	MW-3	Sep-21	FD		**1470**	**1.90**			**2400**	**6060**	1.46		
	MW-4A	Apr-19		418	**1450**	**1.82**	5.24	904	**1810**	**4940**	<0.0197		
	MW-4A	Oct-19		419	**1260**	**2.01**	5.80	855	**1380**	**4700**	0.0230 J		
	MW-4A	Jun-20		403	**1440**	**1.98**	4.72	962	**1890**	**4870**	<0.0500		
	MW-4A	Oct-20		415	**1350**	**2.31**	5.63	921	**1640**	**5000**	<0.0500		
	MW-4A	Apr-21		414	**1280**	**2.04**	6.03	914	**1630**	**3210**	<0.0500		
	MW-4A	Sep-21		505	**1390**	**1.90**	5.14	924	**2060**	**5680**	1.35		
	MW-4B	Apr-15		367	**1110**	0.963	2.32	696	**1340**	**3410 J**	<0.0200		
	MW-4B	Apr-17		360	**1330**	0.985	2.55	758	**1410**	**3690**	<0.0197		
	MW-4B	Apr-19		442	**1320**	0.775	2.50	703	**1430**	**4370**	<0.0197		
	MW-4B	Apr-21		406	**1130**	0.835	2.51	748	**1300**	**3310**	<0.0500		
	MW-5A	Apr-19		511	**3620**	**3.03**	6.36	3740	**8110**	**14800**	<0.0197		
	MW-5A	Oct-19		494	**2760**	**3.63**	6.85	3450	**6170**	**13900**	0.138		
	MW-5A	Jun-20		286	**1810**	**3.40**	5.65	2040	**3550**	**7460**	<0.0500		
	MW-5A	Oct-20		374	**2110**	**3.84**	8.27	2280	**4220**	**9910**	<0.0500		
	MW-5A	Apr-21		419	**2540**	**3.07**	7.69	2480	**5140**	**11700**	<0.0500		
	MW-5A	Sep-21		549	**3210**	**3.45**	7.37	3540	**7090**	**15400**	<0.0500		
	MW-5B	Apr-15		482	**1590**	1.41	9.01	1580	**3510**	**5980**	<0.0200		
	MW-5B	Apr-17		420	**1560**	**1.73**	9.18	1650	**2590**	**6290**	0.0210 J		
	MW-5B	Apr-19		389	**1530**	**1.70**	9.69	1490	**2660**	**6370**	<0.0197		
	MW-5B	Apr-21		359	**524**	1.05	3.74	431	**1370**	**2930**	<0.0500		
	MW-5C	Apr-15		427	**585**	0.910	3.97 J	485	**2020**	**3290**	<0.0200		
	MW-5C	Apr-17		383	**576**	0.971	3.90	500	**1740**	**3110**	<0.0197		
	MW-5C	Apr-19		390	**591**	0.896	4.11	450	**1540**	**3200**	<0.0197		
	MW-5C	Apr-21		379	**1360**	**2.06**	10.5	1420	**2380**	**5050**	<0.0500		
	MW-6A	Apr-18		303	**763**	1.59	1.31	776	**1690**	**3330**	0.0800 J		
	MW-6A	Apr-19		340	**803**	1.38	1.38	696	**1700**	**3520**	<0.0197		
	MW-6A	Jun-20		290	**669**	1.55	1.18 J	670	**1670**	**3640**	<0.0500		
	MW-6A	Apr-21		297	**647**	**1.67**	1.24 J	697	**1450**	**3070**	0.0885 J		
	MW-6B	Apr-15		568	**1740**	0.669 J	5.09	873	**2280**	**4760**	<0.0200		
	MW-6B	Apr-17		418	**1250**	0.694	3.97	738	**1730**	**4150**	<0.197		
	MW-6B	Apr-19		462	**1140**	0.519	4.45 O1	682	**1460**	**4190**	<0.0197		
	MW-6B	Apr-21		462	**970**	0.614	4.71	651	**1330**	**6950**	0.289		
	MW-7A	Apr-19		345	**2480**	1.10	3.95	1560	**3610**	**6920**	<0.0197		
	MW-7A	Apr-19	FD	373	**1990**	1.20	4.05	1530	**2490**	**6930**	<0.0197		
	MW-7A	Oct-19		423	**2880**	1.46	5.56	2310	**3250**	**9100**	3.13		
	MW-7A	Oct-19	FD	413	**2970**	1.27	5.48	2110	**3370**	**9440**	2.88		
	MW-7A	Jun-20		345	**2000**	1.20	3.28	1560	**2670**	**6630**	<0.0500		
	MW-7A	Jun-20	FD	370	**1950**	1.18	3.54 J	1550	**2600**	**6580**	0.0594 J		
	MW-7A	Oct-20		327	**1770**	1.42	3.83	1470	**2130**	**6330**	<0.0500 J6		
	MW-7A	Oct-20	FD	315	**1550**	1.29	3.71 B	1550	**1870**	**6260**	<0.0500		
	MW-7A	Apr-21		334	**1690**	1.21	3.68	1360	**2100**	**4800**	0.0648 J		
	MW-7A	Apr-21	FD	341	**2870**	1.15	3.93	1430	**3460**	**6460**	<0.0500		
	MW-7A	Sep-21		484	**2190**	1.16	3.92	1750	**3060**	**8170**	<0.0500		
	MW-7A	Sep-21	FD	495	**2260**	1.14	3.83	1740	**3160**	**8250**	<0.0500		
	MW-7B	Apr-15		556	**1060**	0.795	6.27	672	**2200**	**4640**	<0.0200		
	MW-7B	Apr-17		530	**1060**	0.966	6.71	652	**1750**	**4720**	0.0670 J		
	MW-7B	Apr-19		581	**1100**	0.823	6.70	581	**1910**	**4760**	<0.0197		
	MW-7B	Apr-21		562	**1030**	0.881	6.66	561	**1800**	**3430**	<0.0500		
	MW-10	Apr-19		457	**1290**	0.907	3.58	925	**2000**	**5070**	<0.0197		
	MW-10	Oct-19		653	**1610**	1.06	3.61	1190	**2530**	**6090 J3**	<0.0197		
	MW-10	Jun-20		445	**1300**	0.933	3.25	982 V	**1930**	**4970**	<0.0500		
	MW-10	Oct-20		435	**1250**	0.903	3.30	949	**1710**	**5080**	<0.0500		
	MW-10	Apr-21		431	**1170**	0.804	3.51	964	**1650**	**3620**	<0.0500 J6		
	MW-10	Sep-21		612	**1640**	1.11	3.22	1330	**2270**	**6630**	<0.0500		
	MW-11A	Apr-19		1140	**9210**	1.02	18.8	4410	**3430**	**19100**	0.744		
	MW-11A	Oct-19		1060	**7880**	1.32	22.0	4280	**2760**	**17000**	<0.0197		
	MW-11A	Jun-20		1110	**8800**	0.806	19.9	4410	**3210**	**18400 J3J4**	<0.0500		
	MW-11A	Oct-20		1180	**8020**	0.454	20.2	5080	**2720**	**20200**	<0.0500		
	MW-11A	Apr-21		1130	**8110**	0.794	20.6	5040	**3180**	**16200**	1.10		
	MW-11A	Sep-21		1230	**8880**	0.114 J	22.2	5180	**3290**	**18600**	<0.0500		
	MW-11B	Apr-15		1070	**6000**	0.562	36.6	4040	**3860**	**12700**	<0.0200		
	MW-11B	Apr-17		979	**6050**	0.825	35.2	3660	**2890**	**14000**	<0.197		
	MW-11B	Apr-19		935	**6410**	0.899	32.2	3410	**3340**	**11600**	<0.197		
	MW-11B	Apr-21		966	**6020**	0.829	34.1	3850	**3110**	**12800**	<0.0500		

Appendix B, Table B.5 - Summary of Groundwater Analytical Data - Water Quality and Cyanide

2021 Annual Groundwater Monitoring Report

HollyFrontier NavaJo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	Water Quality Parameters								Cyanide
				Analyte	Calcium	Chloride	Fluoride	Potassium	Sodium	Sulfate	TDS	Nitrate/Nitrite	Cyanide
				CAS	7440-70-2	16887-00-6	16984-48-8	7440-09-7	7440-23-5	14808-79-8	TDS	NO3NO2	57-12-5
				Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL		250	1.60			600	1000	10.0	0.200
				CGWSL Source		WQCC Dom	WQCC HH			WQCC Dom	WQCC Dom	WQCC HH	WQCC HH
Area	Well ID	Date	Dup										
Evaporation Ponds	MW-15	Apr-18		477	**1040**	**1.70** J5	5.35	657	**1720**	**3580**	0.758	
	MW-15	Apr-19		614	**1670**	1.44	5.73	667	**2770**	**4720**	1.58	
	MW-15	Jun-20		480	**1200**	0.610	5.52	563	**1440**	**3830**	<0.0500	
	MW-15	Apr-21		581	**1220**	1.39	5.39	738	**1660**	**3490**	5.18	
	MW-18A	Apr-19		756	**6360**	**1.85**	46.1	3870	**6740**	**17800**	<0.0197	<0.00180
	MW-18A	Oct-19		619	**5490**	**3.14**	40.1	3670	**5780**	**16000** J3	<0.0197	<0.00180
	MW-18A	Jun-20		574	**5140**	**2.52**	33.6 O1	3030 O1V	**5780**	**15500**	<0.0500	<0.00180
	MW-18A	Oct-20		616	**4600**	**2.72**	39.3	3380	**4820**	**16800**	<0.0500	<0.00180
	MW-18A	Apr-21		661	**5540**	**2.60**	39.9	3700	**5570**	**15600**	<0.0500	<0.00180
	MW-18A	Sep-21		696	**5350**	**2.30**	38.0	3880	**5780**	**16500**	<0.0500	<0.00180
	MW-18B	Apr-15		581	**763**	0.931	5.91	460	**1840**	**4410**	0.0280 J	
	MW-18B	Apr-17		576	**860**	0.797	5.91	481	**2070**	**4080**	<0.0197	
	MW-18B	Apr-19		807	**919**	0.727	8.43	506	**2030**	**4690**	<0.0197	
	MW-18B	Apr-21		612	**821**	0.802	6.66	534	**1790**	**4350**	<0.0500	
	MW-22A	Apr-19		426	**1650**	0.761	3.58	1330	**2300**	**5940**	0.0230 J	
	MW-22A	Apr-19	FD	431	**1700**	0.739	3.38	1190	**2230**	**6040**	<0.0197	
	MW-22A	Oct-19		969	**5760**	0.681	6.27	3060	**3450**	**13300**	0.418	
	MW-22A	Oct-19	FD	990	**5660**	0.293	6.42	2970	**3520**	**13100**	0.414	
	MW-22A	Jun-20		575	**4500**	0.900	4.36	2610	**3310**	**11900**	0.0816 JB	
	MW-22A	Jun-20	FD	566	**4450**	1.02	4.20	2270	**3330**	**11300** J4	<0.0500	
	MW-22A	Oct-20		458	**2770**	0.821	3.75	1920	**2450**	**7820**	0.0711 J	
	MW-22A	Oct-20	FD	453	**2290**	0.795	3.71 B	2240	**2060**	**8210**	<0.0500	
	MW-22A	Apr-21		383	**1490**	0.682	3.08	1280	**1750**	**4840**	<0.0500	
	MW-22A	Apr-21	FD	399	**1550**	0.712	3.14 J	1370	**1910**	**4940**	<0.0500	
	MW-22A	Sep-21		947	**12200**	0.447	8.27	7360	**6680**	**29300**	1.76	
	MW-22A	Sep-21	FD	976	**12600**	0.542	8.60	7080	**7100**	**28400**	1.71	
	MW-22B	Apr-15		477	**1400**	0.823	4.02 J	1150	**2170**	**5590**	<0.0200	
	MW-22B	Apr-17		396	**1400**	0.771	4.15	1150	**2080**	**5670**	0.408 J	
	MW-22B	Apr-19		414	**1300**	0.818	4.30	985	**2170**	**5480**	<0.197	
	MW-22B	Apr-21		420	**1190**	0.677	3.99	1080	**1830**	**4760**	<0.0500	
	MW-70	Apr-19		843	**1280**	0.623	5.99	760	**2320**	**5770**	<0.0197	
	MW-70	Oct-19										
	MW-70	Jun-20		764	**1400**	0.577	5.22	764	**2510**	**5360** J3	<0.0500	
	MW-70	Oct-20										
	MW-70	Apr-21		740	**1200**	0.595	5.52	832	**2060**	**5790**	<0.0500	
	MW-70	Sep-21										
	MW-72	Apr-18		707	**3540**	**5.82**	8.82	2490	**3010**	**8800**	2.99	
	MW-72	Apr-19		645	**2880**	**5.61**	7.71	1850	**2740**	**8500**	2.67	
	MW-72	Jun-20		627	**2830**	**5.71**	6.56	1730	**2810**	**8060**	0.645	
	MW-72	Apr-21		651	**2490**	**5.61**	6.98	1740	**2360**	**5940**	4.22	
	MW-73	Apr-18		589	**2350**	**1.95**	2.48	2490	**4020**	**8360**	0.348	
	MW-73	Apr-19		600	**2590**	**2.95**	2.60	2330	**3350**	**9180**	4.66	
	MW-73	Jun-20		561	**2540**	**1.67**	2.29	2410	**3990**	**8860**	<0.0500	
	MW-73	Apr-21		609	**3100**	**1.83**	2.46	2590	**4570**	**9400**	0.371	
	MW-74	Apr-19		582	**1400**	**8.15**	36.9	2250	**4650**	**9760**	**52.2**	
	MW-74	Oct-19		542	**1490**	**7.85**	33.4	1990	**3390**	**5720**	<0.0197	
	MW-74	Jun-20		507	**1540**	**7.75**	32.7	2260	**4190**	**7180**	**48.4**	
	MW-74	Oct-20		554	**1800**	**8.34**	35.8	2000	**3610**	**8370**	7.45	
	MW-74	Apr-21		562	**1850**	**7.50**	30.5	2120	**3400**	**6560**	4.80	
	MW-74	Sep-21		607	**1780**	**6.32**	29.6	2100	**3190**	**8640**	<0.0500	
	MW-75	Apr-19		348	**1410**	**7.71**	17.4	1420	**2010**	**5790**	1.56	
	MW-75	Oct-19		362	**1360**	**6.63**	15.9	1320	**1940**	**5320**	<0.0197	
	MW-75	Jun-20		366	**1470**	**7.22**	16.6	1340	**2080**	**6110**	<0.0500	
	MW-75	Oct-20		362	**1520**	**7.66**	17.9	1470	**2010**	**5680**	<0.0500	
	MW-75	Apr-21		370	**1350**	**6.71**	17.6	1370	**1770**	**4730**	2.16	
	MW-75	Sep-21		381	**1400**	**7.43**	18.2	1460	**1910**	**5720**	<0.0500	
	MW-76	Apr-19		439	**1090**	**3.02**	24.9	955	**2210**	**5620**	<0.0197	
	MW-76	Oct-19		483	**1150**	**3.03**	28.8	991	**2220**	**5270**	<0.0197	
	MW-76	Jun-20		454	**1150**	**2.89**	26.2	975	**2270**	**5620**	<0.0500	
	MW-76	Oct-20		426	**1220**	**3.14**	25.7	975	**2090**	**5330**	<0.0500	
	MW-76	Apr-21		425	**1090**	**3.00**	25.3	914	**1800**	**4300**	<0.0500	
	MW-76	Sep-21		490	**1130**	**2.94**	26.4	940	**1940**	**5420**	<0.0500	
	MW-77	Apr-18		521	**310**	**2.56**	68.8	1240	**3770**	**7230**	0.109	
	MW-77	Apr-19		491	**335**	**3.20**	66.0	1230	**4370**	**7850**	<0.0197	
	MW-77	Jun-20		488	**428**	**2.53**	64.2	1070	**3950**	**7430**	<0.0500	
	MW-77	Apr-21		495	**514**	**3.61**	65.9	1060	**3200**	**5240**	<0.0500	
	MW-78	Apr-18		331	239	**15.3**	19.2	393	**1800**	**3730**	2.70	
	MW-78	Apr-19		343	20.4	**17.2**	13.4	81.7	**1580**	**3150**	5.82	
	MW-78	Jun-20		584	51.7	**13.9**	16.6	184	**2580**	**4460**	<0.0500	
	MW-78	Apr-21		319	**317**	**14.8**	17.8	365	**1410**	**3480**	8.33	
	MW-79	Apr-19		636	**1940**	**7.01**	7.82	1250	**2470**	**6510**	2.08	
	MW-79	Oct-19		818	**2410**	**4.70**	7.08	1160	**2320**	**7470**	<0.0197	
	MW-79	Jun-20		768	**2150**	**5.09**	6.82	1160	**2540**	**7550**	<0.0500	
	MW-79	Oct-20		726	**2180**	**5.58**	7.03	1200	**2600**	**6470**	<0.0500	
	MW-79	Apr-21		647	**1700**	**5.90**	6.84	1110	**2120**	**5550**	2.35	
	MW-79	Sep-21		615	**1500**	**5.24**	5.86	1180	**2070**	**6100**	0.708	
	MW-80	Apr-18		506	**1190**	**2.97**	7.13	1110	**2310**	**5180** J3	0.461	
	MW-80	Apr-19		559	**1180**	**3.03**	2.72	768	**2260**	**5120**	0.355	
	MW-80	Jun-20		620	**1210**	**2.19**	2.99	680	**1980**	**4990**	<0.0500	
	MW-80	Apr-21		592	**980**	**2.46**	2.77	684	**1750**	**3780**	2.02	
	MW-81	Apr-18		542	**1270**	**6.69**	17.9	1170	**2340**	**5600**	**19.8**	
	MW-81	Apr-19		527 O1V	**1210**	**6.81**	7.33	969 V	**2190**	**5740**	**14.7**	
	MW-81	Jun-20		441	**1050**	**5.73**	5.49	908	**1990**	**4750**	3.54	
	MW-81	Apr-21		456	**987**	**6.61**	6.52	962 V	**1840**	**4940**	1.65	
	MW-82	Apr-18		391	**1420**	**11.4**	9.36	1510	**2350**	**5460**	0.734	
	MW-82	Apr-19		395	**1360**	**11.4**	8.60	1300	**2250**	**5730**	3.50	
	MW-82	Jun-20		422	**1430**	**9.31** J	8.75	1150	**2180**	**5560**	<0.0500	
	MW-82	Apr-21		520	**1410**	**8.40**	9.31	1080	**1870**	**5810**	1.40	
	MW-83	Apr-19		555	69.9	**2.81**	56.3	236	**6770**	**6470**	3.70	
	MW-83	Oct-19		536	**354**	**4.14**	64.3	370	**4520**	**7520**	<0.0197	
	MW-83	Jun-20		544	**314**	**4.63**	48.9	319	**4190**	**6810**	1.31	
	MW-83	Oct-20		349	**957**	**4.48**	31.8	659	**2380**	**5040**	<0.0500	
	MW-83	Apr-21		324	**992**	**3.94**	18.5	810	**1270**	**3430**	8.03	
	MW-83	Sep-21		552	126	**5.11**	94.1	220	**4840**	**8160**	**21.4**	
	MW-84	Apr-19		616	**1650**	**4.26**	7.12	1540	**3990**	**9140**	0.308	
	MW-84	Oct-19		594	**1730**	**5.44**	6.51	1450	**4200**	**9080**	<0.0197	
	MW-84	Jun-20		568	**1480**	**6.24**	7.06	1400	**4710**	**9700**	<0.0500	
	MW-84	Oct-20		579	**1670**	**6.29**	6.23	1350	**4910**	**10800**	<0.0500	
	MW-84	Apr-21		592	**1320**	**5.81**	6.44	1370	**3930**	**9040**	<0.0500	
	MW-84	Sep-21		602	**1360**	**5.54**	8.18	1660	**5100**	**10600**	<0.0500	
	MW-86	Jun-20		544	**555**	**8.20**	8.40	806	**4170**	**8130**	<1.00	<0.0900
	MW-86	Oct-20		535	**671**	**6.03**	6.70	947	**3100**	**7830**	<0.0500	0.00261 J

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Appendix B, Table B.5 - Summary of Groundwater Analytical Data - Water Quality and Cyanide

2021 Annual Groundwater Monitoring Report

HollyFontier NavaJo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	Water Quality Parameters								Cyanide
				Analyte	Calcium	Chloride	Fluoride	Potassium	Sodium	Sulfate	TDS	Nitrate/Nitrite	Cyanide
				CAS	7440-70-2	16887-00-6	16984-48-8	7440-09-7	7440-23-5	14808-79-8	TDS	NO3NO2	57-12-5
				Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL		250	1.60			600	1000	10.0	0.200
				CGWSL Source		WQCC Dom	WQCC HH			WQCC Dom	WQCC Dom	WQCC HH	WQCC HH
Area	**Well ID**	**Date**	**Dup**										
Evaporation Ponds	MW-87	Apr-19		723	**4460**	1.13	24.7	2800	**5150**	**13700**	<0.0197	
	MW-87	Oct-19										
	MW-87	Jun-20		596	**4070**	1.41	20.7	2690	**4840**	**12500**	<0.0500	
	MW-87	Oct-20										
	MW-87	Apr-21		649	**3420**	1.32	22.1	2640	**3780**	**13500**	<0.0500	
	MW-87	Sep-21										
	MW-88	Apr-19		426	**1740**	1.36	3.28	1280	**2700**	**6650**	<0.0197	
	MW-88	Oct-19										
	MW-88	Jun-20		406	**1510**	0.951	2.83	997	**2040**	**5240**	<0.0500	
	MW-88	Oct-20										
	MW-88	Apr-21		428	**1640**	1.16	3.22	1290	**2340**	**6300**	<0.0500	
	MW-88	Sep-21										
	MW-120	Apr-19		571	**2220**	**2.91**	2.92	1500	**4500**	**6610**	0.150	
	MW-120	Oct-19		562	**1390**	**4.02**	2.70	1210	**2830**	**4680** J3	<0.0197	
	MW-120	Jun-20		455	**1260**	**2.90**	2.23	992	**2530**	**5500**	<0.0500	
	MW-120	Oct-20		608	**1540**	**3.81**	2.67	1200	**2870**	**7000**	<0.0500	
	MW-120	Apr-21		592	**1410**	**3.64**	2.28	1080	**2850**	**5450**	<0.0500	
	MW-120	Sep-21		607	**1330**	**3.75**	2.23	1300	**3010**	**7220**	0.276	
	MW-121	Apr-19		616	**963**	**4.45**	3.14	696	**2530**	**5490**	0.497	
	MW-121	Oct-19		554	**770**	**5.48**	3.41	637	**2530**	**5090**	1.11	
	MW-121	Jun-20		560	**752**	**5.05**	2.71	613	**2790**	**4890**	0.0855 J	
	MW-121	Oct-20		595	**690**	**4.87**	3.34	665	**2400**	**5180**	<0.0500	
	MW-121	Apr-21		657	**1070**	**4.52**	3.31	636	**2300**	**4360** J3	0.0576 J	
	MW-121	Sep-21		671	**987**	**4.75**	3.06	617	**2290**	**5430**	0.638	
	MW-122	Apr-19		413	**1110**	**2.74**	3.91	866	**2040**	**4750**	0.0650 J	
	MW-122	Oct-19		340	**719**	**2.10**	3.54	617	**1260**	**3660**	0.0270 J	
	MW-122	Jun-20		413	**1470**	**2.58**	4.03	1080	**2450**	**6070**	<0.0500	
	MW-122	Oct-20		353	**940**	**2.54**	3.78	737	**1590**	**4220**	<0.0500	
	MW-122	Apr-21		357	**895**	**2.61**	3.60	750	**1600**	**3300**	0.0894 J	
	MW-122	Sep-21		395	**1450**	**1.74**	3.32	673	**2250**	**4240**	<0.0500	
	MW-123	Apr-19		501	**1420**	1.16	3.63	961	**2180**	**5600**	<0.0197	
	MW-123	Oct-19		690	**2030**	1.17	4.26	1190	**2250**	**6720**	<0.0197	
	MW-123	Jun-20		513	**1420**	1.04	3.54	984	**2140**	**5380**	<0.0500	
	MW-123	Oct-20		524	**1390**	1.07	3.55	1100	**1920**	**5460**	<0.0500	
	MW-123	Apr-21		519	**1270**	0.938	3.54	970	**1780**	**3770**	<0.0500	
	MW-123	Sep-21		554	**1350**	0.968	3.16	981	**1820**	**5540**	<0.0500	
	MW-124	Apr-19		867	**3120**	0.884	6.86	1730	**3560**	**11200**	<0.0197	
	MW-124	Oct-19		753	**3140**	1.12	6.86	1630	**3500**	**9980**	<0.0197	
	MW-124	Jun-20		785	**3510**	1.01	6.50 J	1700	**4500**	**7780**	<0.0500	
	MW-124	Oct-20		758	**2490**	1.03	6.57	1840	**3030**	**9940**	<0.0500	
	MW-124	Apr-21		792	**3080**	0.949	6.88	1750	**3580**	**10500**	0.0985 J	
	MW-124	Sep-21		799	**3280**	0.817	7.25	1740	**3890**	**10600**	<0.0500	
	OCD-1R	Apr-19		403	**1230**	**3.09**	3.03	977	**2250**	**5000**	0.485	
	OCD-1R	Oct-19		600	**1820**	**2.93**	4.13	1660	**3670**	**7760**	0.243	
	OCD-1R	Jun-20		599	**1640**	**2.60**	3.82	986	**2350**	**5850**	0.0815 JB	
	OCD-1R	Oct-20		500	**1070**	**2.78**	3.50	1070	**2020**	**5560**	0.0603 J	
	OCD-1R	Apr-21		474	**1010**	**2.77**	2.92	834	**1800**	**4340**	0.335	
	OCD-1R	Sep-21		547	**1740**	**2.54**	3.15	1480	**4480**	**7020**	<0.0500	
	OCD-2A	Apr-19		573	**1300** V	0.874	4.73	758	**2290** V	**5440**	0.185	
	OCD-2A	Oct-19										
	OCD-2A	Jun-20		609	**1290**	0.853	4.93	755	**2240**	**5020**	<0.0500	
	OCD-2A	Oct-20										
	OCD-2A	Apr-21		592	**1150**	0.706	5.28	656	**1690**	**4070**	0.672	
	OCD-2A	Sep-21										
	OCD-3	Apr-19		347	**907**	1.15	8.85	688	**1610**	**3850**	0.0700 J	
	OCD-3	Oct-19										
	OCD-3	Jun-20		375	**585**	1.10	7.17	446	**1580**	**3150**	0.0713 JB	
	OCD-3	Oct-20										
	OCD-3	Apr-21		398	**573**	0.887	7.28	447	**1480**	**2950**	0.149	
	OCD-3	Sep-21										
	OCD-4	Apr-19		818	**4400**	0.820	32.4	5380	**3240**	**11300**	0.0360 JJ6	
	OCD-4	Oct-19										
	OCD-4	Jun-20		840	**5000**	0.990	33.5	2580	**3300**	**12700**	<0.0500	
	OCD-4	Oct-20										
	OCD-4	Apr-21		858	**4670**	0.815	36.1	2980	**3100**	**11600**	0.0991 J	
	OCD-4	Sep-21										
	OCD-5	Apr-19		843	**4840**	0.790	38.9	2580	**3300**	**12400**	<0.0197	
	OCD-5	Oct-19		843	**5240**	0.628	35.7	3010	**3080**	**11900**	<0.0197	
	OCD-5	Jun-20		824	**4770**	0.950	37.3	2660	**3490**	**10700** J4	<0.0500	
	OCD-5	Oct-20		850	**4120**	0.702	35.8	3010	**2690**	**12100**	<0.0500	
	OCD-5	Apr-21		851	**4420**	0.837	41.2	2980	**3030**	**11500**	<0.0500	
	OCD-5	Sep-21		898	**5170**	0.745	36.0	3550	**3300**	**13100**	<0.0500	
	OCD-6	Apr-19		931	**4710**	**2.26**	17.0	2820	**2760**	**11400**	0.837	
	OCD-6	Oct-19		754	**3180**	**2.84**	11.3	2050	**2950**	**9760**	0.0320 J	
	OCD-6	Jun-20		918	**4880**	**2.04**	15.0	2710	**3160**	**10800**	<0.0500	
	OCD-6	Oct-20		922	**4850**	**2.27**	15.8	2720	**2870**	**11400**	<0.0500	
	OCD-6	Apr-21		925	**4320**	**2.19**	15.6	2770	**2650**	**7740**	3.58	
	OCD-6	Sep-21		979	**4590**	**2.06**	15.8	2910	**2720**	**12000**	<0.0500	
	OCD-7AR	Apr-19		662	**2700**	**2.30**	6.31	2600	**3950**	**10300**	0.711	
	OCD-7AR	Oct-19		602	**2680**	**2.80**	6.22	2420	**3640**	**10200**	<0.0197	
	OCD-7AR	Jun-20		619	**2990**	**2.13**	6.10	2520	**3990**	**9740**	<0.0500	
	OCD-7AR	Oct-20		643	**2680**	**2.75**	6.37	2590	**3640**	**10800**	<0.0500	
	OCD-7AR	Apr-21		635	**2660**	**2.99**	6.42	2530	**3780**	**9800**	1.95	
	OCD-7AR	Sep-21		639	**2650**	**2.70**	5.57	2650	**3700**	**10600**	<0.0500	
	OCD-7B	Apr-15		641	**910**	0.852	11.9	685	**2580**	**4520**	<0.0200	
	OCD-7B	Apr-17		564	**960**	1.05	11.0	629	**2100**	**4540**	<0.0197	
	OCD-7B	Apr-19		590	**874**	0.839	11.7	678	**2260**	**4760**	<0.0197	
	OCD-7B	Apr-21		590	**822**	0.950	11.6	680	**2170**	**4100**	<0.0500	
	OCD-8A	Apr-19		683	**2690**	**2.47**	8.77	2200	**3800**	**10500**	<0.0197	<0.00180
	OCD-8A	Oct-19		1010	**12000**	**2.02**	17.4	6590	**6010**	**29600**	0.275	<0.00180
	OCD-8A	Jun-20		665	**5120**	**2.01**	8.85	3440	**4510**	**12600**	<0.0500	<0.00180
	OCD-8A	Oct-20		758	**5270**	**2.36**	10.8	3710	**4260**	**15600**	<0.0500	<0.00180
	OCD-8A	Apr-21		729	**4880**	**2.20**	9.88	3090	**4270**	**13700**	<0.0500	<0.00180
	OCD-8A	Sep-21		764	**5560**	**2.40**	11.7	3700	**4730**	**15600**	<0.0500	<0.00180
	OCD-8B	Apr-15		680	**2020**	0.934	9.51	1520	**2910**	**7110**	0.0233 J	
	OCD-8B	Apr-17		660	**2030**	0.925	9.07	1800	**2620**	**7390**	0.0320 J	
	OCD-8B	Apr-19		715 V	**3230**	0.774	9.61	1490 V	**4950**	**7690**	<0.0197	
	OCD-8B	Apr-21		691	**2200**	0.744	9.76	1500	**2440**	**7480**	<0.0500	
Field East of Refinery	KWB-1A	Apr-19		538	**319**	1.26	1.20	291	**2580**	**4580**	0.446	<0.00180
	KWB-1A	Oct-19		466	**332**	1.46	0.954 J	258	**2660**	**4240**	0.101	<0.00180
	KWB-1A	Jun-20		465	**271**	1.33	0.854 J	234	**2600**	**4490**	0.142	<0.00180
	KWB-1A	Oct-20		476	**266**	1.33	0.994 JB	245	**2430**	**4320**	0.0862 J	<0.00180
	KWB-1C	Apr-15		619	**1160**	**25.3**	1.23	210	**2920**	**5340**	0.180	
	KWB-1C	Apr-17		560	**508**	1.25	1.36	267	**2860**	**5000**	0.0350 JP1	
	KWB-1C	Apr-19		533	**317**	1.16	1.39	274	**2550**	**4680**	0.629	
	KWB-1C	Apr-21		488	**275**	1.15	1.24 J	249	**2580**	**4490**	0.0807 J	

Appendix B, Table B.5 - Summary of Groundwater Analytical Data - Water Quality and Cyanide

2021 Annual Groundwater Monitoring Report

HollyFrontier NavaJo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	Water Quality Parameters								Cyanide
				Analyte	Calcium	Chloride	Fluoride	Potassium	Sodium	Sulfate	TDS	Nitrate/Nitrite	Cyanide
				CAS	7440-70-2	16887-00-6	16984-48-8	7440-09-7	7440-23-5	14808-79-8	TDS	NO3NO2	57-12-5
				Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL		250	1.60			600	1000	10.0	0.200
				CGWSL Source		WQCC Dom	WQCC HH			WQCC Dom	WQCC Dom	WQCC HH	WQCC HH
Area	**Well ID**	**Date**	**Dup**										
Field East of Refinery	KWB-7	Jun-20		330	**458**	0.915	<0.534	275	**834**	**2810**	<0.0500	<0.00180	
	KWB-7	Oct-20		371	**330**	0.794	<2.67	263	**1260**	**3180**	0.0590 J	<0.00180 J6	
	KWB-7	Apr-21		251	**369**	0.710	0.376 J	269	349	**2000**	0.109	<0.0450	
	KWB-7	Sep-21		371	**348**	0.736	0.288 J	231	**1340**	**3020**	<0.250	<0.0180	
	KWB-8	Oct-16		251	**579**	0.467	0.351 J	443	**701**	**3120**	0.0380 JB	<0.00900	
	KWB-8	Apr-17		237	**574**	0.623	0.414 J	320	442	**2400**	0.0510 J	<0.00180	
	KWB-8	Oct-17		273	**913**	0.467	0.411 J	462	417	**3270**	<0.985	<0.00180	
	KWB-8	Oct-20		301	**398**	0.694	<0.534	546	**1660**	**4440**	<1.00	<0.0180	
	KWB-10R	Apr-17		134	230	1.57	0.521 J	131	0.475 J	**1130**	<0.0197		
	KWB-10R	Oct-17		138	186	1.39	0.453 J	123	3.08 J	**1080**	0.440		
	KWB-10R	Apr-18		138	183	1.35	0.430 J	122	<0.0774	**1060**	0.0250 J		
	KWB-10R	Oct-18		130	188	1.33	0.836 JB	110	<0.0774	**1040**	<0.0197		
	KWB-11A	Apr-19		453	**744**	0.626	0.831 J	308	**1100**	**3380**	0.679	<0.00180	
	KWB-11A	Jun-20		408	**676**	0.753	0.800 J	319	**1180**	**3180**	0.0536 J	<0.00180	
	KWB-11A	Oct-20		396	**541**	0.652	0.676 J	306	**1090**	**2930**	0.414	<0.00180	
	KWB-11A	Sep-21		385	**501**	0.822	0.676 J	270	**1110**	**3080**	<0.0500	<0.00180	
	KWB-11B	Apr-19		516	**342**	0.359	2.19	87.2	**1500**	**2560**	3.31	<0.00180	
	KWB-11B	Oct-19		498	**329**	0.447 J	2.25	87.0	**1540**	**2620**	2.69	<0.00180 J6	
	KWB-11B	Jun-20		515	**369**	0.453	2.24	97.1	**1710**	**2880**	3.34	<0.00180	
	KWB-11B	Oct-20		509	**365**	0.395	<2.67	100	**1380**	**3130**	3.03	<0.00180	
	KWB-11B	Apr-21		519	**313**	0.365	2.24	95.6	**1360**	**2810**	2.93	<0.00180	
	KWB-11B	Sep-21		495	**367**	0.371	2.28	98.2	**1390**	**3000**	2.61	<0.00180 J6	
	KWB-12A	Oct-19		480	111	0.597	0.614 JB	122	**2210**	**3270**	8.01	<0.00180	
	KWB-12A	Jun-20		519	115	0.587	1.46 J	135	**2270**	**3490**	7.15	<0.00180	
	KWB-12A	Oct-20		541	129	0.537	1.07 JB	133	**2020**	**3520**	6.85	<0.00180	
	KWB-12A	Sep-21		544	195 B	0.623	1.07 J	185	**2090**	**3960**	**10.6 V**	<0.00180	
	KWB-12B	Apr-19		606	111	0.327	0.752 J	151	**2140**	**3600**	7.48	<0.00180	
	KWB-12B	Apr-19	FD	549	110	0.328	0.723 J	134	**2080**	**3580**	7.81	<0.00180	
	KWB-12B	Oct-19		527	114	0.425	0.575 JB	129	**2230**	**3830 J3**	7.10	<0.00180	
	KWB-12B	Oct-19	FD	533	113	0.417	0.621 J	134	**2280**	**3620**	7.15	<0.00180	
	KWB-12B	Jun-20		537	120	0.441	0.673 J	130	**2460**	**3790**	**11.5**	<0.00180	
	KWB-12B	Jun-20	FD	525	114	0.343	0.742 J	126	**2210**	**3600**	8.27	<0.00180	
	KWB-12B	Oct-20		578	130	0.386	0.656 JB	141	**2210**	**3820**	6.35	0.00596	
	KWB-12B	Oct-20	FD	533	126	0.395	0.642 J	141	**2140**	**3760**	7.25	0.0565	
	KWB-12B	Apr-21		562	136	0.374	0.691 J	140	**2350**	**3890**	7.85	<0.00180	
	KWB-12B	Apr-21	FD	556	121	0.394	0.669 J	143	**2070**	**3900**	8.05	<0.00180	
	KWB-12B	Sep-21		553	204 B	0.419	0.653 J	172	**2050**	**4020**	**13.8**	0.00210 J	
	KWB-12B	Sep-21	FD	545	201 B	0.413	0.618 J	165	**2090**	**3970**	**13.2**	<0.00180	
	KWB-P4	Apr-15											
	KWB-P4	Apr-17											
	KWB-P4	Apr-19											
	KWB-P4	Apr-21											
	MW-57	Apr-19		590	152	1.58	3.30	259	**1700**	**3160**	4.05		
	MW-57	Oct-19		638	**482**	**2.91**	2.35	429	**3160**	**5720**	**12.7**		
	MW-57	Jun-20		568	131	**2.63**	1.21 J	388	**3190**	**4840**	**13.8**		
	MW-57	Oct-20		529	135	**1.99**	2.97	287	**2140**	**4040**	4.83		
	MW-57	Apr-21		460	210	**1.88**	1.50 J	265	**1910**	**3730**	7.90		
	MW-57	Sep-21		652	**496**	**3.42**	3.11	455	**3310**	**3170**	**34.2**		
	MW-58	Oct-17		235	249	1.26	0.553 J	116	13.1	**1340**	<0.0197	<0.00180	
	MW-58	Apr-18		215	207	1.37	0.290 J	98.5	2.59 J	**1250**	<0.0985	<0.00180	
	MW-58	Oct-18		176	151	1.06	1.20	74.3	56.9	**1040**	<0.394	<0.00180 J3J6	
	MW-58	Oct-19		229	**294**	1.33	2.06	70.3	1.49 JB	**1140**	<0.0197	<0.00180	
	MW-111	Oct-18		203	**412**	1.46	0.588 JB	221	331	**1810**	<0.0197		
	MW-111	Apr-19		340	**375**	0.957	1.83	209	322	**2000**	<0.0197		
	MW-111	Oct-19		212	**429**	1.38	0.214 J	239	317	**2070**	<0.0197		
	MW-111	Jun-20		251	**409**	1.08	1.11 J	206	372	**1970**	<0.0500		
	MW-112	Nov-14		190	230	1.00	0.310 J	190	5.40	**1200**	<0.0200		
	MW-113	Apr-19		332	172	0.451	0.746 J	163	**997**	**2440**	<0.0197 J6		
	MW-113	Apr-19	FD	329 V	178	0.449	0.633 J	160 V	**1020**	**2070**	<0.0197		
	MW-113	Oct-19		299	211	0.593	0.377 JB	164	**1180**	**2050**	<0.0197		
	MW-113	Oct-19	FD	306	198	0.611	0.419 J	162	**971**	**2380**	<0.0197 J6		
	MW-113	Jun-20		317	192	0.519	0.598 J	159	**1210**	**2440**	<0.0500		
	MW-113	Jun-20	FD	313	184	0.605 J	<0.534	152	**958**	**2460**	<0.0500		
	MW-113	Oct-20		274	177	0.527	<0.534	158	**773**	**2200**	0.199		
	MW-113	Oct-20	FD	280	185	0.536	<2.67	177	**786**	**2210**	0.128		
	MW-113	Apr-21		331	169 B	0.480	0.602 J	170	**956**	**2480**	0.121		
	MW-113	Apr-21	FD	318	185	0.554	0.519 J	155	**1130**	**2480**	<0.0500		
	MW-113	Sep-21		202	**348**	0.539	0.385 J	208	55.2	**1710**	<0.0500		
	MW-113	Sep-21	FD	200	**317 B**	0.537	0.390 J	208	61.0	**1720**	<0.500		
	MW-125	Apr-19		549	**322**	1.25	1.23	206	**2860**	**4290**	0.457		
	MW-125	Oct-19		517	**304**	1.20	1.30	216	**3040**	**4480**	0.788 J5		
	MW-125	Jun-20		543	**330**	1.19	1.41 J	221	**2950**	**4500**	0.212 J5		
	MW-125	Oct-20		541	**271**	1.10	1.42 JB	221	**2270**	**4350**	0.0919 J		
	MW-125	Apr-21		549	**261 B**	0.983	1.36 J	224	**2300**	**4440**	0.155		
	MW-125	Sep-21		519	**271 B**	1.06	1.32 J	213	**2210**	**4370**	0.0618 J		
	MW-126A	Apr-19		382	191	0.757	0.547 JB	138	**1350**	**2540**	<0.0197		
	MW-126A	Oct-19		325	136	0.937	0.670 J	152	**1330**	**2330**	<0.0197 J5		
	MW-126A	Jun-20		357	198	0.869	<0.534	152	**1590**	**2680**	<0.0500		
	MW-126A	Oct-20		396	210	0.706	<0.534	189	**1510**	**3150**	<0.0500		
	MW-126B	Apr-19		590	**263**	0.629	2.80	219	**2060**	**3430**	0.381		
	MW-126B	Oct-19		545	**273**	0.779	2.31	198 V	**2250**	**4180**	0.364		
	MW-126B	Jun-20		539	**272**	0.784	2.27	210	**2440**	**4010**	0.414		
	MW-126B	Oct-20		562	**256**	0.705	2.36	195	**2140**	**3990**	0.429		
	MW-126B	Apr-21		552	243	0.739	2.31	202	**2210**	**4080**	0.509		
	MW-126B	Sep-21		539	249 B	0.712	2.28	198	**2010**	**4020**	0.399		
	MW-127	Oct-17		262	231	0.993	1.46	142	**776**	**1970**	0.146		
	MW-127	Apr-18		245	225	0.997	0.279 J	148	**677**	**2010**	<0.0985		
	MW-127	Oct-18		240	219	0.979	1.29 JB	135	**670**	**1940**	<0.0197		
	MW-127	Apr-19		267	208	0.855	0.438 JB	163	**612**	**1990**	<0.0197		
	MW-128	Oct-17		186	200	1.29	0.354 JB	107	248	**1370**	<0.0197		
	MW-128	Apr-18		181	175	1.23	0.764 J	115	207	**1280**	<0.0197		
	MW-128	Oct-18		161 V	170	1.13	0.412 J	97.3 O1V	147	**1650**	0.0230 JJ6		
	MW-128	Apr-19		181	173	1.06	0.725 J	115	126	**1300**	<0.0197		
	MW-129	Apr-16		170	**300**	1.10	0.331 J	210	44.1	**1520**	<0.197		
	MW-129	Oct-16		162	**293**	1.13	0.270 J	198	44.1	**1340**	0.0770 JB		
	MW-129	Apr-17		163	**300**	1.02	0.334 J	199	44.1	**1250**	<0.197 J5		
	MW-129	Apr-18		162	**282**	1.04	0.251 J	201	52.6	**1270**	<0.0197		
	MW-130	Apr-19		269	228	**1.81**	0.712 J	289	**940**	**2470 J4**	1.81		
	MW-130	Oct-19		250	243	0.913	0.789 J	275	**1000**	**2170**	0.777		
	MW-130	Jun-20		247	208	0.828	0.656 J	285	**972**	**2390**	0.861		
	MW-130	Oct-20		242	188	0.758	0.648 JB	285	**882**	**2430**	0.959		
	MW-130	Apr-21		423	156 B	0.718	4.08	302	**874**	**2490**	1.24		
	MW-130	Sep-21		278	136	0.710	1.44 J	271	**877**	**2350**	0.813		

Appendix B, Table B.5 - Summary of Groundwater Analytical Data - Water Quality and Cyanide

2021 Annual Groundwater Monitoring Report

HollyFontier NavaJo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	Water Quality Parameters								Cyanide
				Analyte	Calcium	Chloride	Fluoride	Potassium	Sodium	Sulfate	TDS	Nitrate/Nitrite	Cyanide
				CAS	7440-70-2	16887-00-6	16984-48-8	7440-09-7	7440-23-5	14808-79-8	TDS	NO3NO2	57-12-5
				Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL		250	1.60			600	1000	10.0	0.200
				CGWSL Source		WQCC Dom	WQCC HH			WQCC Dom	WQCC Dom	WQCC HH	WQCC HH
Area	**Well ID**	**Date**	**Dup**										
Field East of Refinery	MW-131	Apr-17		151	**285**	0.773	0.275 J	153	10.3	**1230**	<0.197		
	MW-131	Oct-17		149	**284**	0.807	0.200 J	149	15.5	**1290**	<0.0197		
	MW-131	Oct-19		145	**288**	0.845	0.251 J	150	19.7	**1210**	<0.0197		
	MW-131	Jun-20		153	**283**	0.865	<0.534	163	24.7	**1270**	<0.0500		
	MW-133	Nov-14		200	170	1.10	0.460 J	140	140	**1300**	<0.0200		
	MW-133	Apr-15		163	174	1.19	0.323 J	122	116	**1190**	<0.200		
	MW-134	Apr-19		582	**417**	1.31	1.89	283	**3060**	**4960**	3.42		
	MW-134	Apr-19	FD	563	**403**	1.31	1.70	263	**2840**	**5250**	3.53		
	MW-134	Oct-19		511	**396**	1.37	1.48	243	**3140**	**4710**	2.67		
	MW-134	Oct-19	FD	542	**398**	1.42	1.54	249	**2780**	**4960**	2.55		
	MW-134	Jun-20		515	**370**	1.16	1.51 J	234 V	**2910**	**4870**	1.73 J5		
	MW-134	Jun-20	FD	516	**363**	1.45 J	1.43 J	239	**2530**	**4960**	<0.0500		
	MW-134	Oct-20		501	**349**	1.01	1.67 JB	243	**2700**	**4950**	1.37		
	MW-134	Oct-20	FD	503	**366**	1.32 J	1.64 J	251	**2530**	**4970**	1.39		
	MW-134	Apr-21		540	**295 B**	0.959	1.77 J	269	**2610**	**4870**	1.17		
	MW-134	Apr-21	FD	513	**335**	1.45 J	1.64 J	241	**2780**	**4820**	1.09		
	MW-134	Sep-21		503	**324**	0.905	1.44 J	248	**2820**	**4900**	5.94		
	MW-134	Sep-21	FD	513	**313 B**	1.06	1.43 J	255	**2620**	**4800**	0.586		
	MW-135	Apr-19		608	**652**	0.954	1.00	667	**2780**	**5780**	**29.5**		
	MW-135	Oct-19		513	**547**	1.20	0.744 JB	542	**2820**	**5240**	**13.4**		
	MW-135	Jun-20		542	**542**	1.14	0.801 J	594	**2940**	**5600**	**16.0**		
	MW-135	Oct-20		538	**504**	1.13	<2.67	621	**2970**	**5460**	**10.9**		
	MW-135	Apr-21		527	**440**	1.16	0.832 J	606	**3070**	**5550**	7.25		
	MW-135	Sep-21		538	**514**	1.24	0.875 J	560	**2960**	**5640**	**11.9**		
	MW-145	Oct-20											
	MW-145	Oct-20	FD										
	MW-145	Apr-21			**334**	1.20			**2560**	**4920**			
	MW-145	Sep-21			**369**	1.11			**2640**	**4910**			
	MW-146	Oct-20											
	MW-146	Apr-21			**294**	1.21			**2840**	**5130**			
	MW-146	Sep-21			**303**	1.17			**2890**	**5060**			
	MW-146	Sep-21	FD		**311**	1.15			**2990**	**5020**			
	MW-147	Oct-20											
	MW-147	Apr-21			**475**	0.791			**2730**	**5340**			
	MW-147	Sep-21			**484**	**1.80**			**3420**	**6460**			
	MW-148	Oct-20											
	MW-148	Apr-21			**255**	1.06			**2110**	**4190**			
	MW-148	Sep-21			**270**	1.07			**1890**	**3660**			
	RA-4196	Apr-19		370	112	0.309	2.34	90.6	**1060**	**1920**	<0.0197		
	RA-4196	Oct-19		363	131	0.299	1.96	89.2	**1250**	**2160**	<0.0197		
	RA-4196	Jun-20		365	126	0.324	2.17	90.1	**1330**	**2290**	<0.0500		
	RA-4196	Oct-20		382	123	0.348	2.36	98.7	**1250**	**2340**	0.842 J6		
	RA-4798	Apr-19		257	60.1	0.355	2.16	46.5	**726**	**1340**	1.02		
	RA-4798	Oct-19		366	130	0.339	1.91	93.8	**1260**	**1950**	1.14		
	RA-4798	Jun-20		449	163	0.321	2.30	117	**1620**	**2820**	1.50		
	RA-4798	Oct-20		356	104	0.358	2.36	87.6	**1080**	**2200**	1.18		
	RA-4798	Apr-21		424	122	0.347	2.45	106	**1410**	**2510**	1.49		
	RA-4798	Sep-21		461	171	0.281	2.29	126	**1660**	**2830**	1.05		
	RW-12R	Apr-17		392	189	0.623	0.293 J	152	**1740**	**2420 J3**	<0.197		
	RW-12R	Apr-18		378	155	0.700	0.220 J	171	**1400**	**2400**	<0.0197		
	RW-12R	Apr-19		369 V	154	0.609	0.408 JB	164 V	**1180**	**2450**	<0.0394		
	RW-12R	Jun-20		337	143	0.716	<0.534	158	**1300**	**2750**	<0.0500		
	RW-13R	Apr-16		202	222	0.691	0.346 J	167	341	**1190**	0.0460 J		
	RW-13R	Apr-18		242	207	0.650	0.378 J	183	525	**1700**	0.0260 JP1		
	RW-18A	Apr-17		504	176	**2.51**	1.09	141	**2870**	**4400**	1.90		
	RW-18A	Apr-18		491	206	**1.82**	0.832 J	132	**2750**	**3940**	0.408		
	RW-18A	Apr-19		549	199	**1.94**	0.832 J	130	**2390**	**3970**	0.286		
	RW-18A	Jun-20		515	211	**2.03**	0.990 J	120	**2490**	**4280**	0.460		
	RW-20	Apr-15		228	**256**	0.530	<0.180	228	125	**1430**	<0.200		
	RW-22	Apr-15		184	**402**	0.860	0.319 J	274	78.4	**1680**	<0.200		
NCL	MW-18	Apr-18		472	154	1.59	3.05	90.2	**1820**	**2580**	**37.9**	<0.00180	
	MW-18	Apr-19		536	86.7	**2.04**	7.60	76.6	**1910**	**3310**	**32.6**	<0.00180	
	MW-18	Jun-20		421	154	**1.61**	1.66 J	58.7	**1510**	**2870**	**18.3**	<0.00180	
	MW-18	Apr-21		393	206	**1.64**	1.56 J	63.7	**1150**	**2170**	9.30	<0.00180	
	MW-45	Apr-19		670	**462**	1.24	7.13	390	**2580**	**4760**	0.0470 JJ6	<0.00180	
	MW-45	Oct-19		588	**441**	**1.73**	5.54	375	**2530**	**4710**	0.0260 J	<0.00180	
	MW-45	Jun-20		574	**413**	1.54	4.80	339	**2490**	**4480**	<0.0500	0.00225 J	
	MW-45	Oct-20		577	**429**	**1.70**	4.70	359	**2350**	**4970**	<0.0500	<0.00180	
	MW-45	Apr-21		603	**372**	**1.97**	4.42	375	**2450**	**3680**	0.0756 J	<0.0180	
	MW-45	Sep-21		548	**334**	1.34	4.12	339	**2110**	**4010**	<0.0500	<0.00180	
	MW-53	Apr-16		459	**346**	1.06	1.42 J	161	**1340**	**2890**	**25.3**		
	MW-53	Apr-17		340	222	0.904	1.12	130	**1330**	**2290**	**15.6**		
	MW-53	Apr-18		315	72.9	1.13	1.12 B	118	**1250**	**1860**	1.58 J6		
	MW-53	Apr-19		259	59.6	1.30	1.17	88.4	**1100**	**1880**	0.290		
	MW-53R	Oct-20		298	66.7	1.11	4.08	69.1	**955**	**1920**	<0.0500		
	MW-53R	Apr-21		312	64.8	1.29	2.37	78.2	**1110**	**1870**	0.132		
	MW-54A	Apr-19		335	185	0.957	0.196 J	54.1	**778**	**1890**	<0.0197		
	MW-54A	Oct-19		356	212	1.03	0.292 JB	61.1	**833**	**2060**	0.154		
	MW-54A	Jun-20		366	198	0.809	<0.534	55.5	**838**	**2030**	<0.0500		
	MW-54A	Oct-20		374	196	0.913	<0.534	60.8	**768**	**1990**	<0.0500 J5		
	MW-54A	Apr-21		414	217	0.969	0.355 J	64.3	**916**	**1940**	0.115		
	MW-54A	Sep-21		410	221	1.03	0.319 J	61.1	**923**	**2300**	<0.0500		
	MW-54B	Apr-15		307	166	0.613	0.767 J	48.0	**752**	**1890 J**	0.0276 J		
	MW-54B	Apr-17		317	127	0.617	1.18	54.5	**1040**	**1840**	0.100 J		
	MW-54B	Apr-19		319	140	0.634	0.811 J	50.5	**818**	**1870**	0.0410 J		
	MW-54B	Apr-21		458	205	0.654	1.47 J	69.9	**1320**	**2290**	0.0845 J		
	MW-55	Apr-19		519	**520**	**1.62**	0.897 J	229	**1930**	**3900**	2.28	<0.00180	
	MW-55	Oct-19		414	**538**	1.58	0.749 J	235	**1610**	**3640**	0.419	<0.00180	
	MW-55	Jun-20		410	**580**	1.55	0.672 J	225	**1540**	**3480**	0.0643 J	<0.00180	
	MW-55	Oct-20		333	**505**	1.30	0.842 JB	228	**949**	**3010**	<0.0500	<0.00180	
	MW-55	Apr-21		293	**463**	**1.62**	0.683 J	244	**781**	**2130**	0.0762 J	<0.00180	
	MW-55	Sep-21		282	**448**	1.58	0.644 J	199	**770**	**2520**	<0.0500	<0.00180	
	MW-56	Apr-18		485	242	1.25	2.14	252	**2000**	**3080**	<0.0197		
	MW-56	Apr-19		475	221	1.06	1.99	212	**1890**	**3560**	<0.0197		
	MW-56	Jun-20		496	219	1.08	1.70 J	142	**1990**	**3520**	<0.0500		
	MW-56	Apr-21		484	211	1.19	1.80 J	140	**1740**	**2860**	0.252		
	MW-108	Apr-19		239	37.6	1.60	1.18	73.3	**790**	**2080**	<0.985		
	MW-108	Oct-19		244	23.4	**1.84**	0.725 J	60.8	**802**	**1940**	<0.394		
	MW-108	Jun-20		157	17.9	**1.63**	<0.534	45.5	365	**1270**	<5.00		
	MW-108	Oct-20		139	15.8	1.48	<0.534	46.8	221	**1150**	<0.0500		
	MW-108	Apr-21		209	27.0	**1.66**	0.412 J	64.6	**718**	**1610**	<0.0500		
	MW-108	Sep-21		308	40.3	**1.90**	0.801 J	63.0	**963**	**2190**	<2.50		

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Appendix B, Table B.5 - Summary of Groundwater Analytical Data - Water Quality and Cyanide

2021 Annual Groundwater Monitoring Report

HollyFrontier NavaJo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	Water Quality Parameters								Cyanide
				Analyte	Calcium	Chloride	Fluoride	Potassium	Sodium	Sulfate	TDS	Nitrate/Nitrite	Cyanide
				CAS	7440-70-2	16887-00-6	16984-48-8	7440-09-7	7440-23-5	14808-79-8	TDS	NO3NO2	57-12-5
				Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL		250	1.60			600	1000	10.0	0.200
				CGWSL Source		WQCC Dom	WQCC HH			WQCC Dom	WQCC Dom	WQCC HH	WQCC HH
Area	**Well ID**	**Date**	**Dup**										
NCL	NCL-31	Apr-19		323	32.1	1.34	0.459 J	97.6	**1520**	**2910**	<0.0197	
	NCL-31	Oct-19		419	20.6	**2.73**	3.06	83.2	**2240**	**3570**	2.46	
	NCL-31	Jun-20		308	21.3	1.36	<0.534	65.4	**1600**	**2580**	<0.0500	
	NCL-31	Oct-20		290	28.6	1.23	<0.534	69.7	**1360**	**2460**	<0.0500	
	NCL-31	Apr-21		251	45.1	**1.62**	0.539 J	70.8	**1100**	**1890**	0.118	
	NCL-31	Sep-21		206	50.2	**1.67**	0.346 J	43.1	**828**	**1680**	<0.0500	
	NCL-32	Apr-19		442	105	1.26	3.35	116	**1480**	**2730**	5.87	
	NCL-32	Oct-19		431	98.8	1.28	3.19	114	**1840**	**2880**	5.62	
	NCL-32	Jun-20		472	90.7	1.36	3.12	107	**1730**	**2940**	6.45	
	NCL-32	Oct-20		483	90.7	1.27	3.47	118	**1640**	**3040**	5.82	
	NCL-32	Apr-21		511	87.3	1.47	3.79	113	**1670**	**2490**	6.30	
	NCL-32	Sep-21		453	92.6	1.45	3.39	98.0	**1650**	**2920**	4.59	
	NCL-33	Apr-19		430	**483**	**2.12**	4.92	145	595	**1840**	0.890	
	NCL-33	Oct-19		547	**964**	**2.34**	5.54	157	**1090**	**3120**	<0.0197	
	NCL-33	Jun-20		714	**692**	**2.44**	5.60	166	**1540**	**3890**	0.0547 J	
	NCL-33	Oct-20		688	**667**	**2.64**	6.43	178	**1340**	**3960**	<0.0500	
	NCL-33	Apr-21		678	**790**	**2.72**	4.74	273	**1330**	**3420**	0.0825 J	
	NCL-33	Sep-21		548	**647**	**2.90**	6.37	254	**1340**	**3690**	<0.0500	
	NCL-34A	Oct-18		270	**289**	1.21 J3J5	1.25	111	117	**1710**	<0.394	
	NCL-34A	Apr-19		251 V	**262**	1.37	1.11	107 V	42.6	**1370**	<0.394	
	NCL-34A	Oct-19		235	245	1.38	1.15	116	119	**1470**	0.110	
	NCL-34A	Jun-20		283	**260**	1.31	1.13 J	104	234	**1680**	<5.00	
	NCL-44	Apr-19		371	138	1.48	2.39	131	**1230**	**2640**	<0.0197 J6	
	NCL-44	Oct-19		356	185	**1.67**	2.32	131	**1430**	**2740**	0.142	
	NCL-44	Jun-20		373	141	**1.66**	2.15	135	**1290**	**2700**	<0.0500	
	NCL-44	Oct-20		358	126 B	**1.63**	2.29	142	**1170**	**2730**	<0.0500	
	NCL-44	Apr-21		362	121	**1.80**	2.27	146	**1200**	**2180**	0.114	
	NCL-44	Sep-21		334	125	**1.84**	2.12	136	**1170**	**2550**	<0.0500	
	NCL-49	Apr-19		438	127	0.658	0.761 J	123	**1910**	**2490**	5.63	
	NCL-49	Apr-19	FD	450	129	0.653	0.701 J	124	**1830**	**2440**	5.66	
	NCL-49	Oct-19		474	137	0.740	0.736 J	129 V	**1910**	**3240**	6.39	
	NCL-49	Oct-19	FD	440	134	0.722	0.642 J	126 V	**1970**	**3390**	7.44	
	NCL-49	Jun-20		486	128	0.609	0.686 J	133	**1910**	**3350**	9.98	
	NCL-49	Jun-20	FD	472	128	0.613	0.652 J	135	**1920**	**3350**	9.95	
	NCL-49	Oct-20		487	135 B	0.606	0.692 JB	135	**1830**	**3380**	**10.1**	
	NCL-49	Oct-20	FD	482	135 B	0.600	0.675 JB	133	**1820**	**3430**	10.0	
	NCL-49	Apr-21		501	115	0.692	0.786 J	154	**1970**	**2930**	6.70	
	NCL-49	Apr-21	FD	491	118	0.645	0.706 J	149 V	**2030**	**2910**	7.30	
	NCL-49	Sep-21		491	105	0.697	0.726 J	140	**1980**	**3400**	**13.3**	
	NCL-49	Sep-21	FD	483	105	0.704	0.710 J	140	**1970**	**3340**	**13.3**	
North Refinery	MW-23	Apr-19		97.5	**444**	**1.70**	1.12	482	18.9	**2000**	<0.0197	
	MW-23	Oct-19		95.6	**428**	1.59	1.27	410	18.7	**2020**	<0.0197	
	MW-23	Jun-20		96.4	**410**	1.42	1.10 J	426 V	15.6	**1970**	<0.500	
	MW-23	Oct-20		96.8	**408**	1.19	1.29 J	459	7.39	**1990**	<0.0500	
	MW-29	Apr-19		617	**331**	**1.61**	1.98	360	**2790**	**5300**	<0.0197	
	MW-29	Oct-19		519	**351**	**2.05**	2.08	357	**2810**	**4180**	<0.0197	
	MW-29	Jun-20		396	**383**	**1.71**	2.03	356	**1890**	**3610**	<0.0500	
	MW-29	Oct-20		336	**418**	1.47	1.90 J	333 V	**1430**	**3530**	<0.0500	
	MW-29	Apr-21		379	**457**	**1.83**	2.06	330	**1580**	**3730**	0.105	
	MW-29	Sep-21		590	**502**	1.47	2.77	328	**2170**	**4180**	0.0504 J	
	MW-39	Apr-19		52.6	111	**4.21**	0.164 J	891	**1000**	**2580**	<0.0197	
	MW-39	Oct-19		45.8	86.8	**4.26**	0.245 J	771	**929**	**2590**	<0.0197	
	MW-39	Jun-20		61.8	97.7	**3.45**	<0.534	721	**821**	**2410**	<0.0500	
	MW-39	Oct-20		63.8	91.5	**3.28**	<0.534	655	**686**	**2260**	<0.0500	
	MW-40	Apr-17		474	156	**1.76**	1.62	110	**1550**	**3190**	<0.197	
	MW-40	Apr-18		425	141	**1.80**	1.41	107	**1440**	**2390**	<0.985	
	MW-40	Apr-19		450	106	1.52	1.39	107	**1400**	**2600** J3	<0.394	
	MW-40	Jun-20		374	88.4	**1.88**	1.30 J	90.4	**1380**	**2430**	<0.500	
	MW-41	Apr-18		329	**682**	0.934	0.571 J	624	**1500**	**4060**	<0.0197	
	MW-41	Apr-19		238	**721**	0.884	0.590 J	624	**1140**	**4110**	<0.394	
	MW-41	Jun-20		282	**875**	1.00	0.653 J	828	**1780**	**4930**	<0.0500	
	MW-41	Apr-21		274	**856**	1.02	0.586 J	812	**1590**	**5010**	0.117	
	MW-42	Apr-18		241	**372**	0.984	0.433 J	445	**1180**	**2990** J3	0.0310 JJ6	
	MW-42	Apr-19		233	**319**	0.780	0.449 J	425	**1010**	**2590**	<0.394	
	MW-42	Jun-20		246	**336**	0.851	<0.534	358	**1020**	**3310**	<2.50	
	MW-42	Apr-21		314	**585**	0.869	0.397 J	452	**1290**	**3870**	0.0775 J	
	MW-43	Apr-19		152	**639**	**1.71**	0.923 J	491	444	**2610**	<0.394	<0.0180
	MW-43	Oct-19		205	**662**	**1.66**	0.961 J	406	479	**2120**	<0.985	<0.0180 J4
	MW-43	Jun-20		141	**547**	1.36	0.828 J	341	198	**2210**	<0.250	<0.0360
	MW-43	Oct-20		141	**550**	1.09	0.896 J	350	102	**2150**	<0.0500	<0.0180
	MW-59	Apr-17		467	184	1.13	0.519 J	134	**1870**	**3160**	<0.197	
	MW-59	Apr-18		492	180	1.31	0.507 J	151	**1680**	**2760**	<0.0197 J6	
	MW-59	Apr-19		475	173	1.10	0.468 J	153	**1400**	**3110**	<0.0197	
	MW-59	Jun-20		366	201	1.33	<0.534	184	**1340**	**2900**	<0.0500	
	MW-60	Apr-19		448	**275 B**	1.06	0.766 J	258	**2380**	**3870**	<0.985	<0.00180
	MW-60	Apr-19	FD	429	**269 B**	0.901	0.703 J	250	**2300**	**4060**	<0.985	<0.00180
	MW-60	Oct-19		401	250	0.972	0.420 J	191	**2200**	**2930** J3	<0.197	<0.0180
	MW-60	Oct-19	FD	402	**273**	0.936	0.445 JB	184 V	**2040**	**3320** J3	<0.197	<0.0180
	MW-60	Jun-20		418	206	0.778	<0.534	178	**1770**	**3720**	<2.50	<0.0360
	MW-60	Jun-20	FD	424	219	1.18 J	<0.534	176	**1660**	**3790**	<0.500	<0.0360
	MW-60	Oct-20		418	202	0.715	<0.534	189	**1510**	**3560**	0.203	<0.0180
	MW-60	Oct-20	FD	401	219	1.21 J	<0.534	190	**1780**	**3660**	<0.0500	<0.0180
	MW-61	Apr-19		288	**322**	1.43	0.885 J	317	**725**	**2320**	<0.197	
	MW-61	Oct-19		402	**412**	**2.05**	2.49	234	**885**	**2690**	<0.985	
	MW-61	Jun-20		292	**471**	1.09	0.933 J	299	541	**2570**	<5.00	
	MW-61	Oct-20		246	**339**	1.06	0.820 JB	302	532	**2110**	<0.0500	
	MW-61	Apr-21		250	**339**	0.906	0.637 J	273	475	**2140**	<0.500	
	MW-61	Sep-21		225	**312**	0.933	0.635 J	231	327	**2040**	<2.50	
	MW-62	Apr-19		292	**266**	1.56	1.15	310	556	**2280**	<0.0197	
	MW-62	Oct-19		271	**285**	1.60	1.12	255 O1V	593	**2290**	<0.985	
	MW-62	Jun-20		282	**280**	1.19	0.973 J	235	524	**2290**	<2.50	
	MW-62	Oct-20		304	**296**	1.08	1.11 JB	241	531	**2370**	<0.0500	
	MW-62	Sep-21		376	**386**	1.03	1.07 J	225	**703**	**2750**	<2.50	
	MW-62R	Oct-20		304	**311**	0.806	3.38	152	571	**2240**	<0.0500	
	MW-62R	Apr-21		183	**280**	1.02	1.00 J	116	2.65 J	**1340**	<0.0500	
	MW-67	Oct-17		207	**305**	0.568	0.500 JB	200	388	**1740**	<0.0985	<0.00180
	MW-67	Apr-18		220	**328**	0.636	0.573 JB	245	404	**1660**	<0.197	<0.180
	MW-67	Oct-18		240	221	0.611	0.636 J	202	493	**1580**	<0.0197	<0.00180
	MW-67	Apr-19		202	**302**	0.637	0.538 J	225	447	**1630**	<0.0197	<0.00180
	MW-90	Apr-19		321	167	**1.99**	1.21	172	**1900**	**2710**	0.558 J	
	MW-90	Oct-19		434	79.1	**5.45**	1.73	109	**2540**	**3480**	0.0330 J	
	MW-90	Jun-20		331	173	**2.25**	1.13 J	142	**1790**	**3120**	<2.50	
	MW-90	Oct-20		293	210	1.05	0.913 J	171	**1280**	**2910**	<0.0500	
	MW-90	Apr-21		314	230	1.06	0.760 J	170	**1250**	**2960**	<0.0500	
	MW-90	Sep-21		452	163	**3.03**	1.75 J	133	**2330**	**4090**	<1.00	

Appendix B, Table B.5 - Summary of Groundwater Analytical Data - Water Quality and Cyanide

2021 Annual Groundwater Monitoring Report

HollyFontier NavaJo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	Water Quality Parameters								Cyanide
				Analyte	Calcium	Chloride	Fluoride	Potassium	Sodium	Sulfate	TDS	Nitrate/Nitrite	Cyanide
				CAS	7440-70-2	16887-00-6	16984-48-8	7440-09-7	7440-23-5	14808-79-8	TDS	NO3NO2	57-12-5
				Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL		250	1.60			600	1000	10.0	0.200
				CGWSL Source		WQCC Dom	WQCC HH			WQCC Dom	WQCC Dom	WQCC HH	WQCC HH
Area	**Well ID**	**Date**	**Dup**										
North Refinery	MW-91	Oct-18		433	221	1.27	0.639 J	35.2	**966**	**2820**	<0.985		
	MW-91	Apr-19		460	**295**	1.27	0.468 J	38.9	**915**	**3290**	<1.97		
	MW-91	Oct-19		451	**422**	1.29	0.520 J	39.6	**1020**	**2430**	<0.197		
	MW-91	Jun-20		478	**501**	1.19	<0.534	36.7	**813**	**2830**	<10.0		
	MW-92	Apr-16		130 O1	**415**	1.30	1.73 J	450 O1V	24.1	**2310**	0.602 J		
	MW-92	Oct-16		134	**539**	**1.63**	2.02	454	14.6	**2150**	<0.985		
	MW-93	Apr-17		489	192	**2.38**	2.97	167	**1430**	**2930**	<0.197		
	MW-93	Apr-18		537	193	**2.39**	3.55	191	**1400**	**2760**	<0.197		
	MW-93	Apr-19		505	214	**2.09**	3.76	195	**1400**	**2810**	0.0220 J		
	MW-93	Jun-20		491	233	**1.88**	3.11	163	**1070**	**2820**	<2.50		
	MW-94	Oct-15		109	245	1.01	0.224 J	355	75.8	**2530**	<0.197		
	MW-94	Apr-16		124	217	1.02	0.189 J	532	199	**2980**	<0.197		
	MW-94	Oct-16		137	172	1.04	0.467 J	319	175	**2530**	<0.0197		
	MW-94	Apr-17		95.6	196	0.874	0.331 J	427	85.7	**2660**	<0.197		
Field East of Refinery	MW-95	Apr-17		203 V	**349**	0.868	0.730 J	194 V	420	**1710**	<0.197		
	MW-95	Apr-18		229	**258**	0.884	0.602 J	163	471	**1770**	<0.0197		
	MW-95	Apr-19		246	**264**	0.830	0.472 J	172	561	**2020**	<0.0197		
	MW-95	Jun-20		250	**300**	0.739	<0.534	151	**682**	**2020**	<0.0500		
	MW-96	Apr-19		167	150	1.20	1.17	211	150	**1360**	0.141		
	MW-96	Oct-19		195	144	1.17	1.15	204	393	**1520**	<0.197		
	MW-96	Jun-20		147	131	1.32	1.52 J	200	95.2	**1320**	<2.50		
	MW-96	Oct-20		142	128	1.15	1.17 J	218	69.3 P1	**1420**	<0.0500		
	MW-96	Sep-21		207	129	1.37	1.29 J	193	422	**1800**	<0.500		
	MW-98	Apr-19		575	126	**1.69**	<0.0370	127	**1800**	**2980**	<1.97		
	MW-98	Oct-19		575	185	**1.99**	0.257 J	115	**1520**	**3330**	<0.985		
	MW-98	Jun-20		561	239	**1.69**	<0.534	129	**1590**	**3280**	<5.00		
	MW-98	Oct-20		515	195	**1.73**	<0.534	125	**1300**	**3060**	<0.0500		
	MW-98	Apr-21		580	195	1.58	0.219 J	166	**1390**	**3380**	**<50.0**		
	MW-98	Sep-21		510	177	1.56	0.284 J	175	**1320**	**3220**	<2.50		
	MW-137	Oct-17		141	**548**	1.11	0.979 JB	759	**683**	**2910**	<0.394	<0.00180	
	MW-137	Apr-18		143	**446**	1.41	1.23	955	**713**	**3420**	<0.985	<0.180	
	MW-137	Oct-18		133	**406**	0.873	0.971 J	632	384	**2730**	<1.97	<0.180	
	MW-137	Apr-19		142	**407**	1.28	1.14	845	**607**	**3380**	<1.97	<0.0900	
	MW-138	Oct-17		124	**453**	1.06	1.50 B	401	27.9	**2100**	<0.0985	<0.00180	
	MW-138	Apr-18		130	**453**	0.874	1.58	436	26.8	**1910**	<0.0197	<0.00180	
	MW-138	Oct-18		122	**408**	0.802	1.60	362	30.3	**1510**	<0.0197	<0.00180	
	MW-138	Apr-19		130	**435**	0.966	1.62	402	41.4	**1730**	<0.0197	<0.00180	
	RW-1R	Apr-16		505	180	1.38	6.39	203	**1500**	**2990**	0.422 J		
	RW-1	Apr-17		558	246	1.41	7.37	268	**1860**	**3690**	<0.197		
	RW-1	Apr-18		363	**255**	0.913	2.24	247	**1030**	**1810**	<1.97		
	RW-1	Apr-19		337	**286**	0.866	1.87	266	**939**	**2690**	<1.97		
	RW-2	Apr-15		726	**365**	**1.75**	5.55 J	383	**3510**	**5310**	<0.200		
	RW-2R	Apr-16		875	**430**	**2.09**	5.80	396	**2200**	**3810**	0.281 J		
	RW-2	Apr-17		519	**251**	**2.35**	2.86	261	**1200**	**3030**	<0.197		
	RW-2	Apr-18		402	**317**	**1.75**	2.25	335	**731**	**2600**	<0.394		
	RW-7	Apr-17		266	204	0.513	0.922 J	105	**693**	**1740**	<0.197		
	RW-7	Apr-18		295	217	1.22	2.54	149	475	**1820**	<0.985		
	RW-7	Apr-19		247	239	1.05	1.63	150	426	**1830**	<0.197		
	RW-7	Jun-20		184	218	0.995	0.651 J	151	162	**1530**	<2.50		
	RW-8	Apr-15		227	115	0.801	0.353 J	209	473	**1600**	<0.200		
	RW-8	Apr-17		218	163	0.731	0.360 J	161	**665**	**1820**	<0.197		
	RW-9	Apr-18		322	**353**	**1.80**	2.13	351	**1170**	**2750**	<0.985		
	RW-9	Apr-19		309	**399**	1.46	1.91	356	**1160**	**3100**	<1.97		
	RW-9	Jun-20		293	**469**	1.21	1.51 J	425	**1140**	**3330**	<2.50		
	RW-9	Apr-21		300	**556**	1.22	1.27 J	439	**1180**	**3560**	<0.500		
	RW-10	Apr-18		499	131	**3.41**	3.49	143	**1530**	**2670**	<0.985		
	RW-10	Apr-19		572	65.9	**3.66**	3.68	102	**1470**	**2540 J3**	<0.197		
	RW-10	Jun-20		485	92.9	**3.87**	4.43	151	**1450**	**2520**	<0.0500		
	RW-10	Apr-21		353	193	**3.26**	3.53	312	**1110**	**2730**	0.0679 J		
	RW-16B	Apr-17		499	**291**	**4.90**	0.832 J	372	**2740**	**5030**	2.20		
	RW-16B	Apr-18		546	43.5	**4.89**	0.788 J	259	**2660**	**4240**	0.894 J6		
	RW-16B	Apr-19		540	83.0	**4.48**	0.677 J	333	**2690**	**4440**	1.47 J3J6		
	RW-16B	Jun-20		516	181	**3.78**	1.65 J	492	**2970**	**4720**	<0.0500		
	RW-17A	Apr-17		568	**398**	**2.61**	4.02	306	**2950**	**4820**	3.33		
	RW-17A	Apr-18		635	**358**	**2.31**	3.87	345	**3080**	**4430**	0.0920 J		
	RW-17A	Apr-19		563	**398**	**2.64**	2.97	286	**3290**	**5430**	<0.0197		
	RW-17A	Jun-20		554	**389**	**2.58**	4.62	306	**2940**	**5730**	0.386		
North RO Field	MW-117	Apr-19		686	**307**	**2.99**	7.11	127	**1980**	**3720**	0.0740 J		
	MW-117	Oct-19		582	**267**	**3.25**	6.50	99.5	**2010**	**3330**	0.376		
	MW-117	Jun-20		578	**299**	**3.43**	6.39	129	**2300**	**3640**	2.46		
	MW-117	Oct-20		587	**271**	**3.25**	6.68	133	**2030**	**3870 J3**	4.05		
	MW-117	Apr-21		663	**304**	**2.89**	5.49	147	**2290**	**4080**	5.55		
	MW-117	Sep-21		614	**325 B**	**2.66**	5.98	144	**1910**	**4020**	1.76		
	MW-118	Apr-19		648	**256**	**5.40**	5.40	144	**2390**	**3800**	1.06		
	MW-118	Oct-19		573	**286**	**5.28**	3.78	153	**2580**	**4260**	1.76		
	MW-118	Jun-20		586	**290**	**5.20**	3.45	171	**2950**	**4620**	2.43		
	MW-118	Oct-20		558	**262**	**5.06**	3.07 B	178	**2600**	**4640**	2.03		
	MW-118	Apr-21		575	241	**4.51**	2.85	192	**2880**	**4840**	2.29		
	MW-118	Sep-21		568	**253 B**	**4.12**	2.38	186	**2720**	**4770**	2.06		
	MW-119	Apr-19		654	**404**	**2.59**	1.39	249	**2160**	**3680**	0.398		
	MW-119	Oct-19		633	**397**	**2.34**	1.31	203	**2360**	**4670**	0.132		
	MW-119	Jun-20		629	**345**	**1.66**	0.637 J	202	**2990**	**4500**	0.281		
	MW-119	Oct-20		641	**298**	1.39	0.832 JB	200 V	**2490**	**4420**	0.106		
	MW-119	Apr-21		620	**278**	1.49	0.690 J	189 V	**2580**	**4400**	0.237		
	MW-119	Sep-21		607	**282 B**	**1.70**	0.786 J	192	**2320**	**4360**	0.314		
South Refinery	KWB-2R	Apr-17		280	**279**	0.904	0.460 J	286	**1060**	**2550**	0.0220 J		
	KWB-2R	Oct-17		139	240	1.09	1.33	283	259	**1770**	<0.394		
	KWB-2R	Apr-19		322	246	0.656	0.516 JB	304	**1040**	**2370**	0.991 J		
	KWB-2R	Oct-19		169	**253**	0.927	0.534 J	246	345	**1590 J3**	<0.0197		
	KWB-5	Oct-17		220	**565**	0.877	1.41	208	21.9	**1560**	0.0530 J		
	KWB-5	Apr-18		233	**546**	0.861	1.95	215	9.96	**1730**	1.93		
	KWB-5	Oct-18		200	**546**	0.869	1.76 JB	208	11.8	**1450**	<0.0197		
	KWB-5	Apr-19		244	**525**	0.761	2.10	241	18.7	**1680**	<0.0197		
	KWB-6	Apr-17		227	**260**	0.965	0.183 J	120	211	**1630**	0.556 J		
	KWB-6	Oct-17		256	**290**	0.842	0.162 J	131	377	**1890**	<0.394		
	KWB-6	Apr-18		248	248	0.897	0.268 J	138	272	**1600**	0.0380 J		
	KWB-6	Oct-18		223	240	0.801	0.230 J	122	324	**1680 J3**	<0.0197		
	MW-28	Apr-19		361	138	1.14	0.964 J	112	**1030**	**2920**	<0.985	<0.0180	
	MW-28	Oct-19		360	143	1.60	0.571 JB	101	**1630**	**2860**	<0.985	<0.0180 J4	
	MW-28	Jun-20		285	149	1.10	4.23	109	**1310**	**2610**	<0.250	<0.0360	
	MW-28	Oct-20		281	132	1.02	4.03	114	**1140**	**2670**	<0.0500	<0.00180	
	MW-48	Apr-18		200	**689**	**1.90**	0.776 J	269	9.52	**2490**	0.0860 J		
	MW-48	Oct-18		172 V	**498**	1.20	0.863 J	293 V	125	**1730 J4**	<0.394		
	MW-48	Apr-19		168	179	**1.82**	1.16	290	**1210**	**1630 J4**	<0.394		
	MW-48	Oct-19		159	**429**	1.08	1.12	297	85.7	**1580 J3**	<0.985		

Appendix B, Table B.5 - Summary of Groundwater Analytical Data - Water Quality and Cyanide

2021 Annual Groundwater Monitoring Report

HollyFrontier NavaJo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	Water Quality Parameters								Cyanide
				Analyte	Calcium	Chloride	Fluoride	Potassium	Sodium	Sulfate	TDS	Nitrate/Nitrite	Cyanide
				CAS	7440-70-2	16887-00-6	16984-48-8	7440-09-7	7440-23-5	14808-79-8	TDS	NO3NO2	57-12-5
				Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL		250	1.60			600	1000	10.0	0.200
				CGWSL Source		WQCC Dom	WQCC HH			WQCC Dom	WQCC Dom	WQCC HH	WQCC HH
Area	Well ID	Date	Dup										
South Refinery	MW-50	Apr-19		469	**320**	1.50	2.62	334	**2340**	**4440**	1.48		
	MW-50	Oct-19		406	**298**	**1.80**	2.63	289	**2450**	**3260**	1.53		
	MW-50	Jun-20		495	**418**	**2.92**	4.42	577	**3370**	**5550** Q	**74.6**		
	MW-50	Oct-20		490	**390**	**3.64**	4.05	682	**4100**	**7810**	**78.5** V		
	MW-50	Apr-21		387	191	1.47	2.42	242	**1650**	**3370**	0.0950 J		
	MW-50	Sep-21		513	**477**	**5.41**	9.75	851	**4950**	**9740**	**266**		
	MW-52	Apr-19		201	160	**1.87**	0.394 JB	321	**1080**	**2500** J3J4	**12.7**		<0.00180
	MW-52	Oct-19		206	**1140**	**1.71**	0.218 JB	322	**1110**	**2380** J3	**13.3**		<0.00180
	MW-52	Jun-20		239	195	**1.71**	<0.534	340	**1140**	**2810**	**13.0**		<0.00180
	MW-52	Oct-20		223	195	**1.62**	<0.534	332	**1110**	**2720**	**15.3** V		<0.00180
	MW-52	Apr-21		212	166 B	1.54	0.319 J	358	**958**	**2530**	**11.0**		<0.00180
	MW-52	Sep-21		211	179	1.53	0.240 J	308	**1050**	**2560**	**12.0**		<0.00180
	MW-64	Apr-19		105	**295**	0.833	0.713 J	359	1.94 J	**1340**	<0.0197		
	MW-64	Oct-19		83.5	**325**	0.742	0.587 J	327	4.42 JB	**1480**	<0.197		
	MW-64	Jun-20		90.7	**324**	0.993	0.655 J	350	5.03	**1620**	<0.100		
	MW-64	Oct-20		88.5	**310**	0.710	0.586 JB	343	8.17	**1590**	<0.0500 J3J6		
	MW-64	Apr-21		93.9	**275**	0.750	0.581 J	350	23.4	**1580**	<0.0500		
	MW-64	Sep-21		88.9	**286 B**	0.878	0.536 J	329	9.58	**1600**	<2.50		
	MW-65	Apr-18		132	**306**	1.33	0.732 J	264	10.2	**1340**	<0.0985		
	MW-65	Oct-18		127	**284**	1.12	0.823 JB	229	4.80 J	**1280**	<0.0197 J6		
	MW-65	Apr-19		155	**284**	0.967	0.532 JB	262	1.23 J	**1310**	<0.0197		
	MW-65	Oct-19		113	234	1.23	0.466 J	223	5.53 B	**1080**	<0.0197		
	MW-66	Apr-19		145	187	1.23	1.21	189	0.718 J	**1140**	<0.0197		<0.00180
	MW-66	Oct-19		121	168	1.04	1.18	131	6.99	912	<0.0197 J6		<0.00180
	MW-66	Jun-20		136	188	1.13	0.842 J	155	1.16 J	**1070**	0.0979 J		<0.00180
	MW-66	Oct-20		140	189	1.12	1.71 JB	145	6.68	**1060**	<0.0500		<0.00180
	MW-66	Apr-21		176	**257**	1.26	2.12	205	1.59 J	**1230**	0.0769 J		<0.00180
	MW-99	Oct-18		162	**254**	0.612	0.792 J	212	124	**1420**	<0.394		
	MW-99	Apr-19		184	225	0.572	1.31	214	145	**1390**	<0.394		
	MW-99	Oct-19		109	66.7	0.517	4.66	58.1	81.1	547	0.0300 J		
	MW-99	Jun-20		138	73.2	0.323	7.77	60.7	109	727	<0.0500		
	MW-101	Apr-19		208	223	0.984	0.384 J	158	182	**1370**	<0.0197 J5		
	MW-101	Oct-19		192	212	0.994	0.482 JB	138	202	**1370**	<0.0197		
	MW-101	Jun-20		183	202	0.965	0.556 J	144	183	**1330**	<0.0500		
	MW-101	Oct-20		207	185	0.915	0.881 JB	137	234	**1410**	<0.0500		
	MW-101	Apr-21		178	190	0.839	0.652 J	149	150	**1250**	0.112		
	MW-101	Sep-21		173	195	0.918	0.934 J	138	200	**1270**	<2.50		
	MW-102	Apr-19		101 V	**281**	0.797	0.275 J	401 V	23.3	**1510**	<0.197		
	MW-102	Oct-19		166	**294**	1.09	0.631 JB	392	190	**1870**	<0.197		
	MW-102	Jun-20		84.2	**285**	0.984	<0.534	446	21.2	**1610**	<0.0500		
	MW-102	Oct-20		91.9	**282**	0.812	<0.534	431	5.16	**1610**	<0.0500		
	MW-102	Apr-21		98.1	242 B	0.823	0.435 J	430	39.6	**1570**	0.0911 J		
	MW-102	Sep-21		118	226 B	0.899	0.532 J	410	55.5	**1650**	<2.50		
	MW-102	Sep-21	FD	117	**253**	1.05	0.601 J	423	55.0	**1620**	<2.50		
	MW-103	Apr-18		94.1	**6800**	**7.41**	1.41	5980	60.4	**13400**	<0.394		
	MW-103	Apr-19		91.2	**4550**	**5.85**	1.16	3990	133	**9260**	<0.0197		
	MW-103	Jun-20		120	**4480**	**4.50**	1.21 J	2830	44.3	**7620**	<0.500		
	MW-103	Apr-21		186	**4530**	**3.47**	1.26 J	3010	157 J	**8460**	<0.500		
	MW-104	Apr-19		321	67.0	1.18	8.16	113	**780**	**1650**	<0.0197		
	MW-104	Apr-19	FD	296	67.7	1.21	7.37	78.0	**793**	**1590**	<0.197		
	MW-104	Oct-19		241	68.0	1.55	5.92	72.2	**757**	**1390**	<0.0197		
	MW-104	Oct-19	FD	244	67.9	1.56	6.00	72.5	**863**	**1300**	<0.197		
	MW-104	Jun-20		224	69.8	1.51	5.03	77.2	**703**	**1290**	<0.250		
	MW-104	Jun-20	FD	218	69.2	1.33	4.88	73.6	**703**	**1140**	<0.500		
	MW-104	Oct-20		256	71.7	1.34	5.63	73.9	**785**	**1470**	0.153		
	MW-104	Oct-20	FD	241	71.7	1.36	5.28	73.7	**702**	**1450**	<0.0500		
	MW-104	Apr-21		321	55.4	1.15	4.78	67.3	**935**	**1820**	0.109		
	MW-104	Apr-21	FD	314	55.8	1.18	4.58	67.3	**929**	**1760**	<0.0500		
	MW-104	Sep-21		306	69.0	1.31	6.26	70.5	**834**	**1830**	<2.50		
	MW-105	Apr-19		294	21.4	1.18	2.78	31.0	600	**1360**	<0.197		
	MW-105	Oct-19		453	28.0	1.04	4.72	26.0	**1120**	**2040**	<0.985		
	MW-105	Jun-20		243	98.8	1.43	2.74	71.7	177	**1220**	<2.50		
	MW-105	Oct-20		170	99.9	1.47	2.73	89.5	17.4	**1050**	<0.0500		
	MW-105	Apr-21		325	119 B	1.32	3.02	94.8	**683**	**1910**	<0.0500		
	MW-106	Apr-19		225	150 B	0.952	2.09	153	**870**	**1900**	<0.985		
	MW-106	Oct-19		360	217	1.29	1.74	264	**1340**	**3240**	<0.985		
	MW-106	Jun-20		295	206	1.11	1.53 J	258	**1130**	**2890**	<10.0		
	MW-106	Oct-20		285	213	0.865	0.777 J	318	**980**	**3110**	<0.0500		
	MW-106	Apr-21		308	**322**	1.01	1.02 J	333	**1580**	**3260**	<0.0500		
	MW-107	Oct-16		186	**271**	**1.82**	0.965 J	80.1	72.4	**1480**	0.170 B		
	MW-107	Apr-17		140	**313**	**1.76**	0.655 J	75.4	<0.0774	**1260**	<0.197		
	MW-107	Apr-18		147	**269**	**1.66**	0.555 J	81.7	1.08 J	**1370**	0.0410 J		
	MW-107	Apr-19		147	246	1.33	0.631 J	82.5	0.657 J	**1270**	<0.0197		
	MW-109	Apr-19		103	180	**2.01**	0.935 J	470	589	**2010**	<0.0197		
	MW-109	Oct-19		98.3	190	**2.08**	0.720 JB	389	**710**	**1740**	0.0580 J		
	MW-109	Jun-20		87.7	191	**1.97**	0.786 J	423	496	**2150**	<2.50		
	MW-109	Oct-20		70.2	200	**1.86**	0.700 JB	430	376	**1990**	<0.0500		
	MW-109	Apr-21		60.3	218	**1.78**	0.591 J	492	204	**1820**	0.104		
	MW-109	Sep-21		76.6	61.9	1.44	0.758 J	394	321	**2020**	<0.500		
	MW-110	Apr-19		105	122	1.48	0.203 JB	278	403	**1340**	<0.0197		
	MW-110	Oct-19		103	105	1.41	0.0768 JB	256	529	**1240**	<0.0197		
	MW-110	Jun-20		97.8	95.6	1.39	<0.534	251	316	**1300**	<0.0500		
	MW-110	Oct-20		95.9	92.9	1.32	<0.534	252	401	**1290**	<0.0500		
	MW-110	Apr-21		101	75.8	1.33	0.430 J	271	433	**1310**	0.0916 J		
	MW-110	Sep-21		84.5	61.9	1.44	0.171 J	246	328	**1180**	<0.0500		
	MW-139	Oct-19		395	249	0.748	1.16	247	**1790**	**3480**	<0.0197		
	MW-139	Jun-20		362	236	0.646	0.597 J	252	**2010**	**3620**	<0.0500		
	MW-139	Oct-20		373	186	0.533	0.560 J	286	**1510**	**3690**	<0.0500		
	MW-139	Apr-21		363	163	0.636	0.433 J	282	**1630**	**3620**	<0.0500		
	MW-139	Sep-21		361	116	0.795	0.466 J	207	**1710**	**3350**	<0.0500		
	RA-313	Apr-18		181	15.3	0.888	0.954 J	18.0	467	819	0.507		
	RA-313	Apr-19		238	221	0.772	1.69	139	**605**	**1510**	0.533		
	RA-313	Jun-20		221	190	0.898	1.66 J	99.9	**635**	**1400**	0.570		
	RA-313	Apr-21		214	153	0.817	1.50 J	99.8 V	545	**1310**	0.640		
	RW-4	Apr-17		151	**280**	0.977	1.50	177	318	**1510**	<0.197		
	RW-4	Apr-18		181	242	0.909	1.52	172	410	**1550**	<0.0197		
	RW-4	Apr-19		188	228	0.691	1.24	151	325	**1660**	<0.197		
	RW-4	Jun-20		201	232	0.778	1.13 J	130	446	**1710**	<0.500		
	RW-5R	Apr-15		4.82	**260**	0.965	0.461 J	189	0.376 J	565	<0.0200		
	RW-5R	Apr-16		4.61 J	**262**	0.564	0.364 J	203	0.655 J	399	0.495 J		

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Appendix B, Table B.5 - Summary of Groundwater Analytical Data - Water Quality and Cyanide

2021 Annual Groundwater Monitoring Report

HollyFrontier NavaJo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	Water Quality Parameters								Cyanide
				Analyte	Calcium	Chloride	Fluoride	Potassium	Sodium	Sulfate	TDS	Nitrate/Nitrite	Cyanide
				CAS	7440-70-2	16887-00-6	16984-48-8	7440-09-7	7440-23-5	14808-79-8	TDS	NO3NO2	57-12-5
				Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL		250	1.60			600	1000	10.0	0.200
				CGWSL Source		WQCC Dom	WQCC HH			WQCC Dom	WQCC Dom	WQCC HH	WQCC HH
Area	**Well ID**	**Date**	**Dup**										
South Refinery	RW-6	Apr-15		168	**414**	0.628	0.686 J	205	129	**1650**	0.0335 J		
	RW-6R	Apr-16		191	**405**	0.747	0.356 J	226	104	**1470**	0.485 JP1		
	RW-6	Apr-18		183	**409**	0.804	0.684 J	224	45.6	**1530**	0.0460 J		
	RW-6	Apr-19		165	**325**	0.620	0.598 J	191	3.36 J	**1350**	<0.394		
	RW-15C	Apr-17		160	**409**	0.774	1.59	269	19.4	**1610**	0.442 J		
	RW-15C	Apr-18		211 V	**652**	0.868	1.28	349 V	0.754 J	**1850**	<0.0197		
	RW-15C	Apr-19		247	**264**	0.882	1.63	322	**1070**	**2110 J4**	<0.0197		
South RO Field	MW-114	Apr-19		616	228	**2.02**	2.73	118	**2400**	**3540**	0.356		
	MW-114	Oct-19		593	226	**2.14**	2.61	126	**2010**	**3530**	0.571		
	MW-114	Jun-20		586	**251**	**2.17**	2.42	127	**2060**	**3470**	0.478 J5		
	MW-114	Oct-20		528	233	**2.07**	2.37 B	119	**1590**	**3300**	0.110		
	MW-114	Apr-21		532	180 B	**1.98**	2.46	118	**1410**	**2960**	0.110		
	MW-114	Sep-21		466	227	**2.32**	2.26	109	**1380**	**2820**	<0.0500		
	MW-115	Apr-19		512 V	**281**	**2.12**	0.487 J	180 V	**2720**	**4240**	0.148		
	MW-115	Oct-19		431	**258**	**2.35**	0.496 J	184	**2280**	**4040**	0.163		
	MW-115	Jun-20		475	**424**	**2.09**	<0.534	187	**2590**	**4320**	3.94		
	MW-115	Oct-20		467	**406**	**1.73**	<0.534	179	**2350**	**4590**	3.99		
	MW-115	Apr-21		508	**357 B**	1.54	0.552 J	212	**2240**	**4560**	3.56		
	MW-115	Sep-21		466	**357**	**1.75**	0.547 J	215	**2170**	**4330**	1.85		
	MW-116	Apr-19		623	**263**	1.56	1.25	215	**2470**	**3890**	0.442		
	MW-116	Oct-19		546	**292**	**1.93**	1.52	175	**2600**	**3260**	0.417		
	MW-116	Jun-20		559	**282**	1.59	1.11 J	177	**2270**	**4210**	0.520		
	MW-116	Oct-20		550	**260**	1.53	1.14 JB	176	**1920**	**4040**	0.476		
	MW-116	Apr-21		588	**278 B**	1.52	1.39 J	186	**2080**	**4000**	0.636		
	MW-116	Sep-21		542	**283 B**	1.38	1.03 J	174	**1940**	**3860**	0.709		
TEL	MW-49	Apr-19		225	**435**	1.51	2.96	340	592	**2160**	<0.985	<0.0180	
	MW-49	Oct-19		199	**418**	1.58	2.93	318	470	**2320**	<0.985	<0.0180	
	MW-49	Jun-20		210	**442**	1.38	2.90	309	487	**2350**	<2.50	<0.0900	
	MW-49	Oct-20		196	**451**	1.30	2.45	308	437	**2340**	<0.0500	0.0121 J	
	MW-49	Apr-21		184	**395**	1.24	1.81 J	333	383	**1900**	<5.00	0.0990 J	
	MW-49	Sep-21		164	**333**	1.26	1.96 J	290	317	**1810**	<2.50	<0.0900	
	TEL-1	Oct-18		160	238	**2.13**	0.650 J	474	**719**	**2080**	<0.394		
	TEL-1	Apr-19		172	250	**2.14**	0.685 J	460	**803**	**2000**	<0.394		
	TEL-1	Oct-19		144	234	**2.23**	0.629 J	474	**640**	**2200**	<0.0197		
	TEL-1	Jun-20		143	184	**1.98**	0.565 J	435	**699**	**2140**	<0.500		
	TEL-2	Oct-18		266	205	0.967	1.14	363	**1360**	**2730**	<0.394		
	TEL-2	Apr-19		274	224	1.09	1.73	377	**1250**	**2940**	<0.394		
	TEL-2	Oct-19		298	159	1.28 B	1.30	407	**1610**	**3550**	<0.394		
	TEL-2	Jun-20		280	130	0.988	1.05 J	373	**1540**	**3400**	<0.500		
	TEL-3	Apr-18		302	**696**	**2.51**	6.00	308	442	**2440**	<0.0985		
	TEL-3	Apr-19		562	52.7	**2.77**	5.37	44.1	**1300**	**2290**	<0.0985		
	TEL-3	Oct-19		603	36.7	**3.06**	5.26	36.2	**1470**	**2790**	<0.985		
	TEL-3	Oct-20		424	114	**1.73**	2.55	86.5	**1290**	**2880**	<0.0500 J6		
	TEL-4	Apr-19		262	36.8	1.45	0.438 J	204	**1830**	**3140**	<0.0197		
	TEL-4	Apr-19	FD	264	36.3	1.44	0.432 J	213	**1860**	**2830**	<0.0197		
	TEL-4	Oct-19		283	**281**	**2.09**	0.556 J	303	**1680**	**3540**	<0.394		
	TEL-4	Oct-19	FD	285	**274**	**2.05**	0.529 J	286	**1640**	**3570**	<0.394		
	TEL-4	Jun-20		305	**456**	0.932	<0.534	284 O1V	**1480**	**3770**	<0.500		
	TEL-4	Jun-20	FD	308	**455**	0.841	<0.534	286	**1490**	**3770**	<0.0500		
	TEL-4	Oct-20		294	**400**	0.904	<0.534	296 V	**1140**	**3470**	<0.0500		
	TEL-4	Oct-20	FD	291	**450**	0.834	<0.534	307	**1230**	**3510**	<0.0500		
	TEL-4	Apr-21		342	**290**	0.829	0.513 J	367	**1240**	**3510**	0.0747 J		
	TEL-4	Apr-21	FD	341	**325**	0.825	0.521 J	356	**1410**	**3540**	0.0730 J		
	TEL-4	Sep-21		441	**316**	0.765	0.588 J	406	**1990**	**4670**	0.0517 J		
	TEL-4	Sep-21	FD	442	**308**	0.767	0.669 J	396	**2030**	**4700**	<0.0500		
Three Mile Ditch	MW-8	Apr-18		450	**443**	**1.99**	1.76	320	**2470**	**4040**	8.72		
	MW-8	Apr-19		499	**450**	**2.08**	1.85	336	**3050**	**4640 J4**	**18.7**		
	MW-8	Jun-20		534	**599**	**2.04**	1.98 J	393	**3060**	**5260**	**16.0**		
	MW-8	Apr-21		595	**625**	1.55	2.05	464	**2690**	**5790**	**19.4**		
	MW-16	Apr-18		600	**705**	**2.26**	9.59	643	**2820**	**4960**	0.428		
	MW-16	Apr-19		555	**349**	**2.57**	9.13	472	**2590**	**4590 J4**	0.790		
	MW-16	Jun-20		500	**446**	**2.69**	8.82	424	**2610**	**4390**	0.331		
	MW-16	Apr-21		487	**339**	**2.34**	8.73	371	**2040**	**4000**	1.20		
	MW-20	Apr-18		537	**525**	**2.13**	0.562 J	291	**2790**	**4700 J3**	4.56		
	MW-20	Apr-19		541	**373**	**2.27**	0.509 J	284	**2980**	**4710 Q**	2.02		
	MW-20	Jun-20		522	**382**	**2.26**	0.601 J	284	**2830**	**4590**	2.38		
	MW-20	Apr-21		572	**399**	**1.85**	0.598 J	295	**2590**	**4820**	3.60		
	MW-21	Apr-19		622	**628**	**2.02**	2.11	443	**3150**	**4990 J4**	**19.9**		
	MW-21	Oct-19		536	**592**	**1.68**	1.98	425	**2930**	**5410**	**15.1**		
	MW-21	Jun-20		586	**641**	**2.02**	2.17	440	**3130**	**5480**	**18.6**		
	MW-21	Oct-20		552	**616**	1.41	2.15	429	**2700**	**5600**	**17.5**		
	MW-21	Apr-21		592	**601**	**1.77**	2.18	467	**2570**	**5560**	**17.8**		
	MW-21	Sep-21		546	**647**	**1.91**	2.06	423	**2770**	**5490**	**17.1**		
	MW-25	Apr-18		368 V	**1230**	1.25	4.32	875 V	**1770**	**4080**	0.156		
	MW-25	Apr-19		330	**1040**	1.00	4.19	771	**1510**	**3810**	2.98		
	MW-25	Jun-20		323	**976**	1.31	3.90	653	**1450**	**3610**	0.143		
	MW-25	Apr-21		358	**940**	1.01	3.54	472	**1350**	**3660**	0.466		
	MW-26	Apr-18		664	**1120**	**1.61**	5.46	731	**3830**	**7170**	0.986		
	MW-26	Apr-19		584	**1010**	**2.09**	5.77	674	**4420**	**7020 Q**	1.66		
	MW-26	Jun-20		585	**671**	**2.06**	5.18	530	**3660**	**5990**	1.69		
	MW-26	Apr-21		517	**527**	**1.82**	4.86	530	**3130**	**5690**	1.79		
	MW-27	Apr-18		337	80.2	1.33	7.88	129	**1140**	**1870**	0.770		
	MW-27	Apr-19		297	55.2	1.42	7.82	104	**1030**	**1720 J4**	0.987		
	MW-27	Jun-20		301	56.7	1.38	7.62	91.0	**1070**	**1820**	1.78		
	MW-27	Apr-21		335	60.0	1.18	7.70	94.6	**1110**	**1990**	0.418		
	MW-46R	Apr-19		638	**319**	1.51	0.913 J	178	**2290**	**4030 J4**	0.293		
	MW-46R	Oct-19		602	**318**	1.29	0.949 J	178	**2390**	**4120**	0.527		
	MW-46R	Jun-20		607	204	1.43	0.731 J	172	**2550**	**3930**	0.0922 J		
	MW-46R	Oct-20		553	175 B	1.16	0.725 JB	166	**2070**	**3860**	<0.0500		
	MW-46R	Apr-21		596	203	1.18	0.838 J	179	**2100**	**3850**	0.127		
	MW-46R	Sep-21		466	119 B	1.47	0.779 J	146	**1680**	**3110**	<0.0500		
	MW-68	Apr-18		388	176	**1.82**	5.01	162	**1470**	**2150**	0.390		
	MW-68	Apr-19		326	145	**2.12**	4.87	153	**1310**	**2260 J4**	1.08		
	MW-68	Jun-20		420	**354**	**1.89**	5.27	190	**1700**	**3040**	2.05		
	MW-68	Apr-21		412	244	**1.70**	5.09	235	**1520**	**3090**	1.70		
	MW-71	Apr-18		638	**809**	1.51	3.77	516	**2970**	**5280**	**39.5**	<0.00180	
	MW-71	Apr-19		673	**799**	**1.71**	3.47	502	**3260**	**5940 J4**	**32.1**	<0.00180	
	MW-71	Jun-20		630	**770**	**1.89**	3.51	510	**3130**	**6020**	**27.8**	<0.00180	
	MW-71	Apr-21		625	**689**	**1.62**	3.42	532	**2810**	**6010**	**27.8**	<0.0450	
	MW-89	Apr-18		513	170	**2.64**	8.61	151	**1630**	**2430**	1.10		
	MW-89	Apr-19		607 V	233	**3.32**	11.7	193 V	**1040**	**3470 J4**	1.34		
	MW-89	Jun-20		480	162	**2.92**	8.84	148	**1810**	**2810**	0.151		
	MW-89	Apr-21		451	196	**2.35**	7.06	139 V	**1370**	**2650**	1.05		

Appendix B, Table B.5 - Summary of Groundwater Analytical Data - Water Quality and Cyanide

2021 Annual Groundwater Monitoring Report

HollyFontier NavaJo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	Water Quality Parameters								Cyanide
				Analyte	Calcium	Chloride	Fluoride	Potassium	Sodium	Sulfate	TDS	Nitrate/Nitrite	Cyanide
				CAS	7440-70-2	16887-00-6	16984-48-8	7440-09-7	7440-23-5	14808-79-8	TDS	NO3NO2	57-12-5
				Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL		250	1.60			600	1000	10.0	0.200
				CGWSL Source		WQCC Dom	WQCC HH			WQCC Dom	WQCC Dom	WQCC HH	WQCC HH
Area	**Well ID**	**Date**	**Dup**										
Three Mile Ditch	NP-1	Apr-19		445	**382**	**2.04**	3.94	325	**2280**	**4210 Q**	3.98	
	NP-1	Oct-19										
	NP-1	Jun-20		436	**409**	**1.89**	2.59	311	**2260**	**4060**	3.27	
	NP-1	Oct-20										
	NP-1	Apr-21		479	**402**	1.50	1.69 J	325	**1870**	**4090**	3.17	
	NP-1	Sep-21										
	NP-6	Apr-15										
	NP-6	Apr-17										
	NP-6	Apr-19										
	NP-6	Apr-21										
Upgradient	UG-1	Apr-18		434	107	0.751	2.12	98.3	**1670**	**2600**	6.73	0.00224 JB
	UG-1	Apr-19		525	98.3	0.623	1.29	105	**1800**	**3150**	**10.1**	<0.00180
	UG-1	Jun-20		503	97.3	0.784	1.16 J	84.0	**2060**	**3550 B**	**10.6**	<0.00180
	UG-1	Apr-21		499	93.5	0.638	1.19 JB	93.1	**1860**	**2950**	**11.1**	<0.00180
	UG-2	Apr-18		321	72.5	**1.62**	1.33	85.4	**1050**	**1810**	**14.1**	<0.00180
	UG-2	Apr-19		357	61.3	1.32	1.58	90.6	**1020**	**2040 Q**	7.70 J6	<0.00180
	UG-2	Jun-20		342	75.9	1.52	1.41 J	85.7	**1190**	**2150 B**	9.75	<0.00180
	UG-2	Apr-21		330	66.3	1.36	1.33 JB	83.6	**1070**	**1710**	7.30	0.00321 J
	UG-3R	Apr-18		418	40.8	0.599	1.67	73.6	**1470**	**2190**	1.68	<0.00180
	UG-3R	Apr-19		479	36.3	0.502	1.99	37.1	**1390**	**2440**	0.905	<0.00180
	UG-3R	Jun-20		440	39.6	0.582	1.93 J	30.1	**1560**	**2430**	1.93	<0.00180
	UG-3R	Apr-21		489	61.7	0.466	2.10	34.9	**1530**	**2300**	3.16	<0.00180
	UG-4	Apr-18		620	125	0.574	1.77	201	**2680**	**4030**	0.515	<0.00180
	UG-4	Apr-19		694	133	0.544	1.96	190	**2420**	**4210**	0.418	<0.00180
	UG-4	Jun-20		622	108	0.605	1.78 J	168	**2810**	**4210 B**	0.326	<0.00180
	UG-4	Apr-21		635	76.0	0.676 J	1.82 J	164	**2610**	**3800**	0.491	<0.00180

Definitions

X	Reported concentration, X, exceeds the CGWSL.
X	Analyte detected above the detection limit at a concentration equal to X.
<x	Analyte not detected at detection limit equal to x.
<x	Analyte not detected at detection limit equal to x, but x exceeds the CGWSL.
	Blank cell indicates a sample was collected from the well during the indicated sampling event, but the analyte was not analyzed.
---	No applicable CGWSL.

Abbreviations

CGWSL	Critical Groundwater Screening Level (see Table 3)
CGWSL Source	Source for CGWSL value (see Table 3)
Dup	Duplicate sample
FD	Field duplicate sample
mg/L	Milligrams per Liter
WQCC Dom	NMED Groundwater standard for domestic exposure, 20.6.2.3103.B NMAC
WQCC HH	NMED Groundwater standard for human health exposure, 20.6.2.3103.A NMAC

Lab Footnote

B	Analyte was also detected in the associated method blank.
J	Indicates an estimated value.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
O1	The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.
P1	Relative percent difference value not applicable for sample concentrations less than 5 times the reporting limit.
Q	Sample was prepared and/or analyzed past recommended holding time.
V	The sample concentration is too high to evaluate accurate spike recoveries.

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Appendix B, Table B.6 - Summary of Groundwater Analytical Data - Semi-Volatile Organic Compounds

2021 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Semi-Volatile Organic Compounds																
				Analyte:	1,1'-Biphenyl	1,2,4-Trichlorobenzene	1,2-Dibromoethane	1,4-Dioxane	1-Methyl naphthalene	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Chloro-naphthalene	2-Chlorophenol	2-Methyl-naphthalene	2-Methylphenol	2-Nitroaniline	2-Nitrophenol
				CAS:	92-52-4	120-82-1	106-93-4	123-91-1	90-12-0	95-95-4	88-06-2	120-83-2	105-67-9	51-28-5	121-14-2	606-20-2	91-58-7	95-57-8	91-57-6	95-48-7	88-74-4	88-75-5
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL:	0.0371		0.0000500	0.00459	0.0300				0.354						0.0300			
Area	**Well ID**	**Date**	**Dup**																			
EP	MW-120	09/14/2021						<0.0000447														
Field East of Refinery	KWB-11A	04/02/2019					<0.00000240															
	KWB-11A	09/14/2021					<0.00000536	<0.0000447														
	KWB-11B	09/14/2021					<0.00000536	<0.0000447														
	MW-111	04/02/2019					<0.00000240															
	MW-113	04/02/2019					<0.00000240															
	MW-113	04/02/2019	FD				<0.00000240															
	MW-113	09/14/2021					<0.00000536	<0.0000447														
	MW-113	09/14/2021	FD				<0.00000536	<0.0000456														
	MW-126B	09/14/2021					<0.00000536	<0.0000447														
	MW-127	04/03/2019					<0.00000240															
	MW-134	09/15/2021						<0.0000447														
	MW-134	09/15/2021	FD					<0.0000447														
	MW-135	09/14/2021						<0.0000447														
	RA-4798	04/02/2019					<0.00000240															
	RA-4798	09/14/2021					<0.00000536	<0.0000447														
NCL	MW-45	09/15/2021						0.000239 J														
	MW-54A	09/14/2021						<0.0000447														
	MW-108	10/23/2019					<0.00000240															
	MW-108	09/14/2021					<0.00000536	<0.0000447														
	NCL-31	09/14/2021						<0.0000447														
	NCL-49	09/14/2021						<0.0000447														
	NCL-49	09/14/2021	FD					<0.0000447														
North Refinery	MW-23	04/03/2019		<0.00163	<0.00178				**0.0531**	<0.00118	<0.00148	<0.00142	<0.00312	<0.0163	<0.00825	<0.00140	<0.00165	<0.00141	<0.00156	<0.00156	<0.00950	<0.00160
	MW-23	10/23/2019		<0.00650	<0.00710				**0.0922**	<0.00472	<0.00594	<0.00568	<0.0125	<0.0650	<0.0330	<0.00558	<0.00660	<0.00566	<0.00622	<0.00624	<0.0380	<0.00640
	MW-29	09/15/2021						0.000826														
	MW-43	04/03/2019		0.00228 J	<0.000359				**0.0323**	<0.000238	<0.000300	<0.000287	0.00418 J	<0.00328	<0.00167	<0.000282	<0.000333	<0.000286	0.0232	<0.000315	<0.00192	<0.000323
	MW-43	10/23/2019		<0.00650	<0.00710				**0.0956**	<0.00472	<0.00594	<0.00568	<0.0125	<0.0650	<0.0330	<0.00558	<0.00660	<0.00566	**0.0603**	<0.00624	<0.0380	<0.00640
	MW-60	04/02/2019				<0.00000240																
	MW-60	04/02/2019	FD			<0.00000240																
	MW-61	04/03/2019		0.00315 J	<0.000355				**0.0722**	<0.000236	<0.000297	<0.000284	<0.000624	<0.00325	<0.00165	<0.000279	<0.000330	<0.000283	0.0119	<0.000312	<0.00190	<0.000320
	MW-61	10/23/2019		<0.000325	<0.000355				**0.0902**	<0.000236	<0.000297	<0.000284	<0.000624	<0.00325	<0.00165	<0.000279	<0.000330	<0.000283	0.0163	<0.000312	<0.00190	<0.000320
	MW-61	09/14/2021		0.00362 J	<0.0000698			<0.0000447	**0.0631**	<0.000109	<0.000100	<0.000102	<0.0000636	<0.00593	<0.0000983	<0.000250	<0.0000648	<0.000133	0.0245	<0.0000929	<0.000102	<0.000117
	MW-62	04/03/2019		0.00389 J	<0.000355				**0.0628**	<0.000236	<0.000297	<0.000284	<0.000624	<0.00325	<0.00165	<0.000279	<0.000330	<0.000283	**0.0320**	<0.000312	<0.00190	<0.000320
	MW-62	10/23/2019		0.00865 J	<0.00710				**0.144**	<0.00472	<0.00594	<0.00568	<0.0125	<0.0650	<0.0330	<0.00558	<0.00660	<0.00566	**0.0581**	<0.00624	<0.0380	<0.00640
	MW-62	09/14/2021		0.00677 J	<0.000349	<0.00000536		0.000237 J	**0.0984**	<0.000545	<0.000500	<0.000510	0.0252 J	<0.0297	<0.000491	<0.00125	<0.000324	<0.000665	**0.0537**	<0.000465	<0.000510	<0.000585
	MW-90	09/14/2021						<0.0000447														
	MW-93	04/03/2019		0.00229 J	<0.000355				**0.0313**	<0.000236	<0.000297	<0.000284	0.0173	<0.00325	<0.00165	<0.000279	<0.000330	<0.000283	0.00507	0.0979	<0.00190	<0.000320
	MW-93	06/17/2020		<0.00395	<0.000349				**0.0340**	<0.000545	<0.000500	<0.000510	0.0157 J	<0.0297	<0.000491	<0.00125	<0.000324	<0.000665	<0.000585	<0.000465	<0.000510	<0.000585
	MW-95	04/03/2019		<0.000325	<0.000355				<0.000332	<0.000236	<0.000297	<0.000284	<0.000624	<0.00325	<0.00165	<0.000279	<0.000330	<0.000283	<0.000311	<0.000312	<0.00190	<0.000320
	MW-95	06/16/2020		<0.00188	<0.000166				<0.000188	<0.000259	<0.000238	<0.000243	<0.000151	<0.0141	<0.000234	<0.000595	<0.000154	<0.000317	<0.000278	<0.000221	<0.000243	<0.000278
	MW-137	04/03/2019		<0.00650	<0.00710				**0.0480**	<0.00472	<0.00594	<0.00568	<0.0125	<0.0650	<0.0330	<0.00558	<0.00660	<0.00566	**0.0474**	<0.00624	<0.0380	<0.00640
	MW-138	04/03/2019		<0.000325	<0.000355				0.00549	<0.000236	<0.000297	<0.000284	<0.000624	<0.00325	<0.00165	<0.000279	<0.000330	<0.000283	0.00356	<0.000312	<0.00190	<0.000320
NRO	MW-117	09/14/2021						<0.0000447														
South Refinery	MW-50	09/14/2021					<0.00000536	<0.0000447														
	MW-101	09/15/2021						0.000575														
	MW-102	10/23/2019					<0.00000245															
	MW-102	09/14/2021					<0.00000536	<0.0000447														
	MW-102	09/14/2021	FD				<0.00000536	<0.0000447														
	MW-104	09/14/2021						<0.0000447														
	MW-109	09/15/2021						<0.0000447														
	MW-110	09/15/2021						<0.0000447														
	MW-139	09/14/2021						<0.0000447														
SRO	MW-114	09/14/2021					<0.00000536	<0.0000447														
TEL	TEL-4	04/02/2019		<0.000325	<0.000355				0.00498	<0.000236	<0.000297	<0.000284	<0.000624	<0.00325	<0.00165	<0.000279	<0.000330	<0.000283	<0.000311	<0.000312	<0.00190	<0.000320
	TEL-4	04/02/2019	FD	<0.000325	<0.000355				0.00531	<0.000236	<0.000297	<0.000284	<0.000624	<0.00325	<0.00165	<0.000279	<0.000330	<0.000283	<0.000311	<0.000312	<0.00190	<0.000320
	TEL-4	10/22/2019		<0.000325	<0.000355				0.00275	<0.000236	<0.000297	<0.000284	<0.000624	<0.00325	<0.00165	<0.000279	<0.000330	<0.000283	<0.000311	<0.000312	<0.00190	<0.000320
	TEL-4	10/22/2019	FD	<0.000325	<0.000355				0.00300	<0.000236	<0.000297	<0.000284	<0.000624	<0.00325	<0.00165	<0.000279	<0.000330	<0.000283	<0.000311	<0.000312	<0.00190	<0.000320
	TEL-4	09/14/2021						0.000499														
	TEL-4	09/14/2021	FD					0.000558														
	MW-49	09/15/2021						0.000415	.													
Three Mile Ditch	MW-21	09/15/2021						<0.0000447														
	NP-1	04/03/2019				<0.00000240																
	NP-1	09/15/2021				<0.00000536		0.000228 J														

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Appendix B, Table B.6 - Summary of Groundwater Analytical Data - Semi-Volatile Organic Compounds

2021 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Semi-Volatile Organic Compounds																
				Analyte:	3- & 4-Methylphenol (m,p-Cresol)	3,3'-Dichloro-benzidine	3-Nitroaniline	4,6-Dinitro-2-methylphenol	4-Bromophenyl phenyl ether	4-Chloro-3-methylphenol	4-Chloroaniline	4-Chlorophenyl phenyl ether	4-Nitroaniline	4-Nitrophenol	Acenaphthene	Acenaphthylene	Acetophenone	Anthracene	Atrazine	Benzaldehyde	Benzo(a) anthracene	Benzo(a)pyrene
				CAS:	65794-96-9	91-94-1	99-09-2	534-52-1	101-55-3	59-50-7	106-47-8	7005-72-3	100-01-6	100-02-7	83-32-9	208-96-8	98-86-2	120-12-7	1912-24-9	100-52-7	56-55-3	50-32-8
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL:											0.535			1.72	0.00300			0.000200
Area	**Well ID**	**Date**	**Dup**																			
EP	MW-120	09/14/2021																				
Field East of Refinery	KWB-11A	04/02/2019																				
	KWB-11A	09/14/2021																				
	KWB-11B	09/14/2021																				
	MW-111	04/02/2019																				
	MW-113	04/02/2019																				
	MW-113	04/02/2019	FD																			
	MW-113	09/14/2021																				
	MW-113	09/14/2021	FD																			
	MW-126B	09/14/2021																				
	MW-127	04/03/2019																				
	MW-134	09/15/2021																				
	MW-134	09/15/2021	FD																			
	MW-135	09/14/2021																				
	RA-4798	04/02/2019																				
	RA-4798	09/14/2021																				
NCL	MW-45	09/15/2021																				
	MW-54A	09/14/2021																				
	MW-108	10/23/2019																				
	MW-108	09/14/2021																				
	NCL-31	09/14/2021																				
	NCL-49	09/14/2021																				
	NCL-49	09/14/2021	FD																			
North Refinery	MW-23	04/03/2019				<0.0101	<0.00154	<0.0131	<0.00168	<0.00132	<0.00191	<0.00152	<0.00174	<0.0101	<0.00158	<0.00154	<0.0123	<0.00146	0.00173 J	<0.00700	<0.000255	<0.000191
	MW-23	10/23/2019				<0.0404	<0.00616	<0.0524	<0.00670	<0.00526	<0.00764	<0.00606	<0.00698	<0.0402	<0.00632	<0.00618	<0.0494	<0.00582	**<0.00520**	<0.0280	<0.00102	**<0.000762**
	MW-29	09/15/2021																				
	MW-43	04/03/2019				<0.00204	<0.000311	<0.00265	<0.000338	<0.000266	<0.000386	<0.000306	<0.000352	<0.00203	0.000872 J	<0.000312	<0.00249	<0.000294	0.000347 J	<0.00141	<0.0000515	<0.0000385
	MW-43	10/23/2019				<0.0404	<0.00616	<0.0524	<0.00670	<0.00526	<0.00764	<0.00606	<0.00698	<0.0402	<0.00632	<0.00618	<0.0494	<0.00582	**<0.00520**	<0.0280	<0.00102	**<0.000762**
	MW-60	04/02/2019																				
	MW-60	04/02/2019	FD																			
	MW-61	04/03/2019				<0.00202	<0.000308	<0.00262	<0.000335	<0.000263	<0.000382	<0.000303	<0.000349	<0.00201	0.000667 J	<0.000309	<0.00247	<0.000291	<0.000260	<0.00140	<0.0000510	<0.0000381
	MW-61	10/23/2019				<0.00202	<0.000308	<0.00262	<0.000335	<0.000263	<0.000382	<0.000303	<0.000349	<0.00201	0.000689 J	<0.000309	<0.00247	<0.000291	<0.000260	<0.00140	<0.0000510	<0.0000381
	MW-61	09/14/2021				<0.000212	<0.0000869	<0.00112	<0.0000877	<0.000131	<0.000234	<0.0000926	<0.0000910	<0.000143	0.000700 J	<0.0000921	<0.000208	<0.0000804	<0.000255	<0.00169 J4	<0.000199	<0.0000381
	MW-62	04/03/2019				<0.00202	<0.000308	<0.00262	<0.000335	<0.000263	<0.000382	<0.000303	<0.000349	<0.00201	0.00134	<0.000309	<0.00247	<0.000291	<0.000260	<0.00140	<0.0000510	<0.0000381
	MW-62	10/23/2019				<0.0404	<0.00616	<0.0524	<0.00670	<0.00526	<0.00764	<0.00606	<0.00698	<0.0402	<0.00632	<0.00618	<0.0494	<0.00582	**<0.00520**	<0.0280	<0.00102	**<0.000762**
	MW-62	09/14/2021				<0.00106	<0.000435	<0.00560	<0.000439	<0.000655	<0.00117	<0.000463	<0.000455	<0.000715	0.00161 J	<0.000461	<0.00104	<0.000402	<0.00128	<0.00845 J4	<0.000995	<0.000191
	MW-90	09/14/2021																				
	MW-93	04/03/2019				<0.00202	<0.000308	<0.00262	<0.000335	<0.000263	<0.000382	<0.000303	<0.000349	<0.00201	0.00176	<0.000309	<0.00247	0.00179	<0.000260	<0.00140	<0.0000510	<0.0000381
	MW-93	06/17/2020				<0.00106	<0.000435	<0.00560	<0.000439	<0.000655	<0.00117	<0.000463	<0.000455	<0.000715	0.00190 J	<0.000461	<0.00104	0.00137 J	<0.00128	<0.00845 J4	<0.000995	<0.000191
	MW-95	04/03/2019				<0.00202	<0.000308	<0.00262	<0.000335	<0.000263	<0.000382	<0.000303	<0.000349	<0.00201	0.000508 J	<0.000309	<0.00247	<0.000291	0.00126 J	<0.00140	<0.0000510	<0.0000381
	MW-95	06/16/2020				<0.000505	<0.000207	<0.00267	<0.000209	<0.000312	<0.000557	<0.000220	<0.000217	<0.000340	0.000679 J	<0.000219	<0.000495	<0.000191	<0.000607	<0.00402 J4	<0.000474	<0.0000907
	MW-137	04/03/2019				<0.0404	<0.00616	<0.0524	<0.00670	<0.00526	<0.00764	<0.00606	<0.00698	<0.0402	<0.00632	<0.00618	<0.0494	<0.00582	**<0.00520**	<0.0280	<0.00102	**<0.000762**
	MW-138	04/03/2019				<0.00202	<0.000308	<0.00262	<0.000335	<0.000263	<0.000382	<0.000303	<0.000349	<0.00201	0.000968 J	<0.000309	<0.00247	<0.000291	0.000420 J	<0.00140	<0.0000510	<0.0000381
NRO	MW-117	09/14/2021																				
South Refinery	MW-50	09/14/2021																				
	MW-101	09/15/2021																				
	MW-102	10/23/2019																				
	MW-102	09/14/2021																				
	MW-102	09/14/2021	FD																			
	MW-104	09/14/2021																				
	MW-109	09/15/2021																				
	MW-110	09/15/2021																				
	MW-139	09/14/2021																				
SRO	MW-114	09/14/2021																				
TEL	TEL-4	04/02/2019				<0.00202	<0.000308	<0.00262	<0.000335	<0.000263	<0.000382	<0.000303	<0.000349	<0.00201	0.000493 J	<0.000309	<0.00247	<0.000291	<0.000260	<0.00140	<0.0000510	0.000119 JB
	TEL-4	04/02/2019	FD			<0.00202	<0.000308	<0.00262	<0.000335	<0.000263	<0.000382	<0.000303	<0.000349	<0.00201	0.000532 J	<0.000309	<0.00247	<0.000291	<0.000260	<0.00140	<0.0000510	<0.0000381
	TEL-4	10/22/2019				<0.00202	<0.000308	<0.00262	<0.000335	<0.000263	<0.000382	<0.000303	<0.000349	<0.00201	0.000378 J	<0.000309	<0.00247	<0.000291	0.000434 J	<0.00140	<0.0000510	<0.0000381
	TEL-4	10/22/2019	FD			<0.00202	<0.000308	<0.00262	<0.000335	<0.000263	<0.000382	<0.000303	<0.000349	<0.00201	0.000465 J	<0.000309	<0.00247	<0.000291	0.000340 J	<0.00140	<0.0000510	<0.0000381
	TEL-4	09/14/2021																				
	TEL-4	09/14/2021	FD																			
	MW-49	09/15/2021																				
Three Mile Ditch	MW-21	09/15/2021																				
	NP-1	04/03/2019																				
	NP-1	09/15/2021																				

Appendix B, Table B.6 - Summary of Groundwater Analytical Data - Semi-Volatile Organic Compounds

2021 Annual Groundwater Monitoring Report
HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Semi-Volatile Organic Compounds																
				Analyte:	Benzo(b) fluoranthene	Benzo(g,h,i) perylene	Benzo(k) fluoranthene	Bis(2-chloroethoxy) methane	Bis(2-chloroethyl) ether	Bis(2-chloroisopropyl)ether	Bis(2-ethylhexyl) phthalate	Butylbenzyl-phthalate	Caprolactam	Carbazole	Chrysene	Dibenz(a,h) anthracene	Dibenzofuran	Diethyl phthalate	Dimethyl-phthalate	Di-n-butylphthalate	Di-n-octylphthalate	Fluoranthene
				CAS:	205-99-2	191-24-2	207-08-9	111-91-1	111-44-4	108-60-1	117-81-7	85-68-7	105-60-2	86-74-8	218-01-9	53-70-3	132-64-9	84-66-2	131-11-3	84-74-2	117-84-0	206-44-0
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL:							0.00600	0.0160					0.00790	14.8		0.885		0.802
Area	**Well ID**	**Date**	**Dup**																			
E P	MW-120	09/14/2021																			
Field East of Refinery	KWB-11A	04/02/2019																			
	KWB-11A	09/14/2021																			
	KWB-11B	09/14/2021																			
	MW-111	04/02/2019																			
	MW-113	04/02/2019																			
	MW-113	04/02/2019	FD																		
	MW-113	09/14/2021																			
	MW-113	09/14/2021	FD																		
	MW-126B	09/14/2021																			
	MW-127	04/03/2019																			
	MW-134	09/15/2021																			
	MW-134	09/15/2021	FD																		
	MW-135	09/14/2021																			
	RA-4798	04/02/2019																			
	RA-4798	09/14/2021																			
NCL	MW-45	09/15/2021																			
	MW-54A	09/14/2021																			
	MW-108	10/23/2019																			
	MW-108	09/14/2021																			
	NCL-31	09/14/2021																			
	NCL-49	09/14/2021																			
	NCL-49	09/14/2021	FD																		
North Refinery	MW-23	04/03/2019		<0.000448	<0.0000113	<0.00178	<0.00164	<0.00810	<0.00222	0.00460 J	<0.00138	<0.0130	0.0132 J	<0.00166	<0.000322	0.00394 J	<0.00141	<0.00141	<0.00133	<0.00139	<0.00155
	MW-23	10/23/2019		<0.00179	<0.0000454	<0.00710	<0.00658	<0.0324	<0.00890	**<0.0142**	<0.00550	<0.0518	0.0251 J	<0.00664	<0.00129	**0.00924 J**	<0.00564	<0.00566	<0.00532	<0.00556	<0.00620
	MW-29	09/15/2021																			
	MW-43	04/03/2019		<0.0000905	<0.00000229	<0.000359	<0.000332	<0.00164	<0.000449	0.000920 J	0.00115 J	<0.00262	0.00772 J	<0.000335	<0.0000650	0.00192 J	<0.000285	<0.000286	<0.000269	<0.000281	<0.000313
	MW-43	10/23/2019		<0.00179	<0.0000454	<0.00710	<0.00658	<0.0324	<0.00890	**<0.0142**	<0.00550	<0.0518	0.0145 J	<0.00664	<0.00129	<0.00676	<0.00564	<0.00566	<0.00532	<0.00556	<0.00620
	MW-60	04/02/2019																			
	MW-60	04/02/2019	FD																		
	MW-61	04/03/2019		<0.0000896	<0.00000227	<0.000355	<0.000329	<0.00162	<0.000445	**0.00818**	<0.000275	<0.00259	0.00142 J	<0.000332	<0.0000644	0.00293 J	<0.000282	<0.000283	<0.000266	<0.000278	<0.000310
	MW-61	10/23/2019		<0.0000896	0.00000240 J	<0.000355	<0.000329	<0.00162	<0.000445	0.00187 J	<0.000275	<0.00259	0.00127 J	<0.000332	<0.0000644	0.00398 J	<0.000282	<0.000283	<0.000266	<0.000278	<0.000310
	MW-61	09/14/2021		<0.000130	<0.000121	<0.000120	<0.000116	<0.000137	<0.000210	**0.00884**	<0.000765	<0.000309	0.00145 J	<0.000130	<0.0000644	0.00276 J	<0.000287	<0.000260	<0.000453	<0.000932	<0.000102
	MW-62	04/03/2019		<0.0000896	<0.00000227	<0.000355	<0.000329	<0.00162	<0.000445	0.00168 J	<0.000275	<0.00259	0.00472 J	<0.000332	<0.0000644	0.00458 J	<0.000282	<0.000283	<0.000266	<0.000278	<0.000310
	MW-62	10/23/2019		<0.00179	<0.0000454	<0.00710	<0.00658	<0.0324	<0.00890	**<0.0142**	<0.00550	<0.0518	0.0103 J	<0.00664	<0.00129	**0.0128 J**	<0.00564	<0.00566	<0.00532	<0.00556	<0.00620
	MW-62	09/14/2021		<0.000650	<0.000605	<0.000600	<0.000580	<0.000685	<0.00105	<0.00448	<0.00383	<0.00154	0.00470 J	<0.000650	<0.000322	0.00575 J	<0.00143	<0.00130	<0.00227	<0.00466	<0.000510
	MW-90	09/14/2021																			
	MW-93	04/03/2019		<0.0000896	<0.00000227	<0.000355	<0.000329	<0.00162	<0.000445	0.00129 J	<0.000275	<0.00259	0.0257	<0.000332	<0.0000644	0.00397 J	<0.000282	<0.000283	<0.000266	<0.000278	0.000373 J
	MW-93	06/17/2020		<0.000650	<0.000605	<0.000600	<0.000580	<0.000685	<0.00105	<0.00448	<0.00383	<0.00154	0.0264 J	<0.000650	<0.000322	0.00396 J	<0.00143	<0.00130	<0.00227	<0.00466	<0.000510
	MW-95	04/03/2019		<0.0000896	<0.00000227	<0.000355	<0.000329	<0.00162	<0.000445	0.000850 J	<0.000275	<0.00259	<0.000260	<0.000332	<0.0000644	0.00173 J	<0.000282	<0.000283	<0.000266	<0.000278	<0.000310
	MW-95	06/16/2020		<0.000309	<0.000288	<0.000286	<0.000276	<0.000326	<0.000500	<0.00213	<0.00182	<0.000735	<0.000264	<0.000309	<0.000153	0.00259 J	<0.000683	<0.000619	<0.00108	<0.00222	<0.000243
	MW-137	04/03/2019		<0.00179	<0.0000454	<0.00710	<0.00658	<0.0324	<0.00890	**<0.0142**	<0.00550	<0.0518	<0.00520	<0.00664	<0.00129	<0.00676	0.00635 J	<0.00566	<0.00532	<0.00556	<0.00620
	MW-138	04/03/2019		<0.0000896	<0.00000227	<0.000355	<0.000329	<0.00162	<0.000445	<0.000709	<0.000275	<0.00259	0.000643 J	<0.000332	<0.0000644	0.000611 J	<0.000282	<0.000283	<0.000266	<0.000278	<0.000310
N R O	MW-117	09/14/2021																			
South Refinery	MW-50	09/14/2021																			
	MW-101	09/15/2021																			
	MW-102	10/23/2019																			
	MW-102	09/14/2021																			
	MW-102	09/14/2021	FD																		
	MW-104	09/14/2021																			
	MW-109	09/15/2021																			
	MW-110	09/15/2021																			
	MW-139	09/14/2021																			
S R O	MW-114	09/14/2021																			
TEL	TEL-4	04/02/2019		<0.0000896	<0.00000227	<0.000355	<0.000329	<0.00162	<0.000445	**0.0641**	<0.000275	<0.00259	<0.000260	<0.000332	<0.0000644	0.00177 J	<0.000282	<0.000283	0.000273 J	<0.000278	<0.000310
	TEL-4	04/02/2019	FD	<0.0000896	<0.00000227	<0.000355	<0.000329	<0.00162	<0.000445	0.000835 J	<0.000275	<0.00259	<0.000260	<0.000332	<0.0000644	0.00205 J	<0.000282	<0.000283	0.000267 J	<0.000278	<0.000310
	TEL-4	10/22/2019		<0.0000896	<0.00000227	<0.000355	<0.000329	<0.00162	<0.000445	0.00120 J	<0.000275	<0.00259	0.000400 J	<0.000332	<0.0000644	0.00161 J	<0.000282	<0.000283	0.000312 J	<0.000278	<0.000310
	TEL-4	10/22/2019	FD	<0.0000896	<0.00000227	<0.000355	<0.000329	<0.00162	<0.000445	0.00146 J	<0.000275	<0.00259	0.000289 J	<0.000332	<0.0000644	0.00169 J	<0.000282	<0.000283	0.000278 J	<0.000278	<0.000310
	TEL-4	09/14/2021																			
	TEL-4	09/14/2021	FD																		
	MW-49	09/15/2021																			
Three Mile Ditch	MW-21	09/15/2021																			
	NP-1	04/03/2019																			
	NP-1	09/15/2021																			

Appendix B, Table B.6 - Summary of Groundwater Analytical Data - Semi-Volatile Organic Compounds

2021 Annual Groundwater Monitoring Report
HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

Area	Well ID	Date	Dup	Analyte Group:	Semi-Volatile Organic Compounds														
				Analyte:	Fluorene	Hexachloro-benzene	Hexachloro-butadiene	Hexachloro-cyclopentadiene	Hexachloro-ethane	Indeno(1,2,3-cd)pyrene	Isophorone	Naphthalene	Nitrobenzene	n-Nitroso-di-n-propylamine	N-Nitro-sodi-phenylamine	Pentachloro-phenol	Phenanthrene	Phenol	Pyrene
				CAS:	86-73-7	118-74-1	87-68-3	77-47-4	67-72-1	193-39-5	78-59-1	91-20-3	98-95-3	621-64-7	86-30-6	87-86-5	85-01-8	108-95-2	129-00-0
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL:	0.288							0.0300					0.117	0.00500	0.117
E P	MW-120	09/14/2021																	
Field East of Refinery	KWB-11A	04/02/2019																	
	KWB-11A	09/14/2021																	
	KWB-11B	09/14/2021																	
	MW-111	04/02/2019																	
	MW-113	04/02/2019																	
	MW-113	04/02/2019	FD																
	MW-113	09/14/2021																	
	MW-113	09/14/2021	FD																
	MW-126B	09/14/2021																	
	MW-127	04/03/2019																	
	MW-134	09/15/2021																	
	MW-134	09/15/2021	FD																
	MW-135	09/14/2021																	
	RA-4798	04/02/2019																	
	RA-4798	09/14/2021																	
NCL	MW-45	09/15/2021																	
	MW-54A	09/14/2021																	
	MW-108	10/23/2019																	
	MW-108	09/14/2021																	
	NCL-31	09/14/2021																	
	NCL-49	09/14/2021																	
	NCL-49	09/14/2021	FD																
North Refinery	MW-23	04/03/2019			0.00472 J	<0.00170	<0.00164	<0.0117	<0.00183	<0.00140	<0.00136	**0.0450**	<0.00184	<0.00201	<0.00595	<0.00157	0.00788	**0.0133 J**	<0.00165
	MW-23	10/23/2019			0.0112 J	<0.00682	<0.00658	<0.0466	<0.00730	<0.00558	<0.00544	0.0262	<0.00734	<0.00806	<0.0238	<0.00626	0.0146 J	**0.0166 J**	<0.00660
	MW-29	09/15/2021																	
	MW-43	04/03/2019			0.00264	<0.000344	<0.000332	<0.00235	<0.000369	<0.000282	<0.000275	**0.0749**	<0.000371	<0.000407	<0.00120	<0.000316	0.00224	**0.00703 J**	<0.000333
	MW-43	10/23/2019			0.00946 J	<0.00682	<0.00658	<0.0466	<0.00730	<0.00558	<0.00544	**0.249**	<0.00734	<0.00806	<0.0238	<0.00626	0.00892 J	<0.00668	<0.00660
	MW-60	04/02/2019																	
	MW-60	04/02/2019	FD																
	MW-61	04/03/2019			0.00193	<0.000341	<0.000329	<0.00233	<0.000365	<0.000279	<0.000272	**0.0701**	<0.000367	<0.000403	<0.00119	<0.000313	0.00126	0.00457 J	<0.000330
	MW-61	10/23/2019			0.00285	<0.000341	<0.000329	<0.00233	<0.000365	<0.000279	<0.000272	**0.0831**	<0.000367	<0.000403	<0.00119	<0.000313	0.00146	0.00164 J	<0.000330
	MW-61	09/14/2021			0.00187	<0.0000755	<0.0000968	<0.0000598	<0.000127	<0.000279	<0.000143	**0.0894**	<0.000297	<0.000261	<0.00237	<0.000313	0.00132	<0.00433	<0.000107
	MW-62	04/03/2019			0.00221	<0.000341	<0.000329	<0.00233	<0.000365	<0.000279	<0.000272	**0.0861**	<0.000367	<0.000403	<0.00119	<0.000313	0.00191	<0.000334	<0.000330
	MW-62	10/23/2019			0.00862 J	<0.00682	<0.00658	<0.0466	<0.00730	<0.00558	<0.00544	**0.168**	<0.00734	<0.00806	<0.0238	<0.00626	<0.00732	<0.00668	<0.00660
	MW-62	09/14/2021			0.00375 J	<0.000378	<0.000484	<0.000299	<0.000635	<0.00140	<0.000715	**0.157**	<0.00148	<0.00131	<0.0119	<0.00157	0.00194 J	<0.0217	<0.000535
	MW-90	09/14/2021																	
	MW-93	04/03/2019			0.00784	<0.000341	<0.000329	<0.00233	<0.000365	<0.000279	<0.000272	**0.0307**	<0.000367	<0.000403	<0.00119	<0.000313	0.0119	0.00492 J	0.000570 J
	MW-93	06/17/2020			0.00813	<0.000378	<0.000484	<0.000299	<0.000635	<0.00140	<0.000715	0.0298	<0.00148	<0.00131	<0.0119	<0.00157	0.0132	<0.0217	0.000746 J
	MW-95	04/03/2019			<0.000323	<0.000341	<0.000329	<0.00233	<0.000365	<0.000279	<0.000272	<0.000372	<0.000367	<0.000403	<0.00119	<0.000313	<0.000366	0.00279 J	<0.000330
	MW-95	06/16/2020			<0.000201	<0.000180	<0.000230	<0.000142	<0.000302	<0.000664	<0.000340	0.00115 JB	<0.000707	<0.000621	<0.00564	<0.000745	<0.000267	<0.0103	<0.000255
	MW-137	04/03/2019			<0.00646	<0.00682	<0.00658	<0.0466	<0.00730	<0.00558	<0.00544	**0.116**	<0.00734	<0.00806	<0.0238	<0.00626	<0.00732	<0.00668	<0.00660
	MW-138	04/03/2019			0.00138	<0.000341	<0.000329	<0.00233	<0.000365	<0.000279	<0.000272	0.0117	<0.000367	<0.000403	<0.00119	<0.000313	0.000583 J	0.00288 J	<0.000330
N R O	MW-117	09/14/2021																	
South Refinery	MW-50	09/14/2021																	
	MW-101	09/15/2021																	
	MW-102	10/23/2019																	
	MW-102	09/14/2021																	
	MW-102	09/14/2021	FD																
	MW-104	09/14/2021																	
	MW-109	09/15/2021																	
	MW-110	09/15/2021																	
	MW-139	09/14/2021																	
S R O	MW-114	09/14/2021																	
TEL	TEL-4	04/02/2019			0.00118	<0.000341	<0.000329	<0.00233	<0.000365	<0.000279	<0.000272	<0.000372	<0.000367	<0.000403	<0.00119	<0.000313	<0.000366	0.00150 J	<0.000330
	TEL-4	04/02/2019	FD		0.00106	<0.000341	<0.000329	<0.00233	<0.000365	<0.000279	<0.000272	<0.000372	<0.000367	<0.000403	<0.00119	<0.000313	<0.000366	0.00177 J	<0.000330
	TEL-4	10/22/2019			0.000570 J	<0.000341	<0.000329	<0.00233	<0.000365	<0.000279	<0.000272	0.000383 J	<0.000367	<0.000403	<0.00119	<0.000313	<0.000366	0.000961 J	<0.000330
	TEL-4	10/22/2019	FD		0.000676 J	<0.000341	<0.000329	<0.00233	<0.000365	<0.000279	<0.000272	0.000395 J	<0.000367	<0.000403	<0.00119	<0.000313	<0.000366	0.00146 J	<0.000330
	TEL-4	09/14/2021																	
	TEL-4	09/14/2021	FD																
	MW-49	09/15/2021																	

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Appendix B, Table B.6 - Summary of Groundwater Analytical Data - Semi-Volatile Organic Compounds

2021 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

Three Mile Ditch	MW-21	09/15/2021																
	NP-1	04/03/2019																
	NP-1	09/15/2021																

Definitions

X	Reported concentration, X, exceeds the CGWSL.
X	Analyte detected above the detection limit at a concentration equal to X.
<x	Analyte not detected at detection limit equal to x.
<x	Analyte not detected at detection limit equal to x, but x exceeds the CGWSL.
	Blank cell indicates a sample was collected from the well during the indicated sampling event, but the analyte was not analyzed.

Lab Footnote

B	Analyte was also detected in the associated method blank.
J	Indicates an estimated value.

Abbreviations

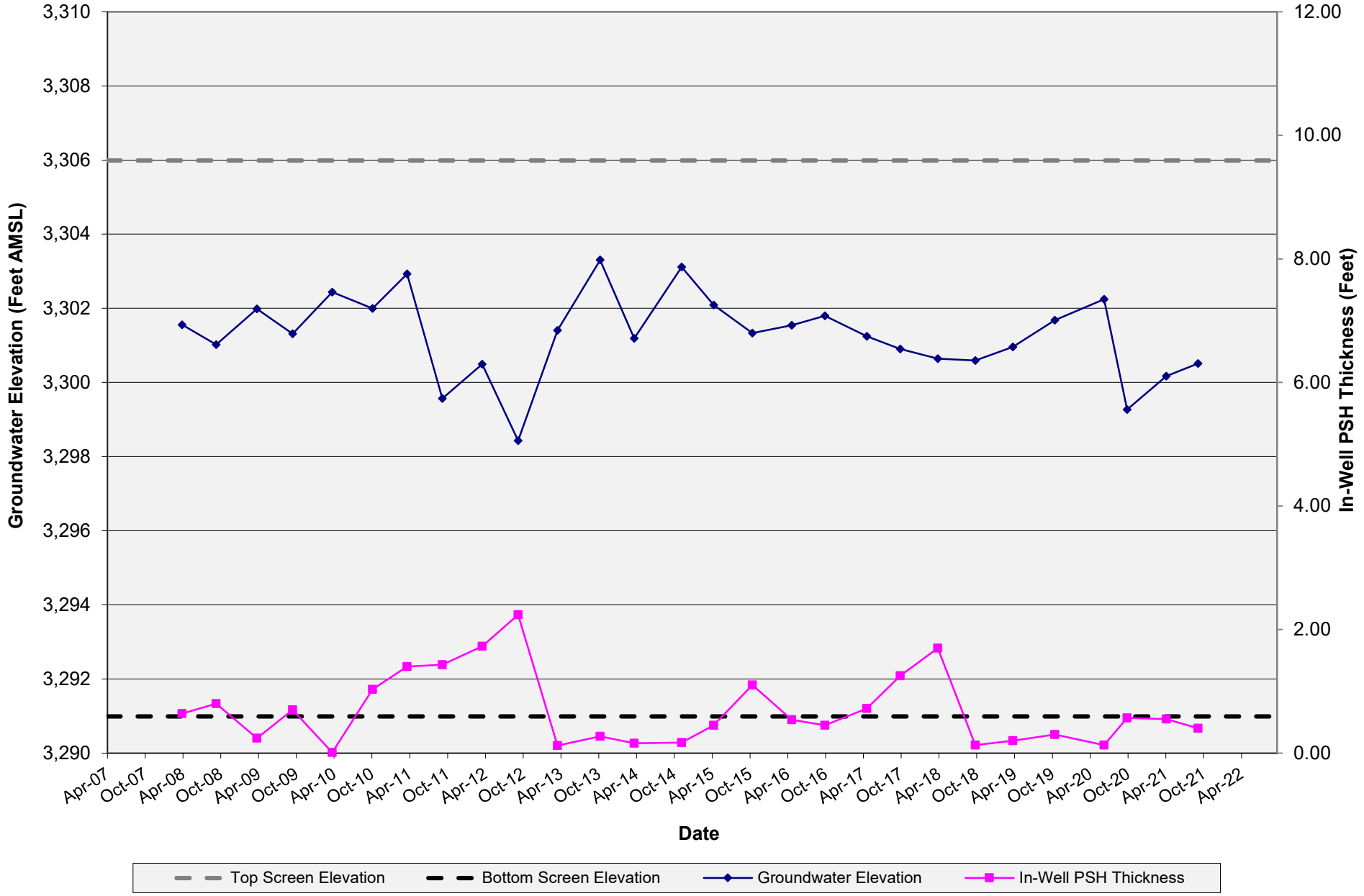
CGWSL	Critical Groundwater Screening Level (see Table 3)
EP	Evaporation Pond
NRO	North RO Field
SRO	South RO Field
Dup	Duplicate sample
FD	Field duplicate sample
mg/L	Milligrams per Liter

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MW-85: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

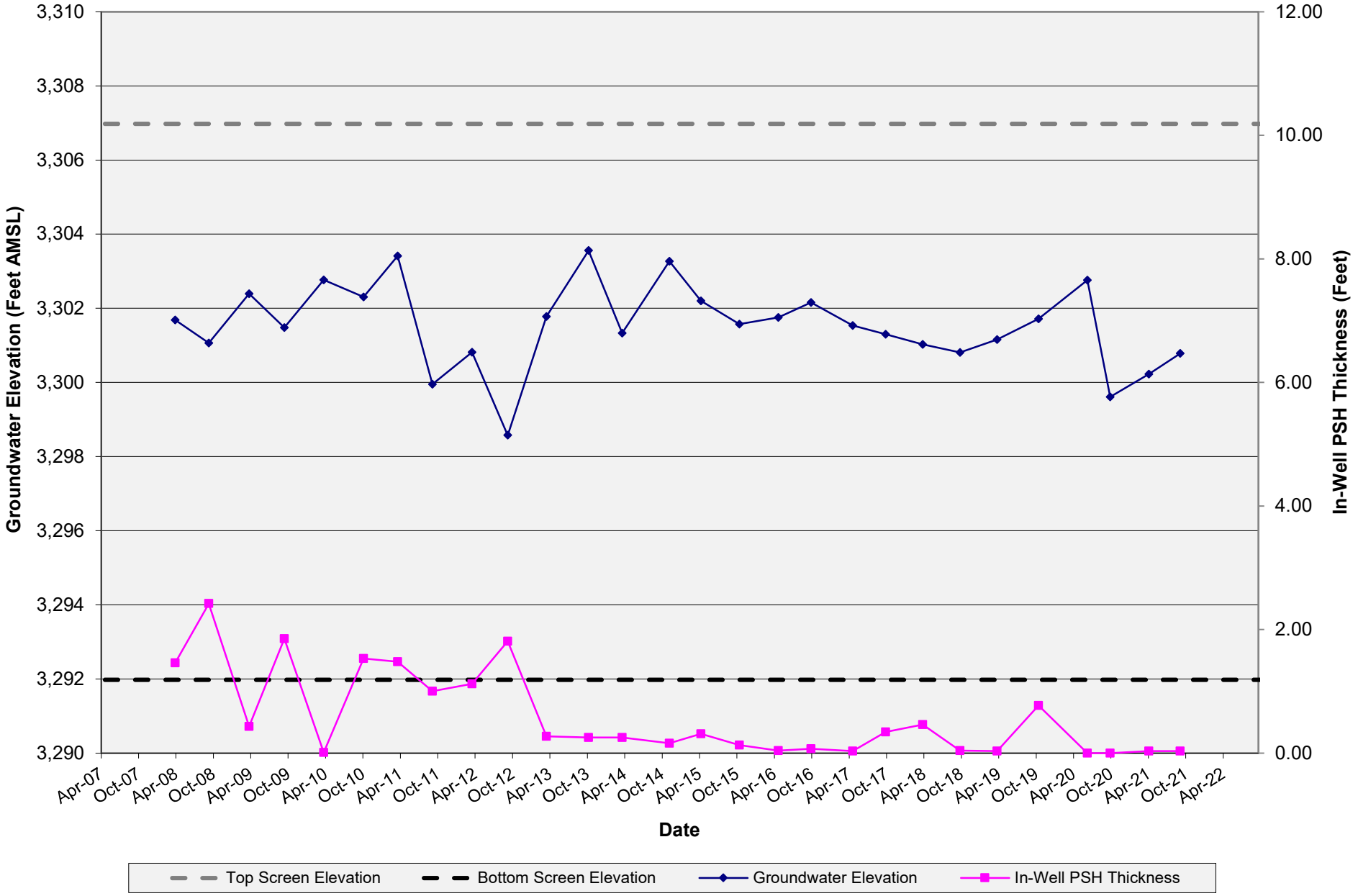
Evaporation Ponds



MW-86: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

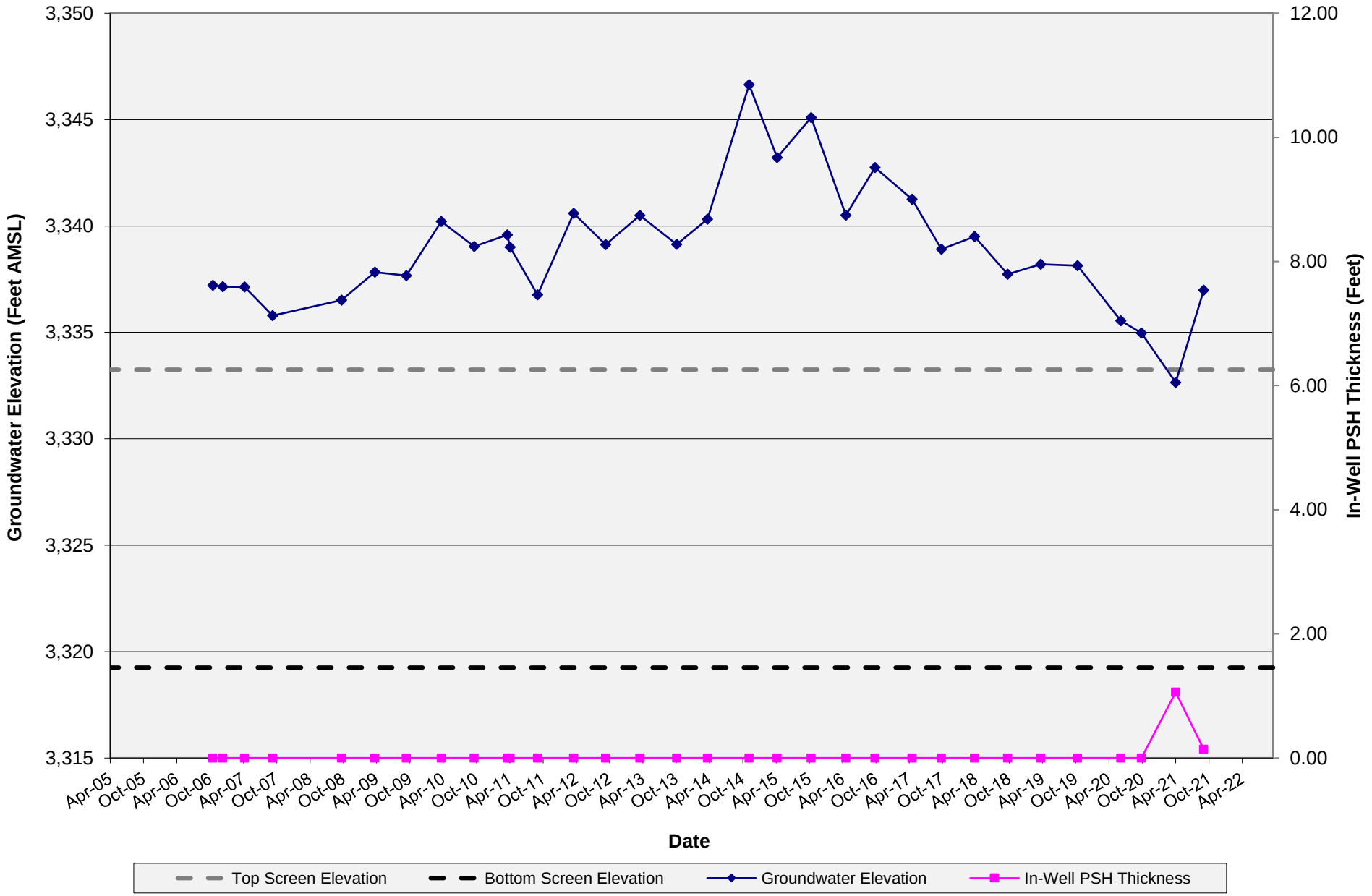
Evaporation Ponds



KWB-1A: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

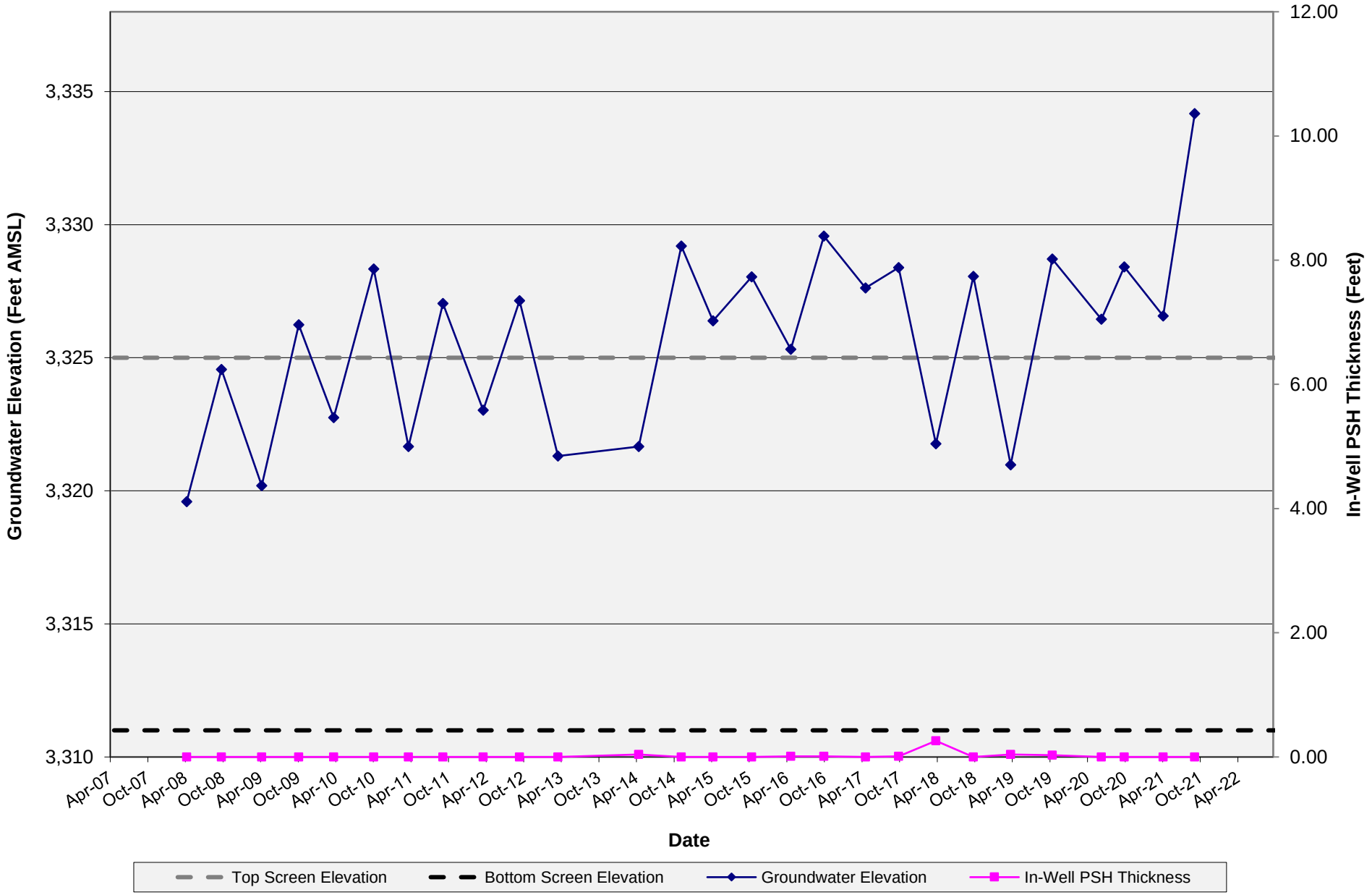
Field East of Refinery



KWB-7: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

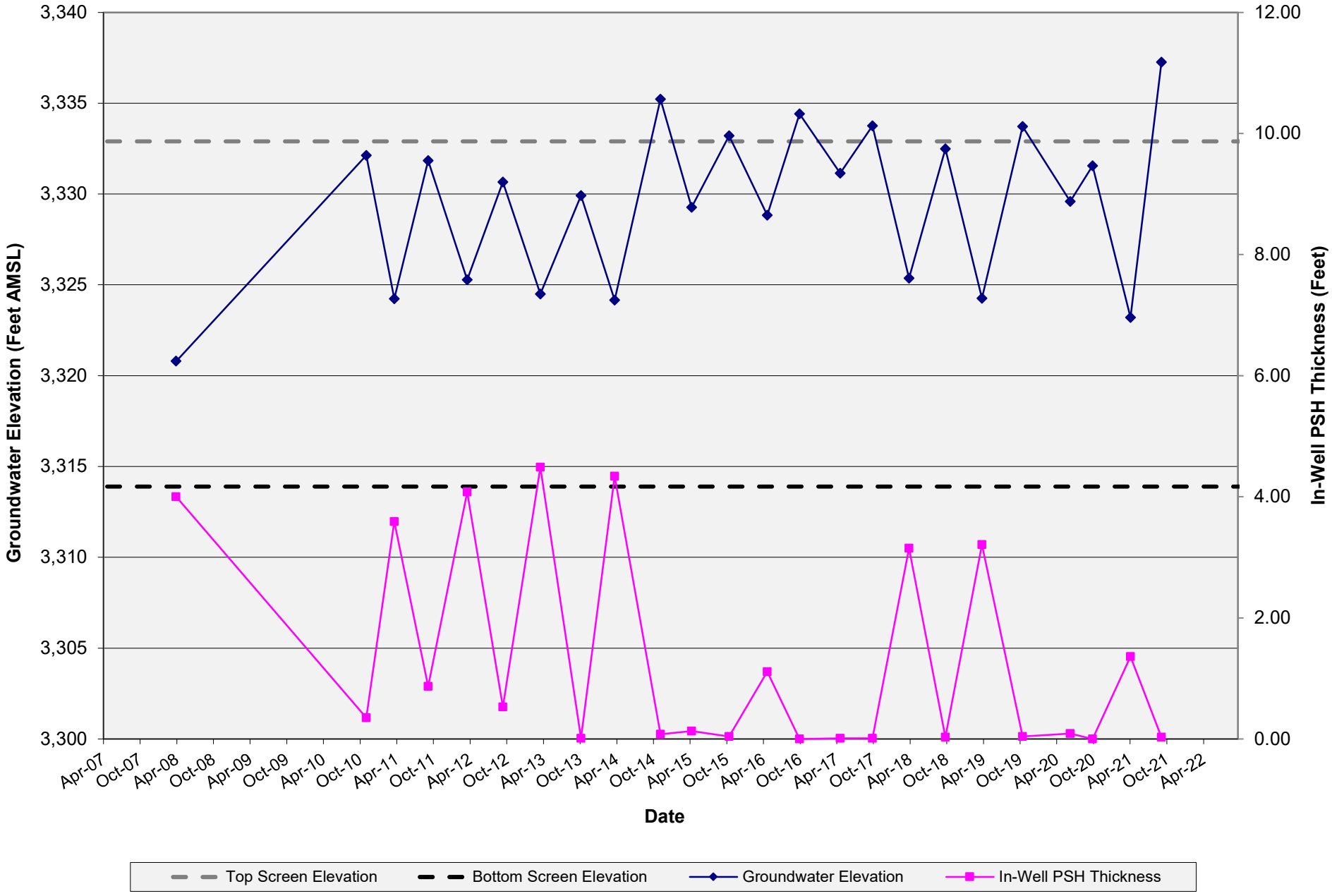
Field East of Refinery



KWB-8: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

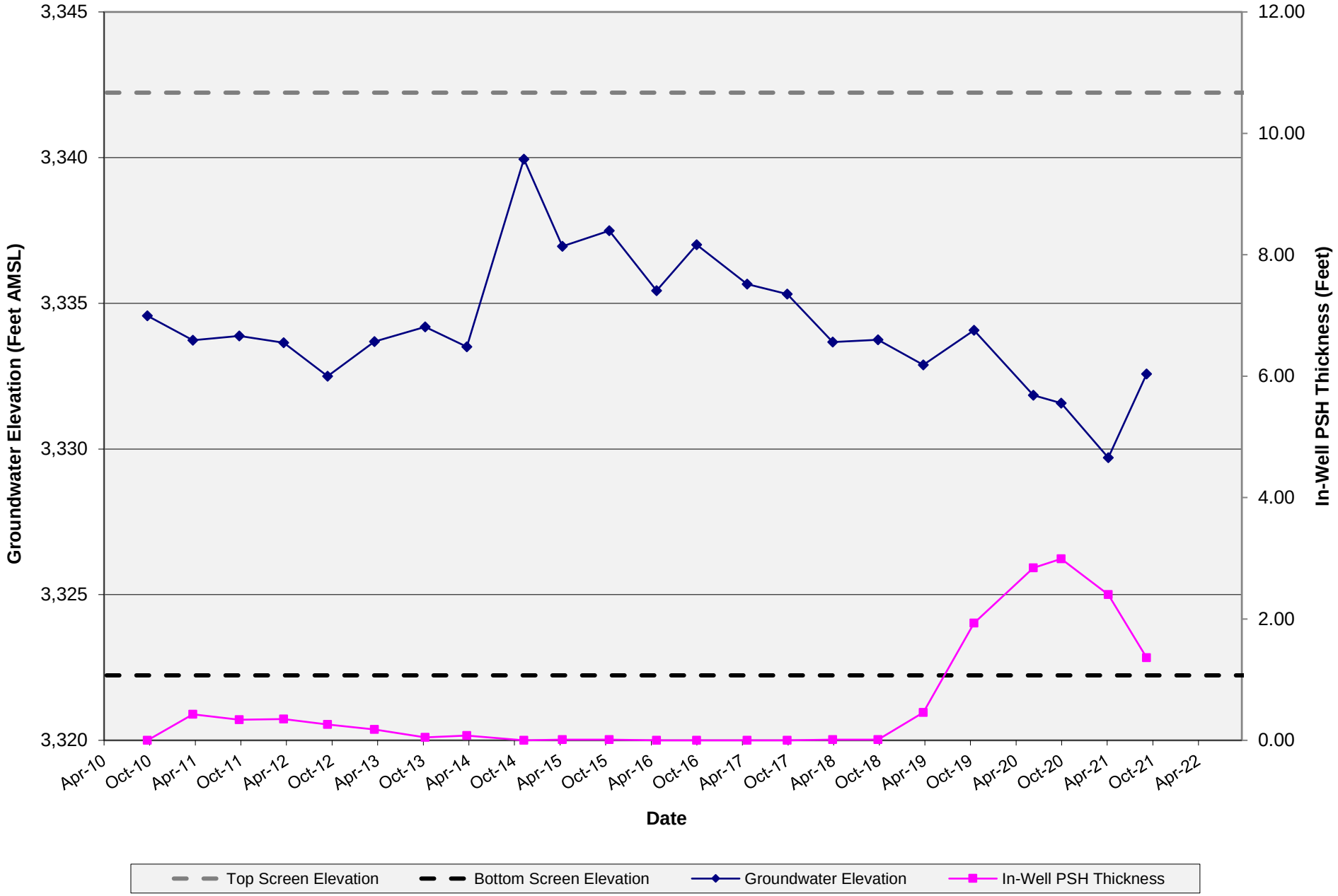
Field East of Refinery



KWB-10R: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

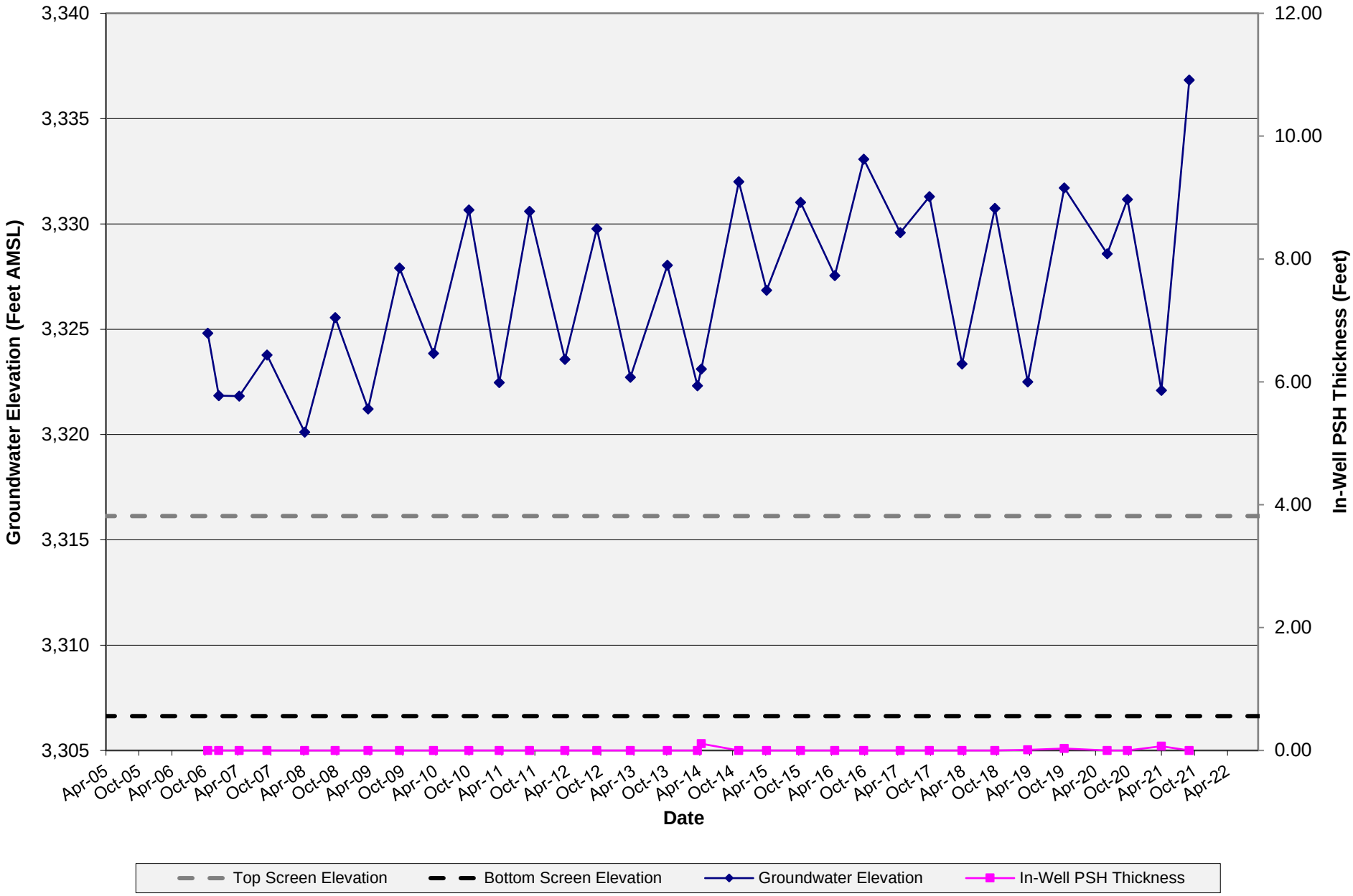
Field East of Refinery



KWB-11A: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

Field East of Refinery

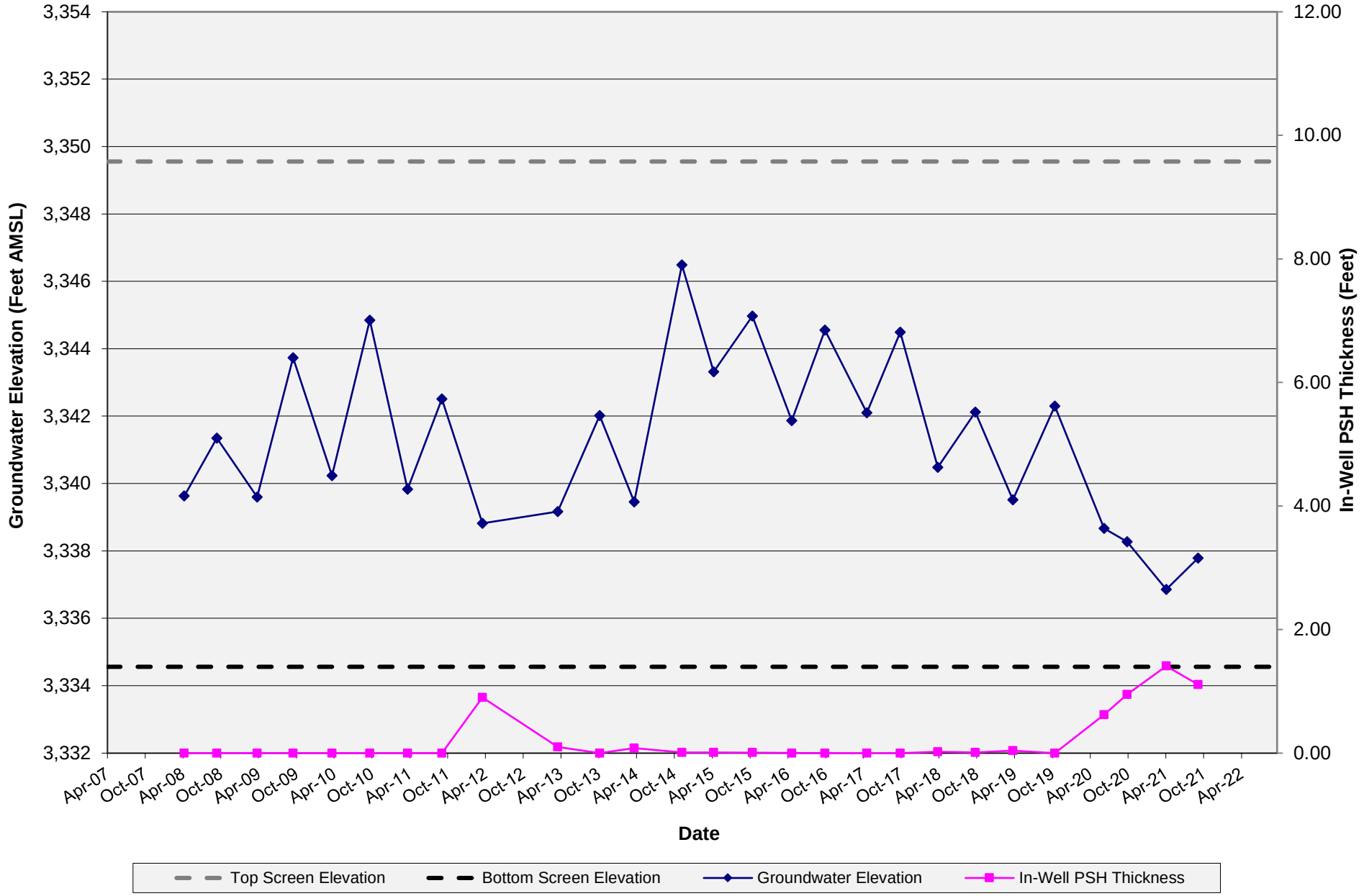


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MW-58: Groundwater Elevations and In-Well PSH Thicknesses

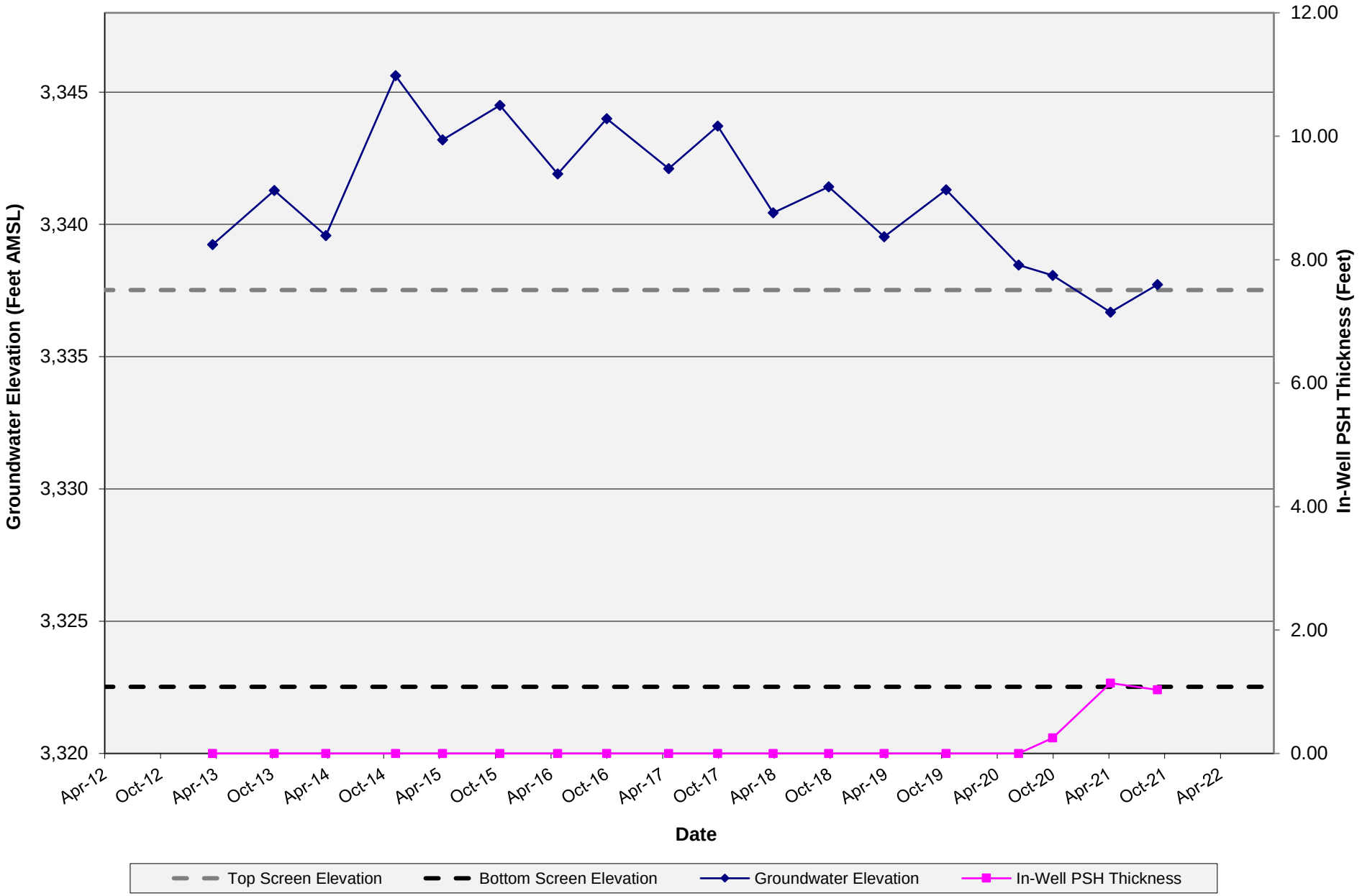
HollyFrontier Navajo Refining LLC - Artesia Refinery

Field East of Refinery



MW-111: Groundwater Elevations and In-Well PSH Thicknesses

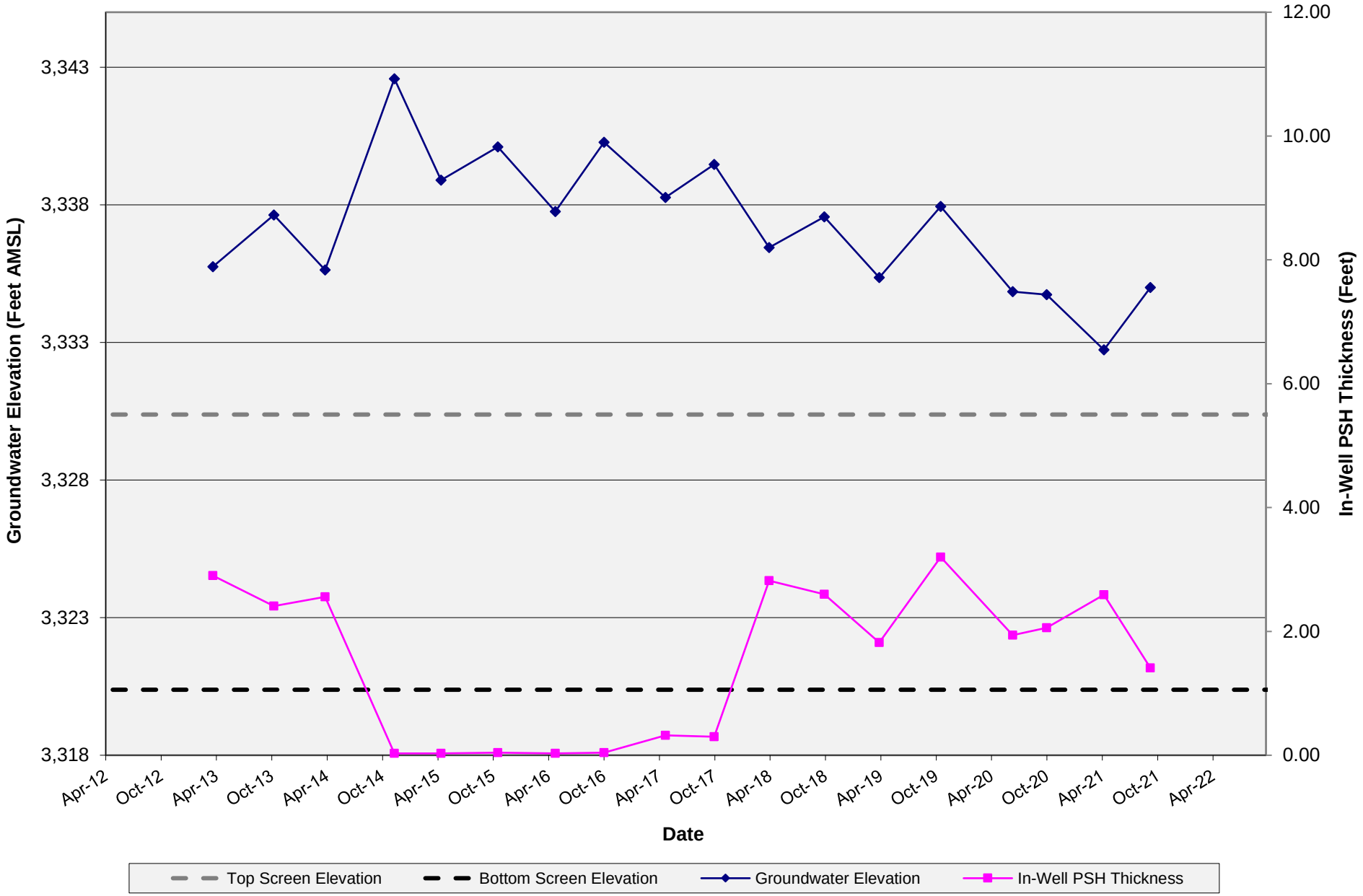
HollyFrontier Navajo Refining LLC - Artesia Refinery
Field East of Refinery



MW-112: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

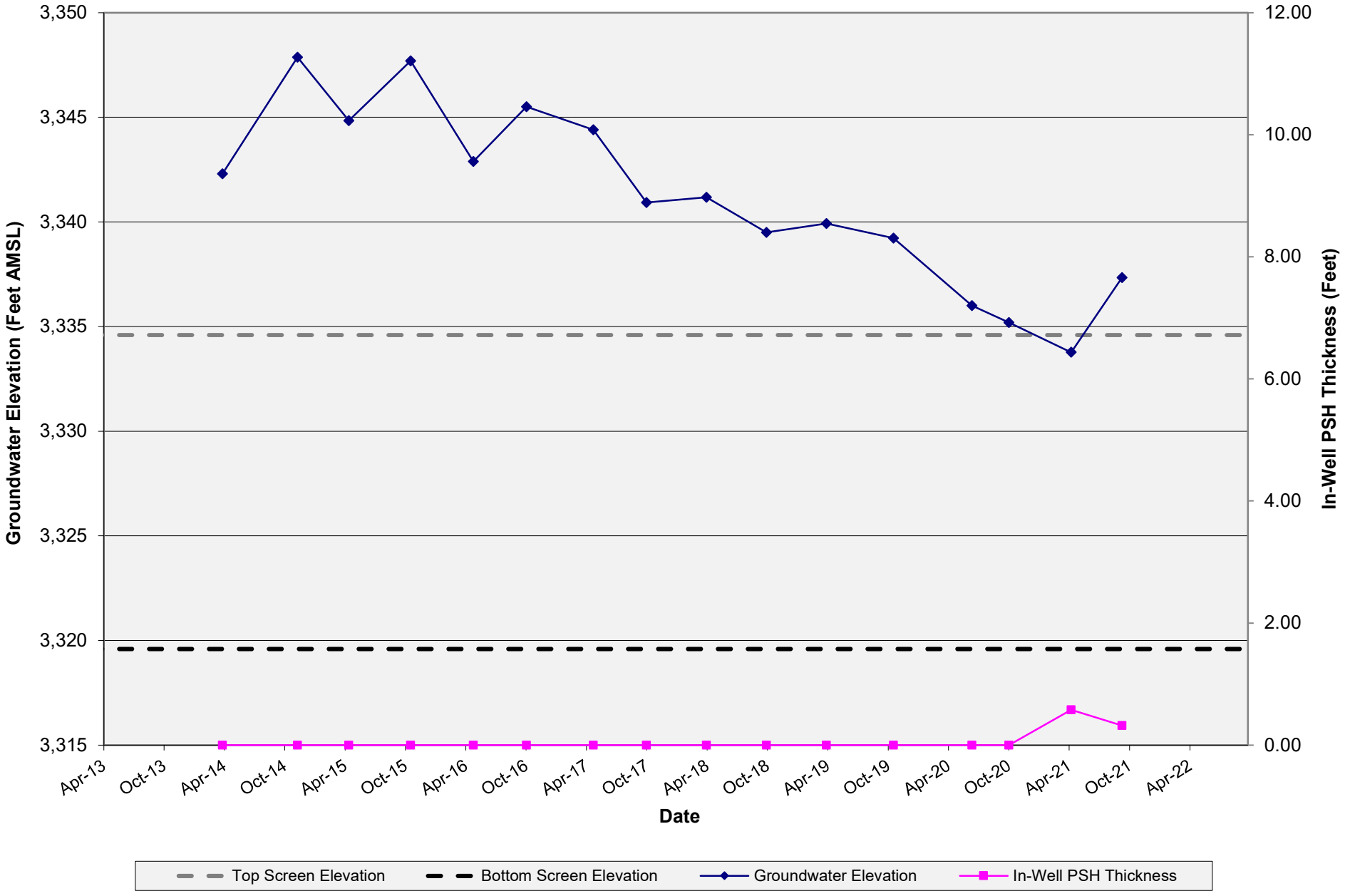
Field East of Refinery



MW-126A: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

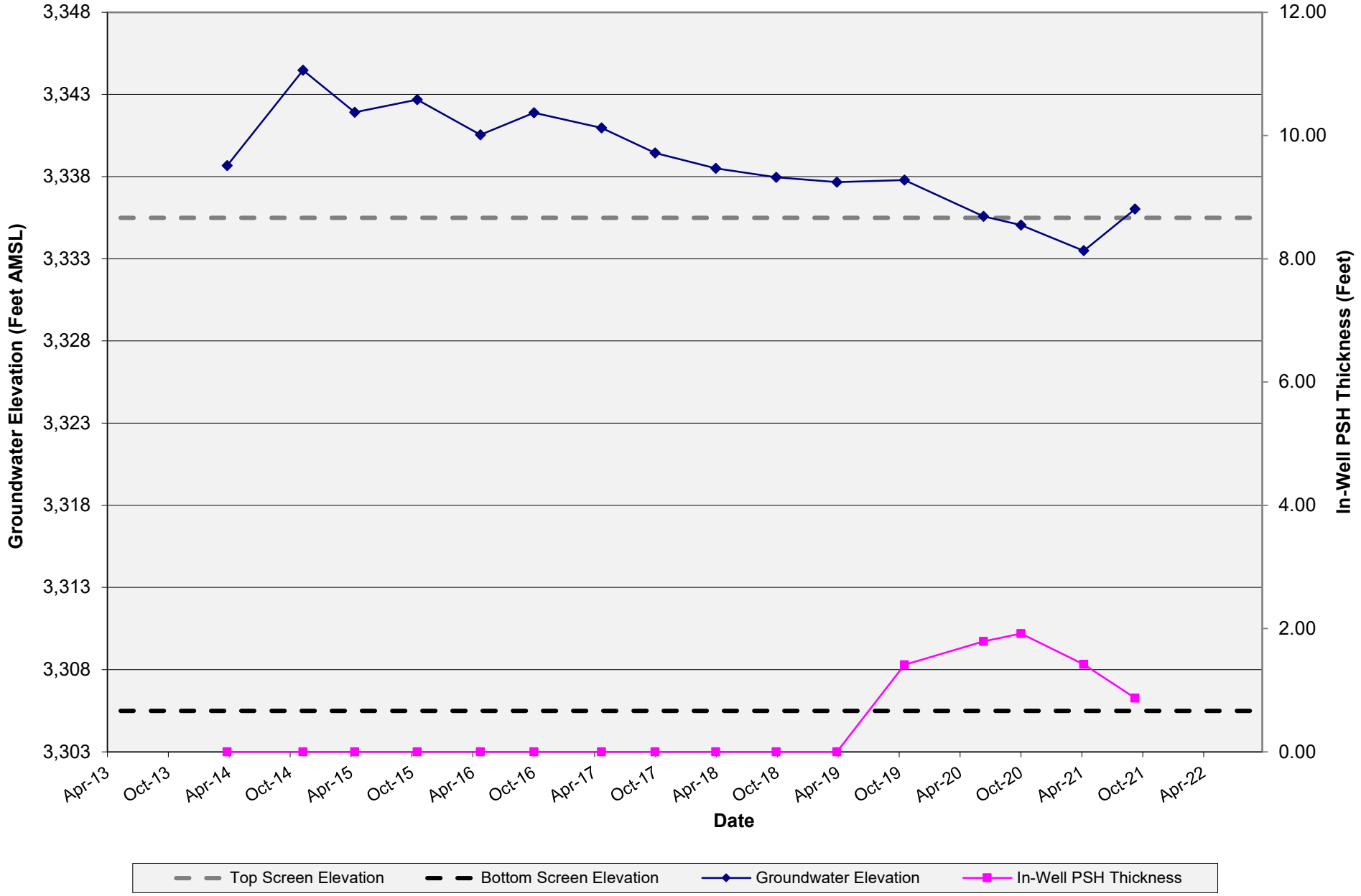
Field East of Refinery



MW-127: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

Field East of Refinery

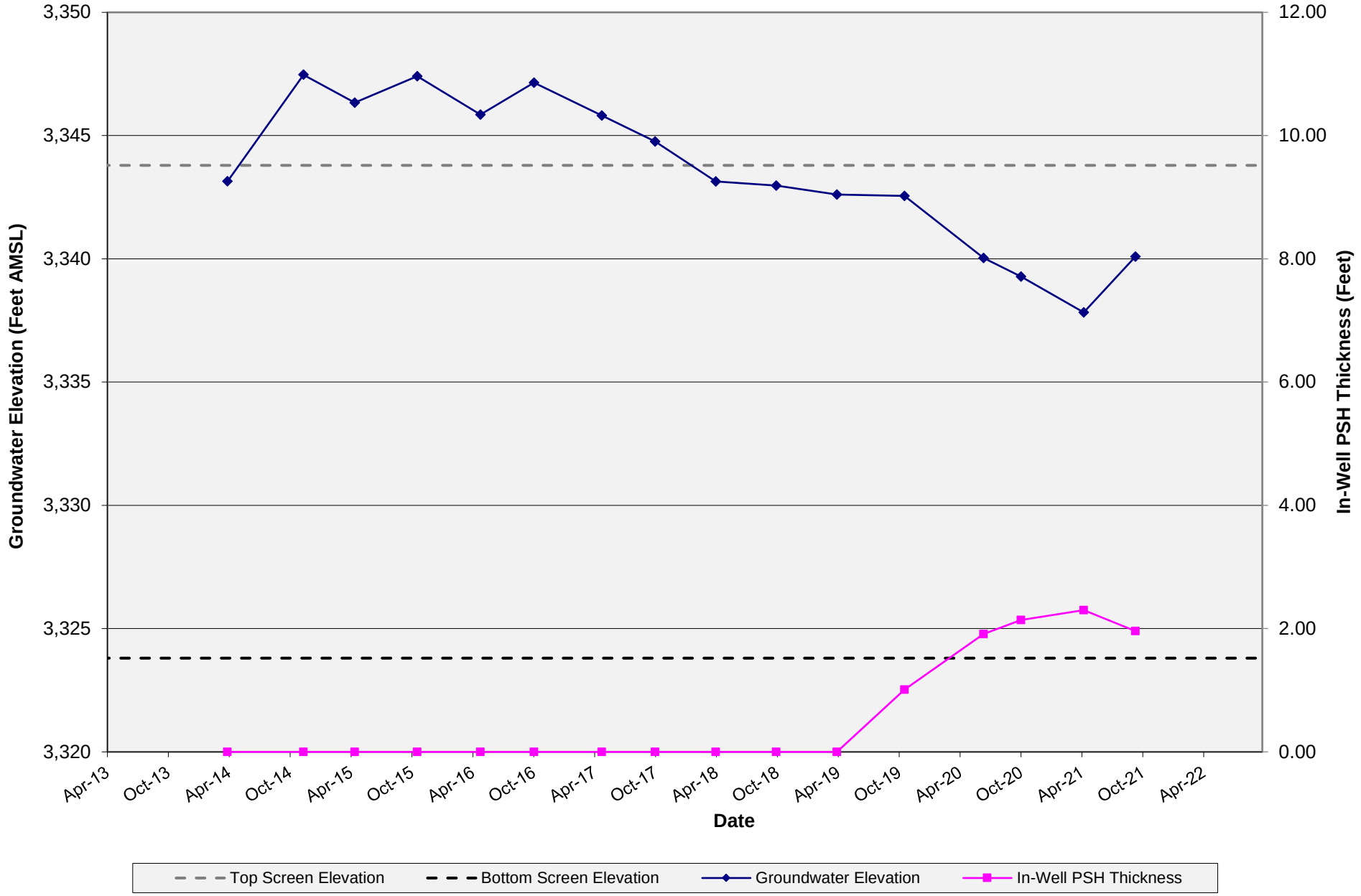


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MW-128: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

Field East of Refinery

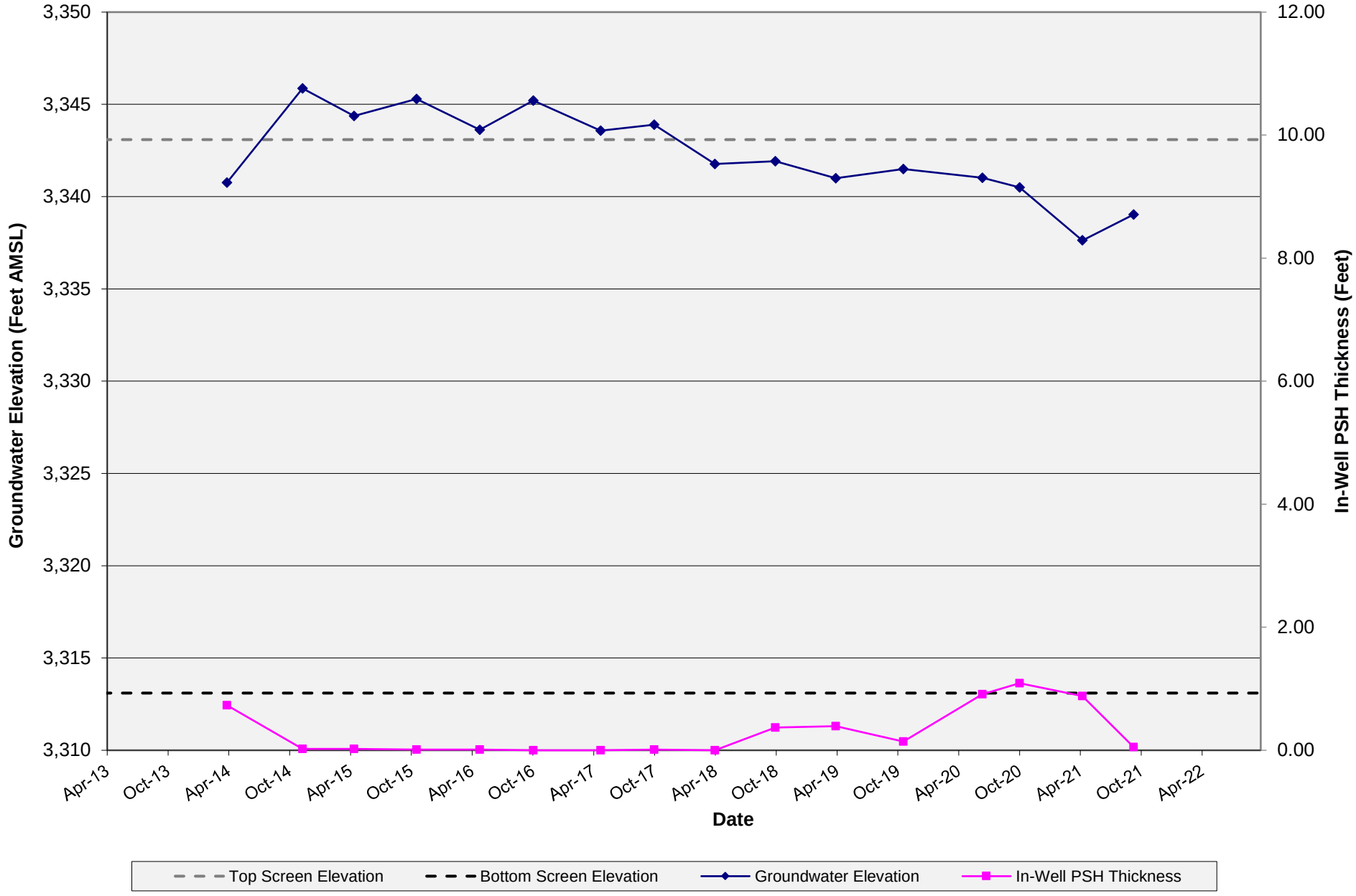


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MW-129: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

Field East of Refinery

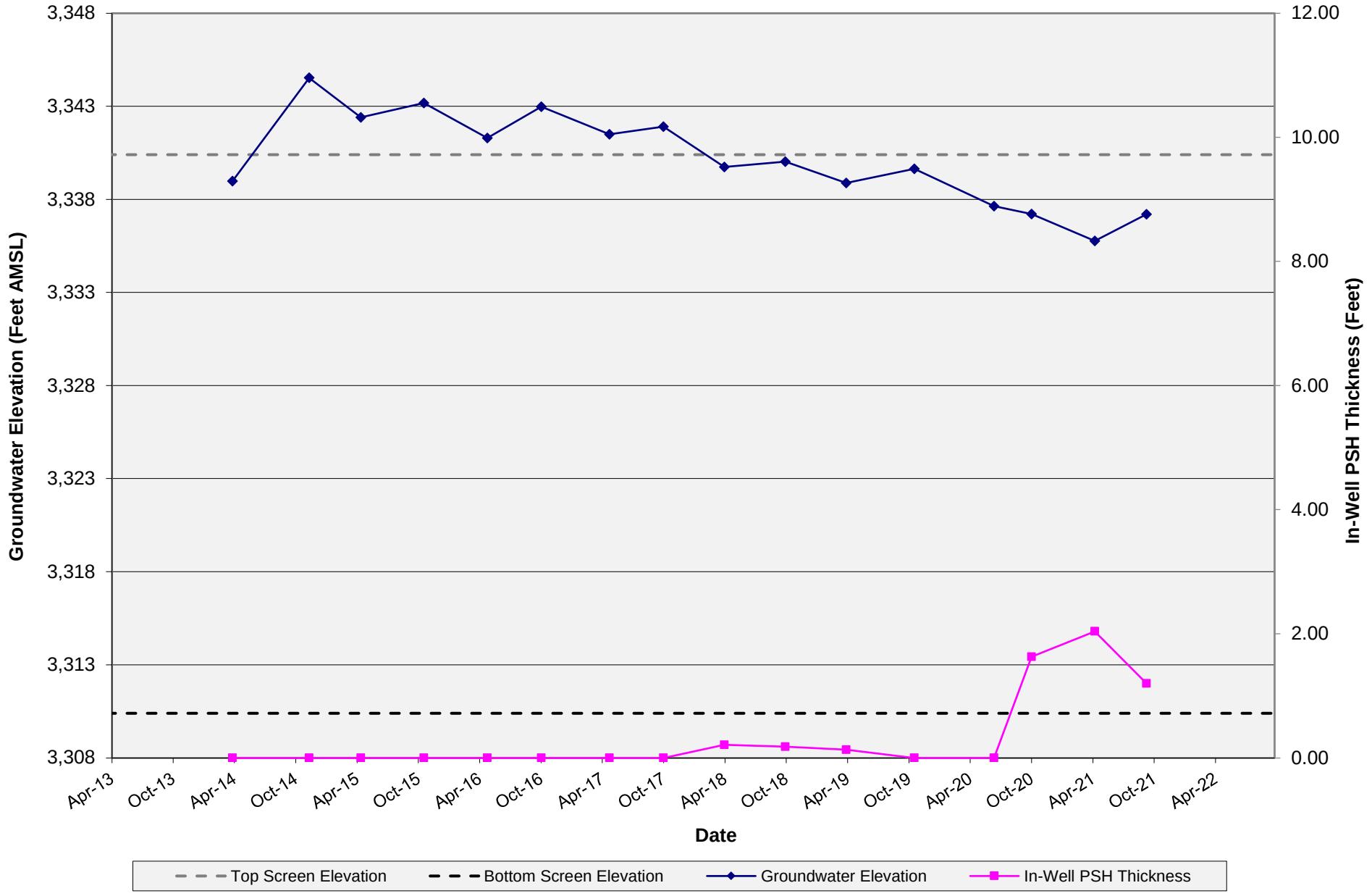


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MW-131: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

Field East of Refinery

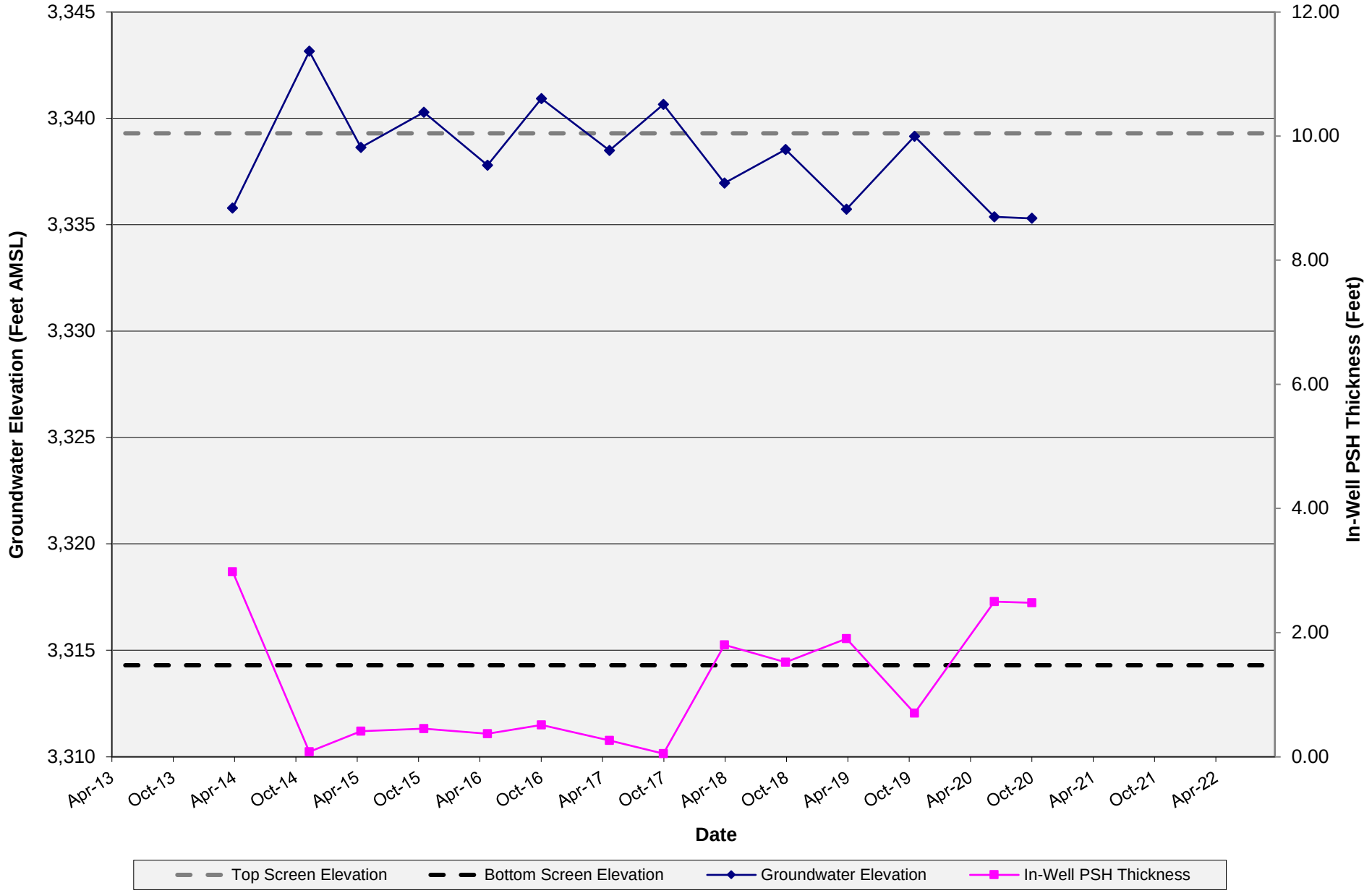


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MW-132: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

Field East of Refinery

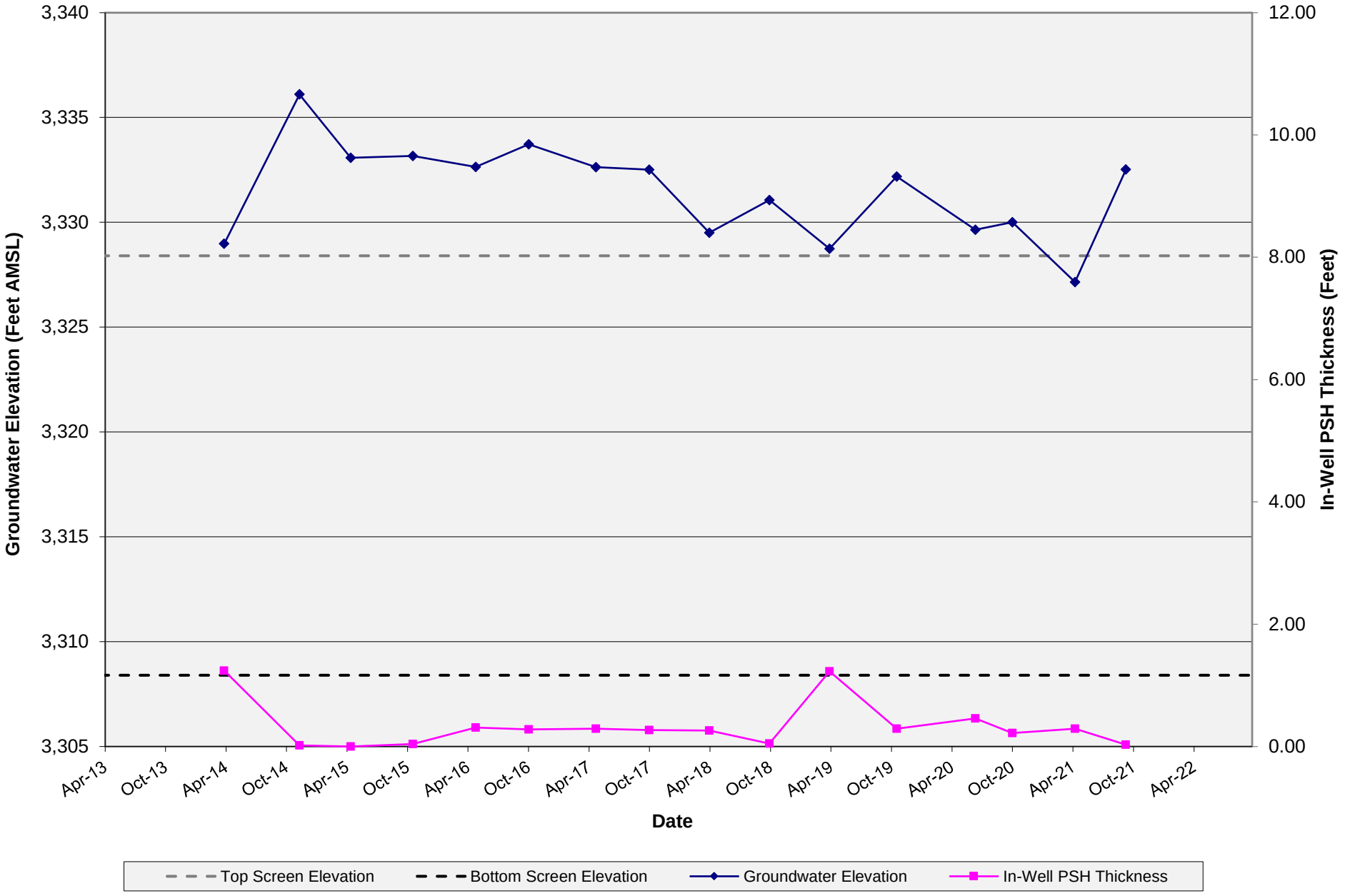


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MW-133: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

Field East of Refinery

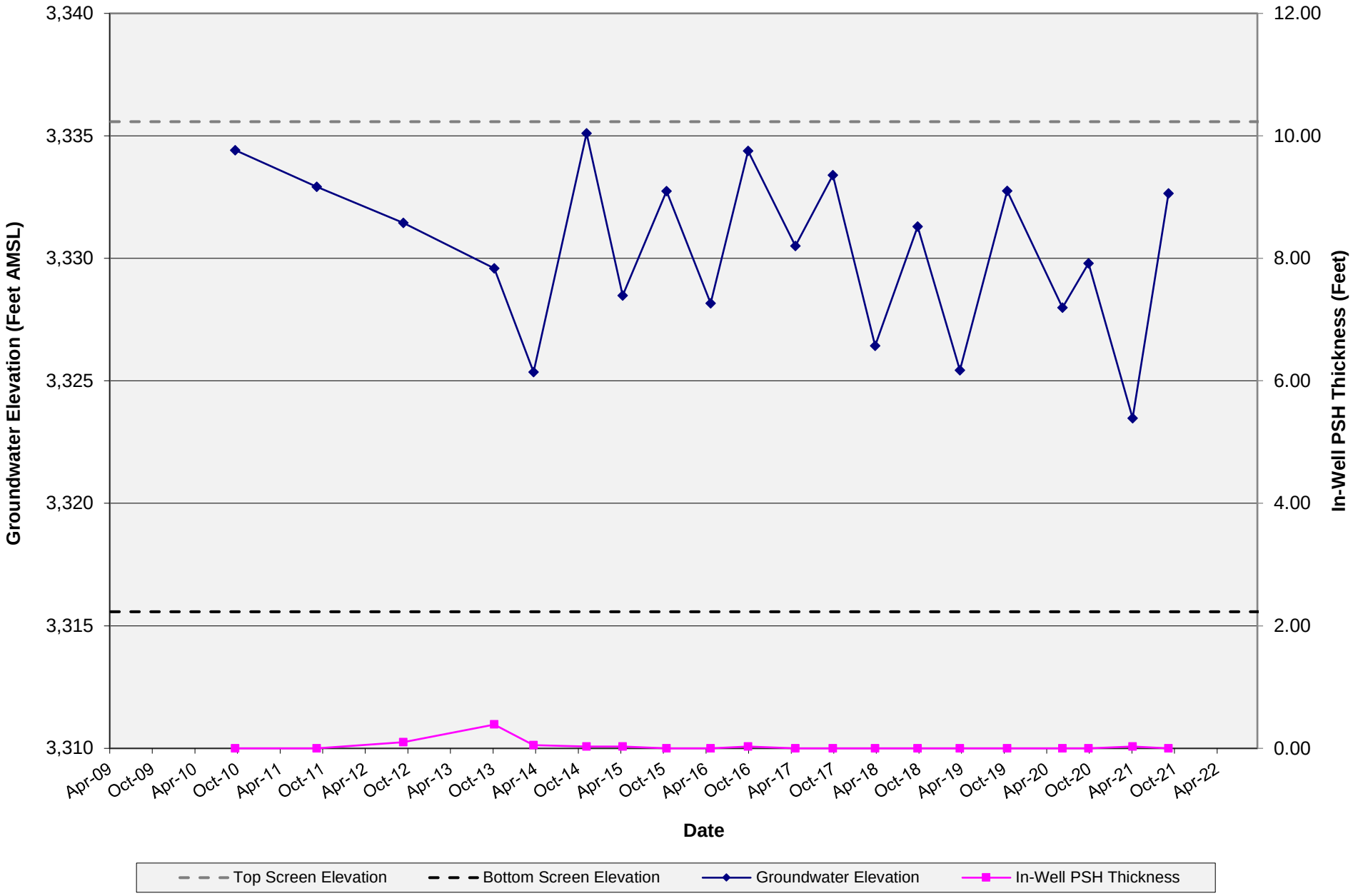


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RW-12 & RW-12R: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

Field East of Refinery

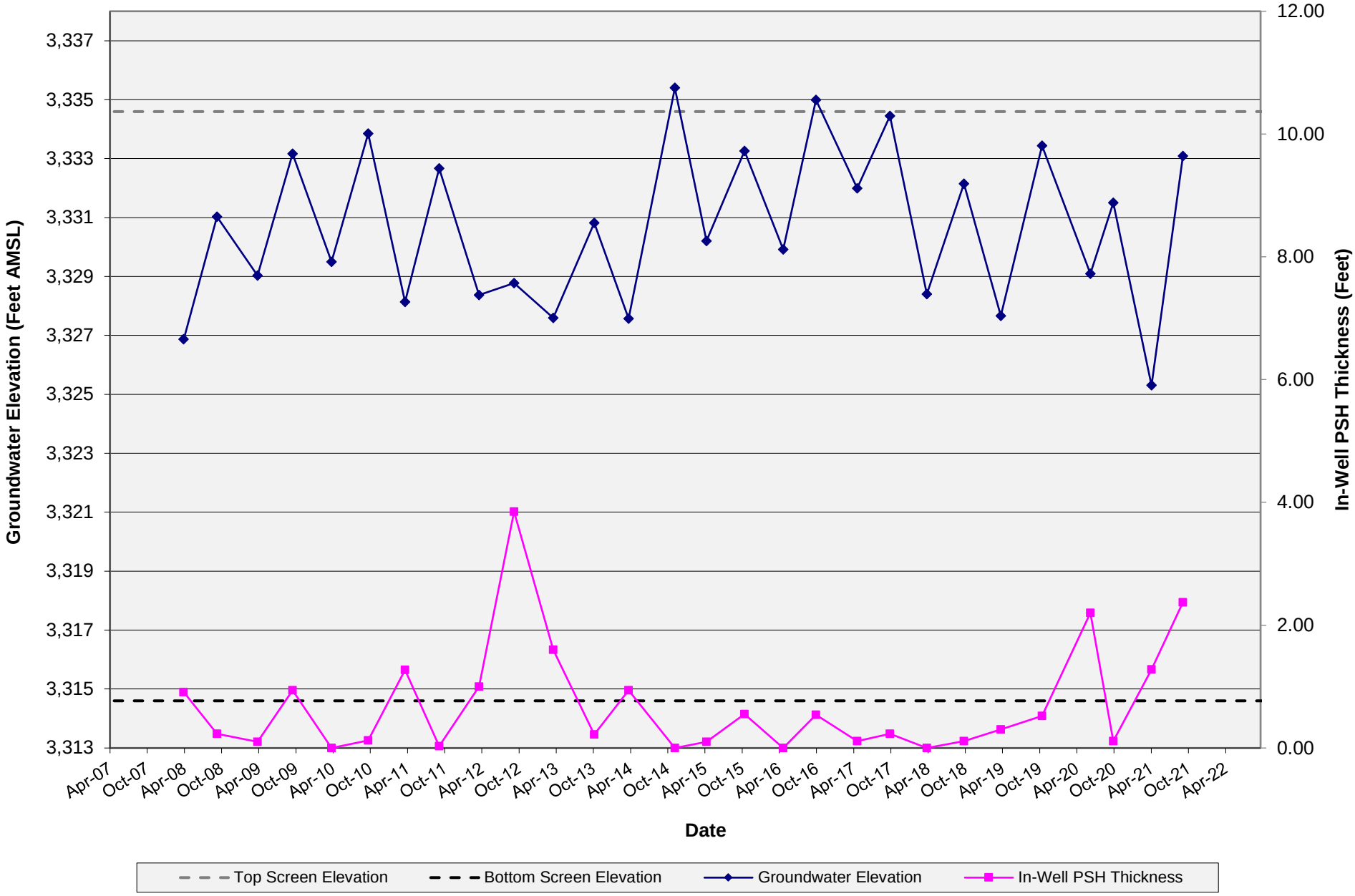


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RW-13 & RW-13R: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

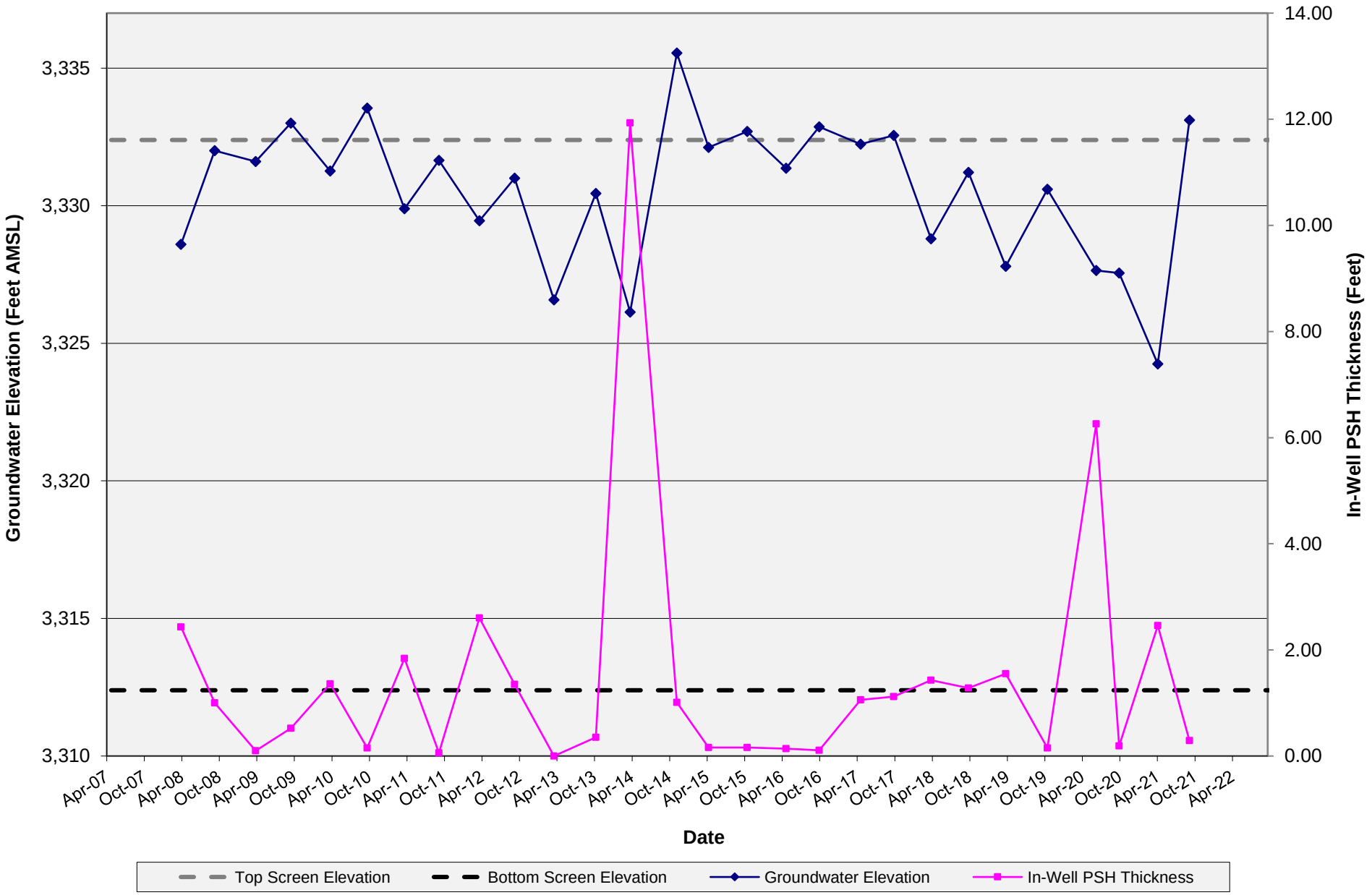
Field East of Refinery



RW-14 & RW-14R: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

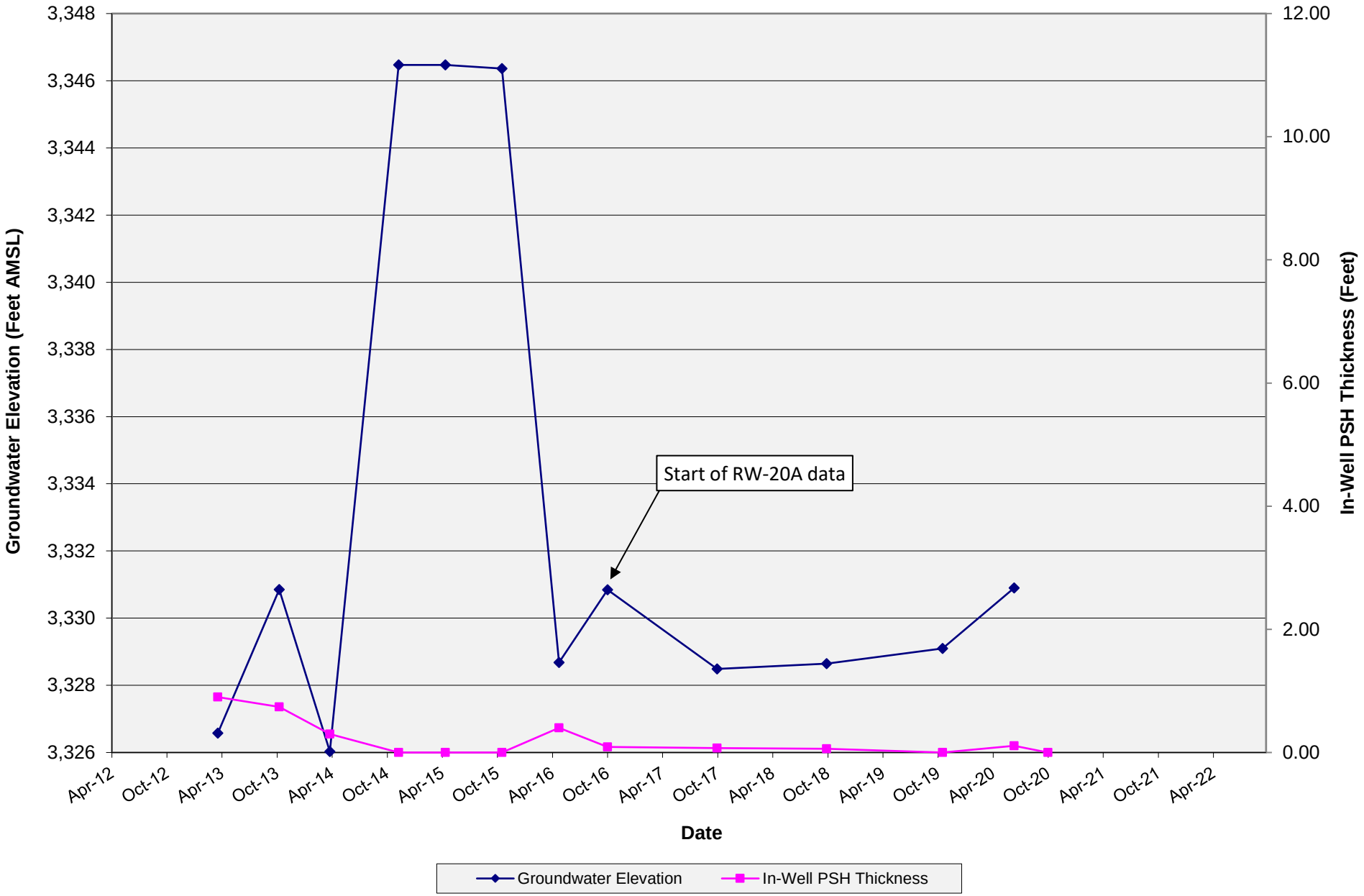
Field East of Refinery



RW-20 & RW-20A: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

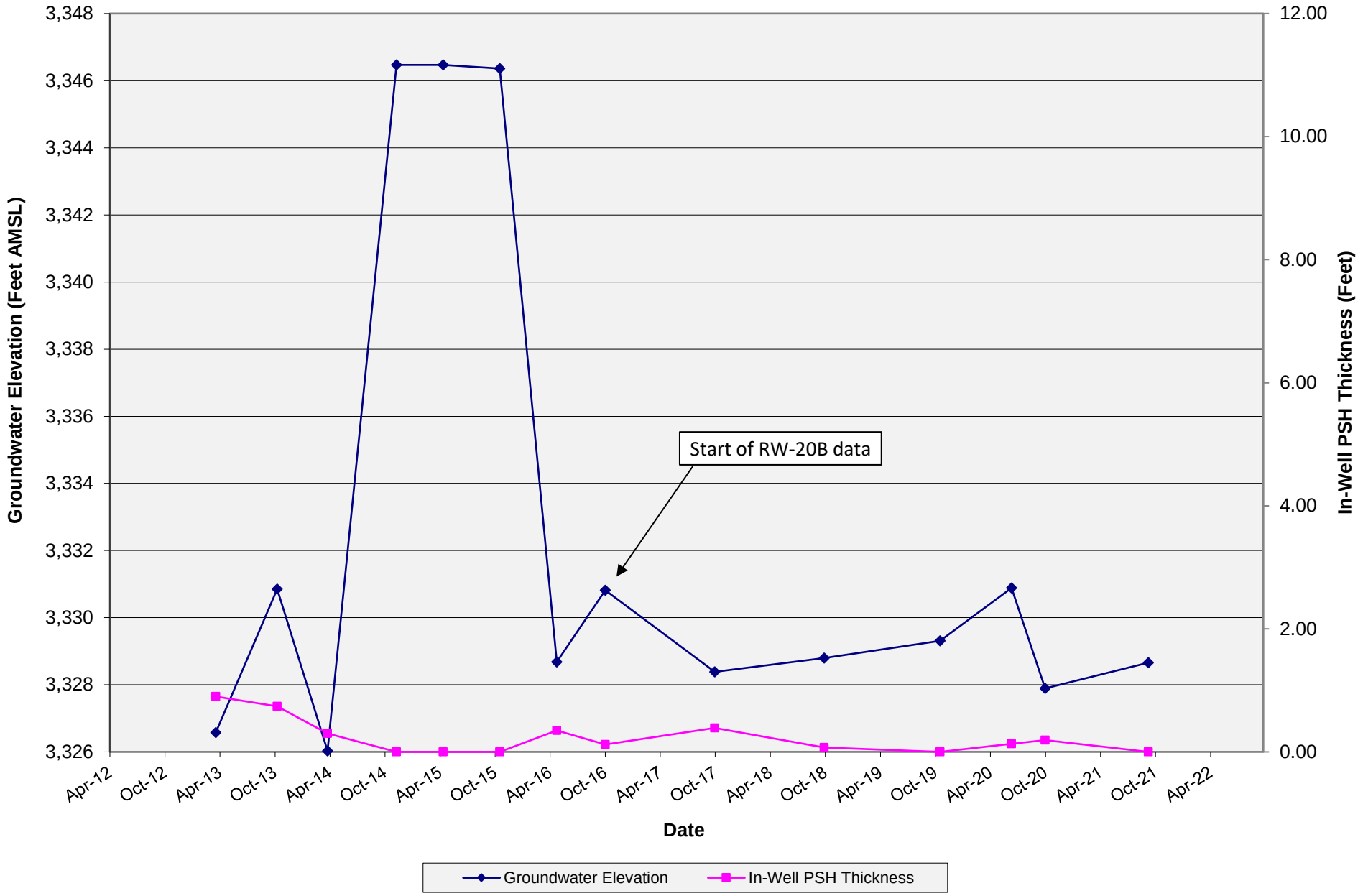
Field East of Refinery



RW-20 & RW-20B: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

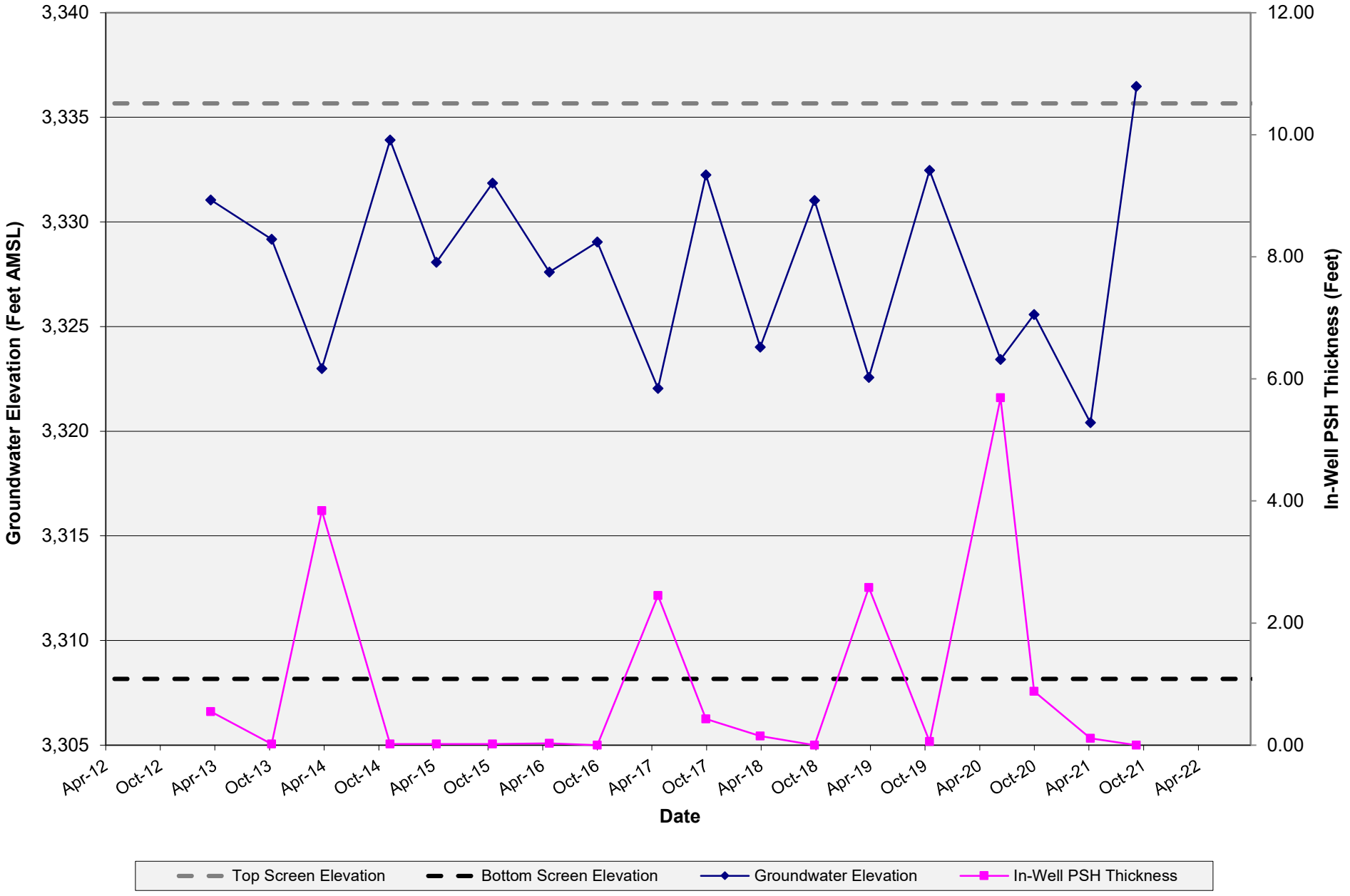
Field East of Refinery



RW-22: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

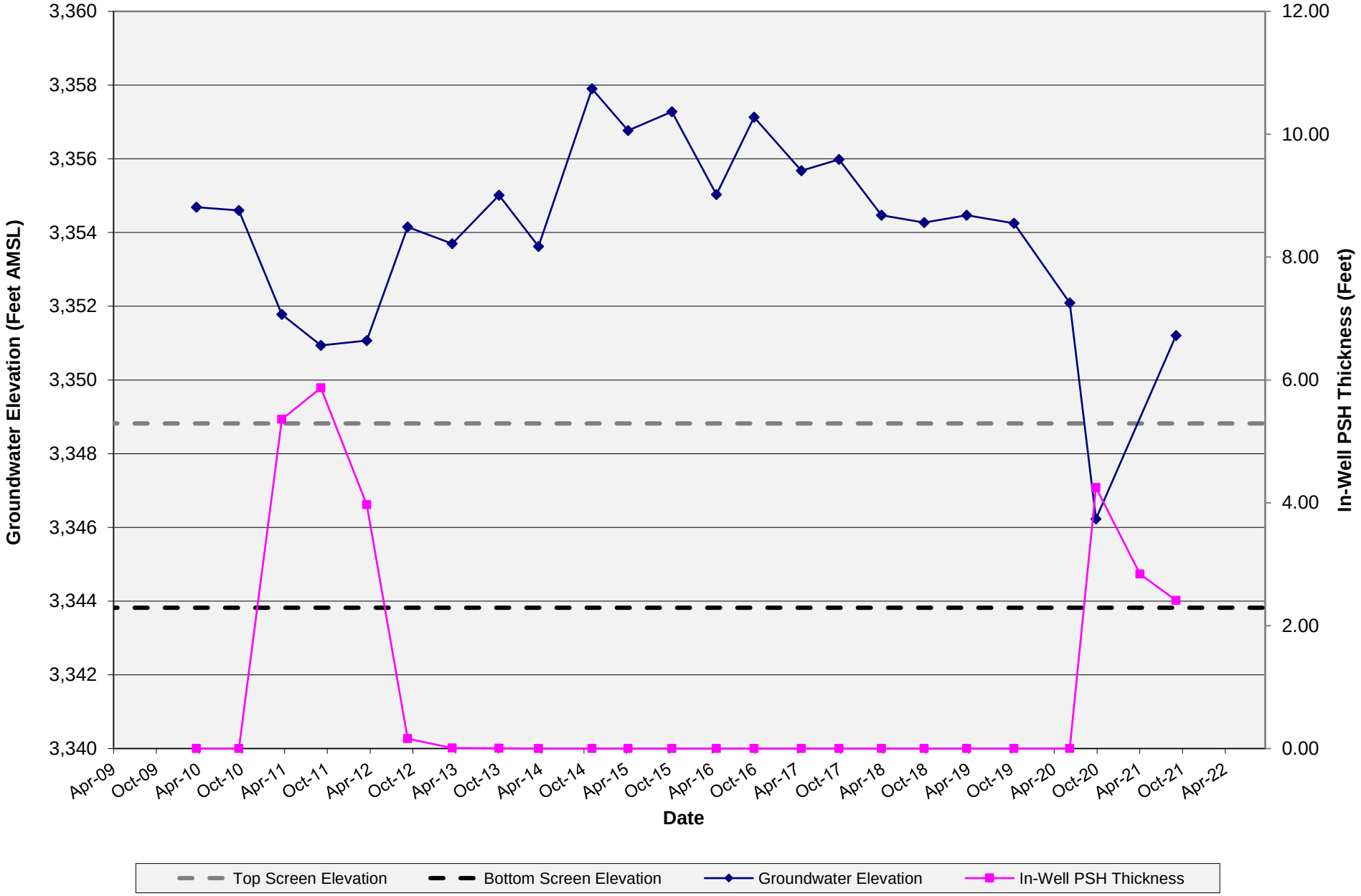
Field East of Refinery



NCL-34A: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

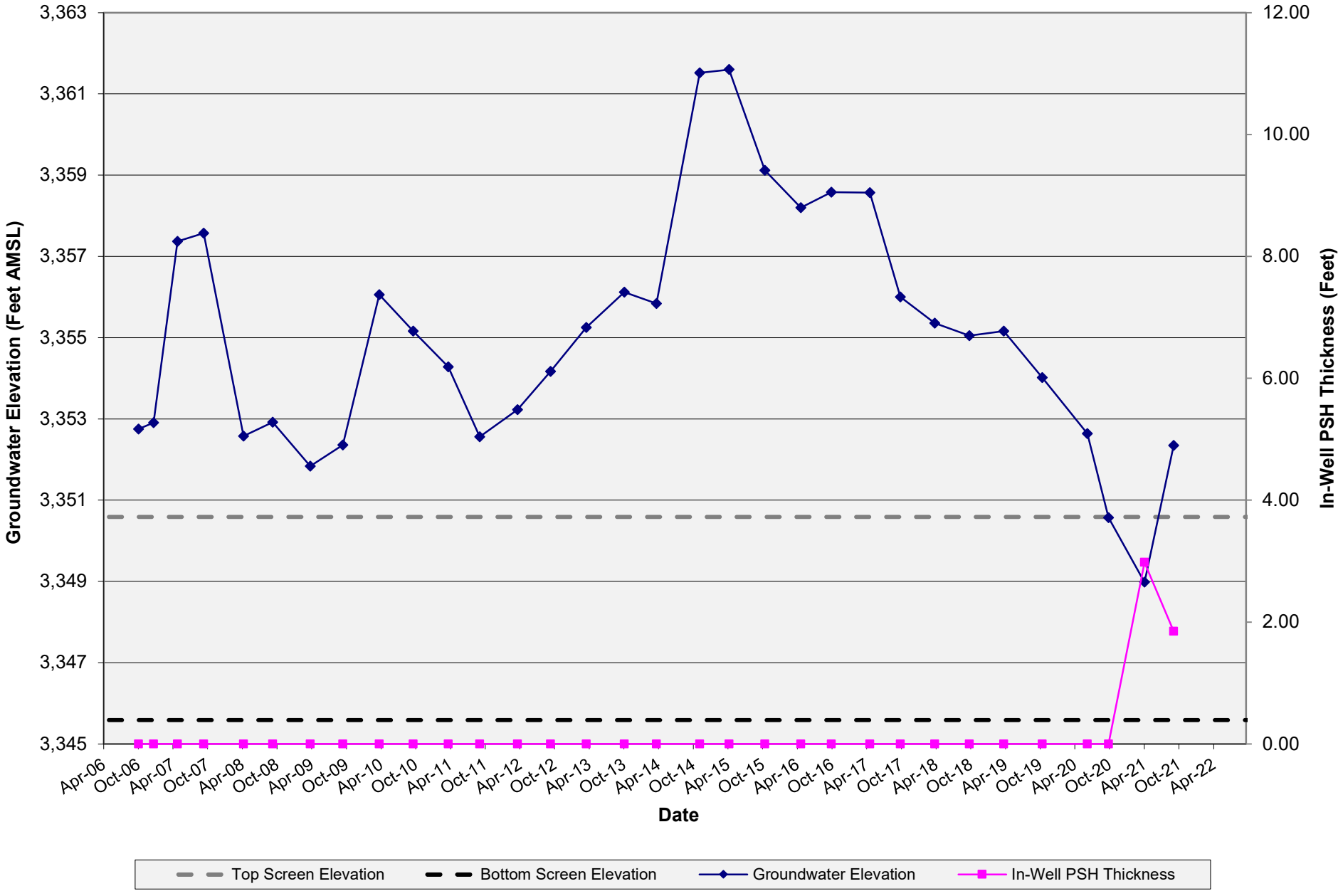
North Colony Landfarm



MW-23: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

North Refinery

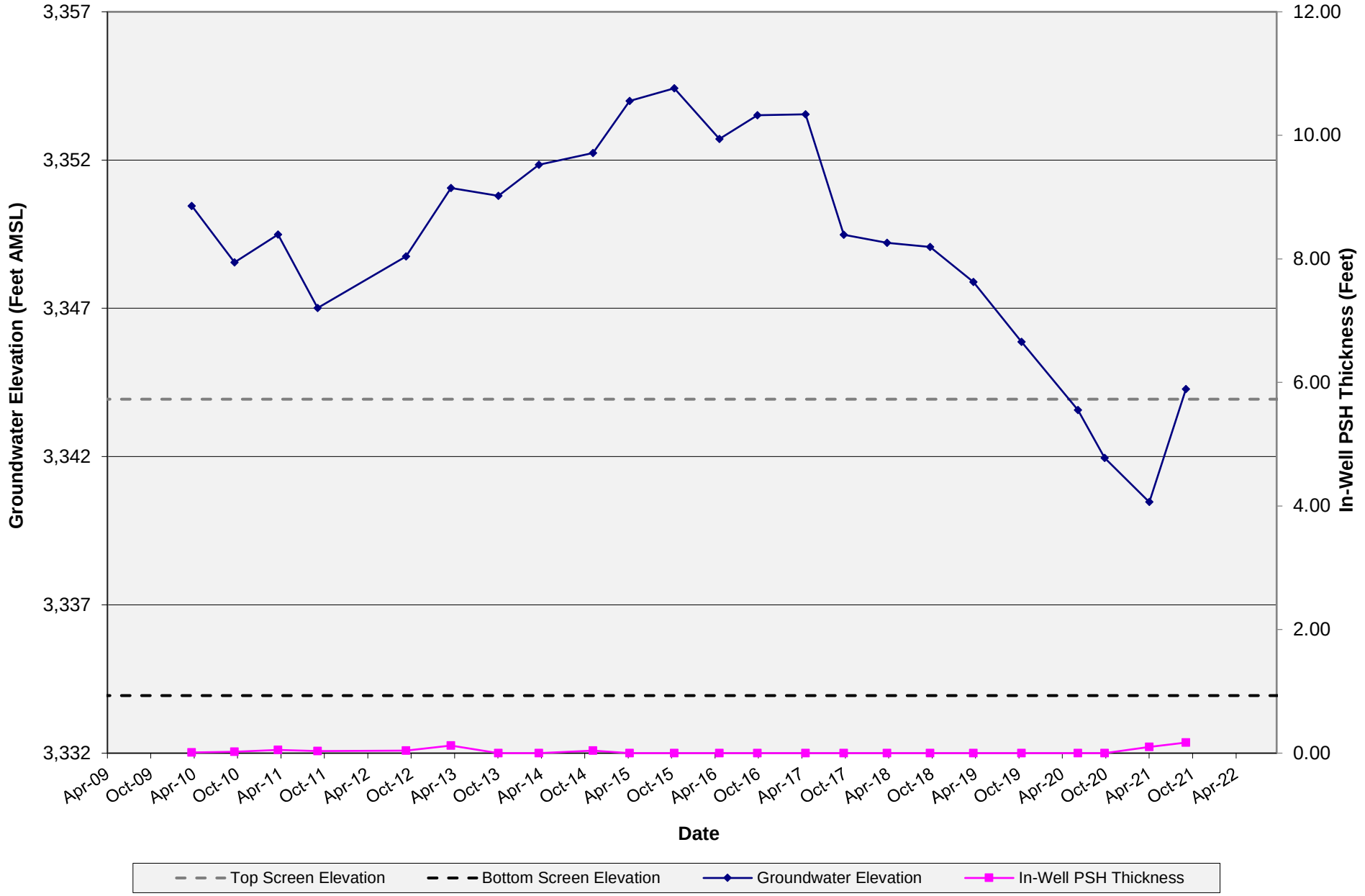


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MW-39: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

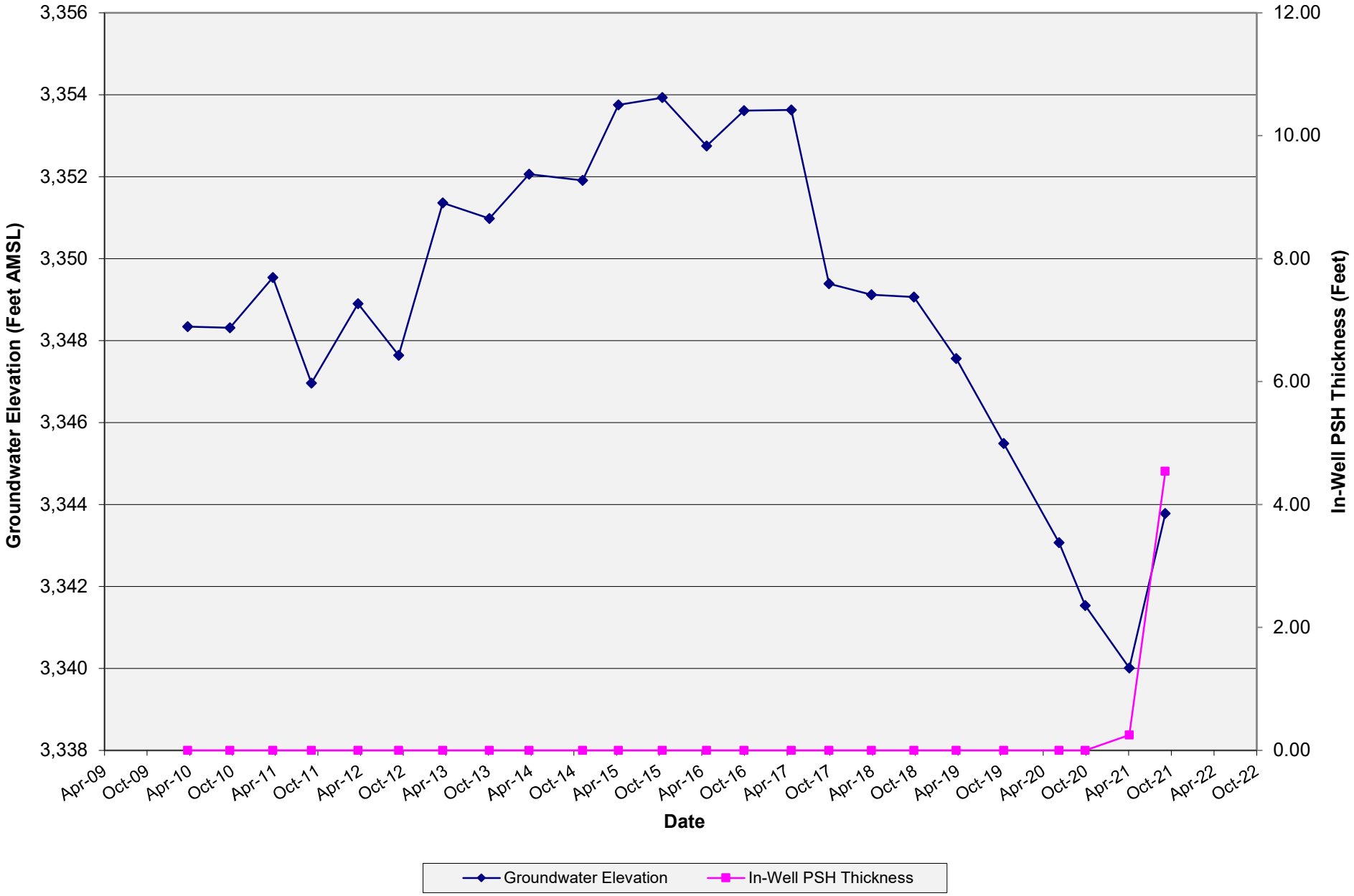
North Refinery



MW-40: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

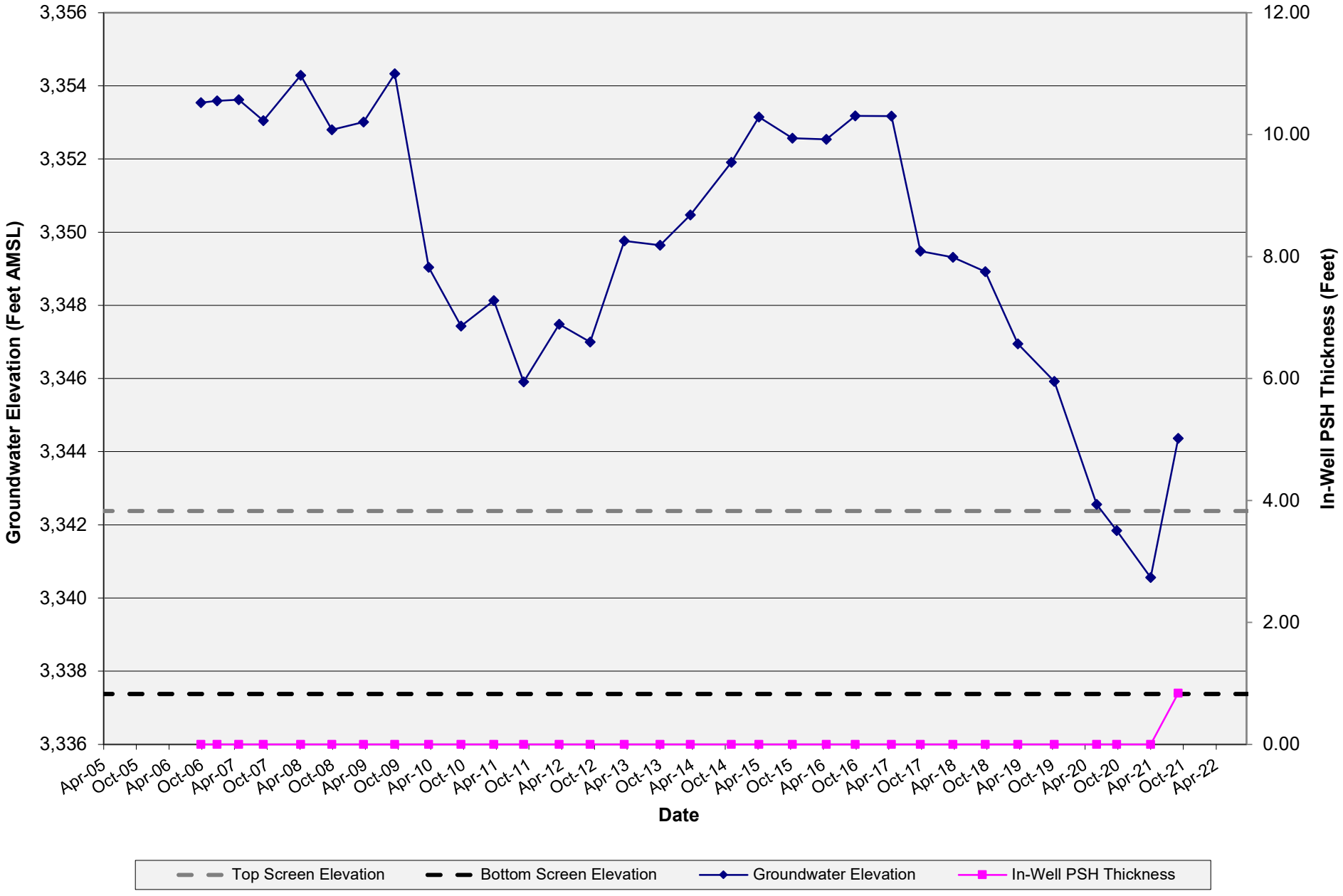
North Refinery



MW-41: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

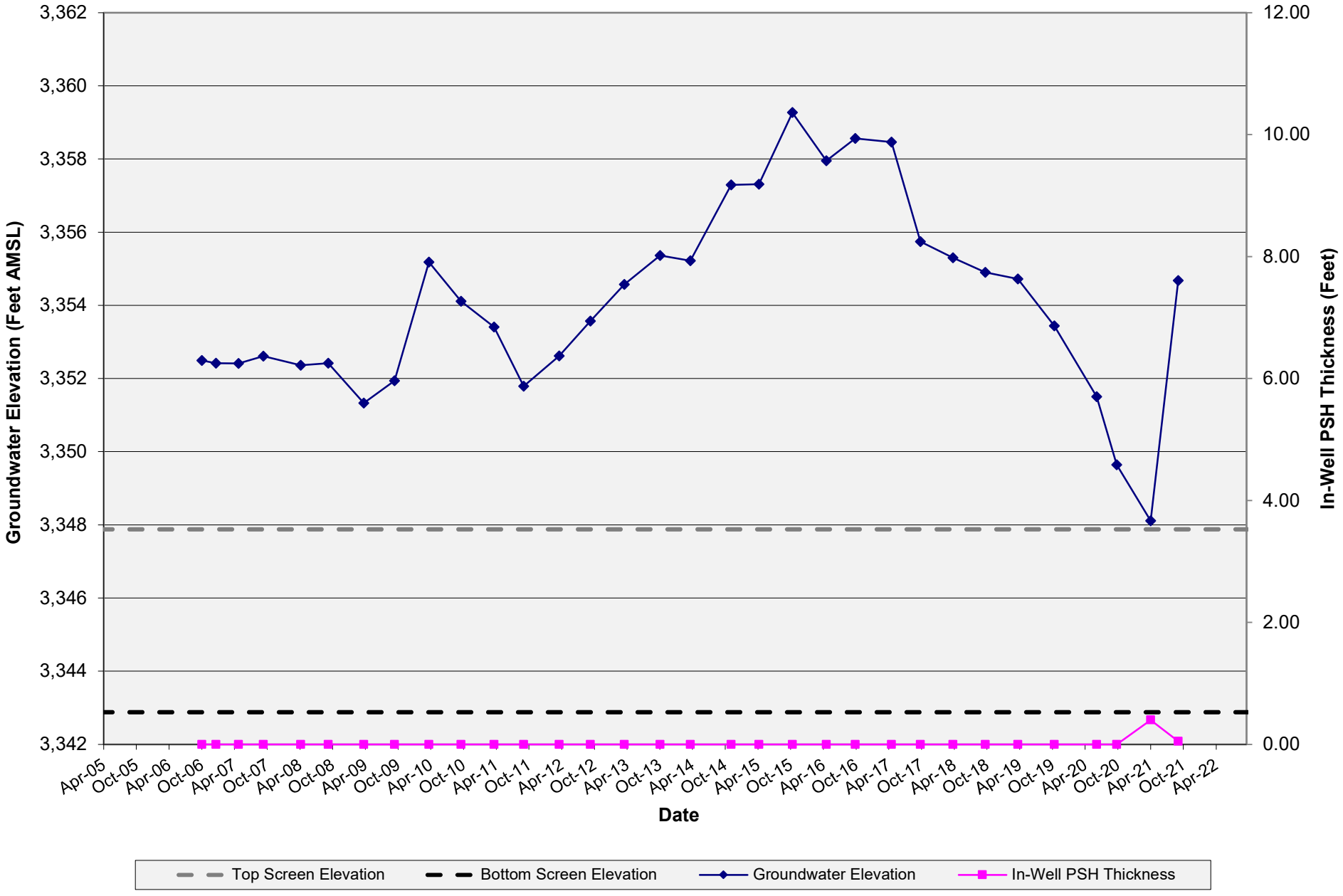
North Refinery



MW-43: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

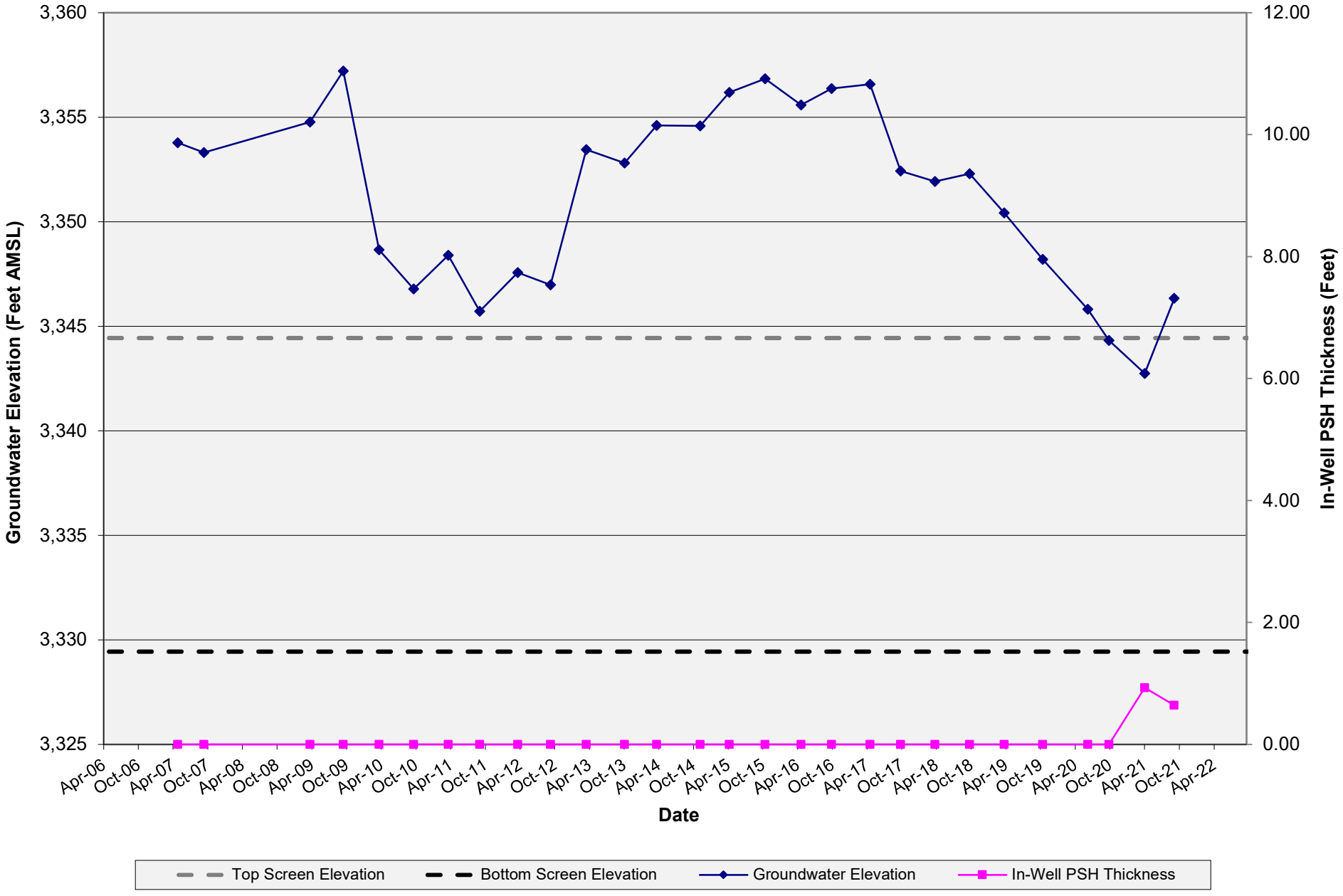
North Refinery



MW-59: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

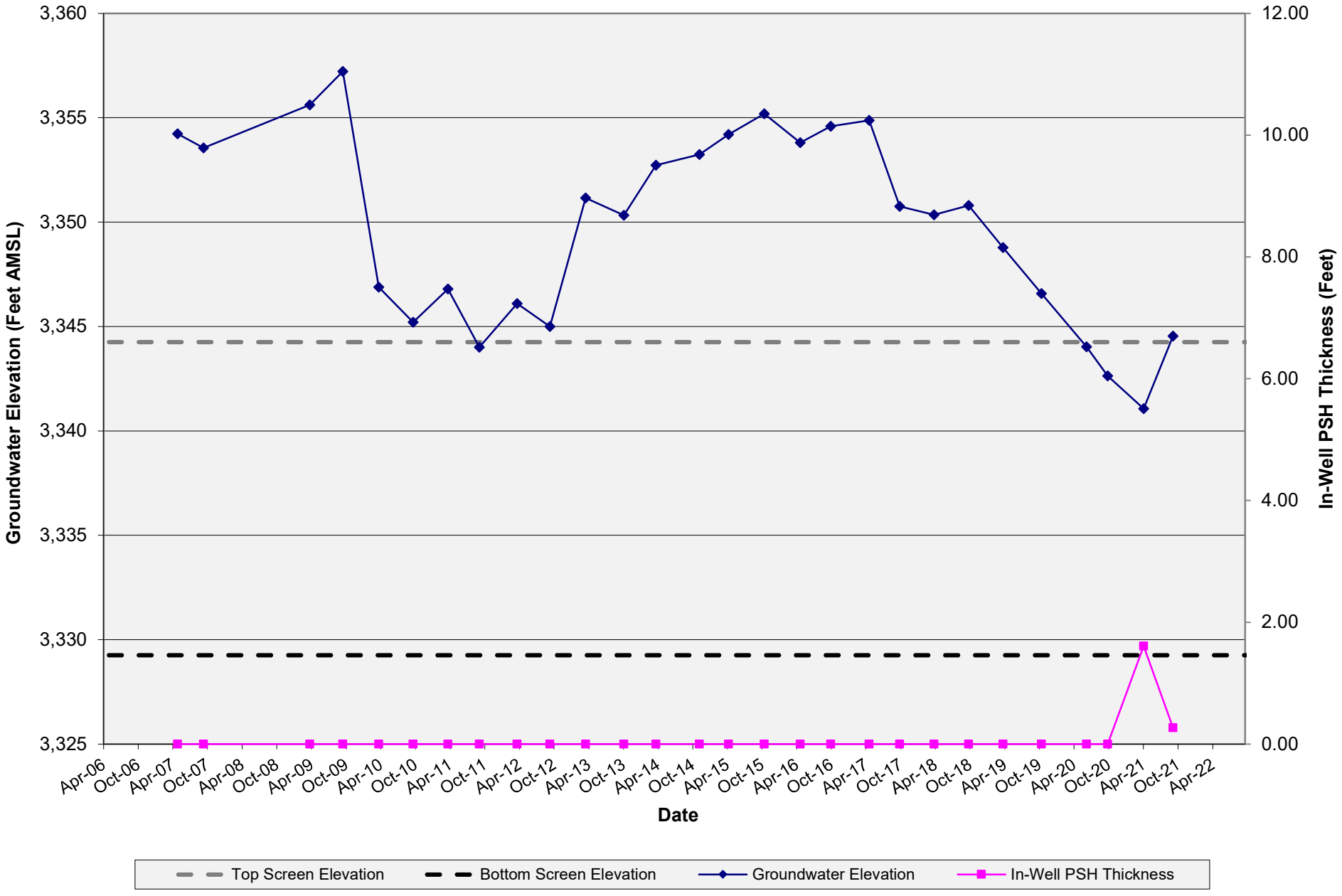
North Refinery



MW-60: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

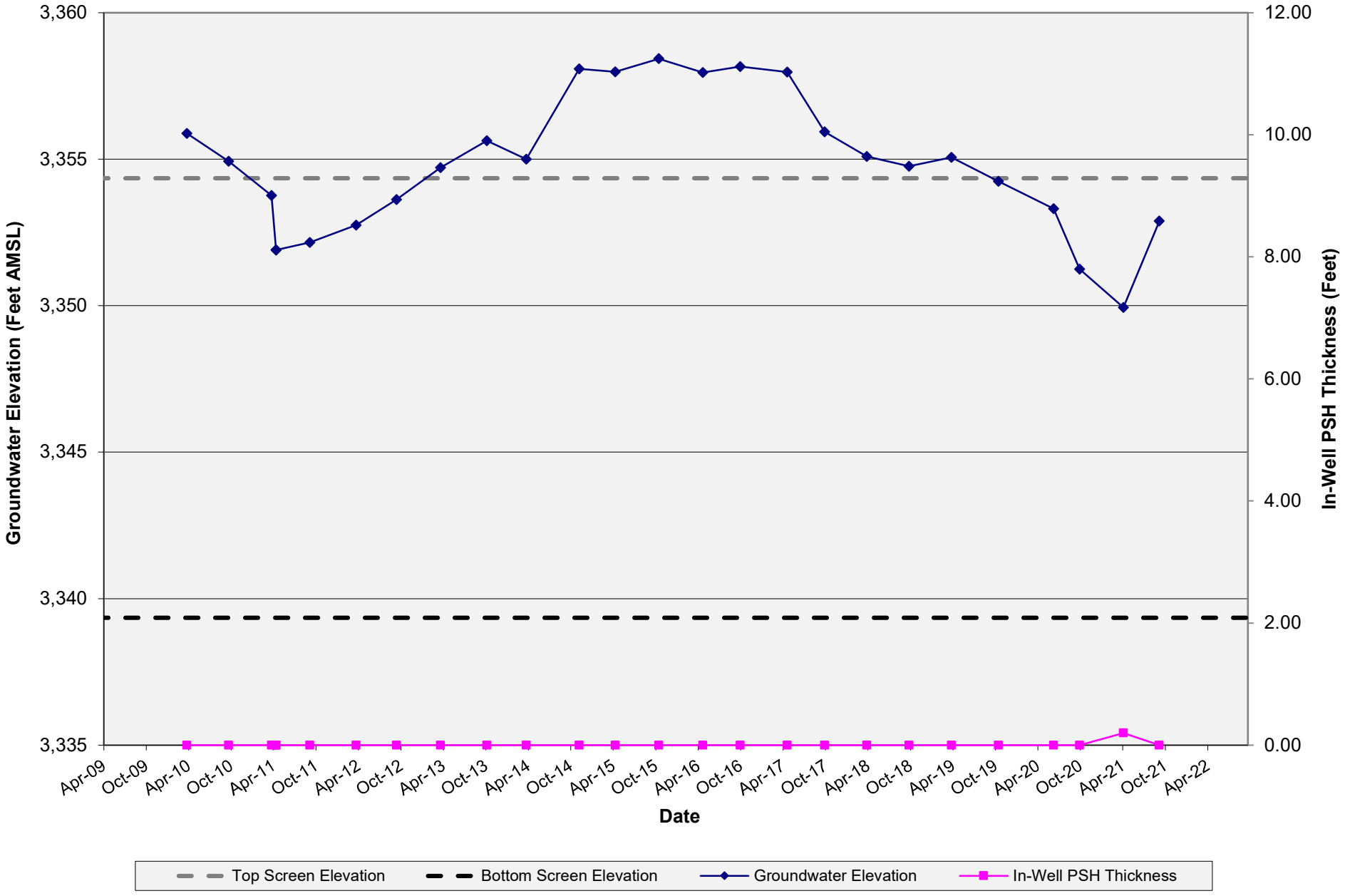
North Refinery



MW-62: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

North Refinery

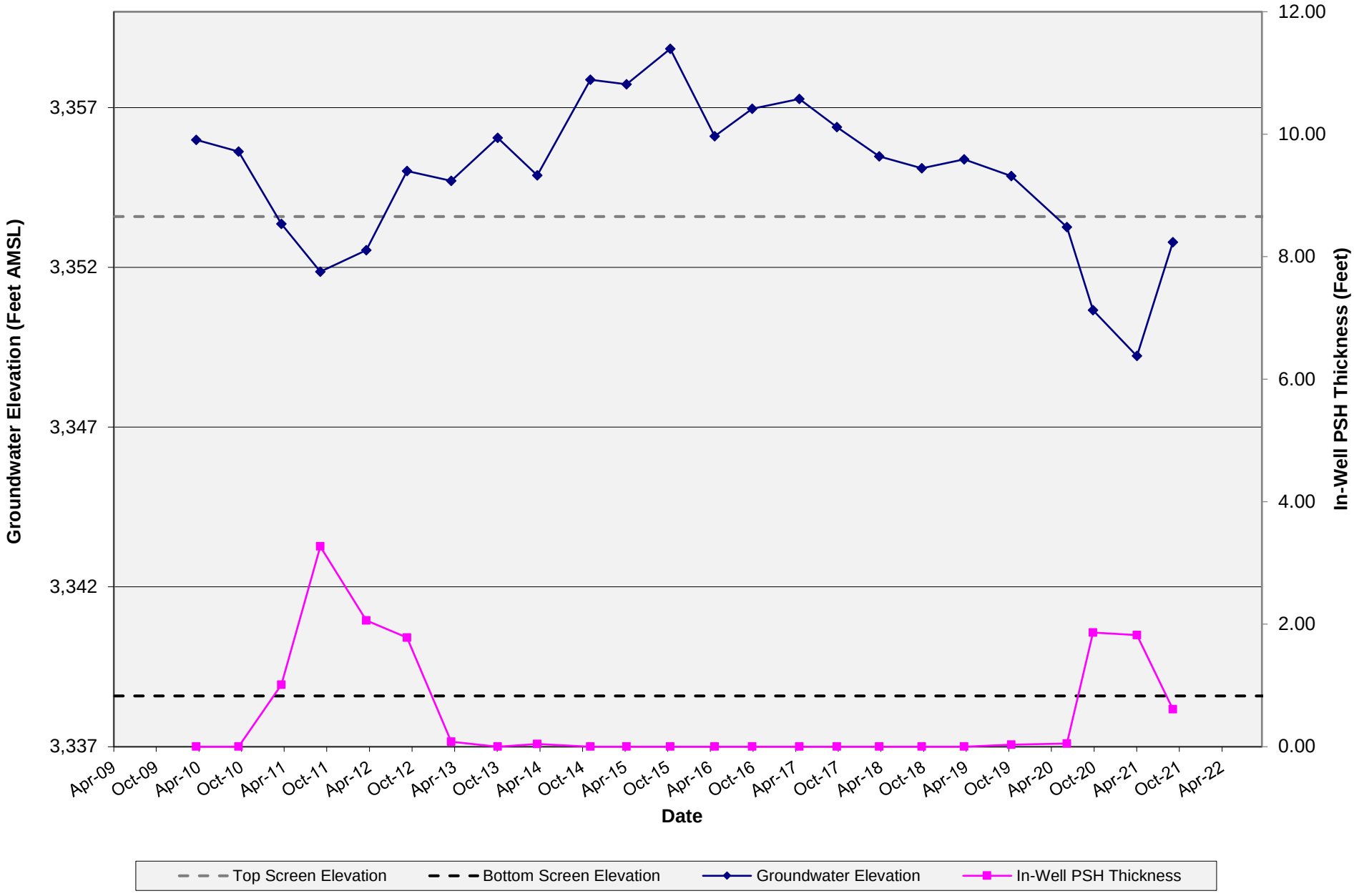


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MW-67: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

North Refinery

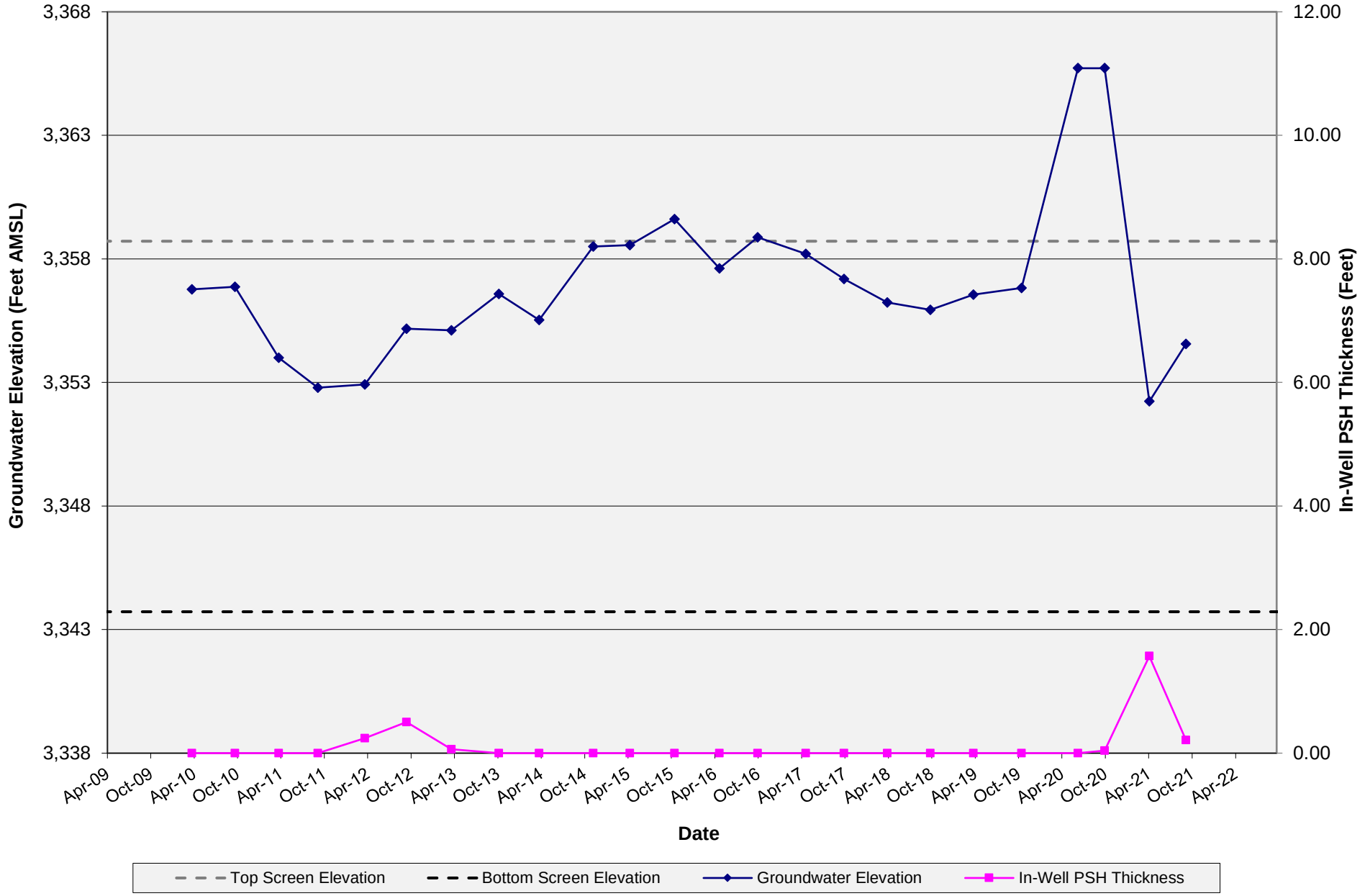


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MW-91: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

North Refinery

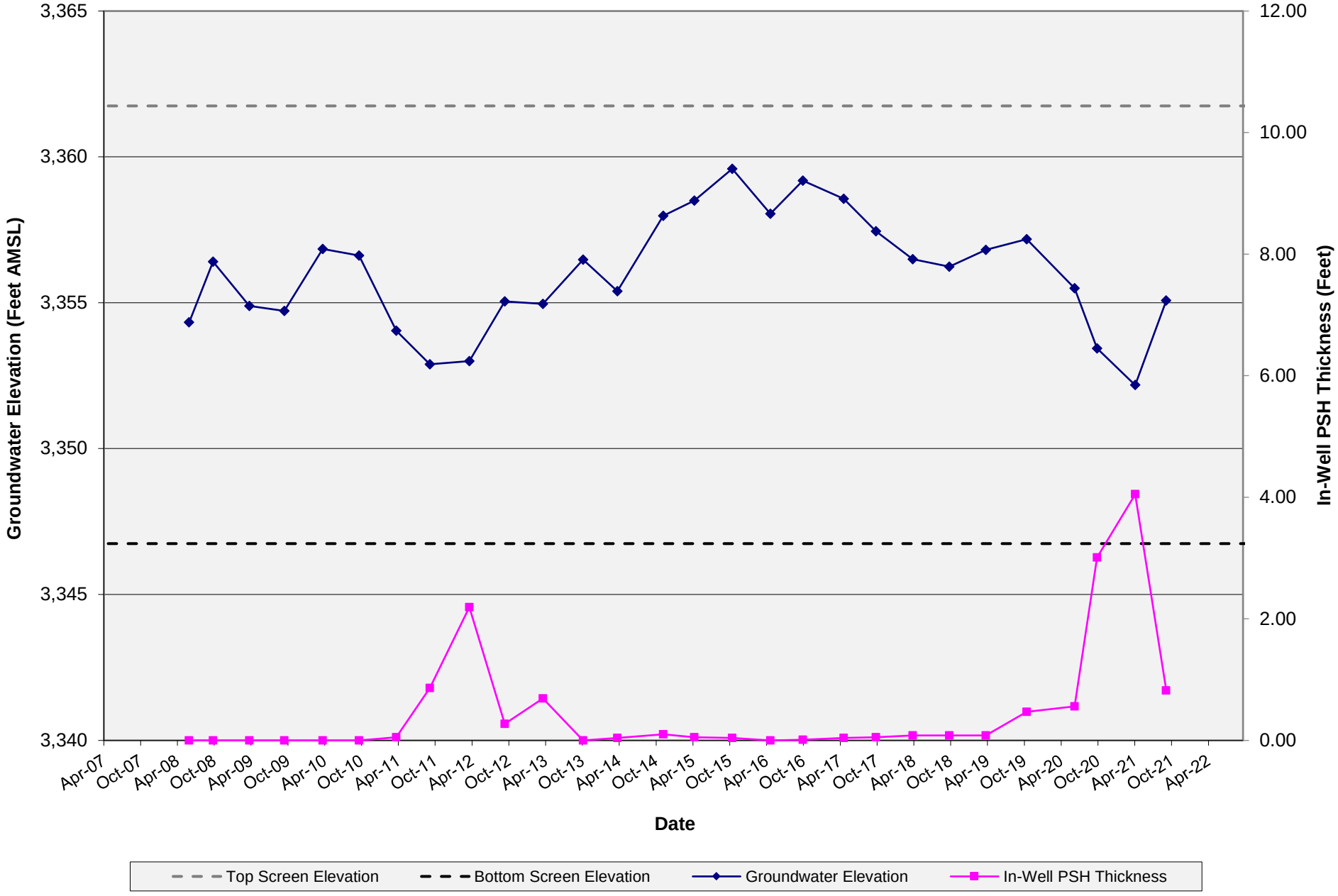


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MW-92: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

North Refinery

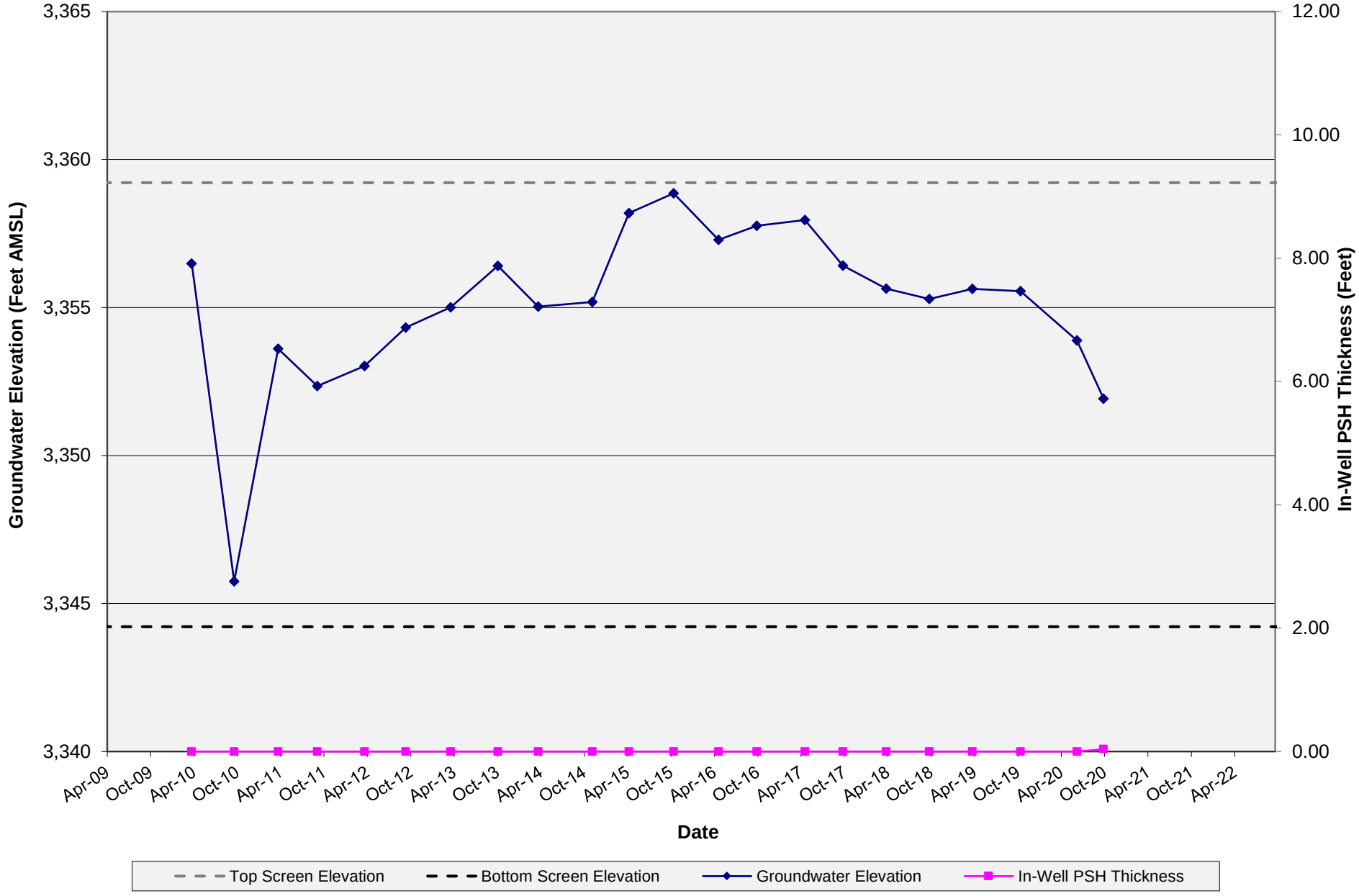


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MW-93: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

North Refinery

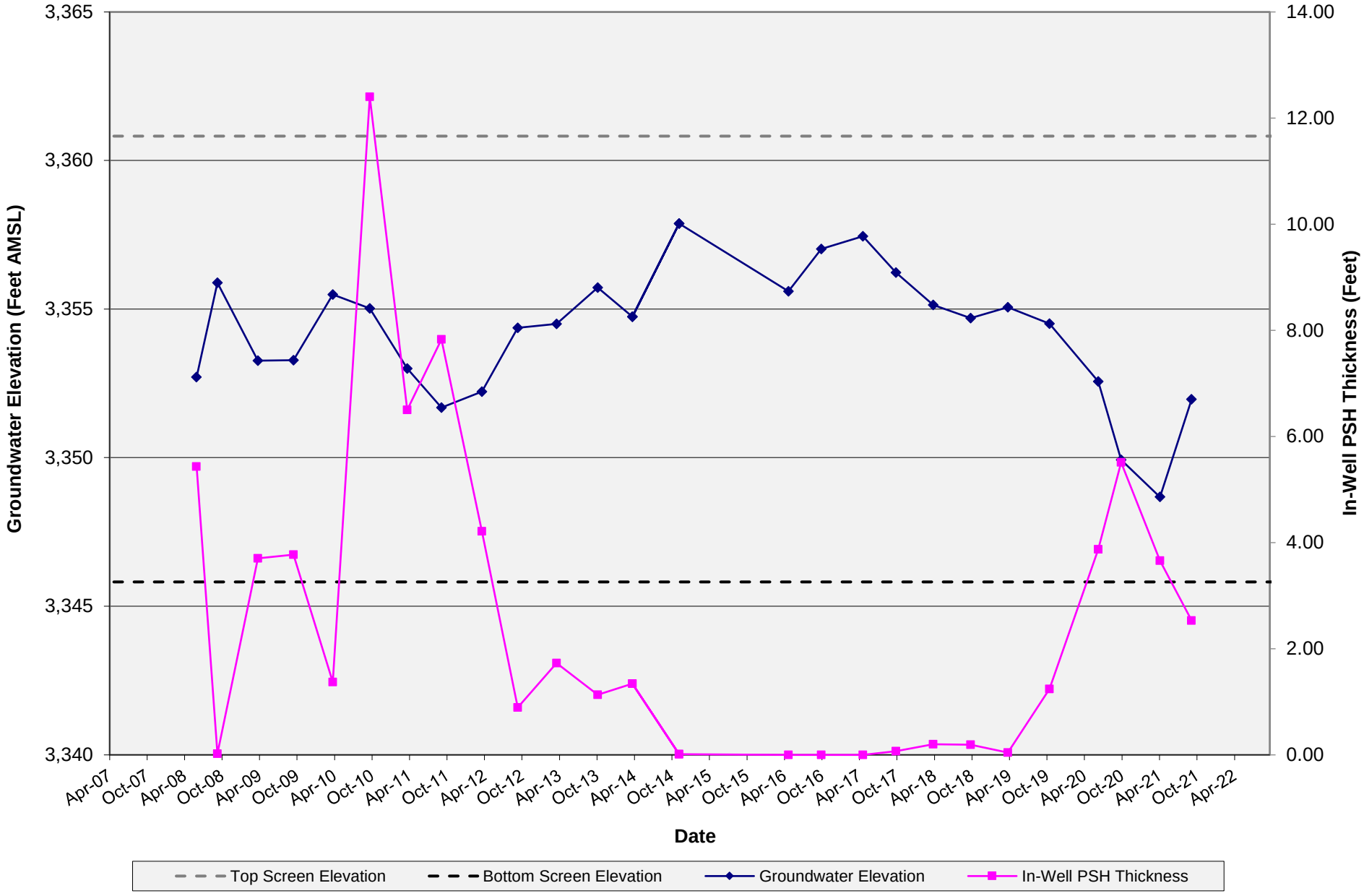


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MW-94: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

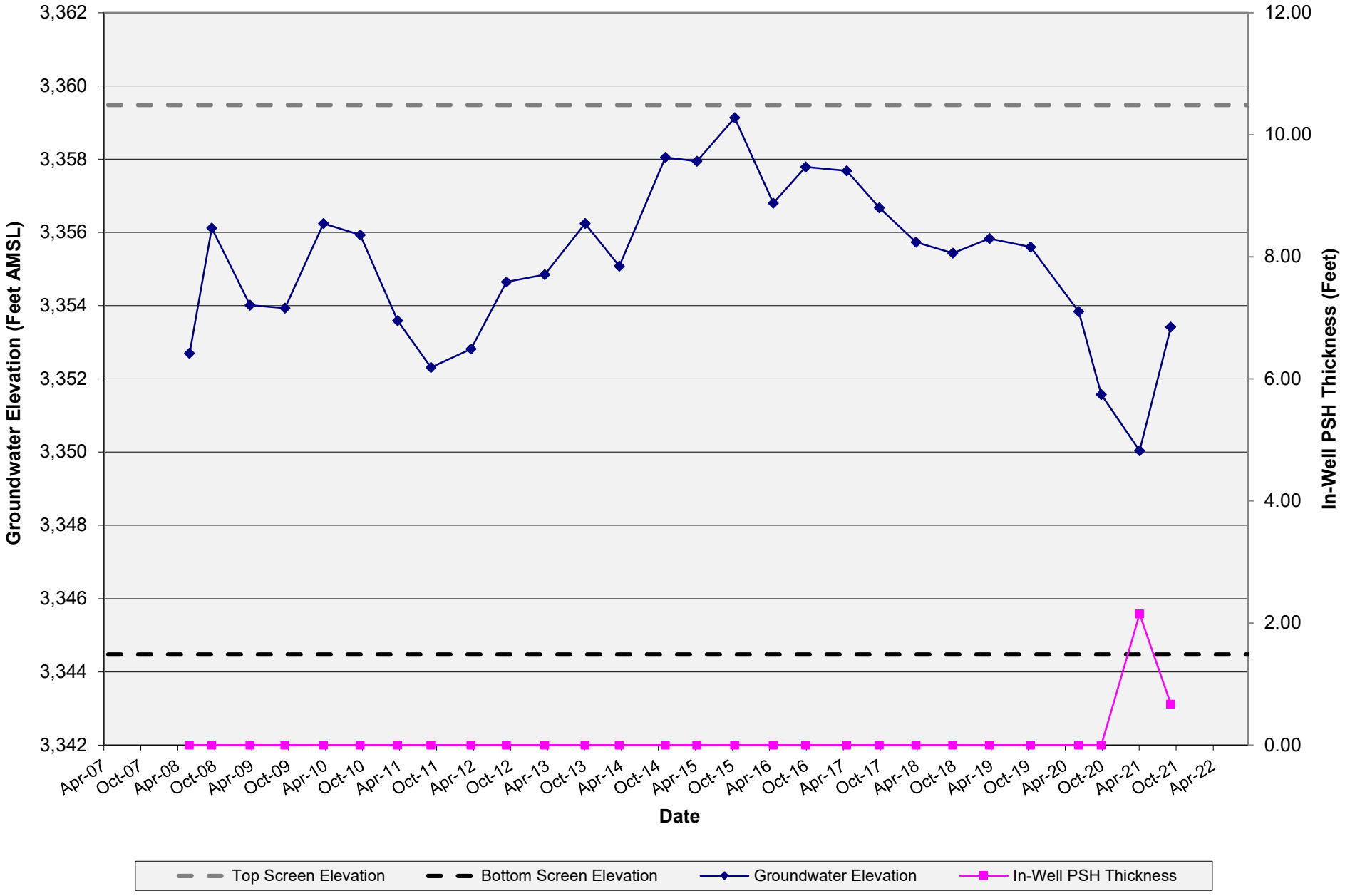
North Refinery



MW-95: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

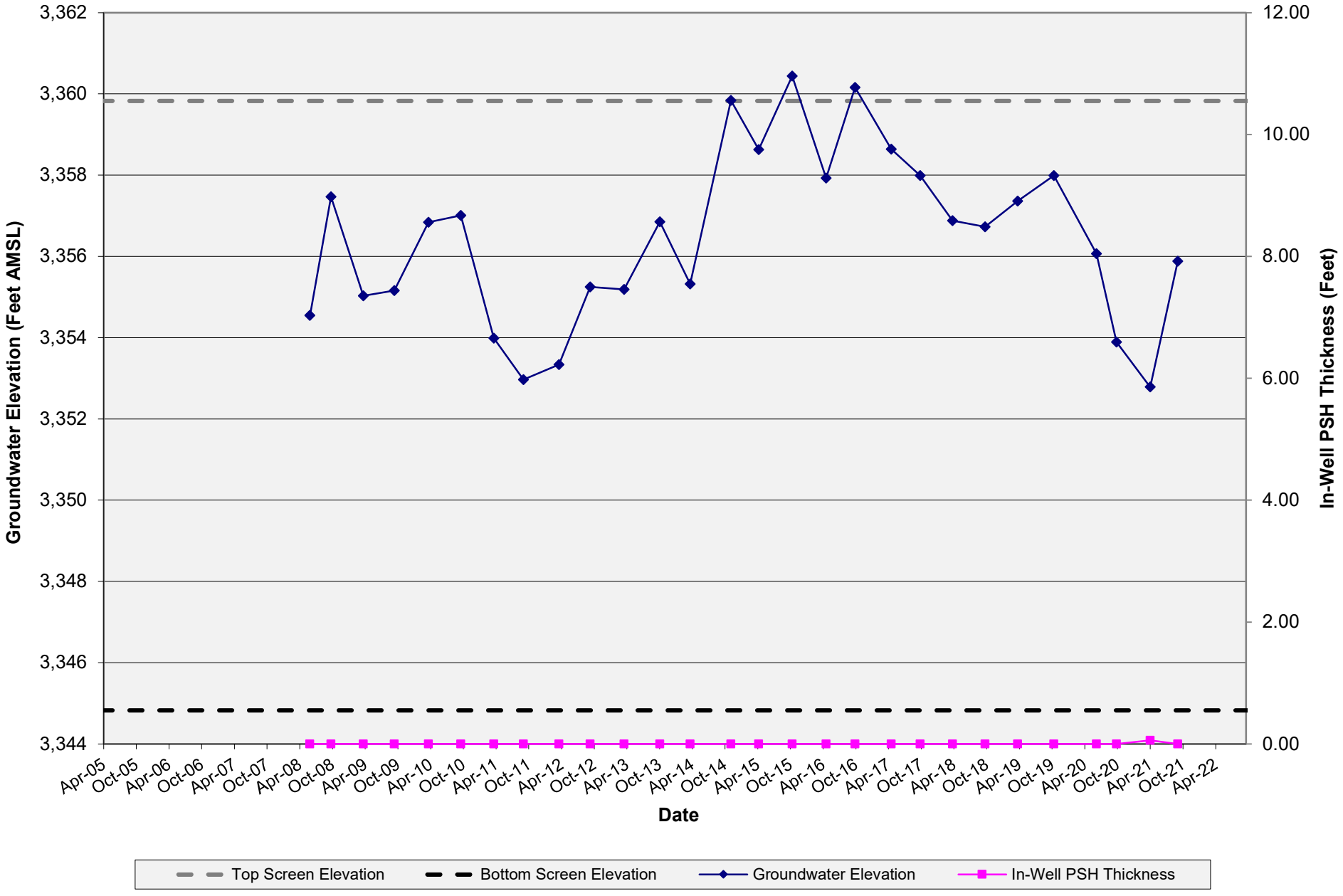
North Refinery



MW-96: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

North Refinery

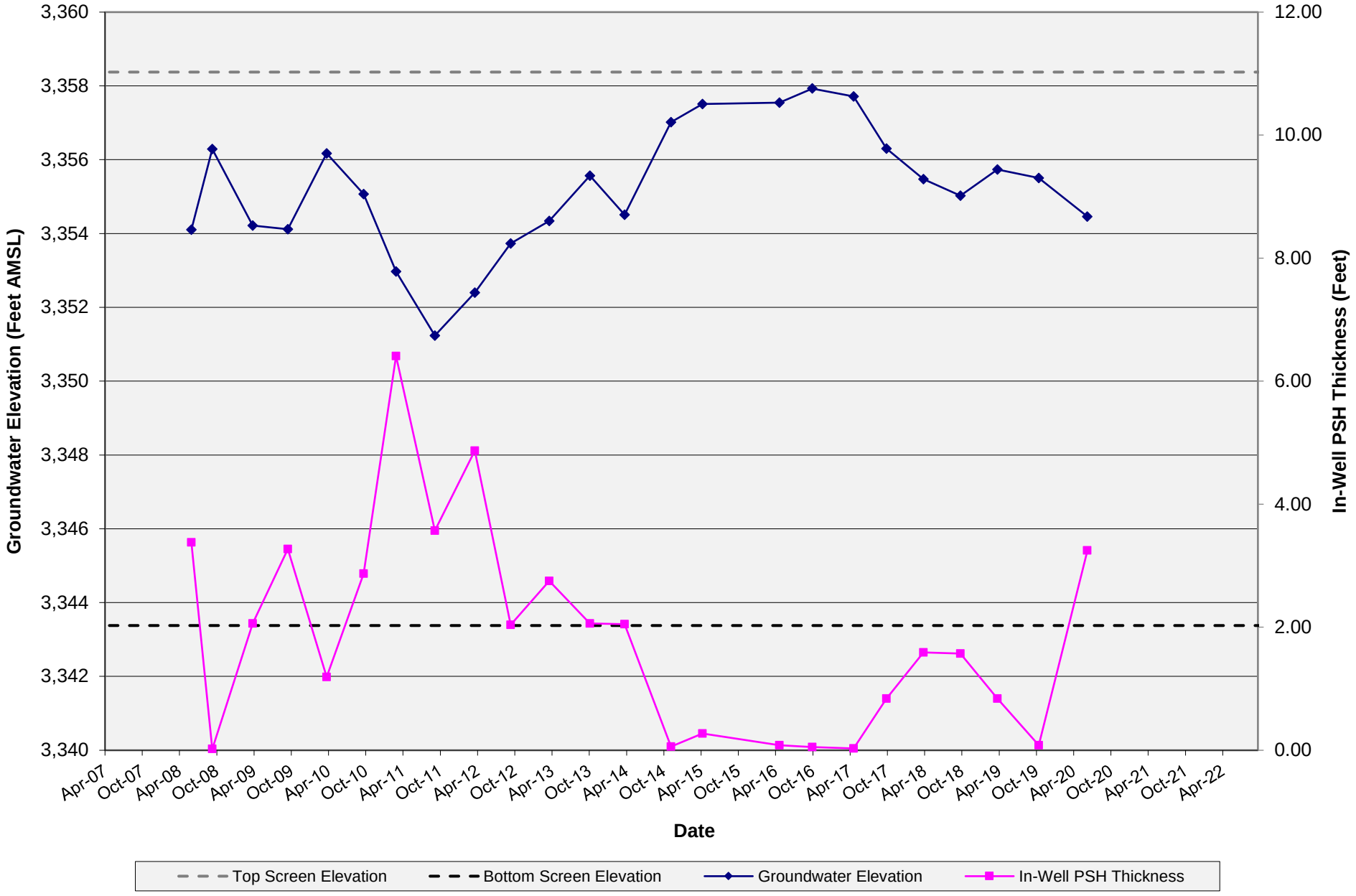


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MW-97: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

North Refinery

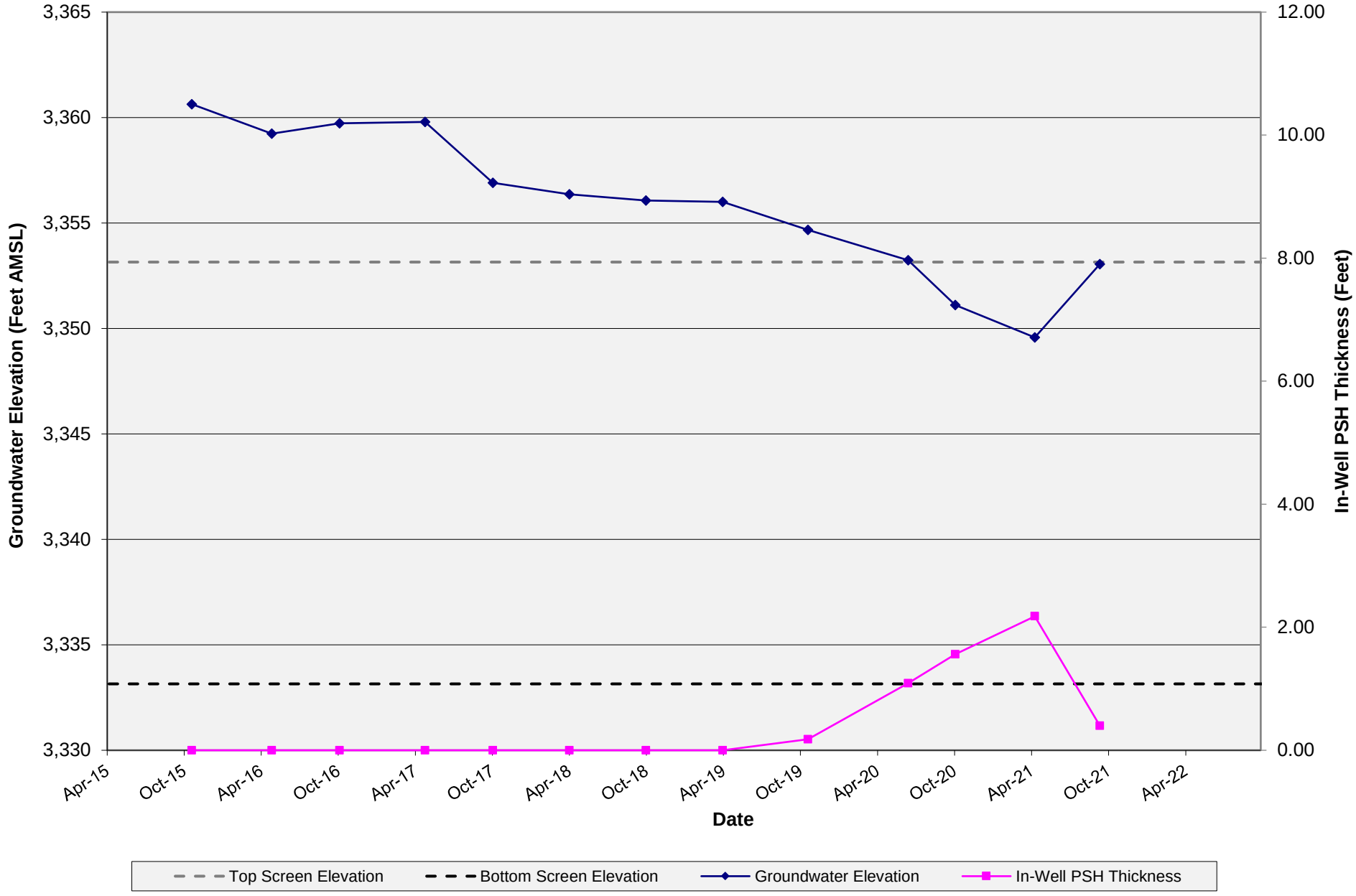


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MW-137: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

North Refinery

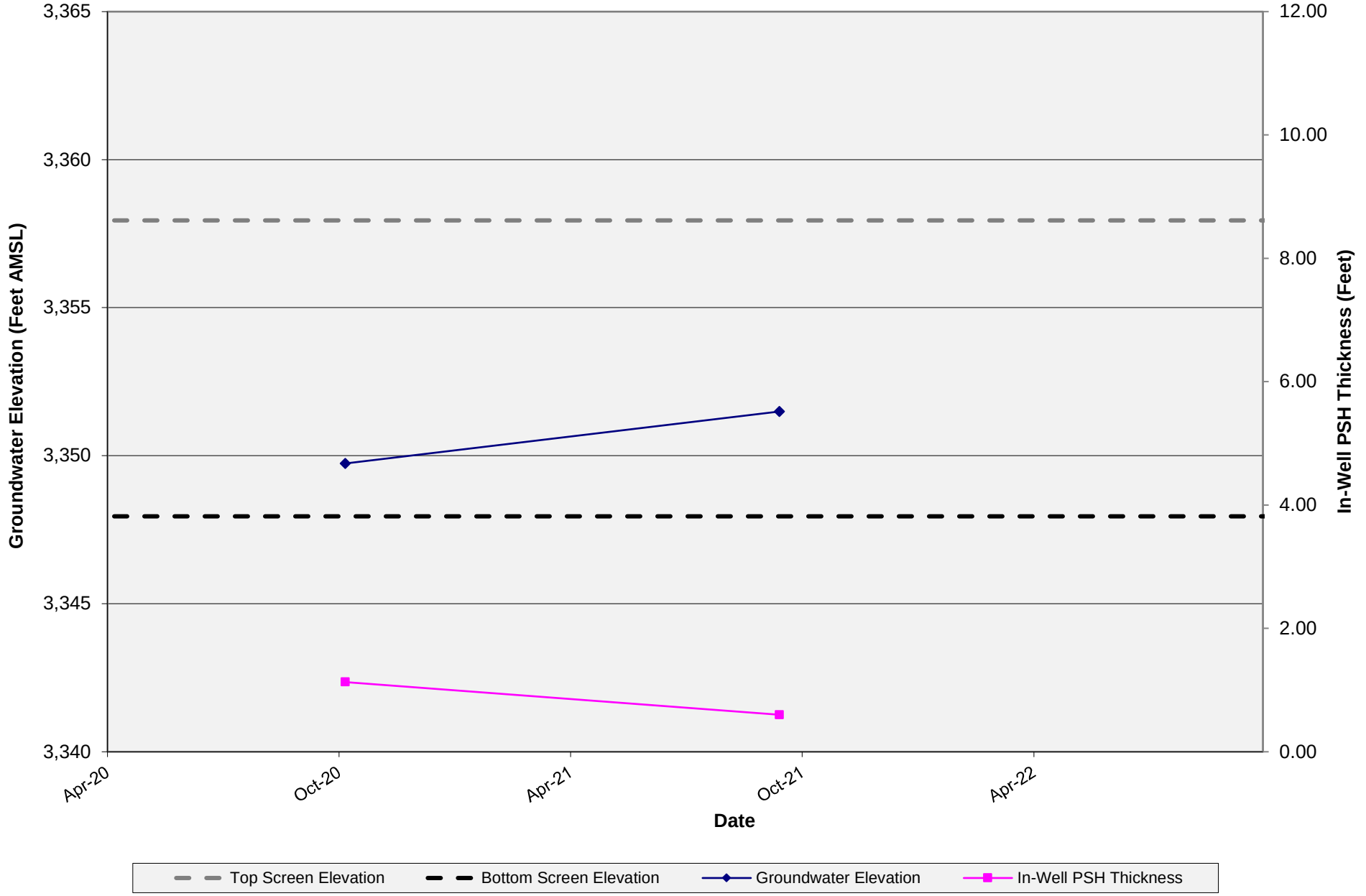


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MW-137A: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

North Refinery

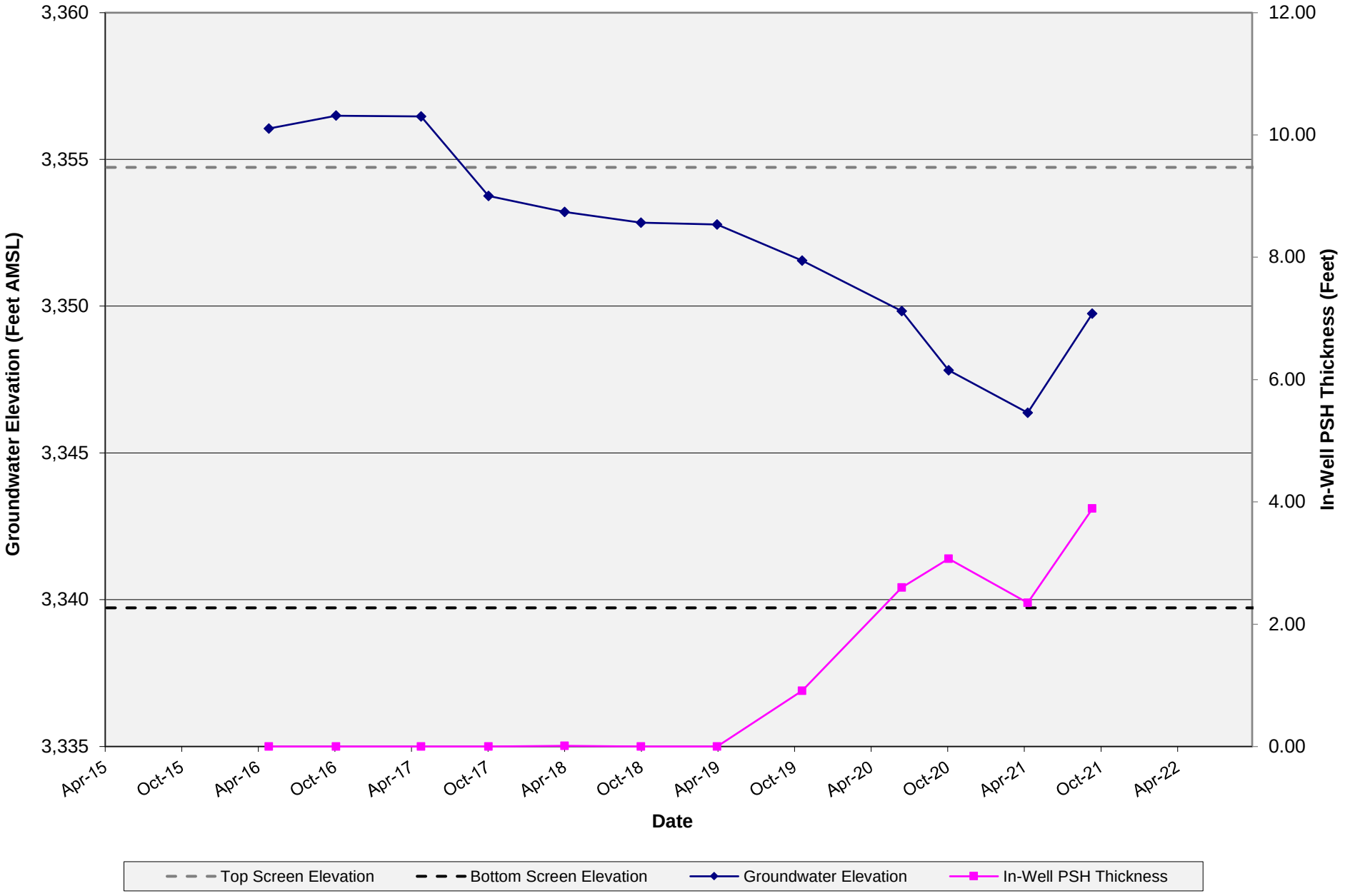


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MW-138: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

North Refinery

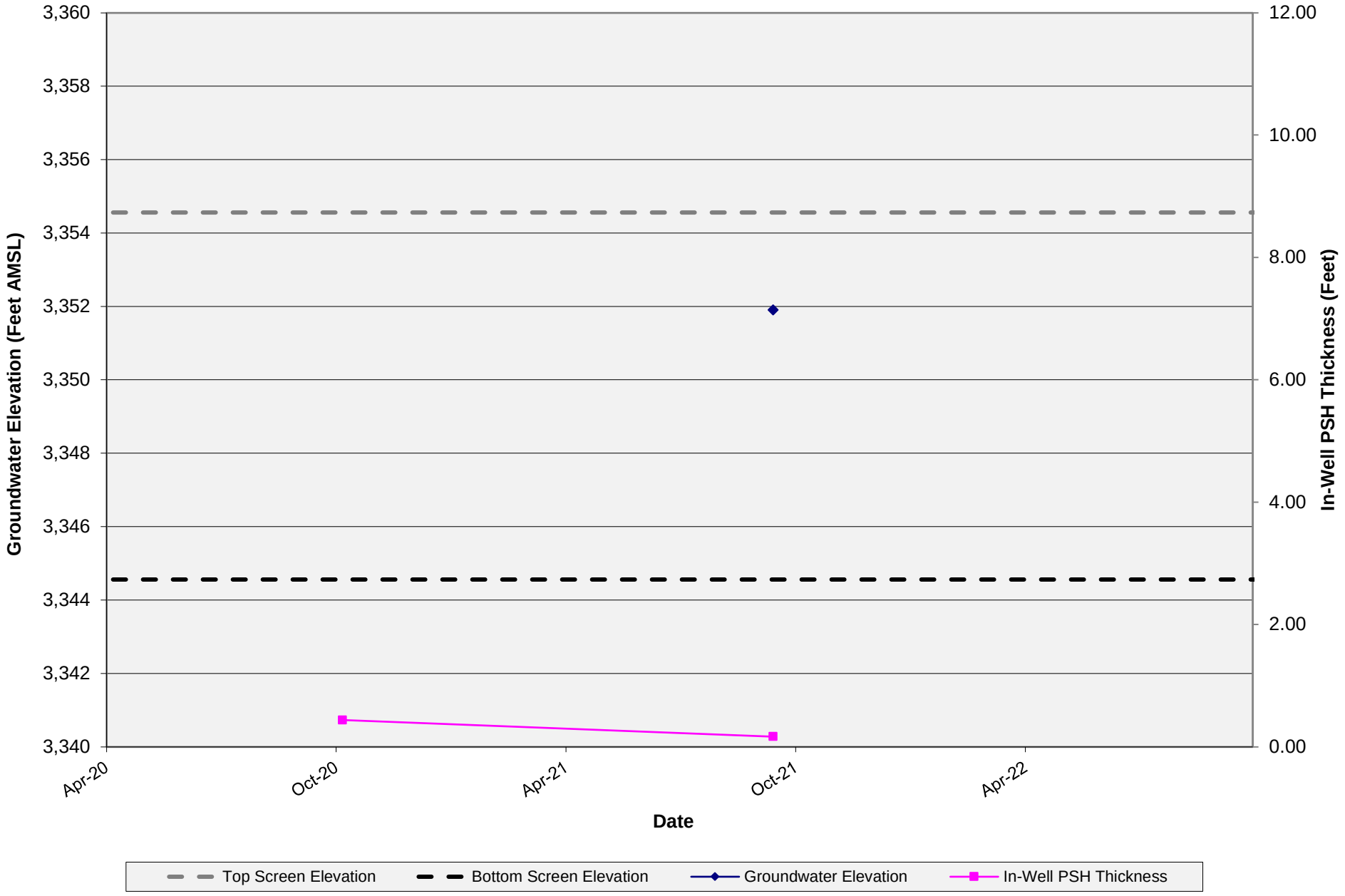


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MW-138A: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

North Refinery

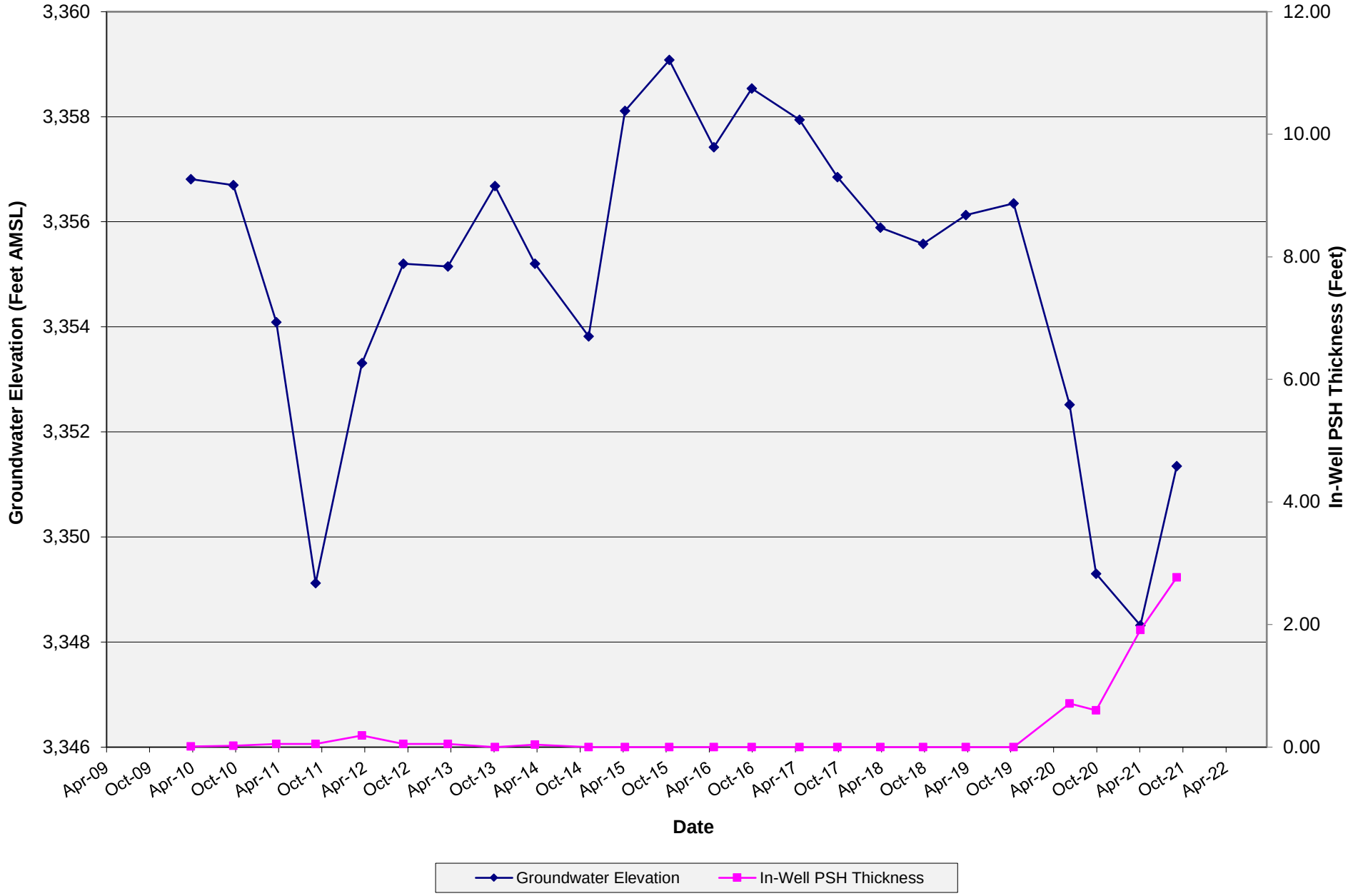


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RW-1 & RW-1R: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

North Refinery

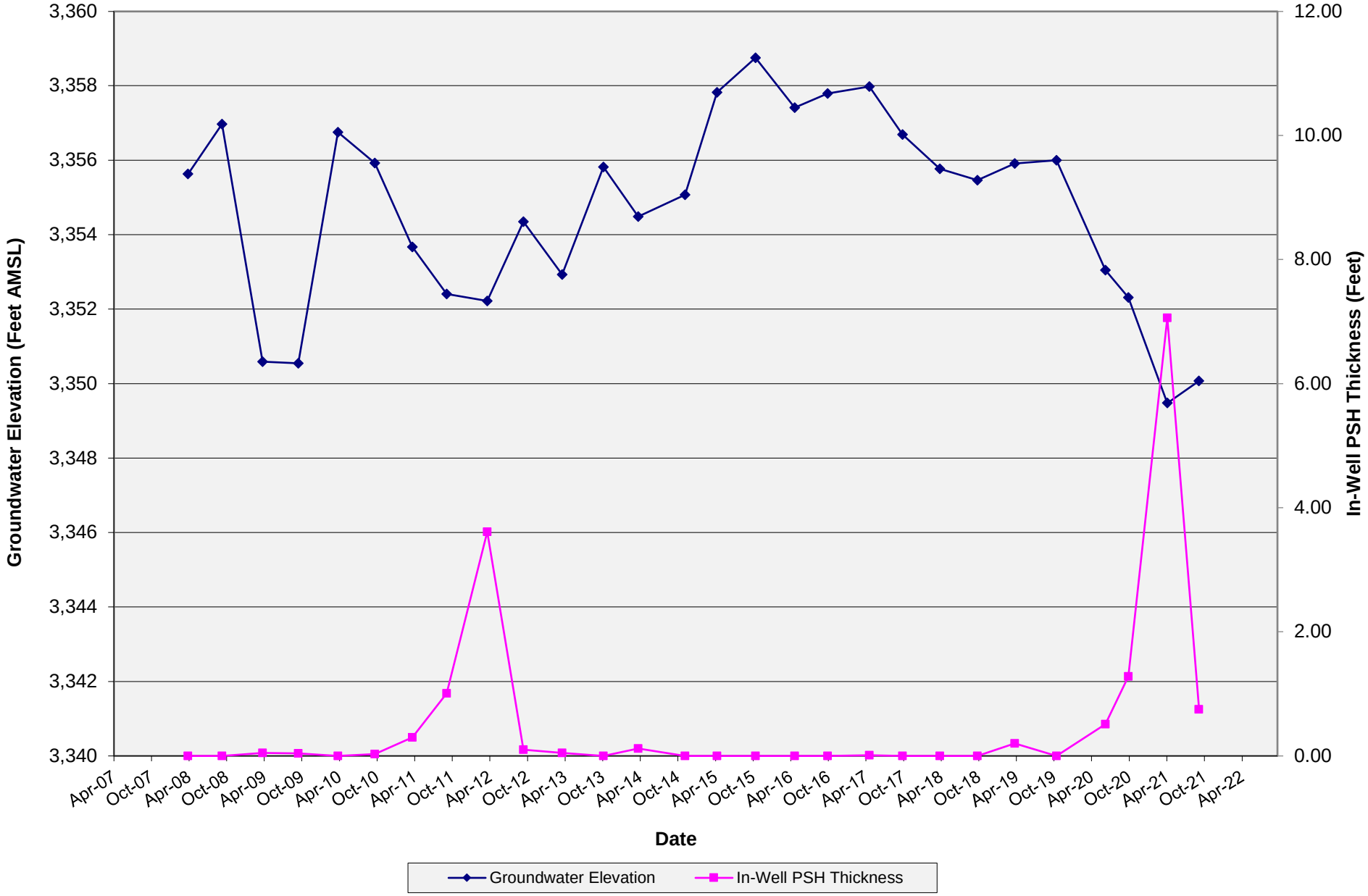


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RW-2: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

North Refinery

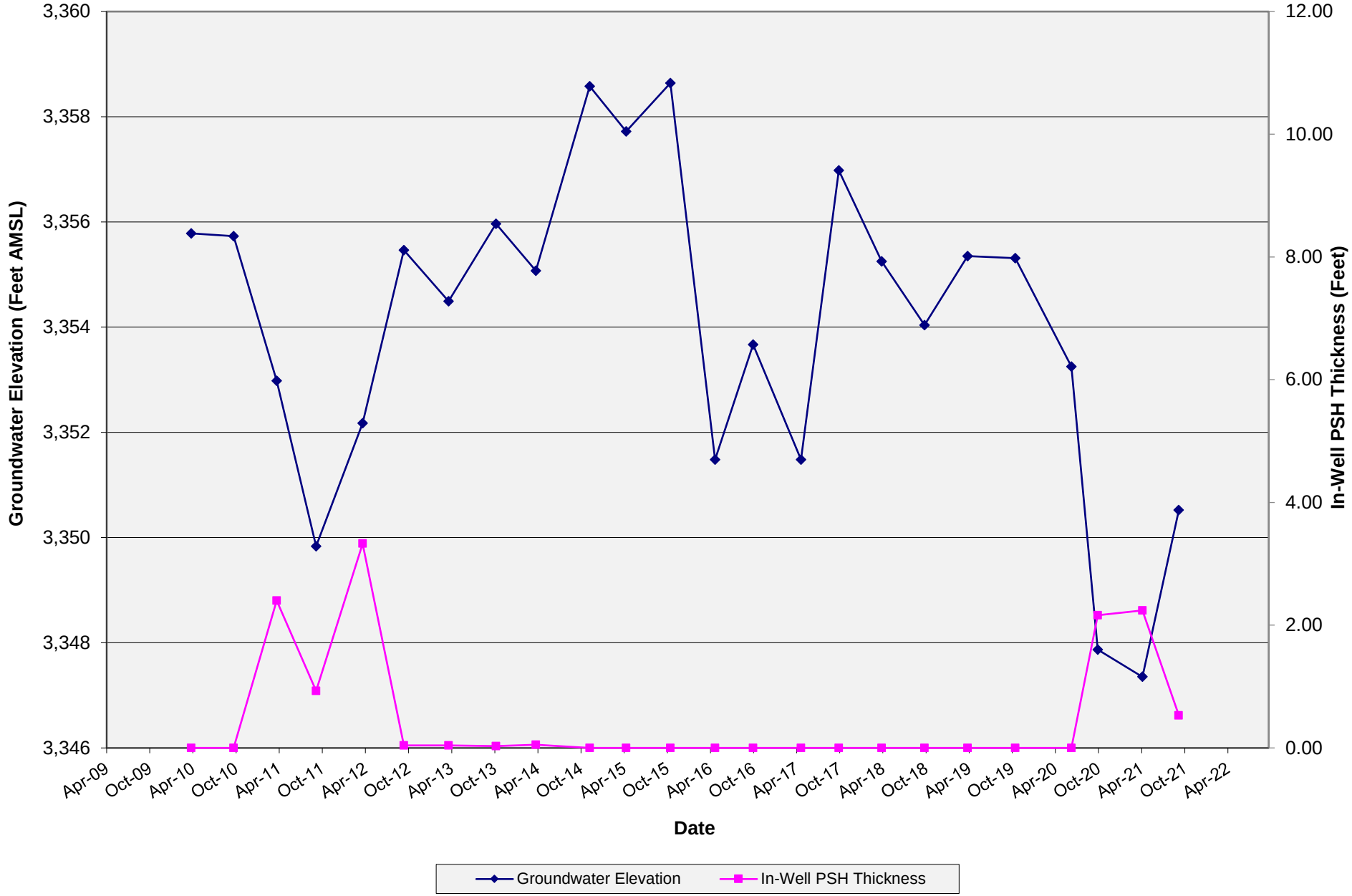


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RW-7 & RW-7R: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

North Refinery

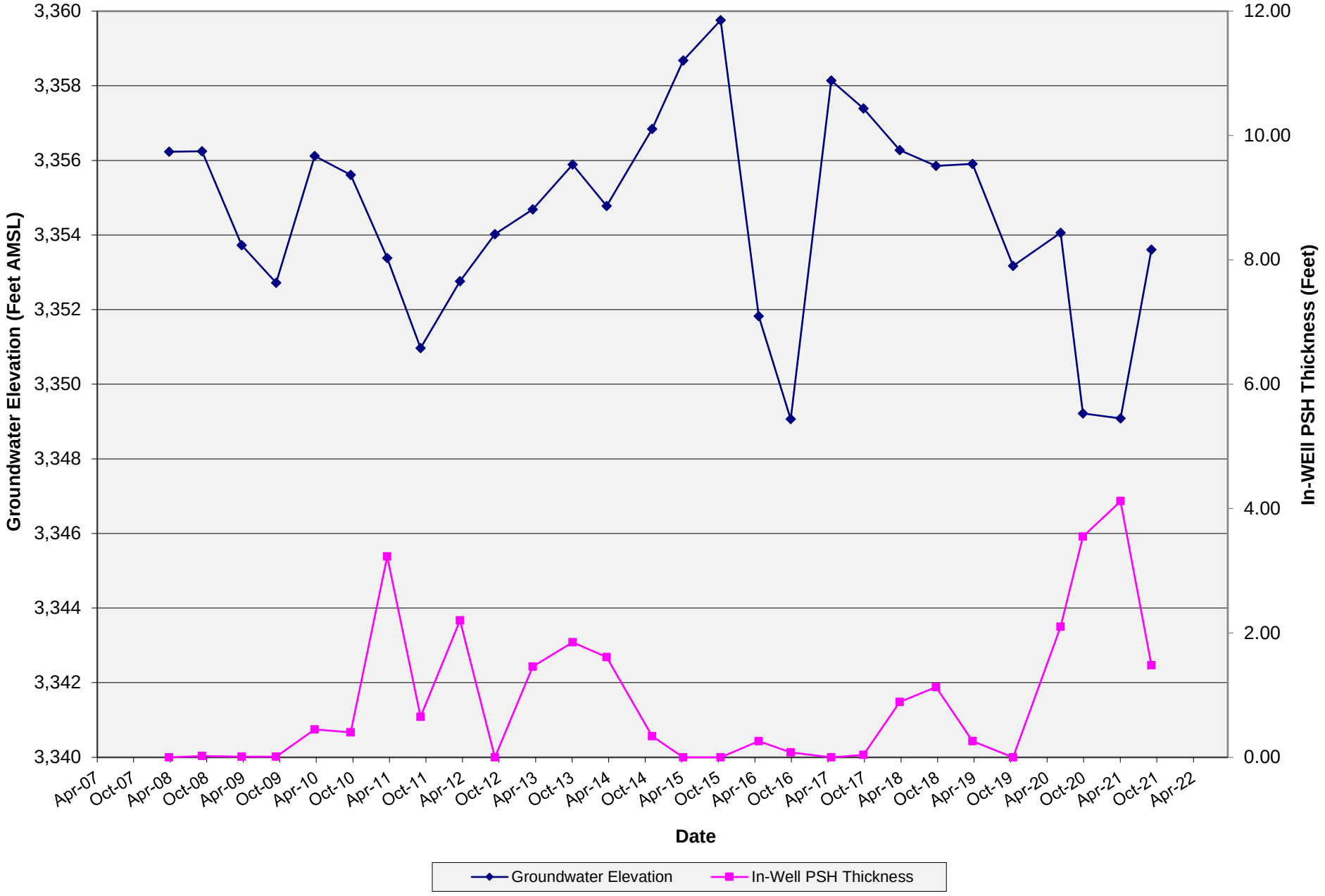


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RW-8: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

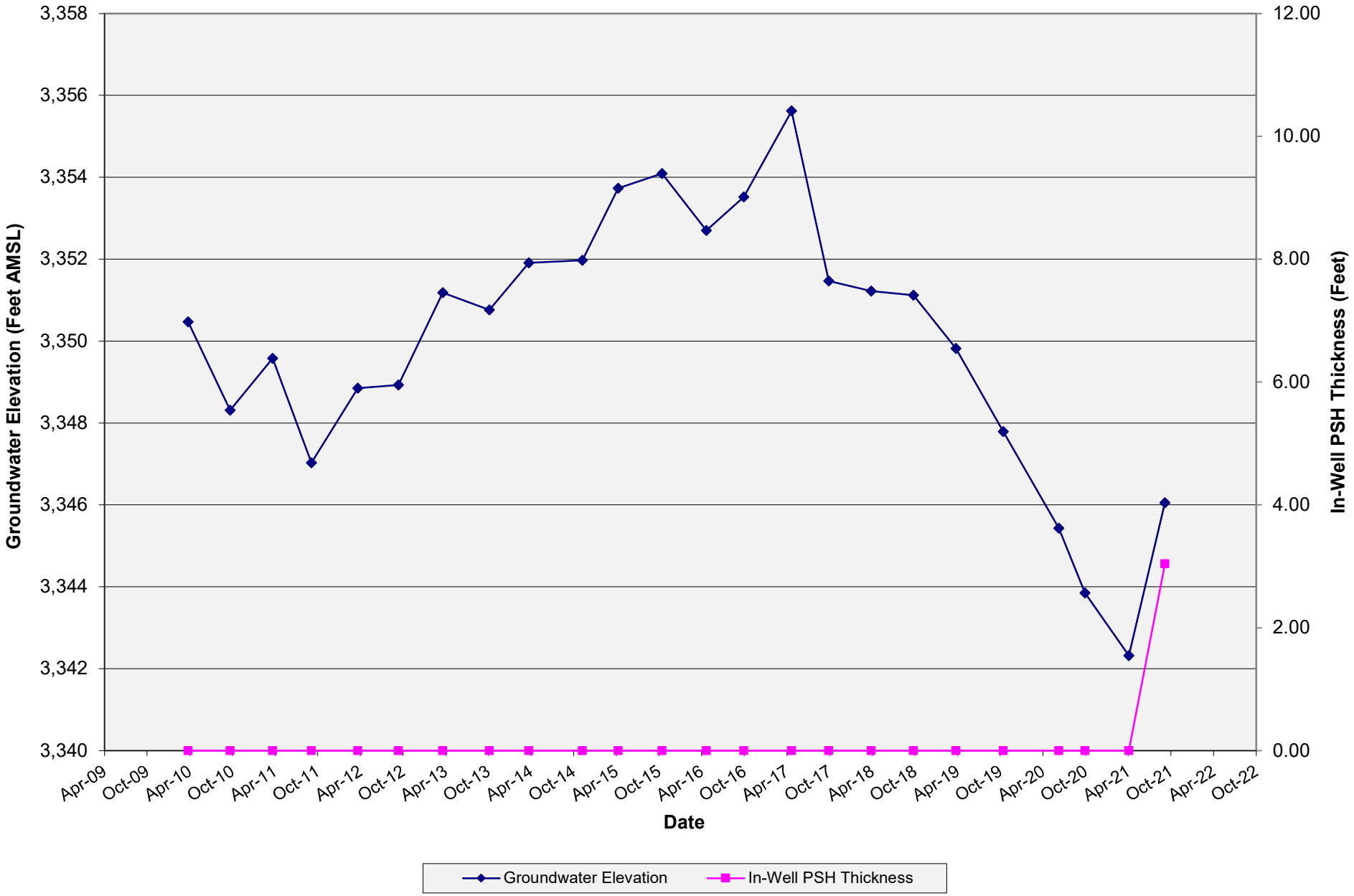
North Refinery



RW-10: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

North Refinery

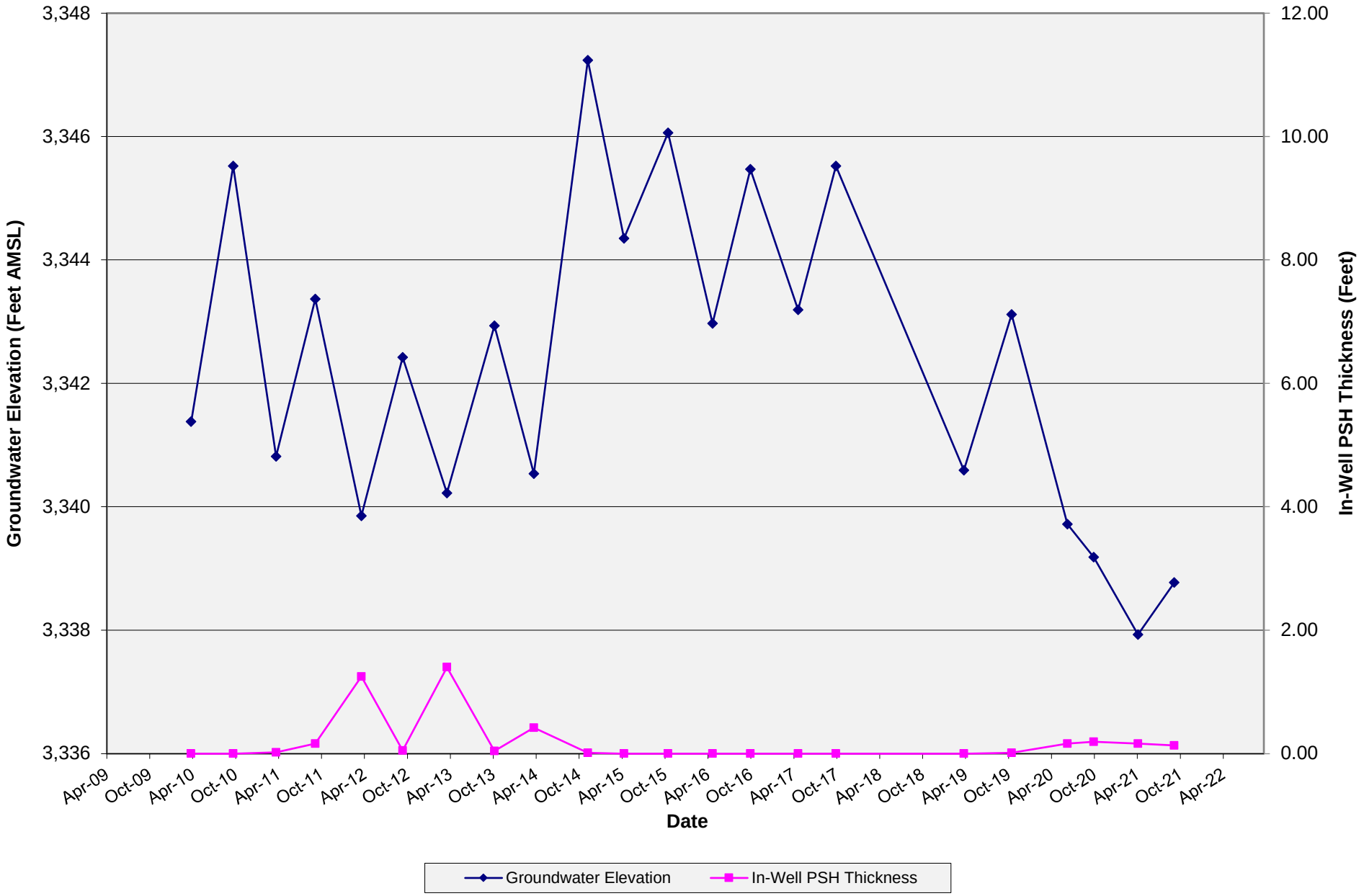


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KWB-2R: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

South Refinery

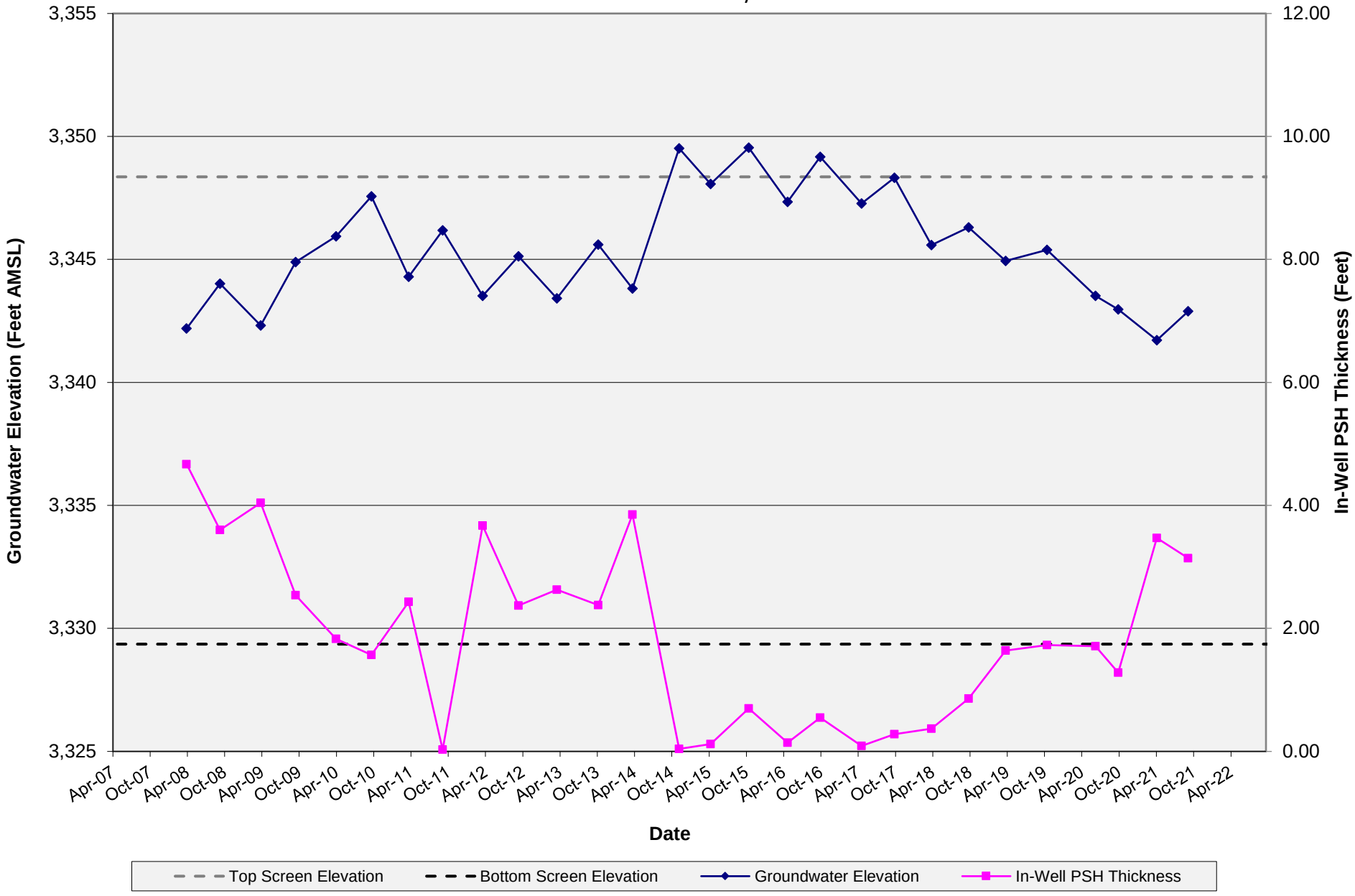


Released to Imaging: 2/7/2025 11:08:22 AM
Received by OCD: 1/9/2025 2:41:44 PM

KWB-4: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

South Refinery

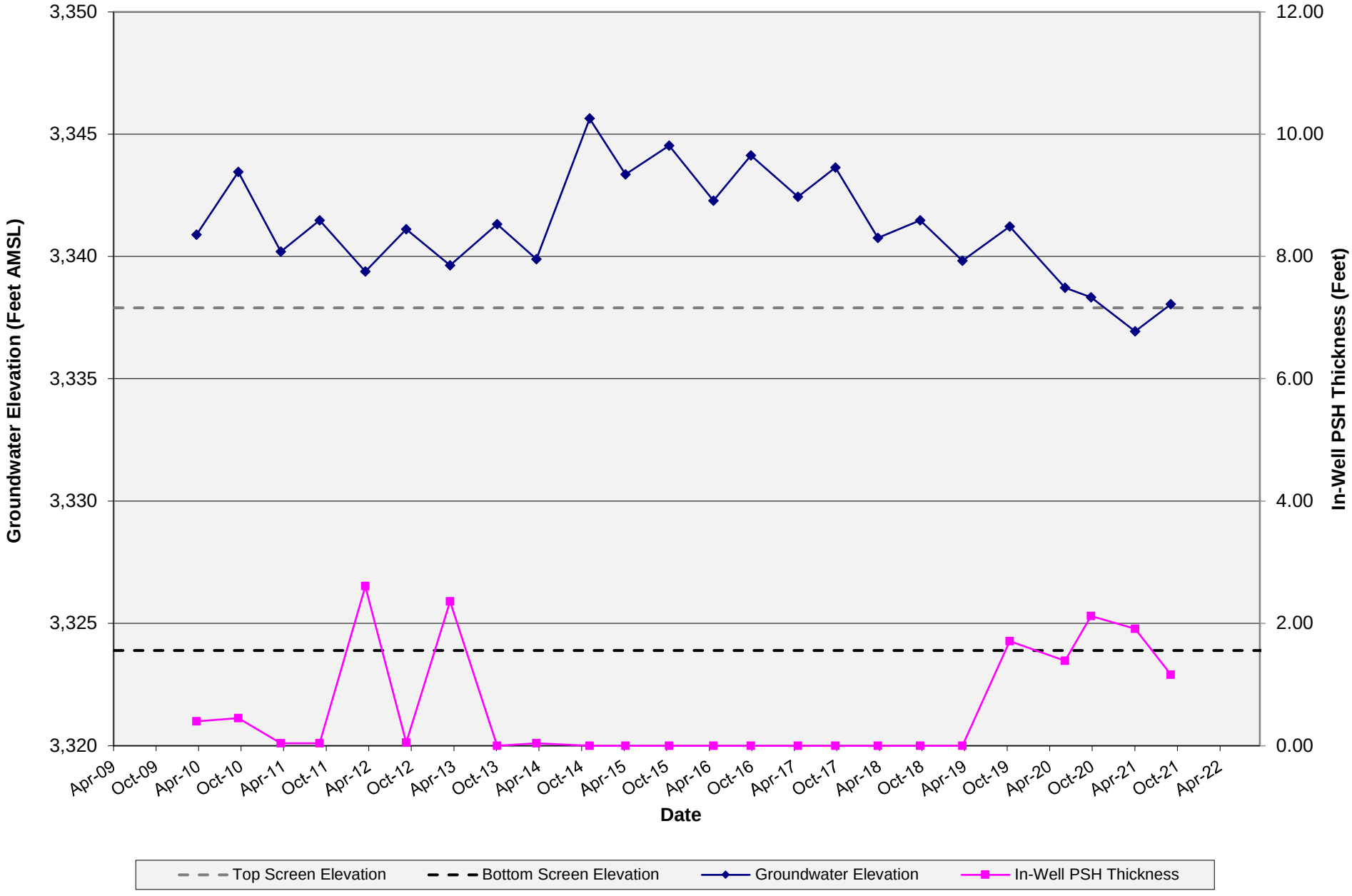


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Received by OCD: 1/9/2025 2:41:44 PM

KWB-5: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

South Refinery

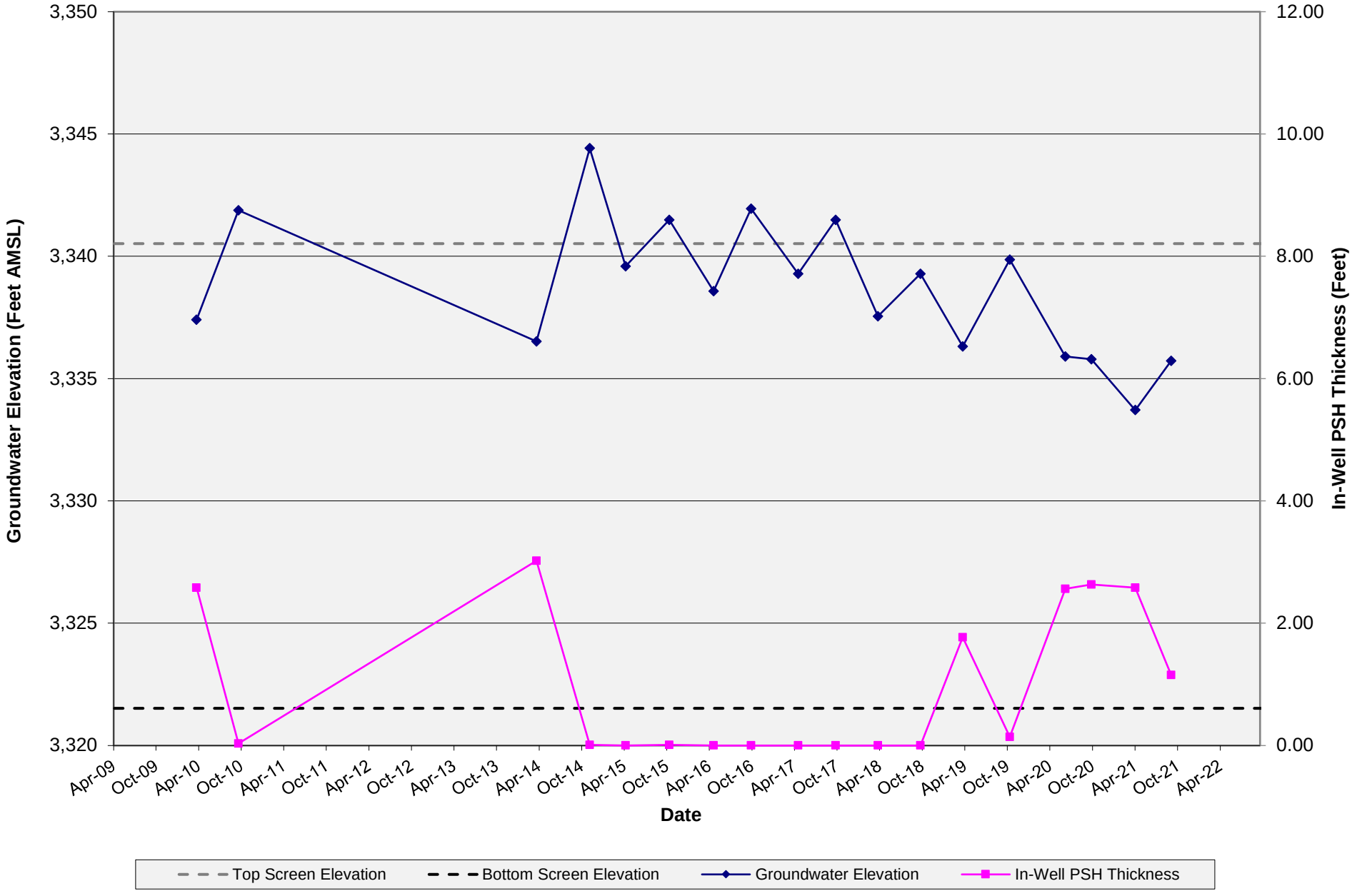


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Received by OCD: 1/9/2025 2:41:44 PM

KWB-6: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

South Refinery

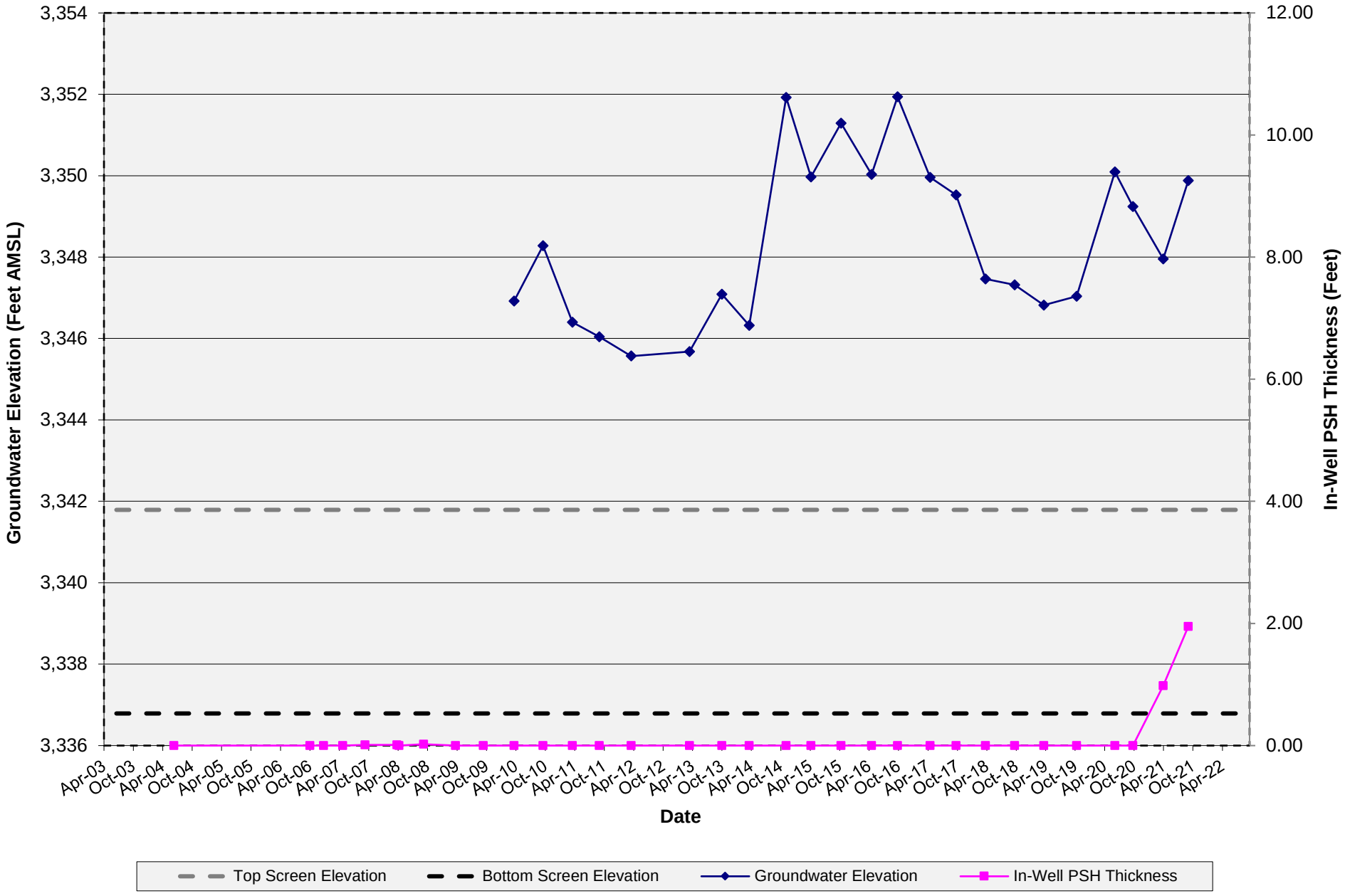


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Received by OCD: 1/9/2025 2:41:44 PM

MW-28: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

South Refinery

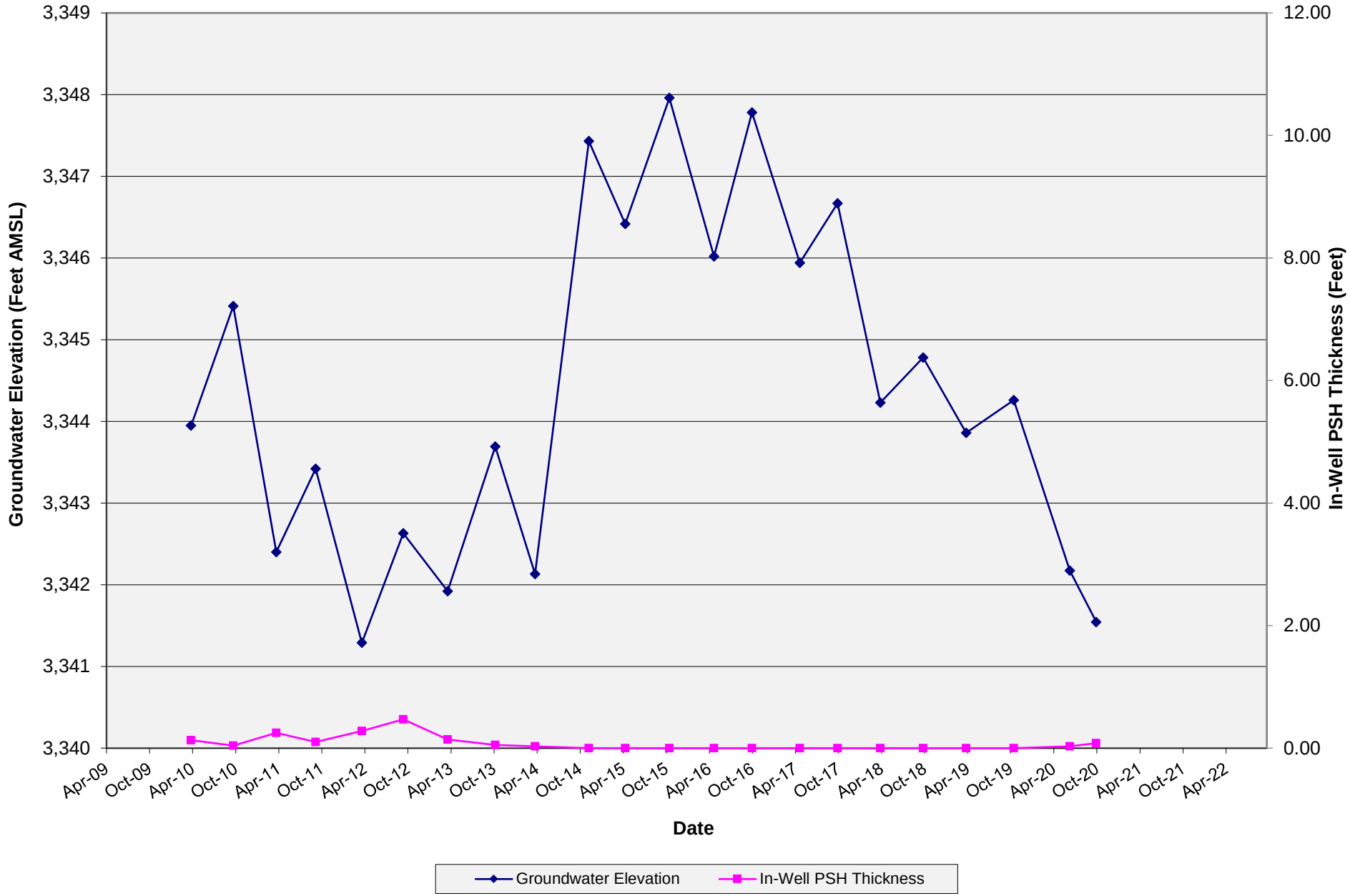


Released to Imaging: 2/7/2025 11:08:22 AM
Received by OCD: 1/9/2025 2:41:44 PM

MW-48: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

South Refinery

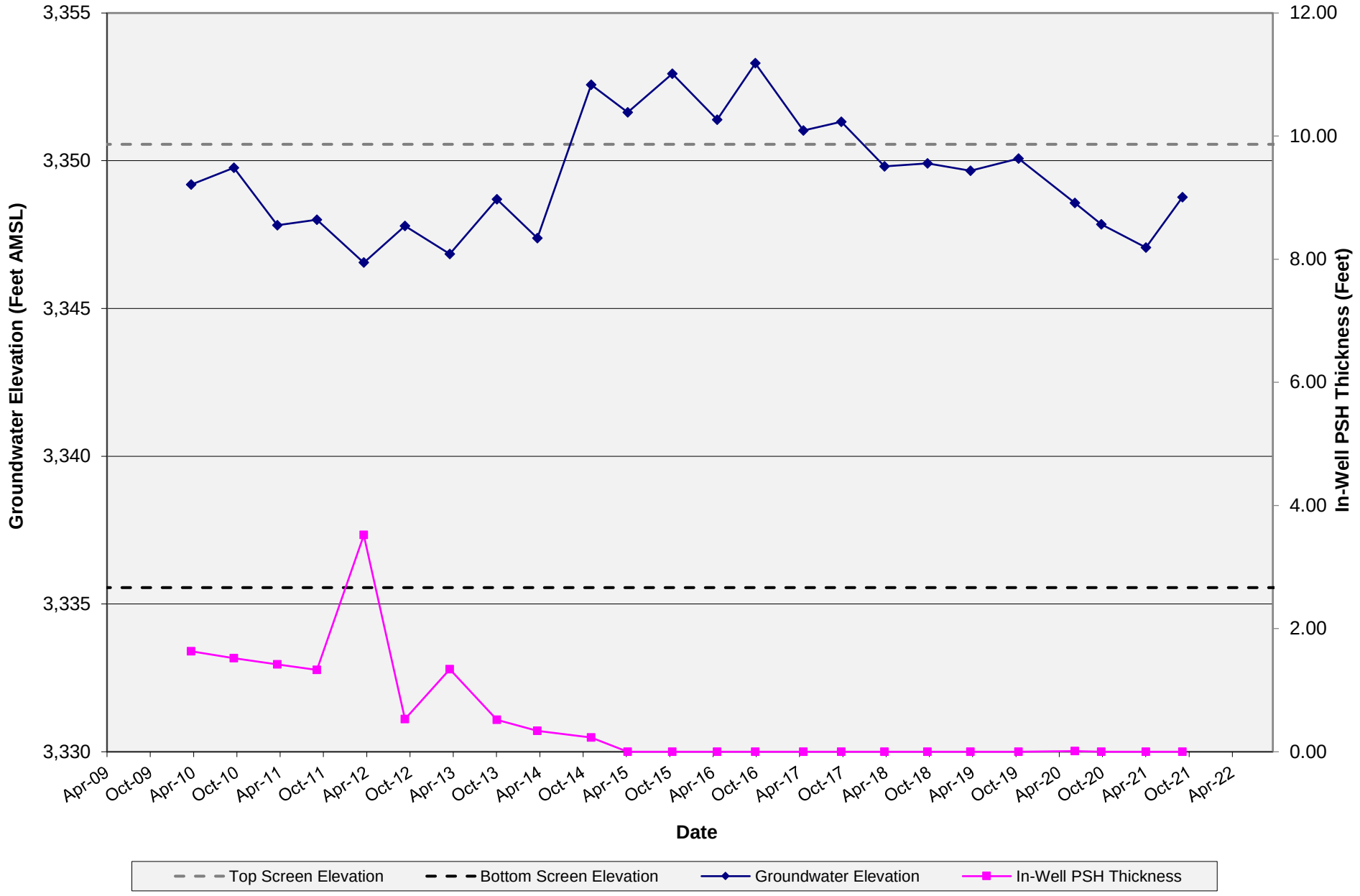


Released to Imaging: 2/7/2025 11:08:22 AM
Received by OCD: 1/9/2025 2:41:44 PM

MW-64: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

South Refinery

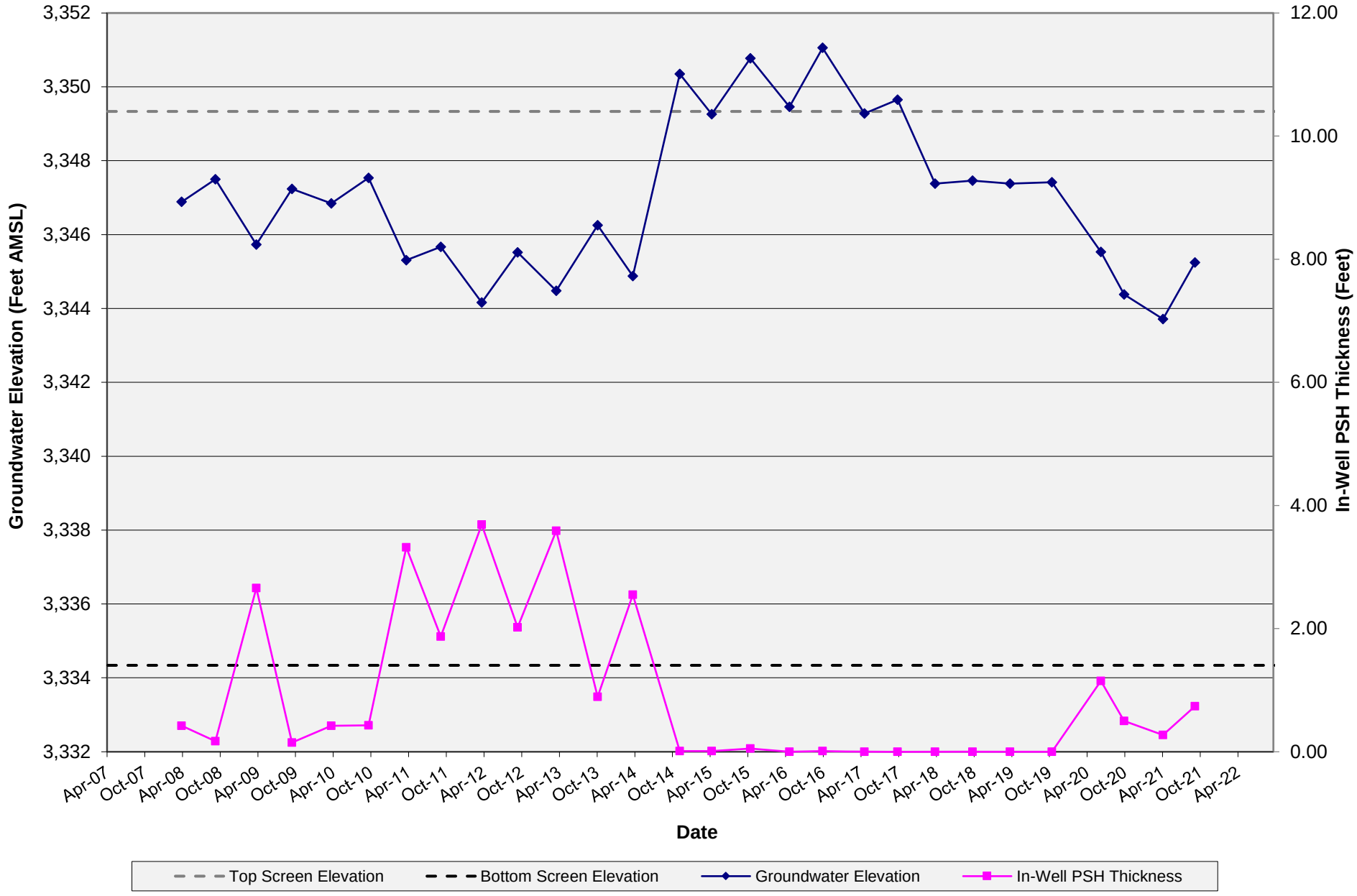


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Received by OCD: 1/9/2025 2:41:44 PM

MW-65: Groundwater Elevations and In-Well PSH Thicknesses

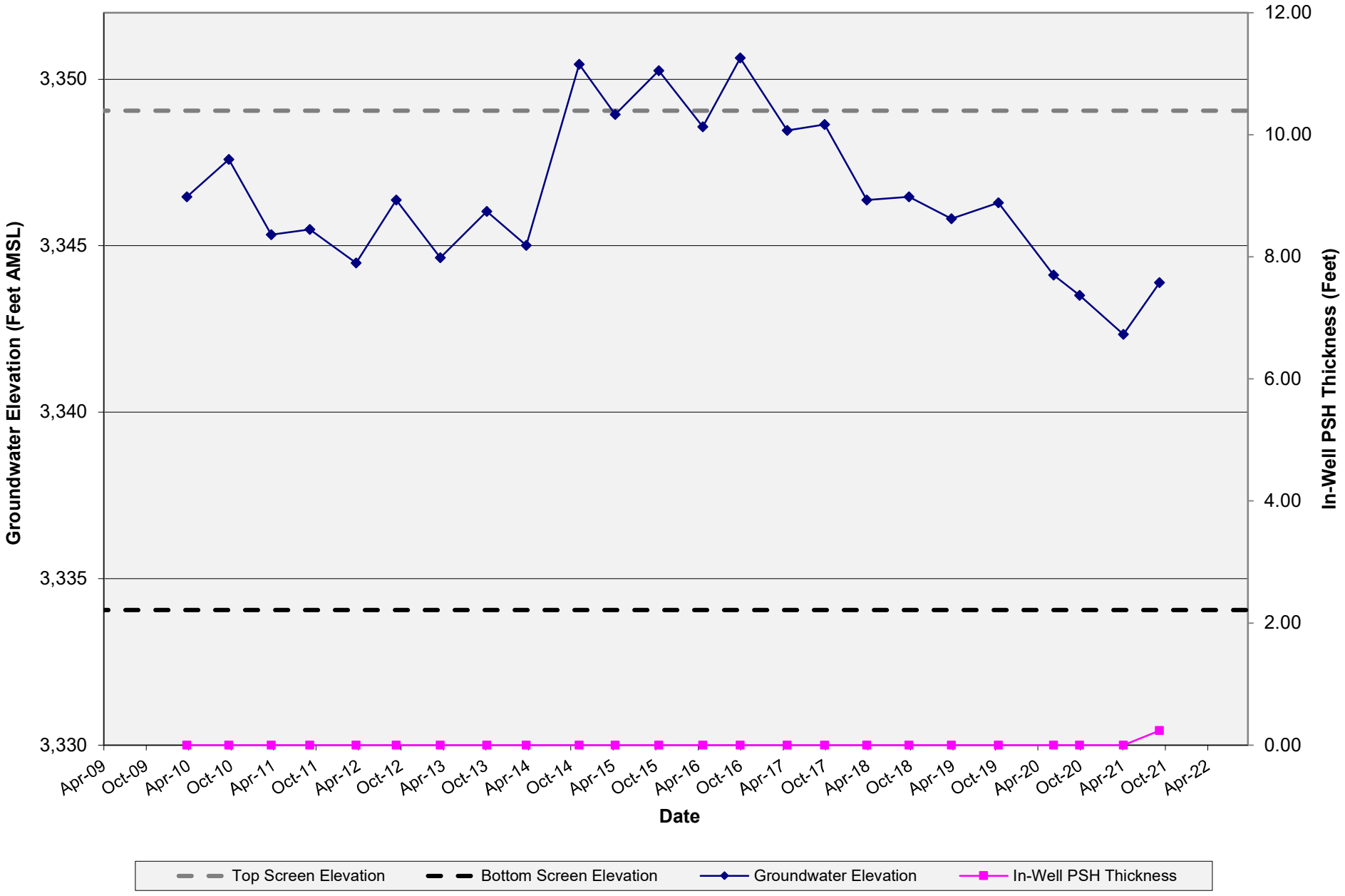
HollyFrontier Navajo Refining LLC - Artesia Refinery

South Refinery



MW-66: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery
South Refinery

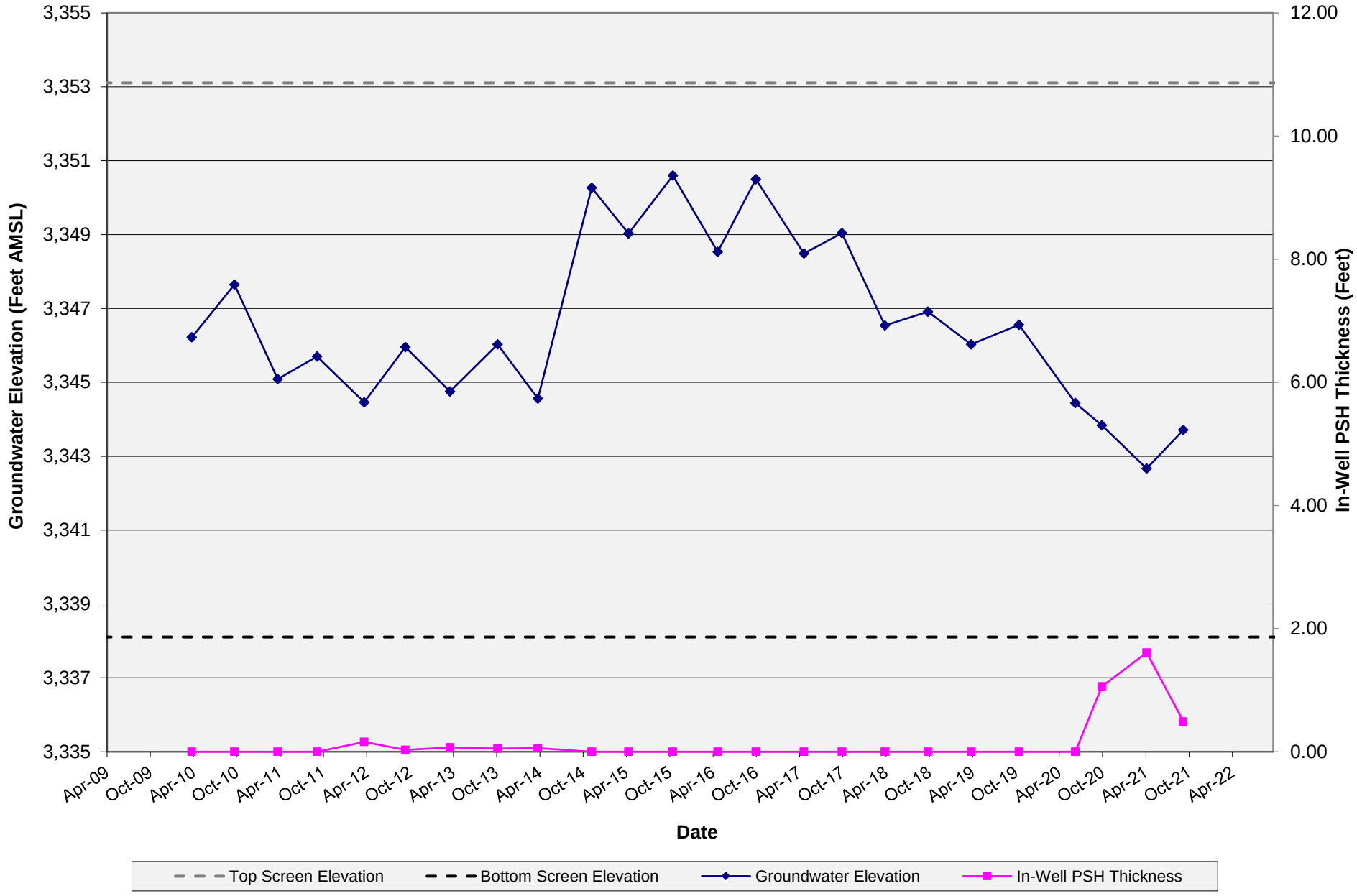


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Received by OCD: 1/9/2025 2:41:44 PM

MW-99: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

South Refinery

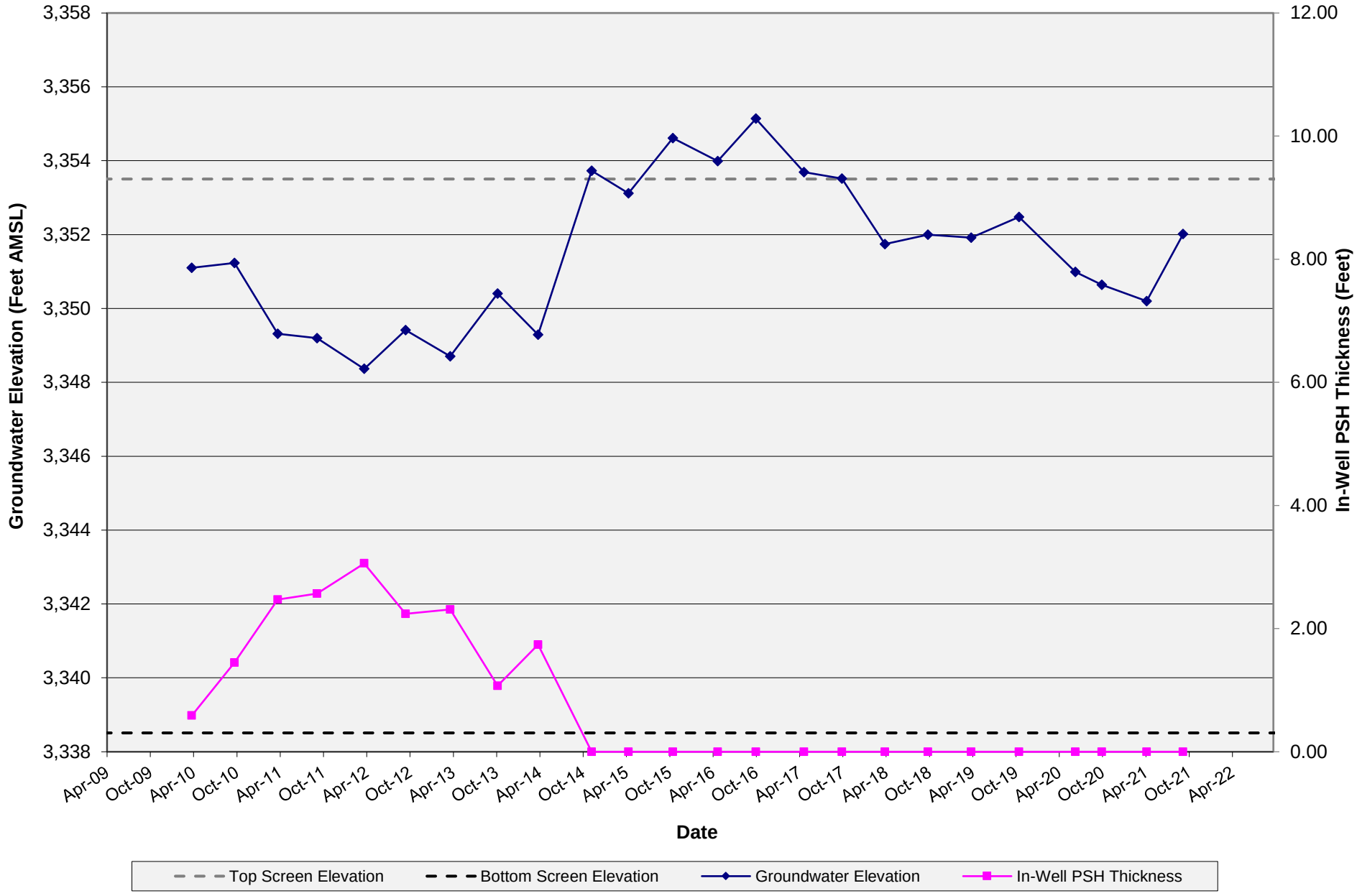


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MW-102: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

South Refinery

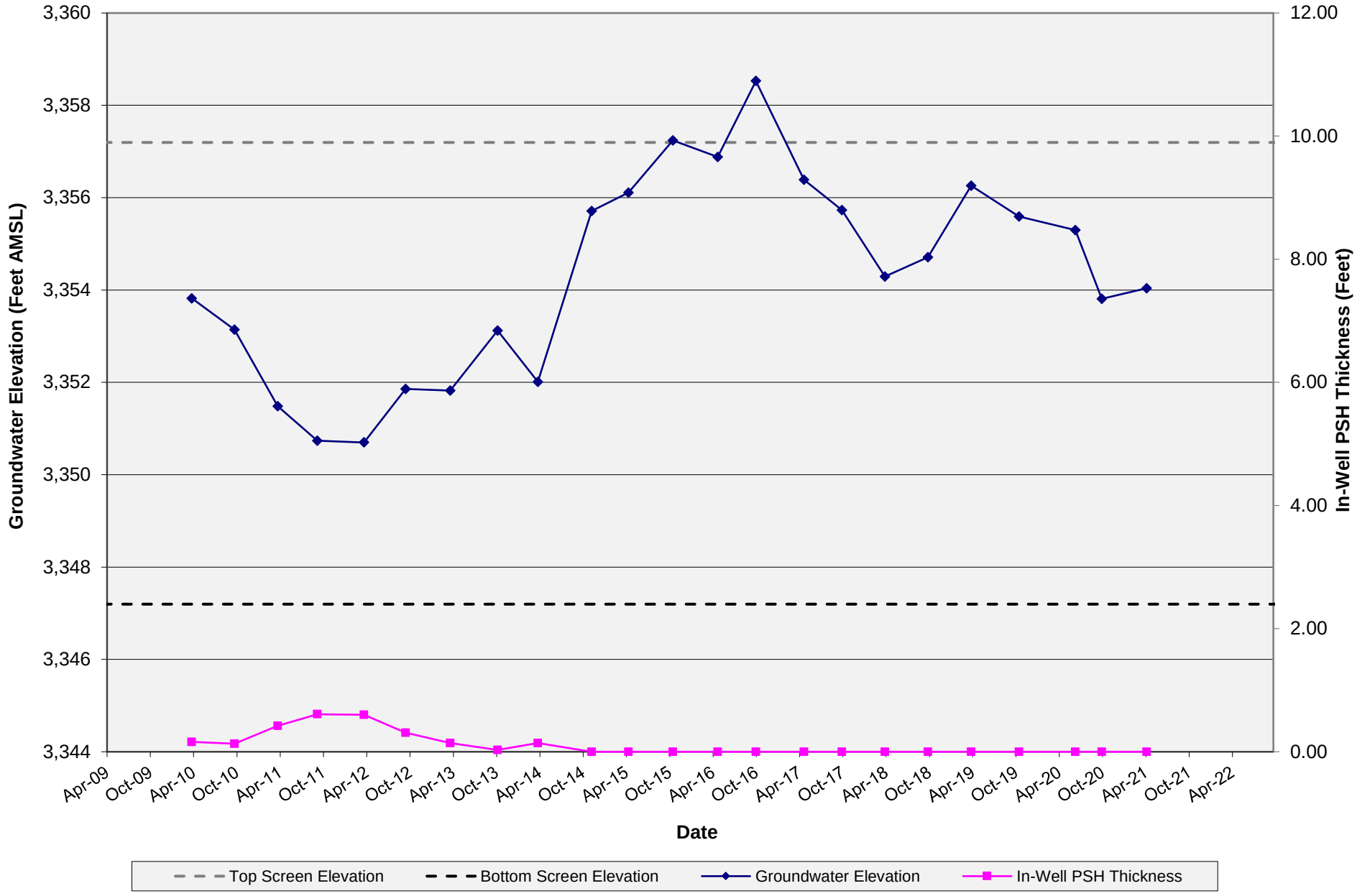


Released to Imaging: 2/7/2025 11:08:22 AM
Received by OCD: 1/9/2025 2:41:44 PM

MW-105: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

South Refinery

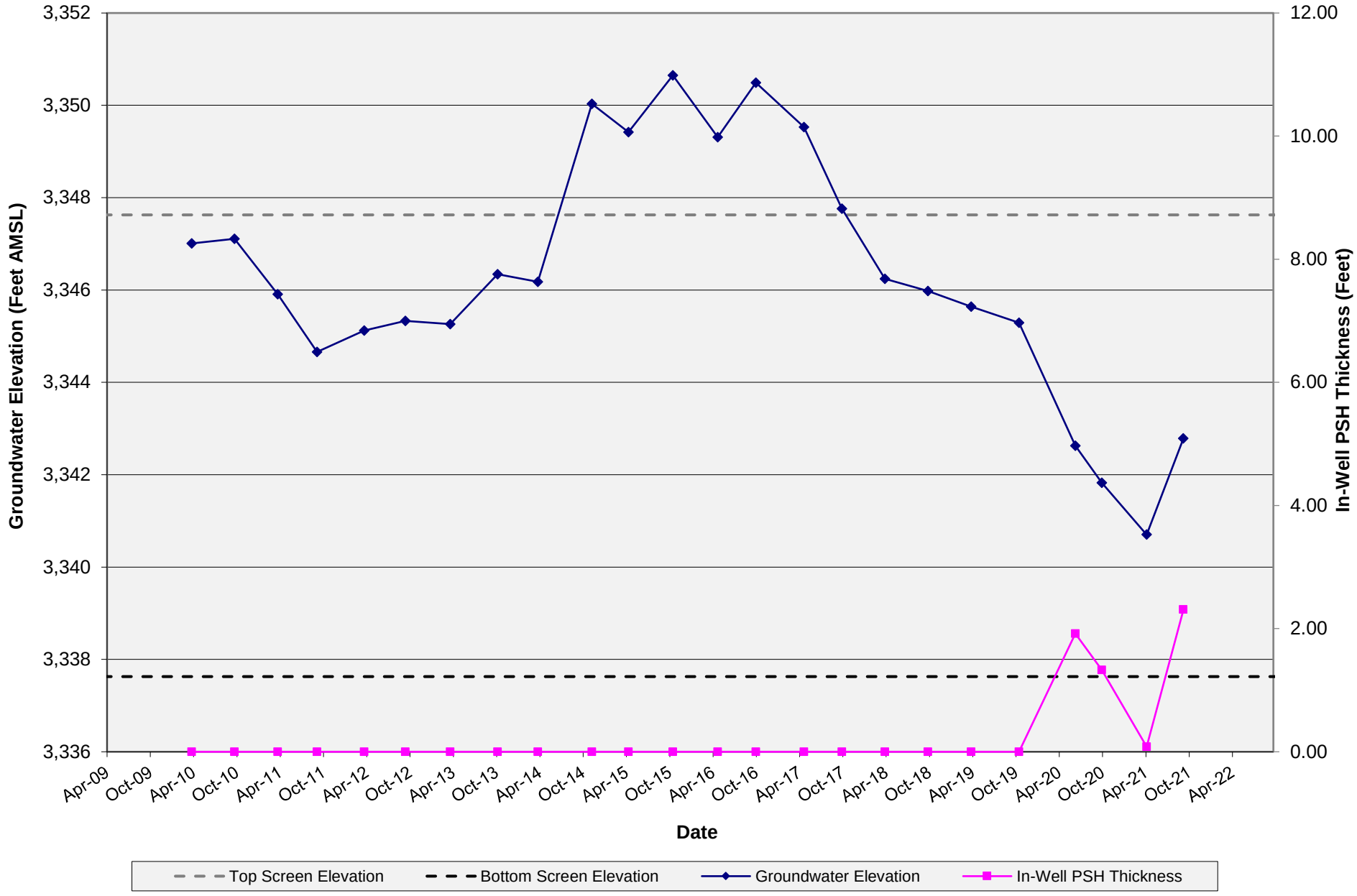


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Received by OCD: 1/9/2025 2:41:44 PM

MW-107: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

South Refinery

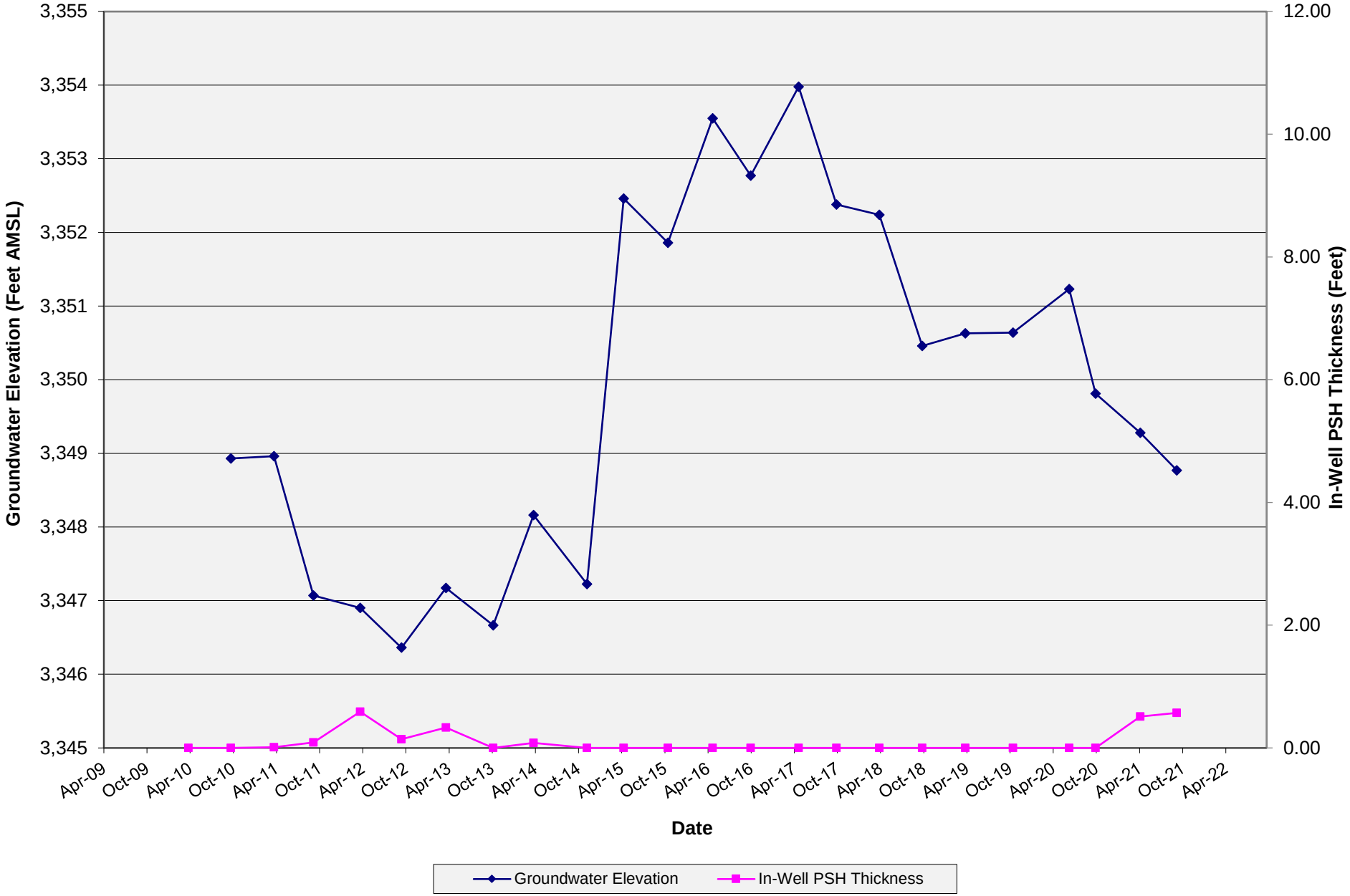


Released to Imaging: 2/7/2025 11:08:22 AM
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RW-4R: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

South Refinery

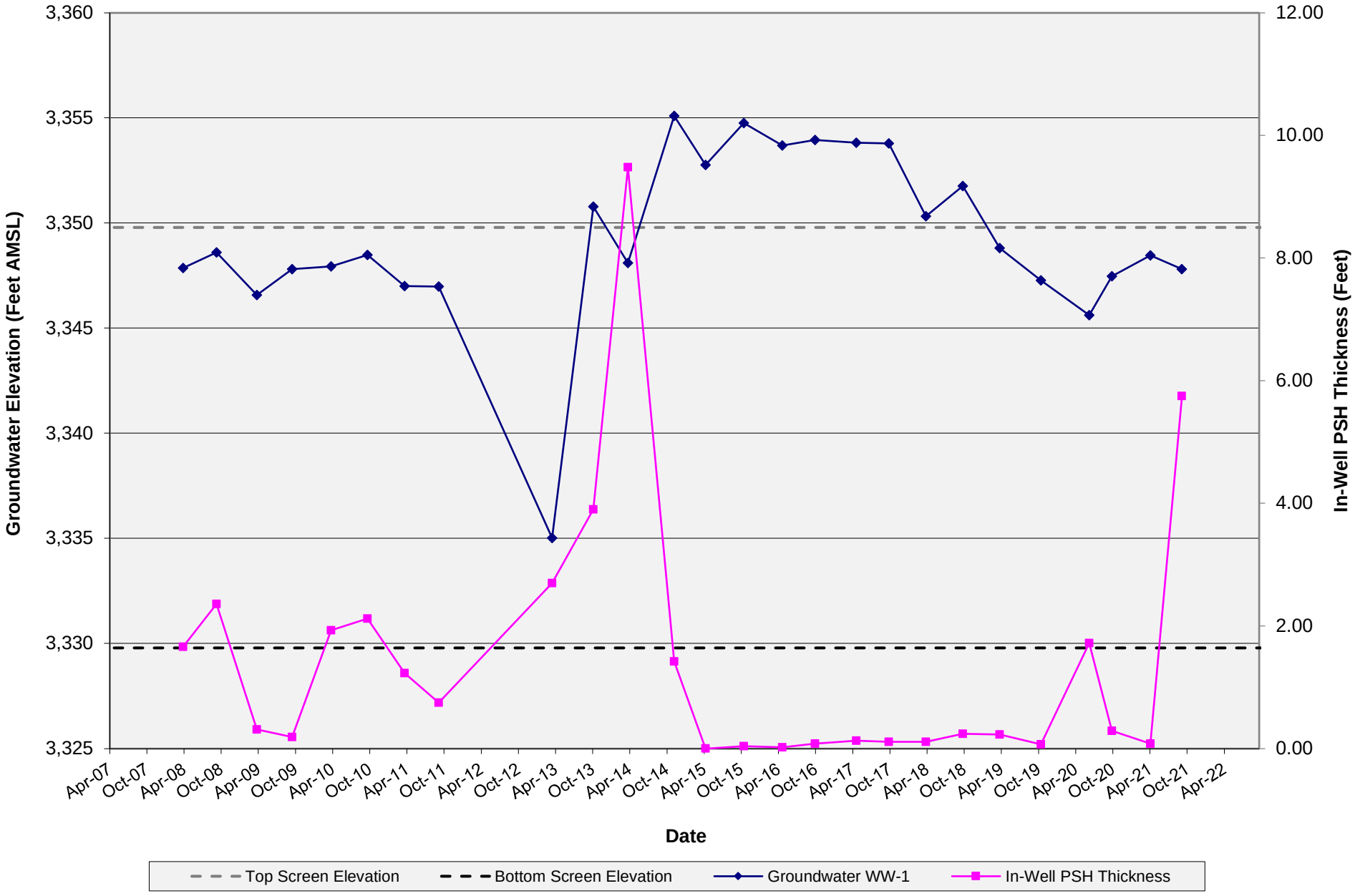


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RW-5 & RW-5R: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

South Refinery

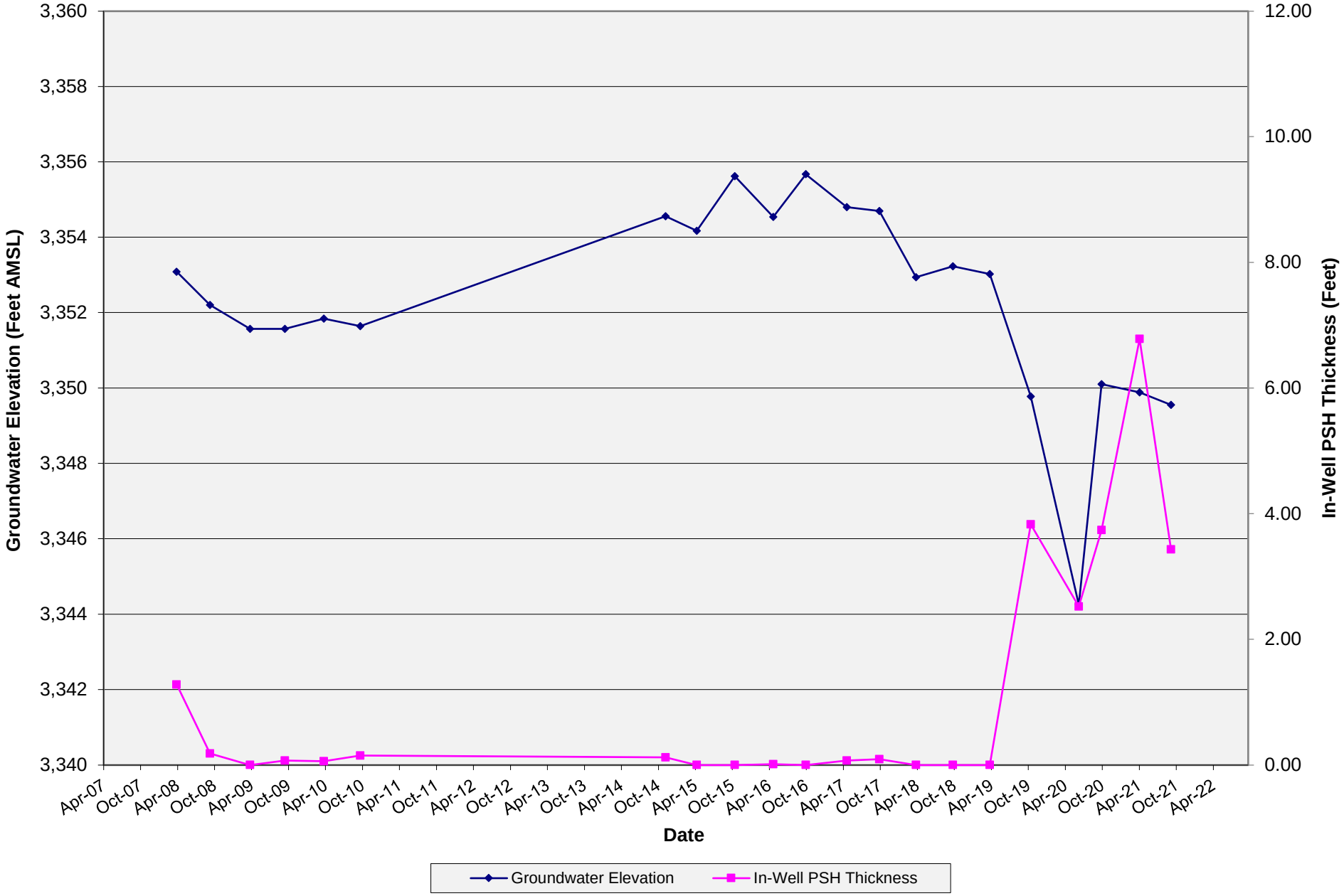


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RW-6: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

South Refinery

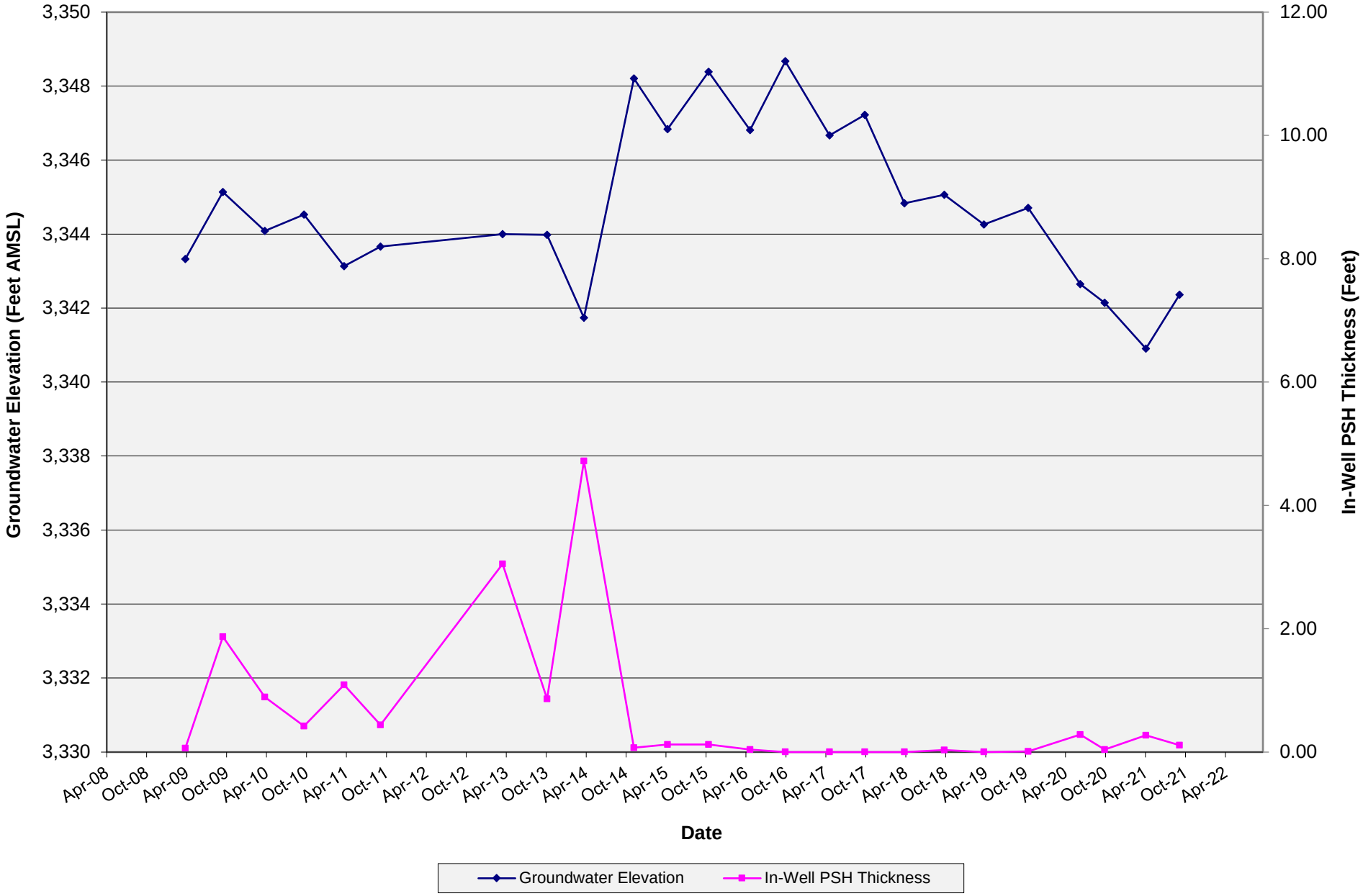


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RW-15C: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

South Refinery

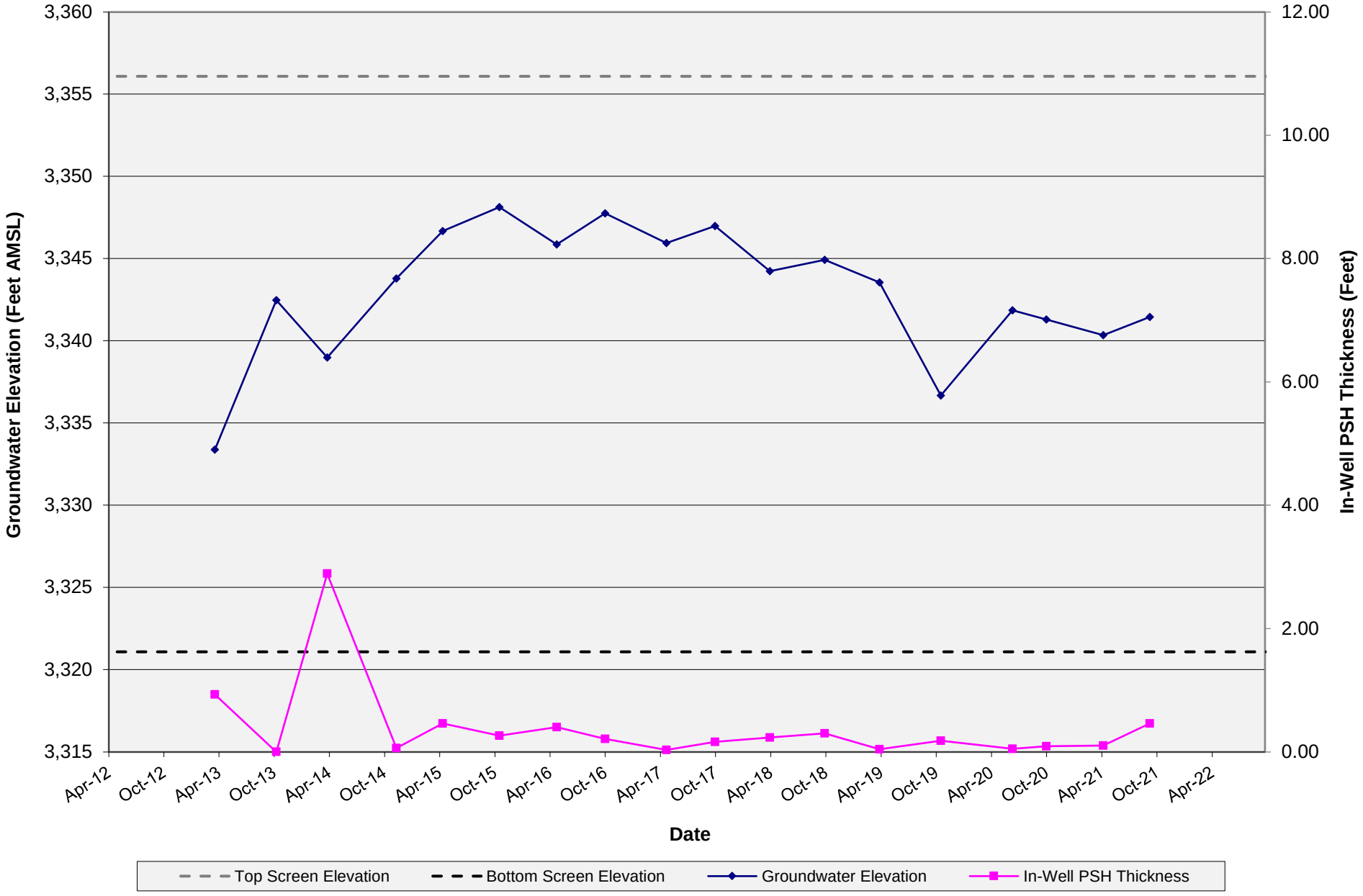


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RW-19: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

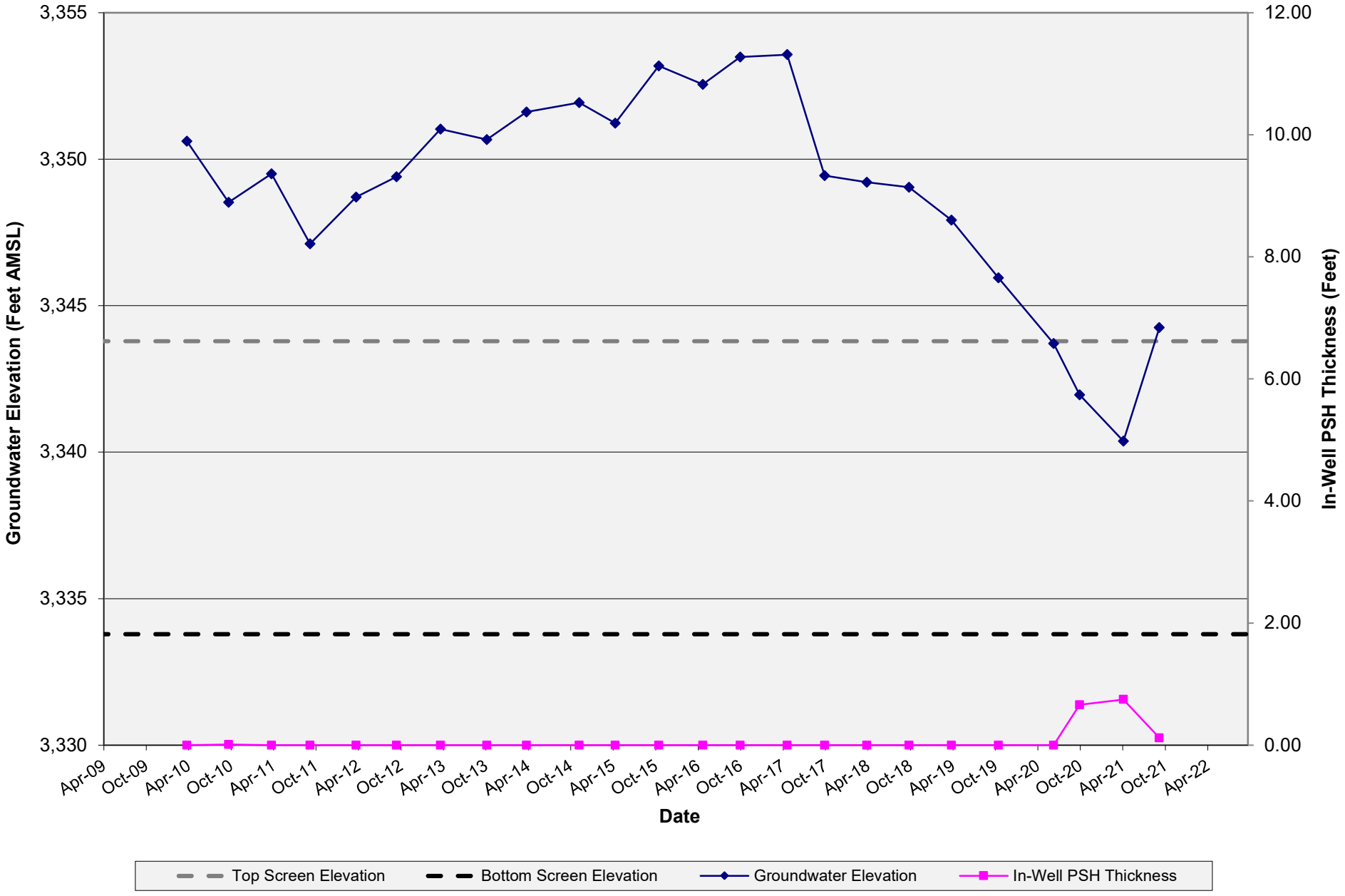
South Refinery



TEL-1: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

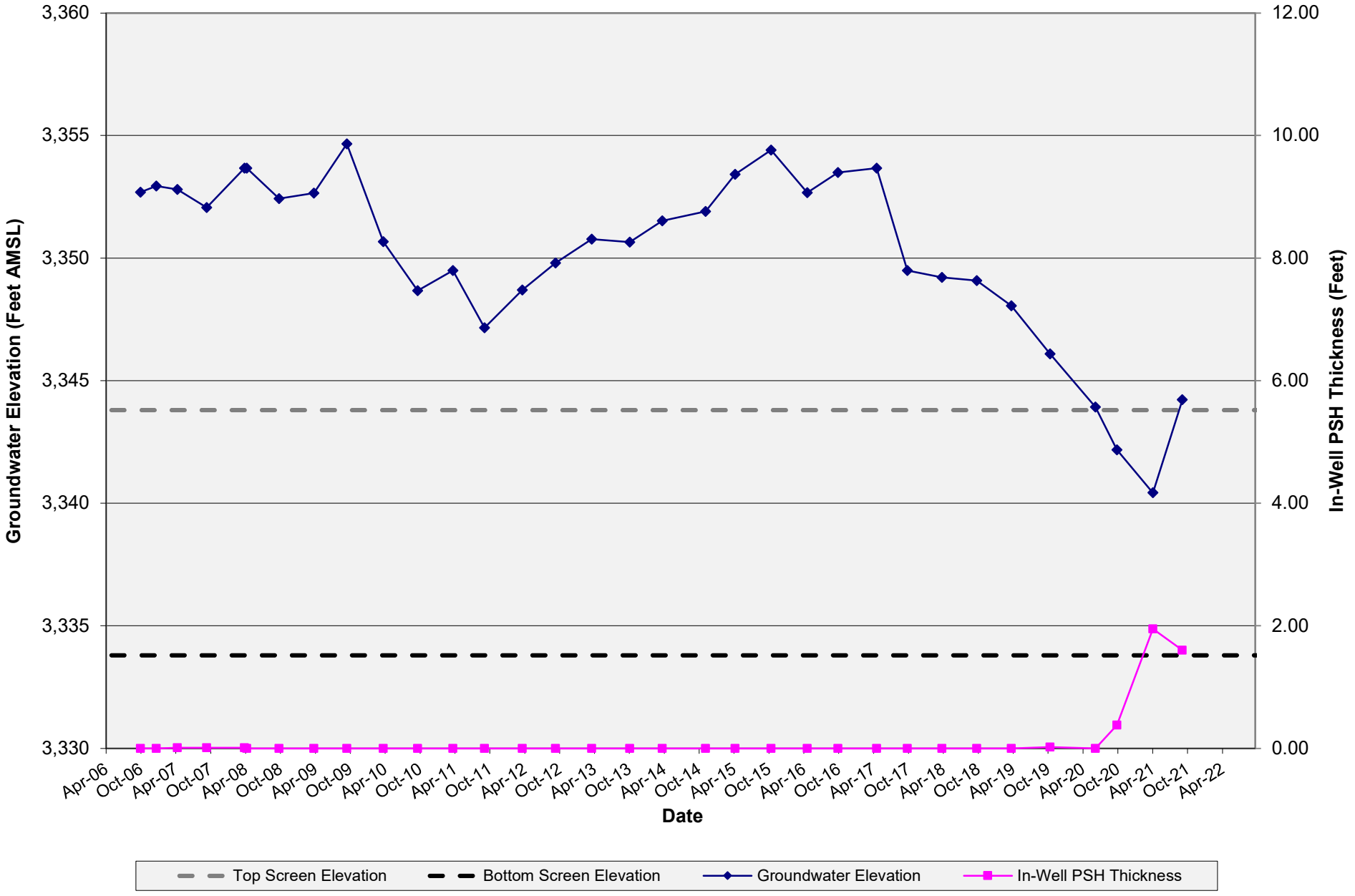
Tetra Ethyl Lead Surface Impoundment



TEL-2: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

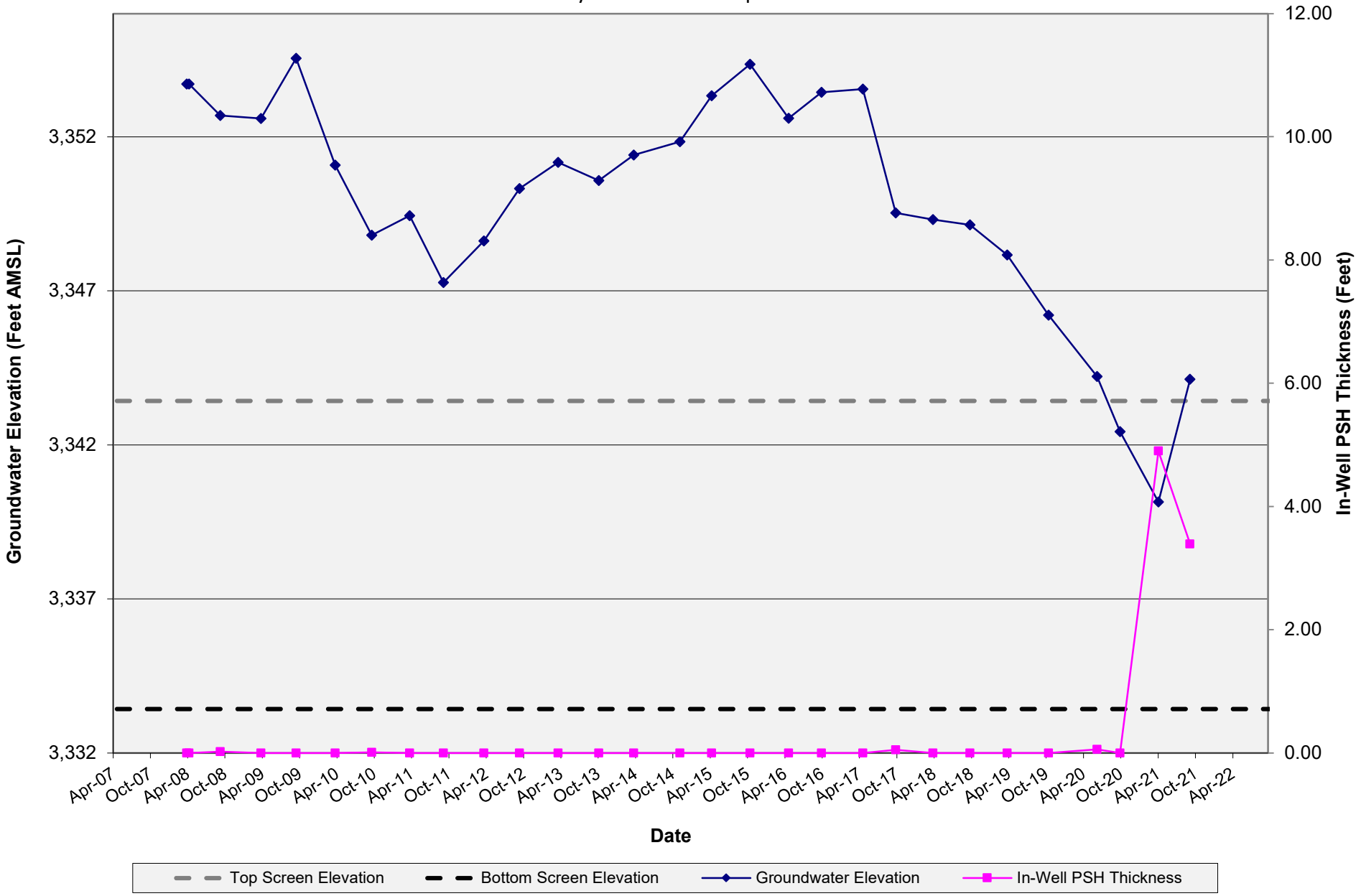
Tetra Ethyl Lead Surface Impoundment



TEL-3: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

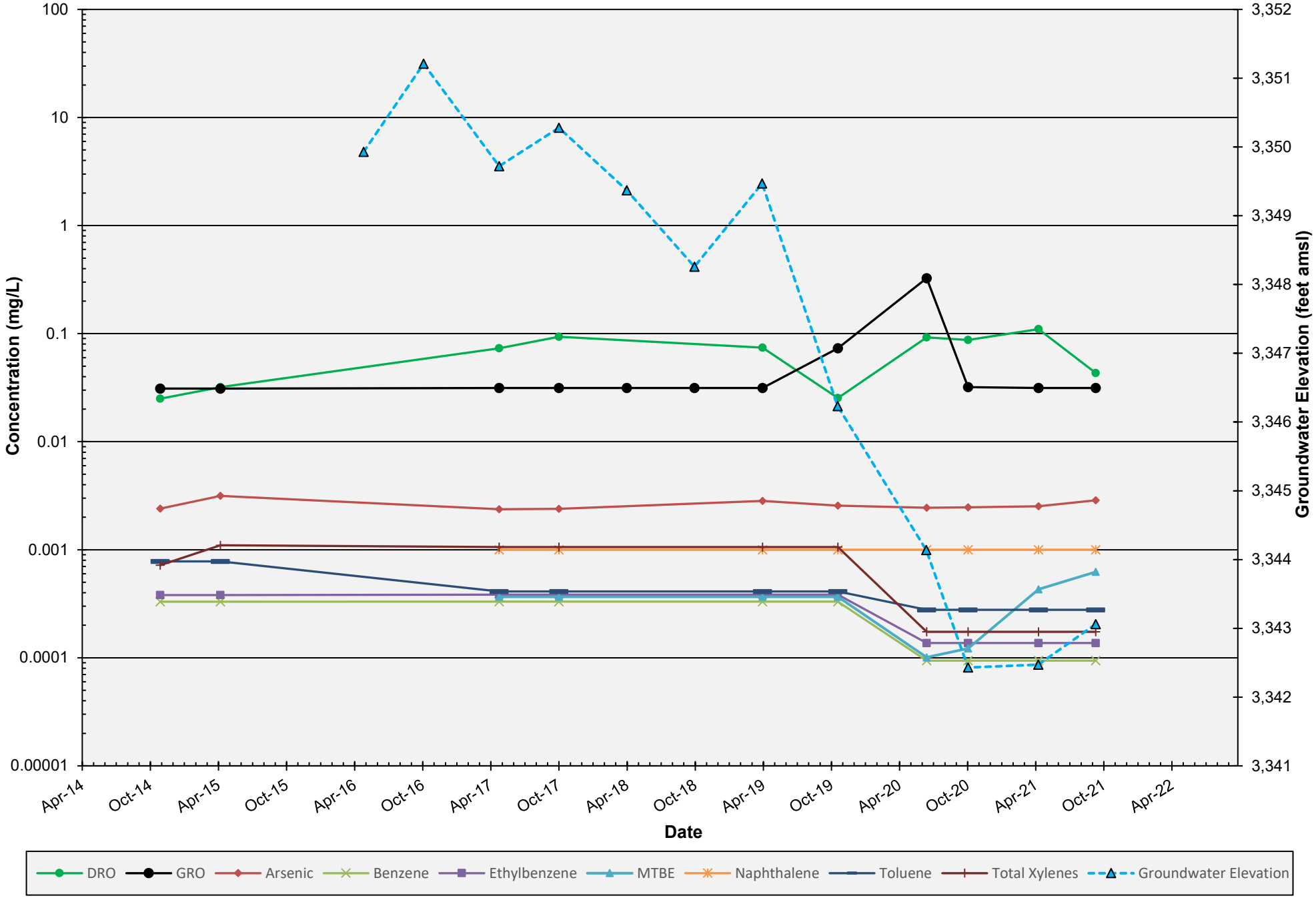
Tetra Ethyl Lead Surface Impoundment



MW-136: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

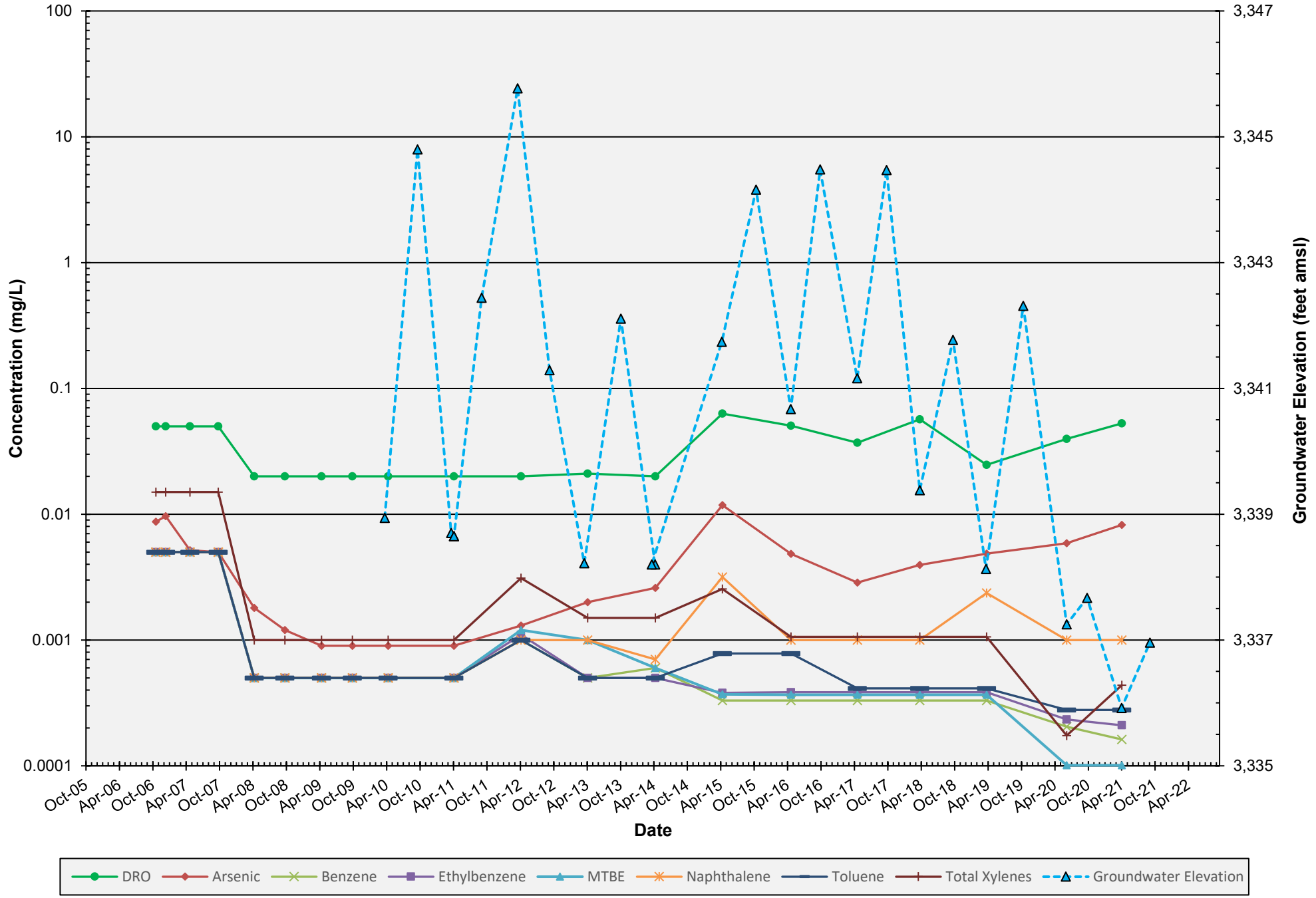
Up-Gradient of Refinery



KWB-13: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

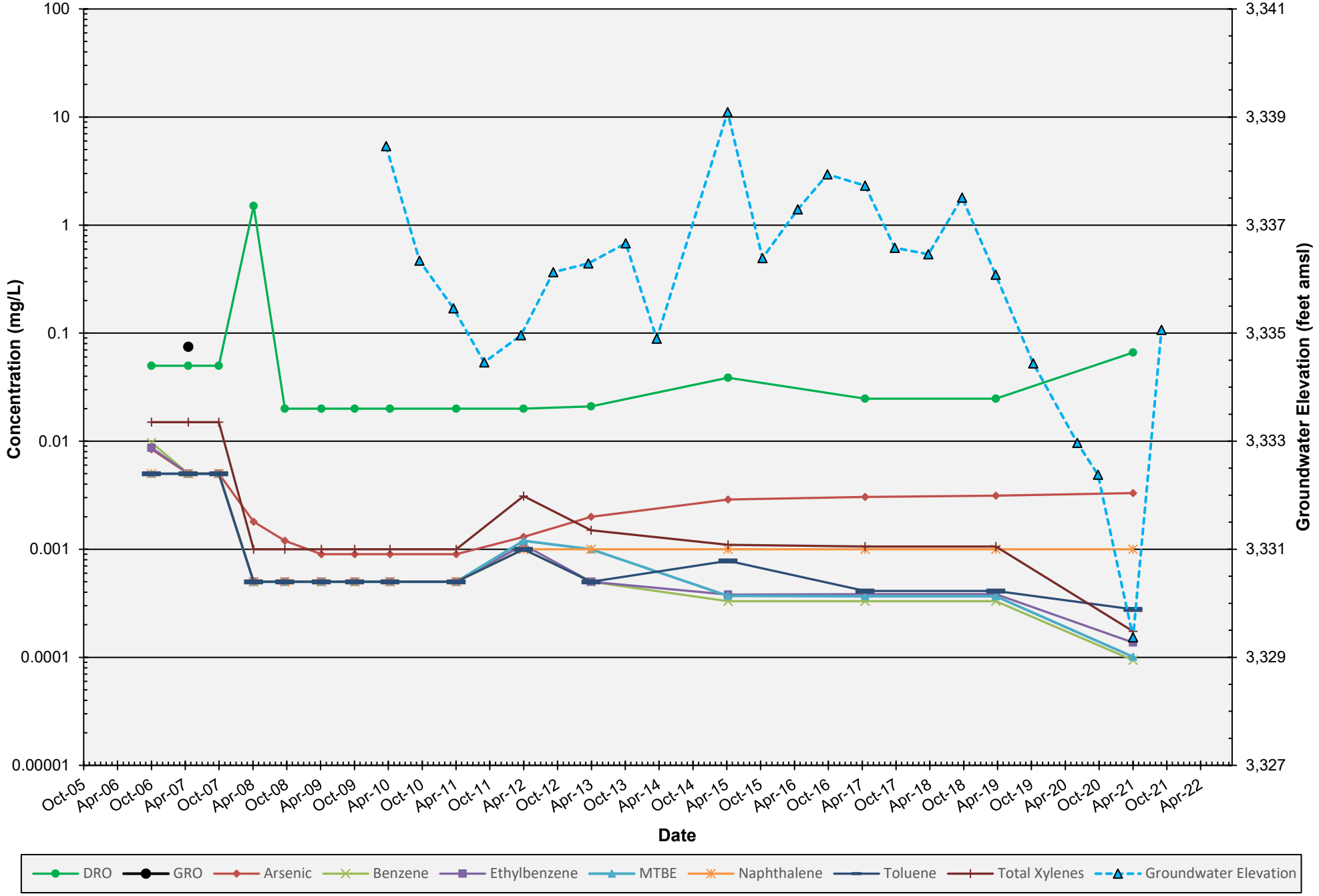
Cross-Gradient of Refinery



NP-5: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

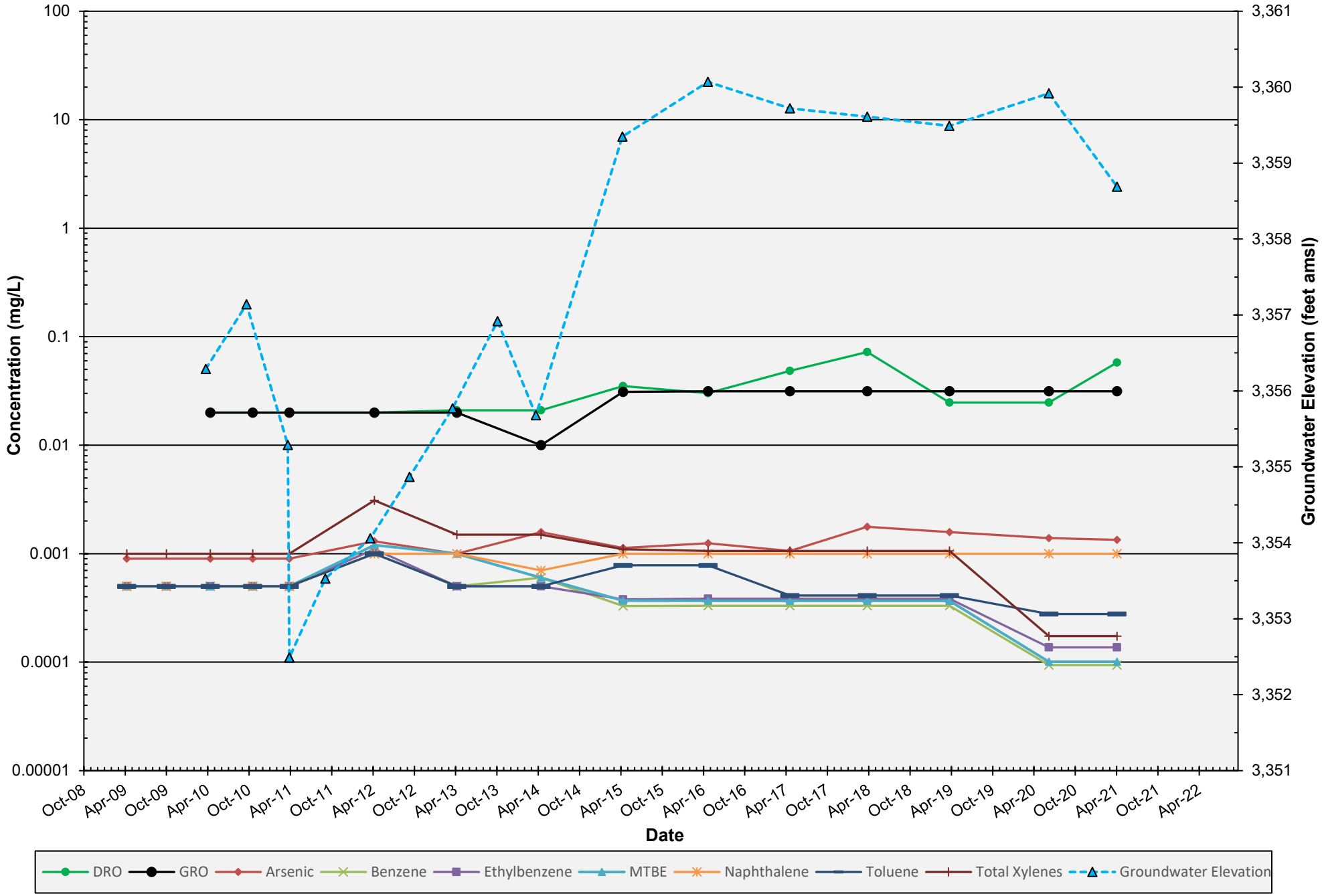
Cross-Gradient of Refinery



UG-1: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

Up-Gradient of Refinery

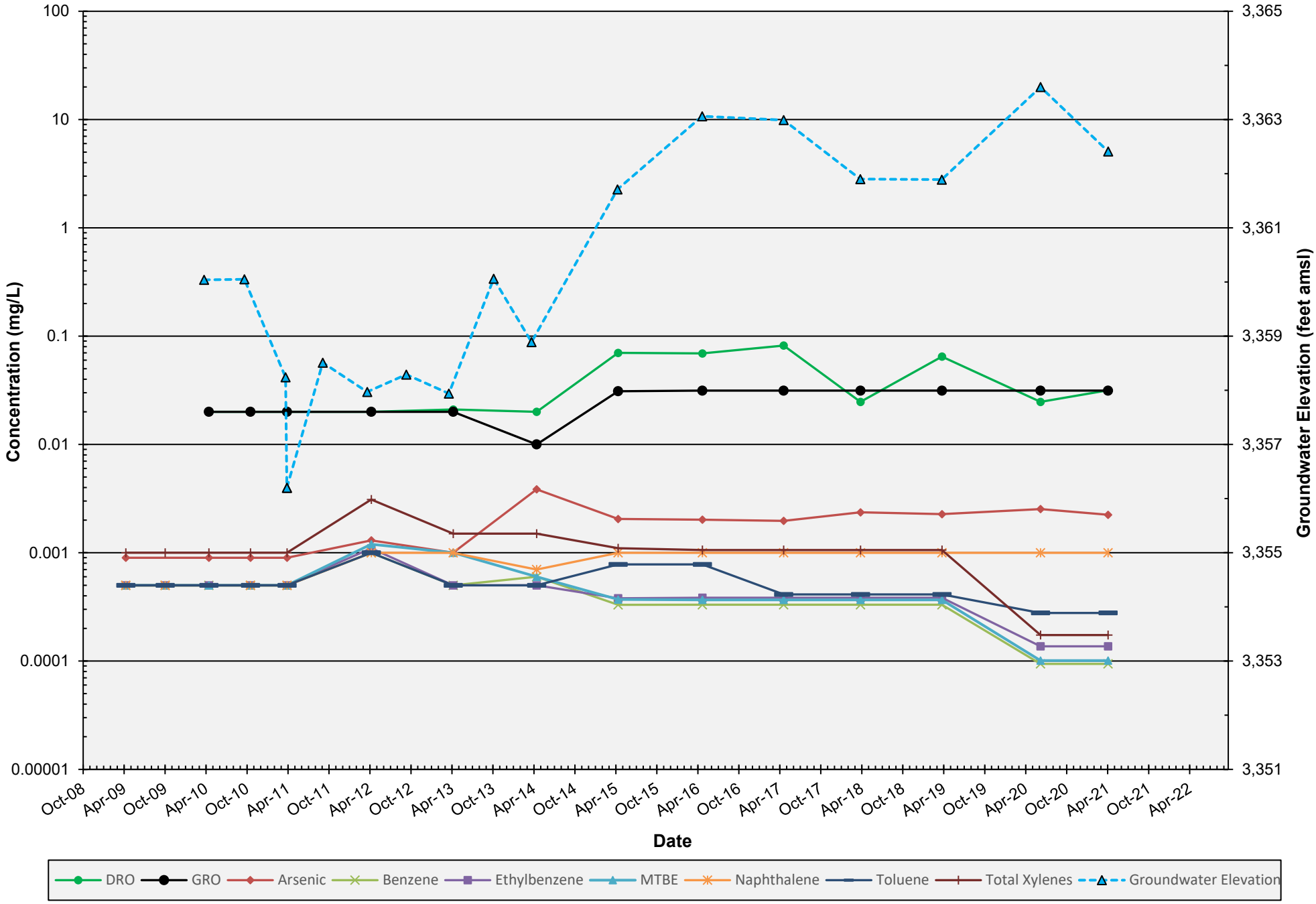


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UG-2: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

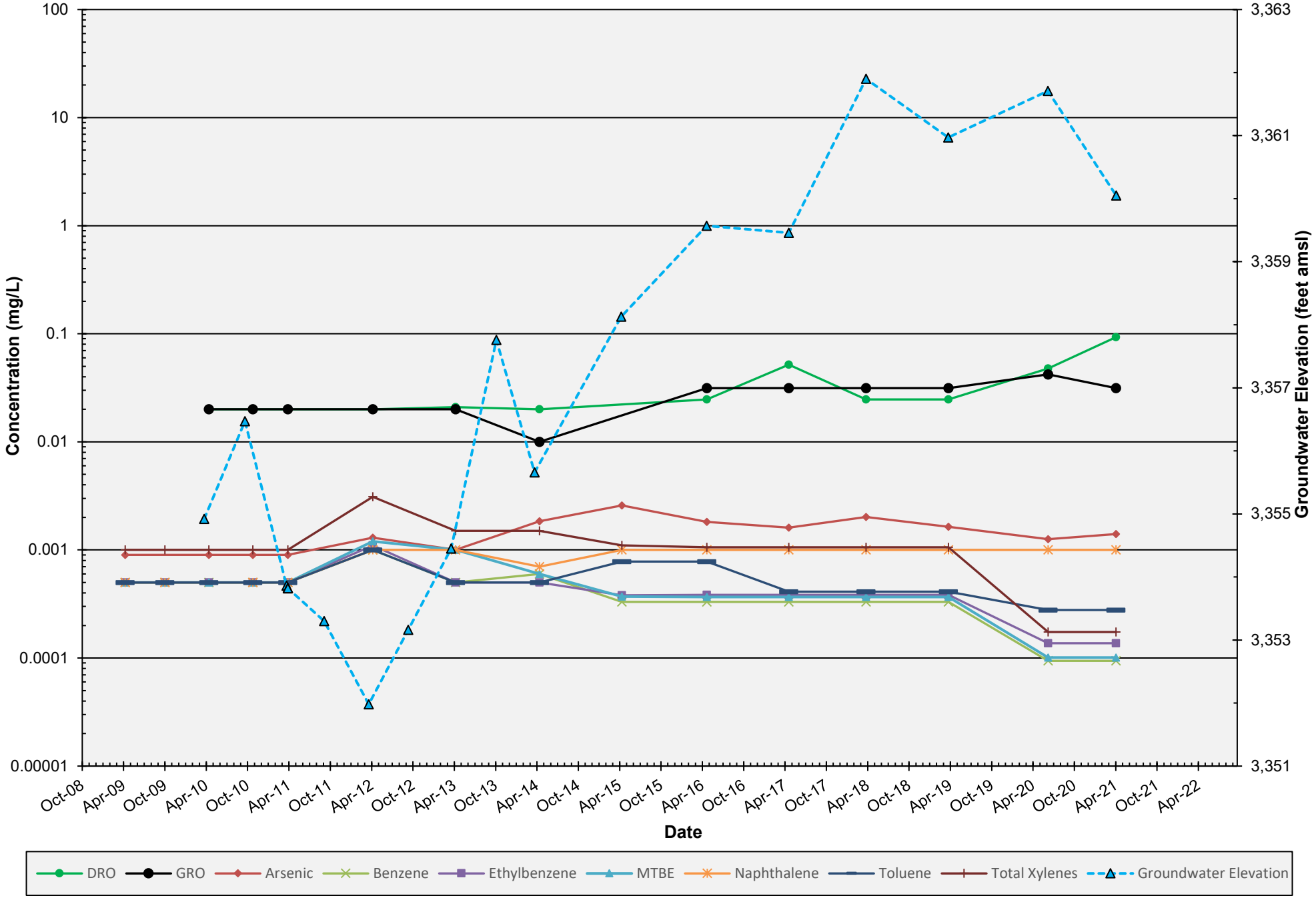
Up-Gradient of Refinery



UG-3R: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

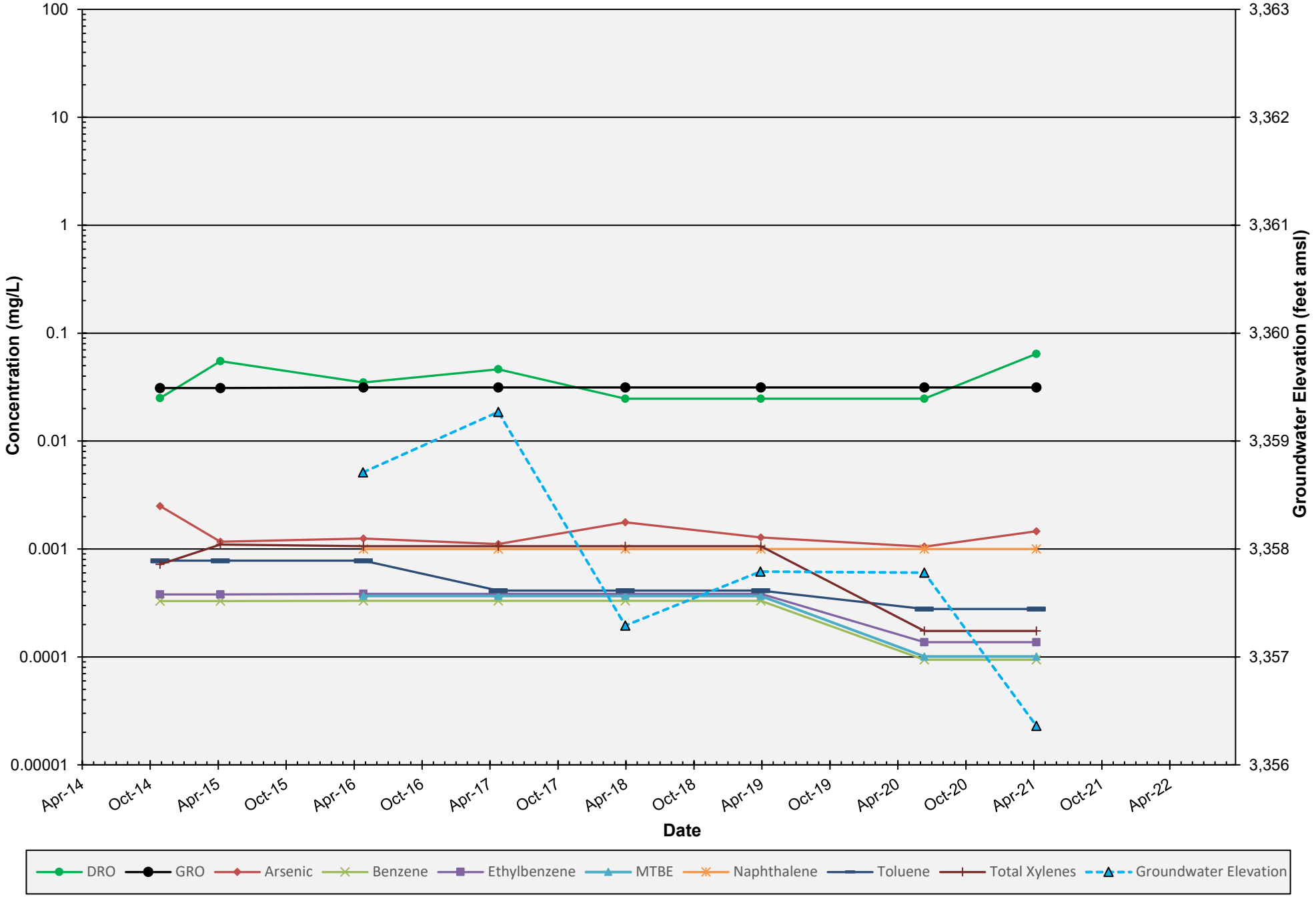
Up-Gradient of Refinery



UG-4: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

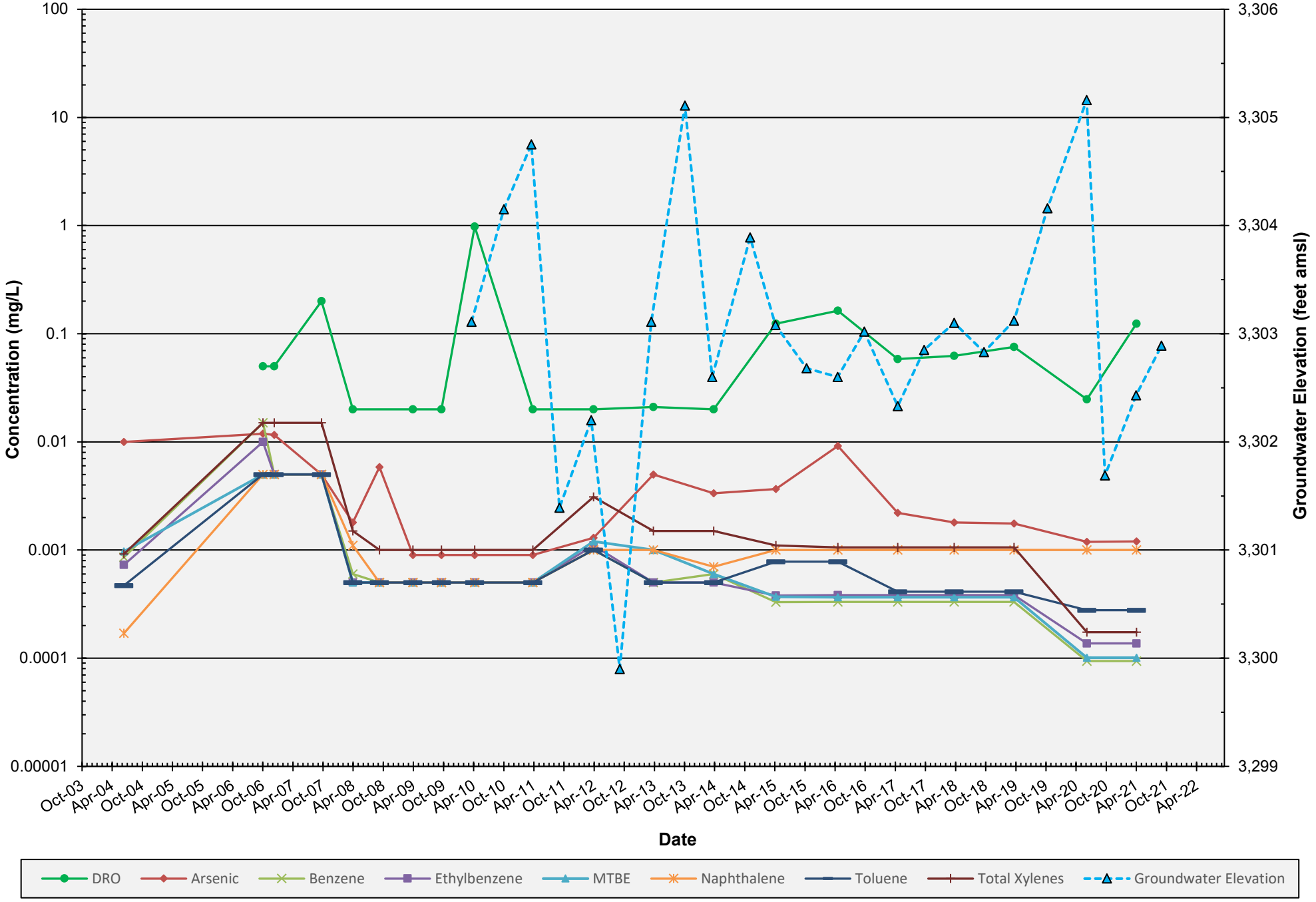
Up-Gradient of Refinery



MW-1R: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

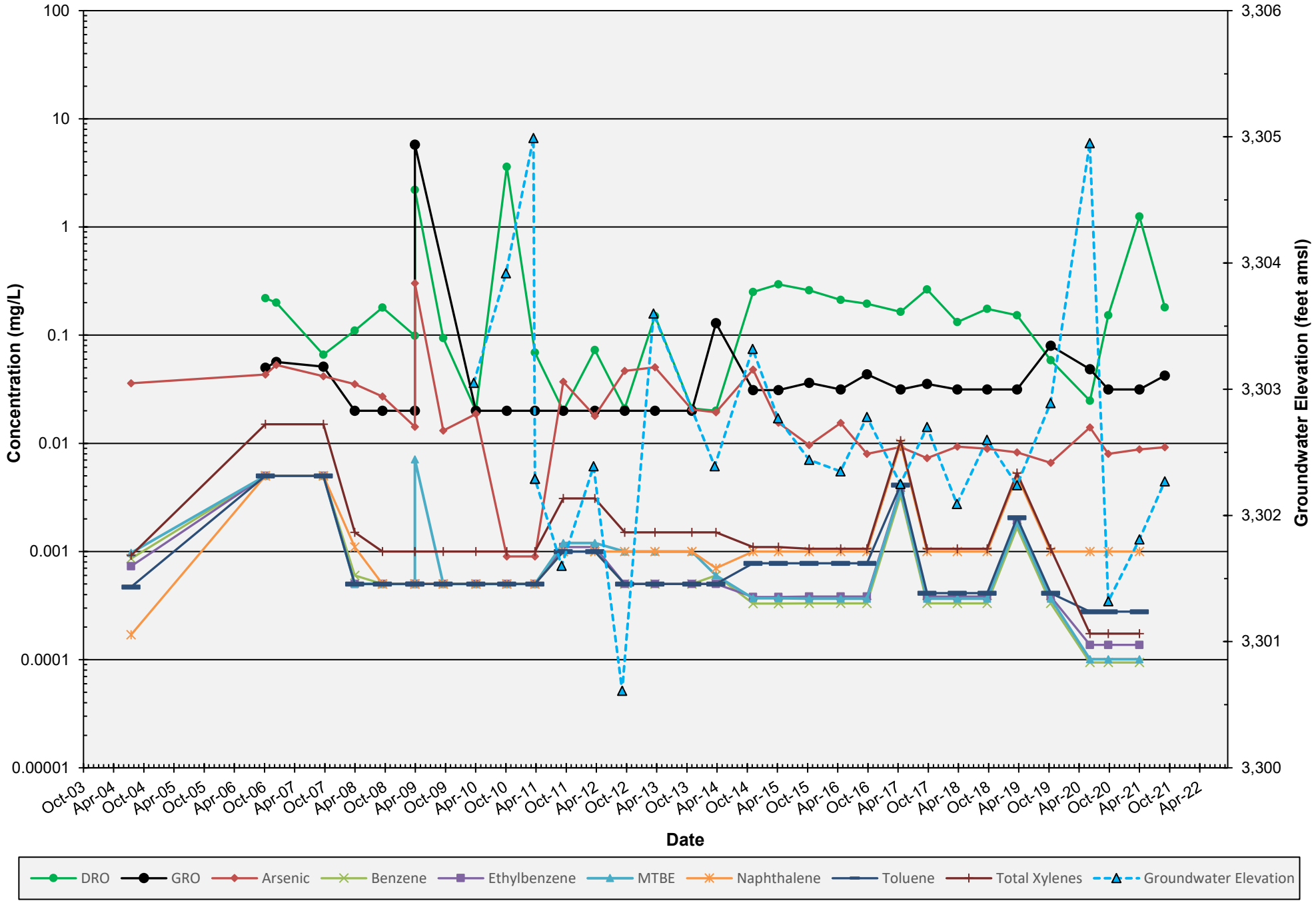
Evaporation Ponds



MW-2A: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

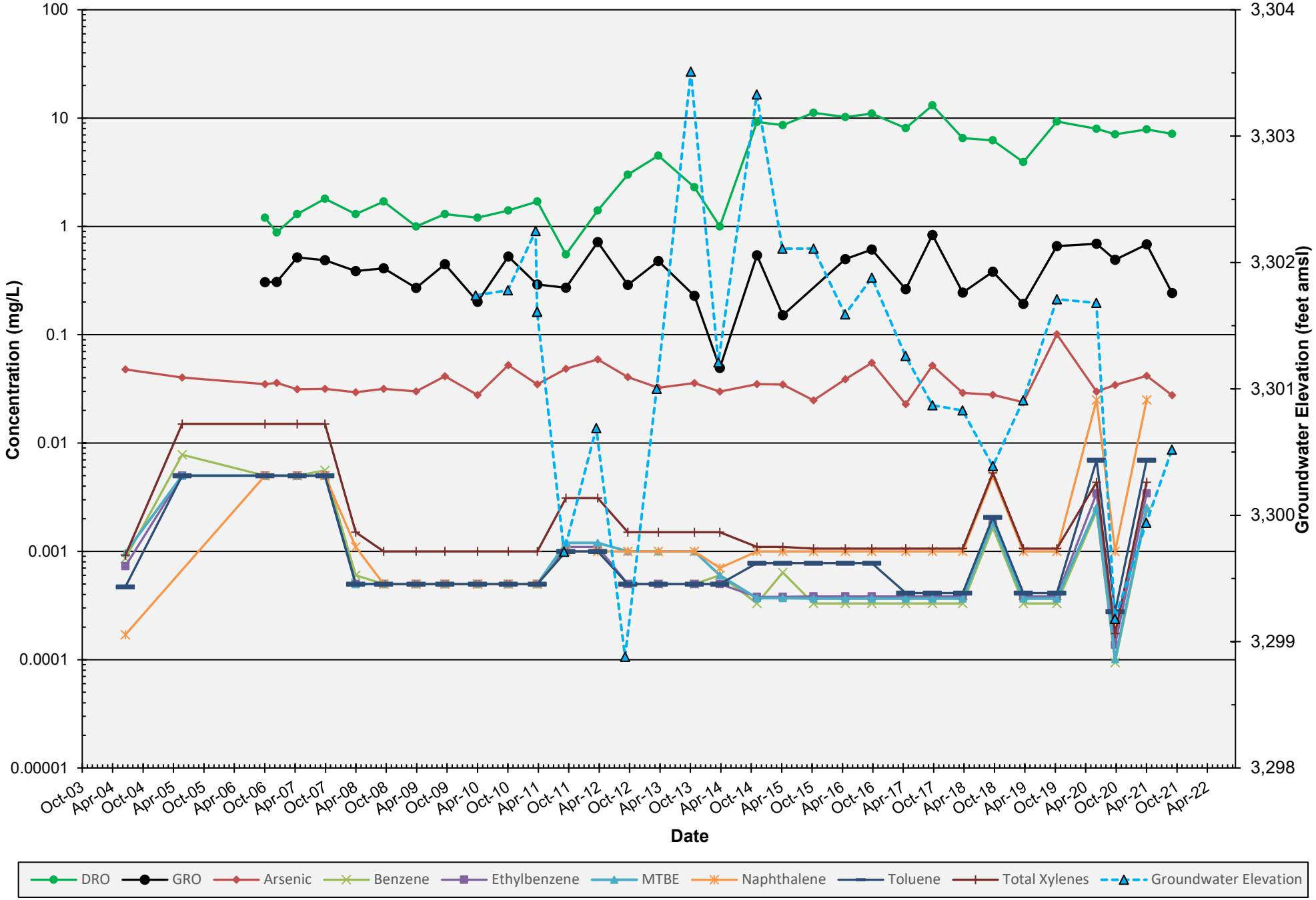
Evaporation Ponds



MW-3: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

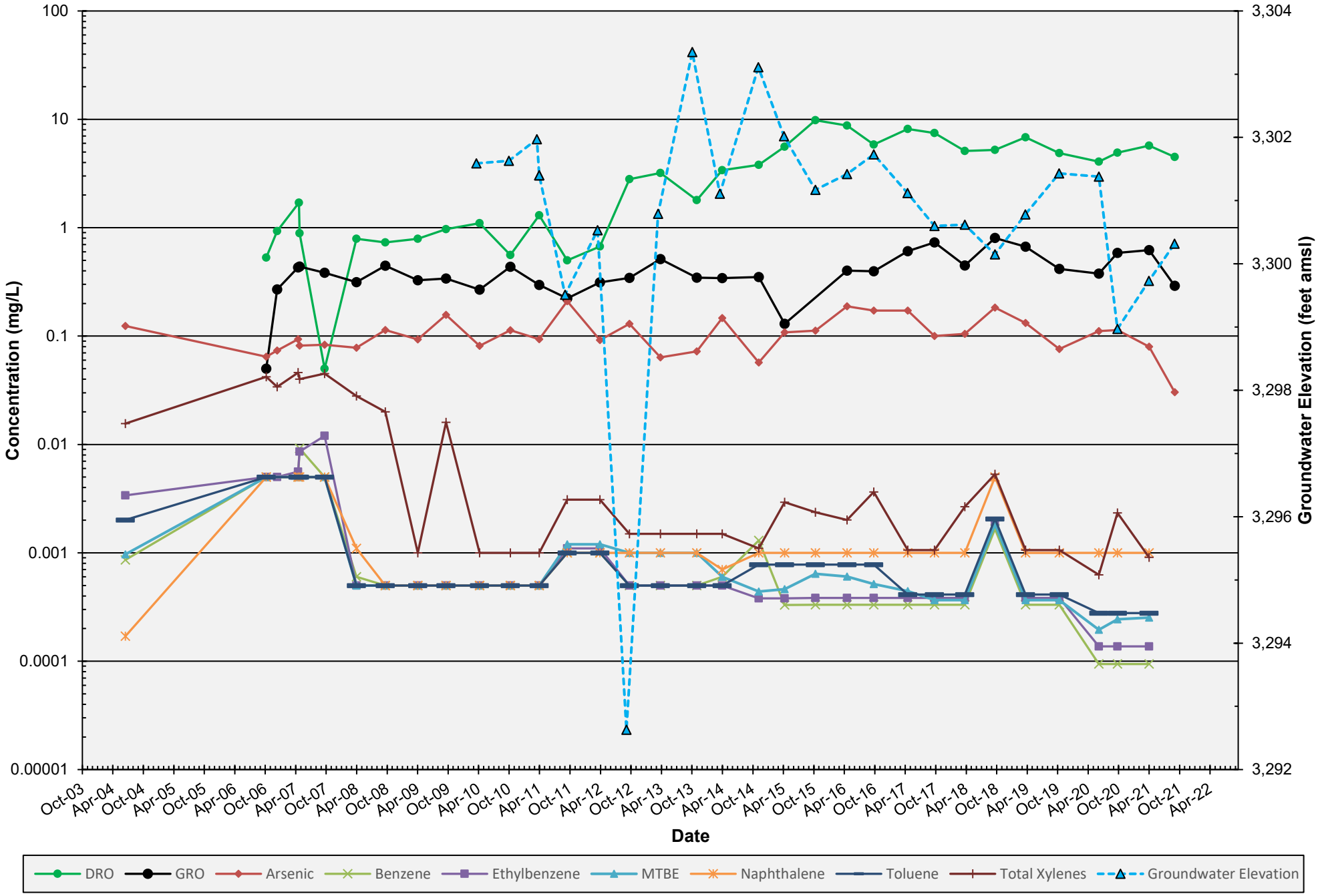
Evaporation Ponds



MW-4A: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

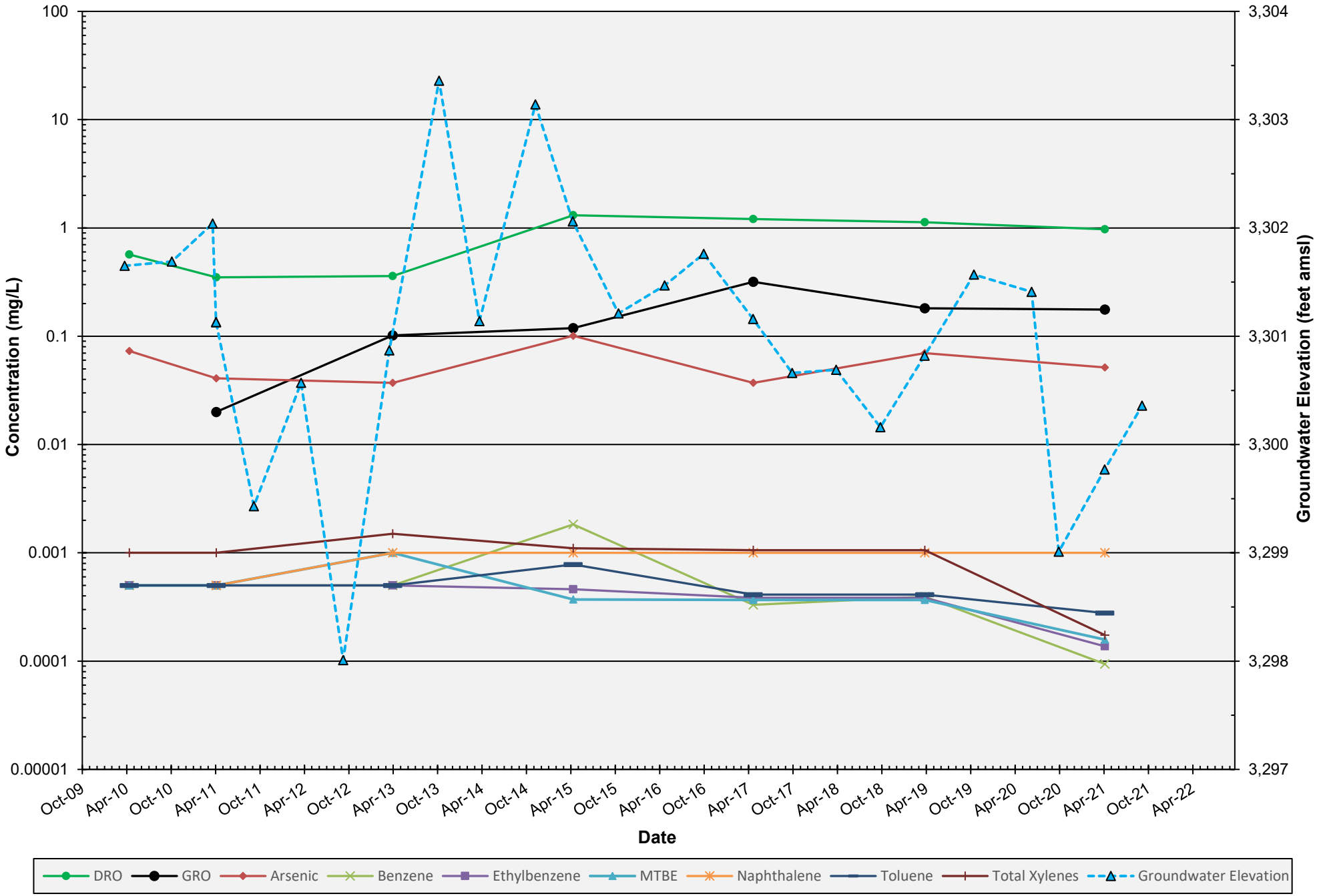
Evaporation Ponds



MW-4B: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

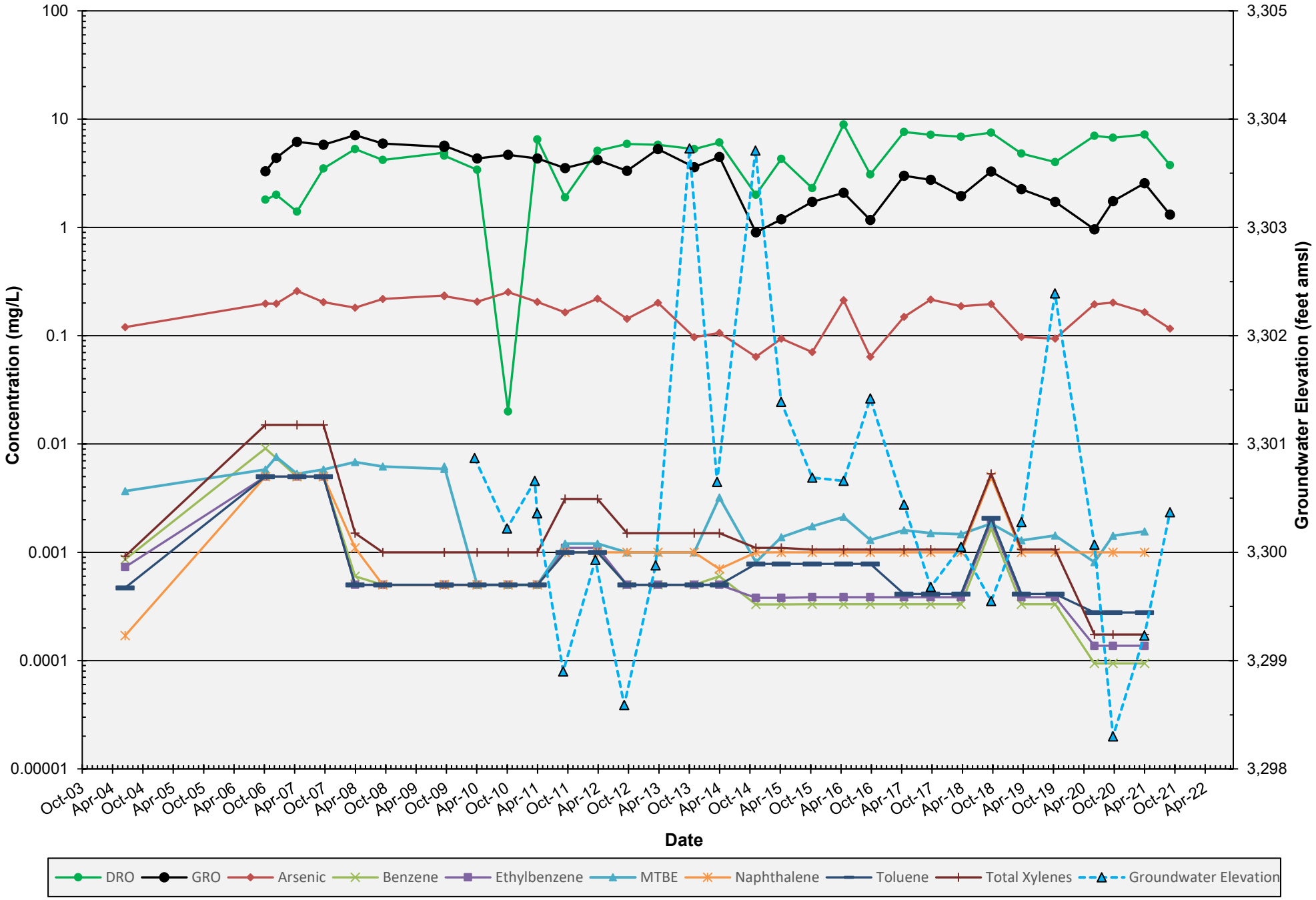
Evaporation Ponds



MW-5A: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

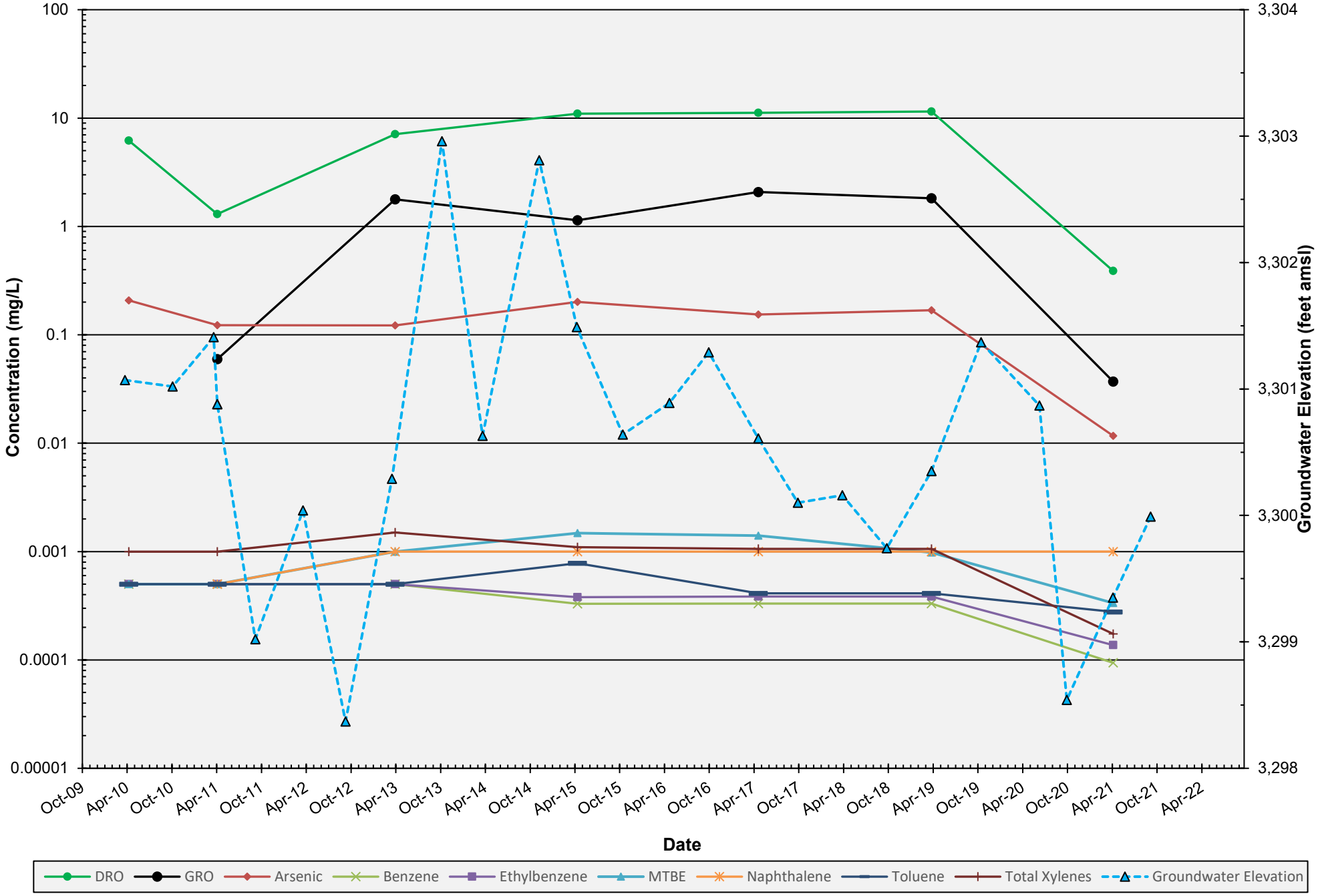
Evaporation Ponds



MW-5B: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

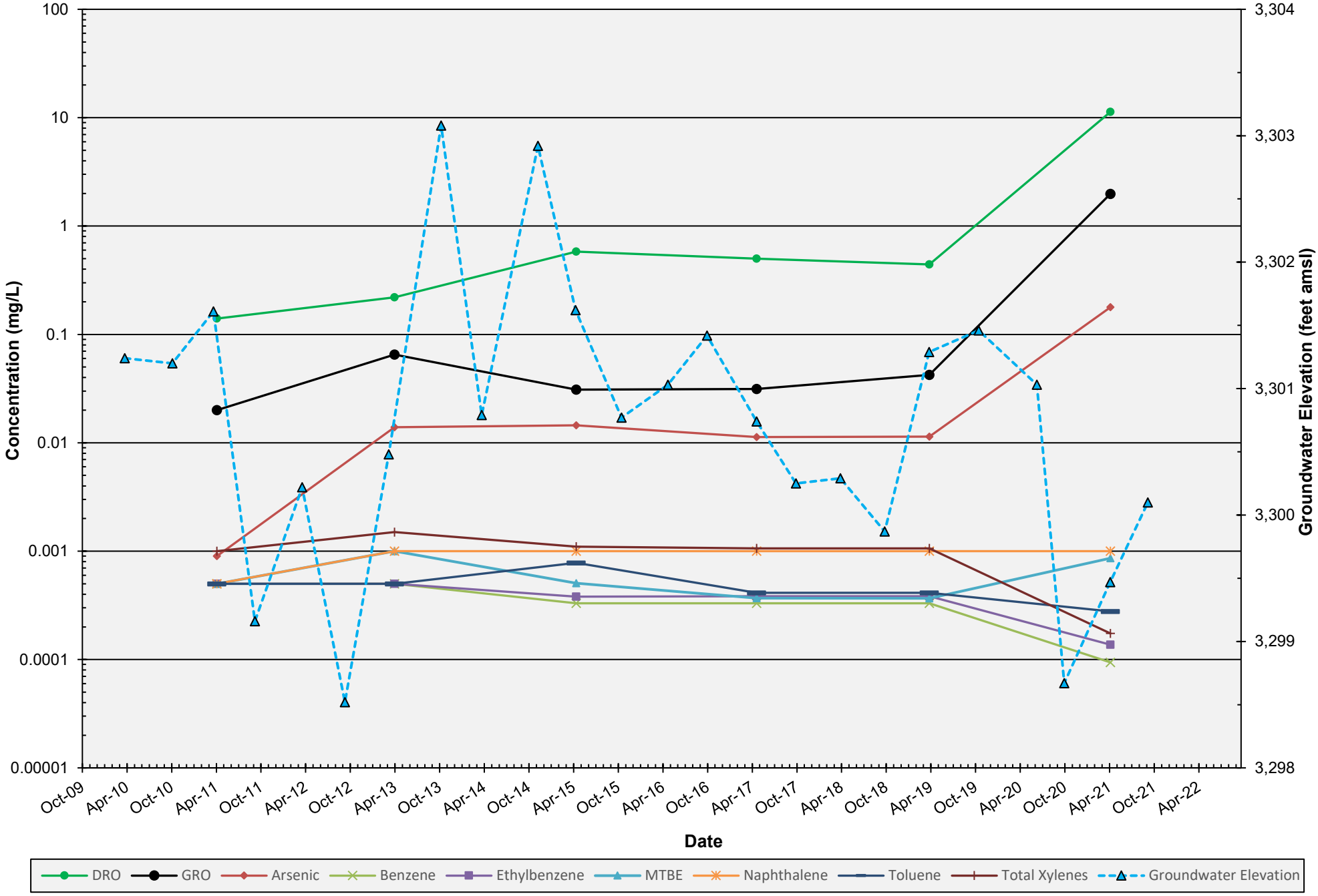
Evaporation Ponds



MW-5C: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

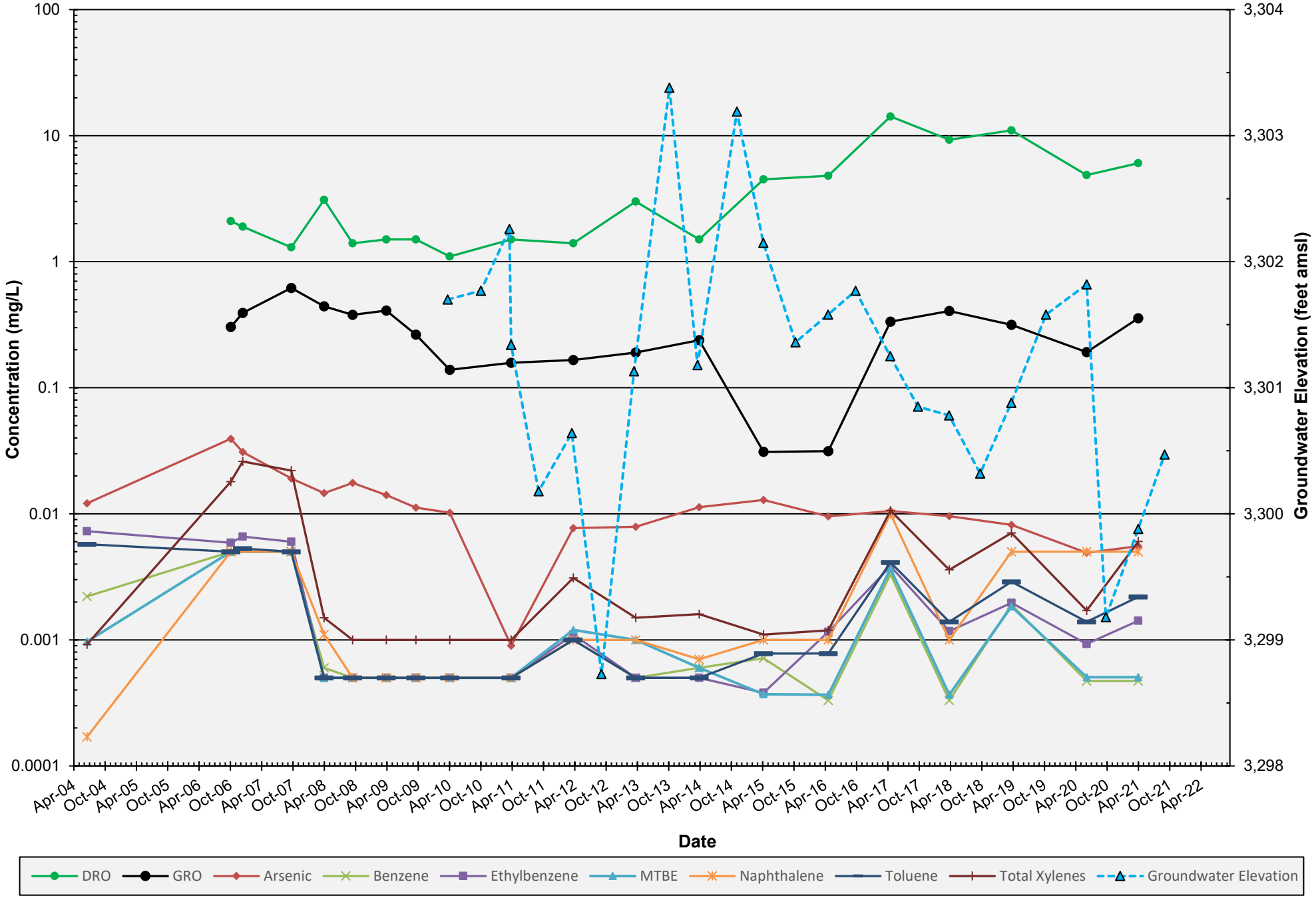
Evaporation Ponds



MW-6A: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

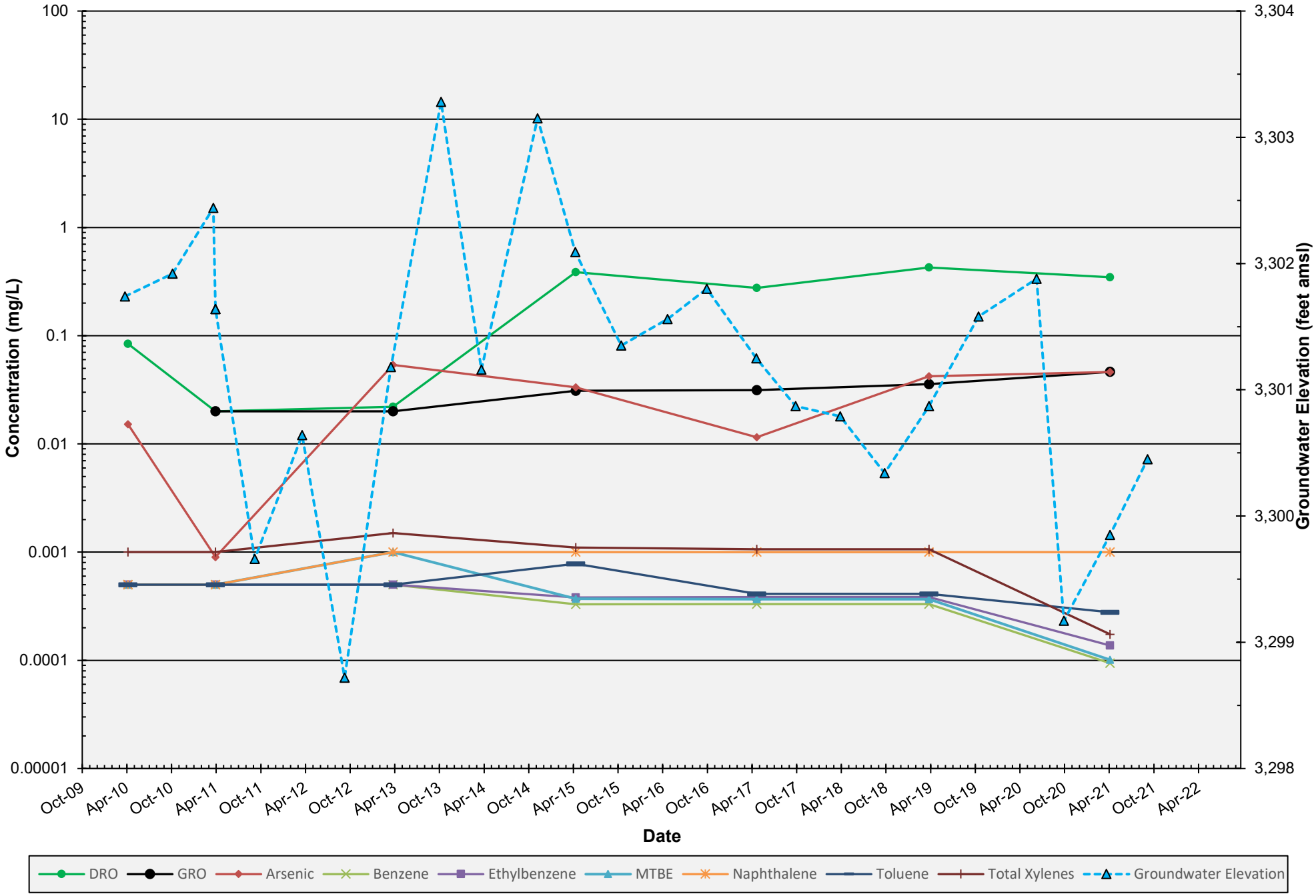
Evaporation Ponds



MW-6B: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

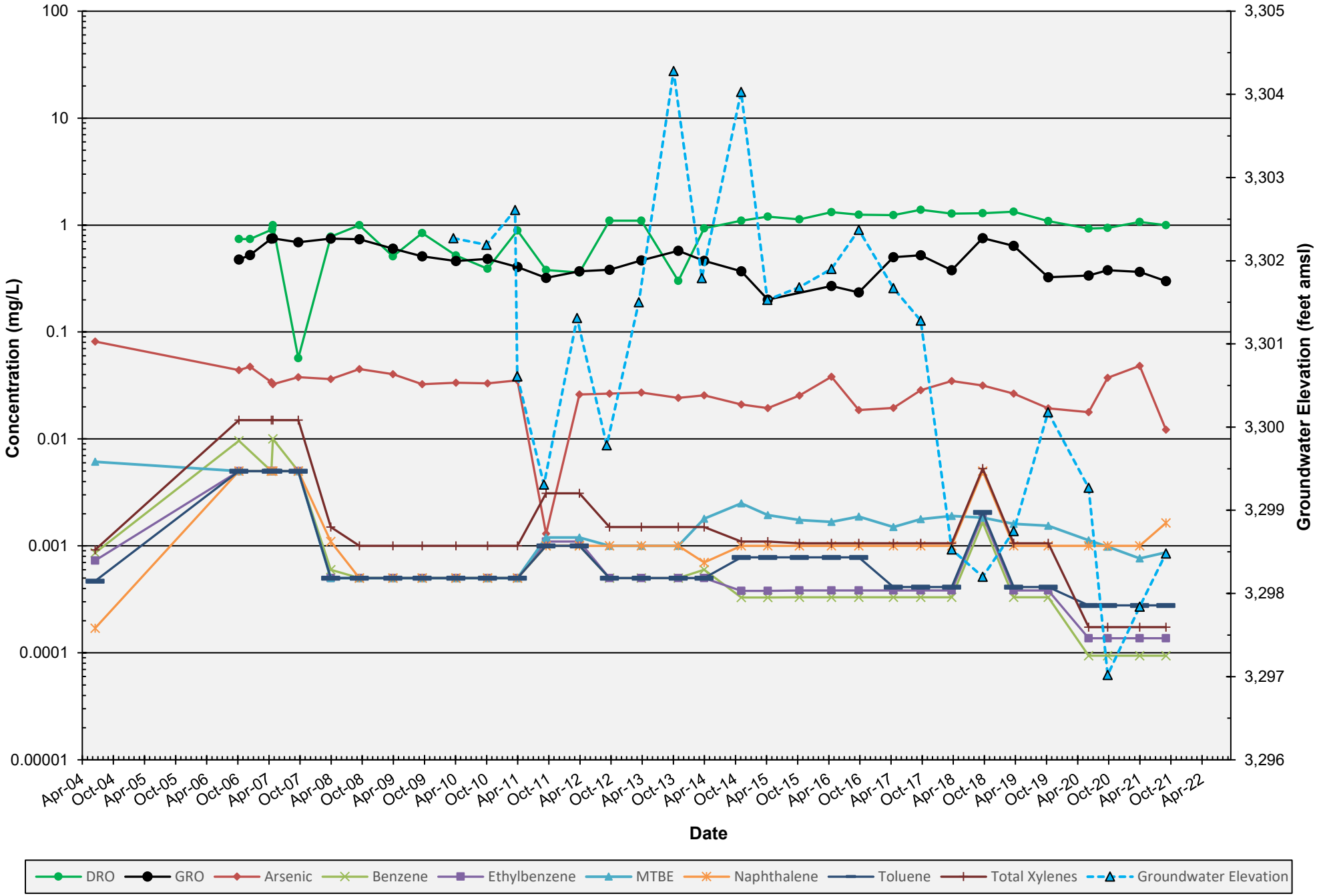
Evaporation Ponds



MW-7A: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

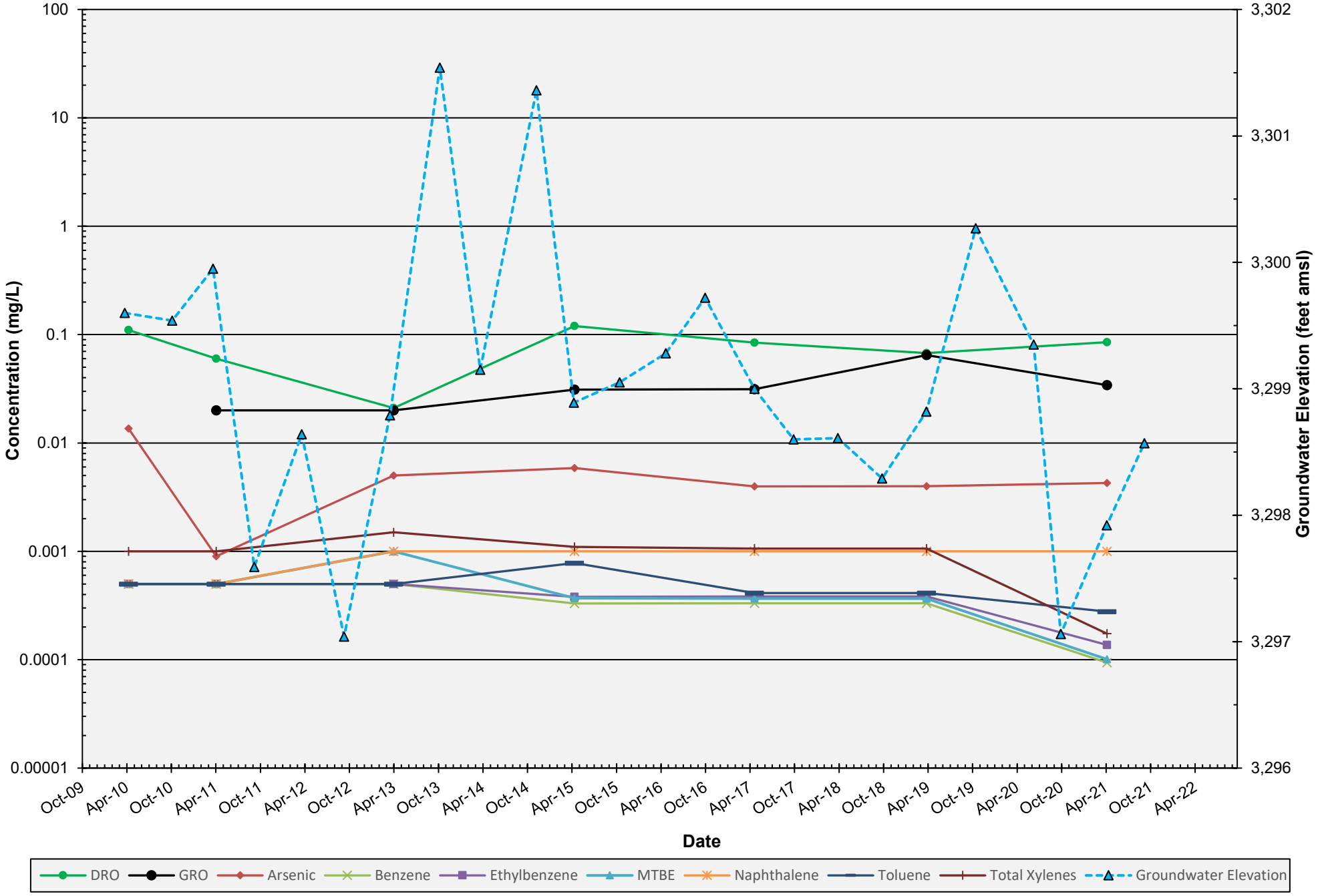
Evaporation Ponds



MW-7B: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

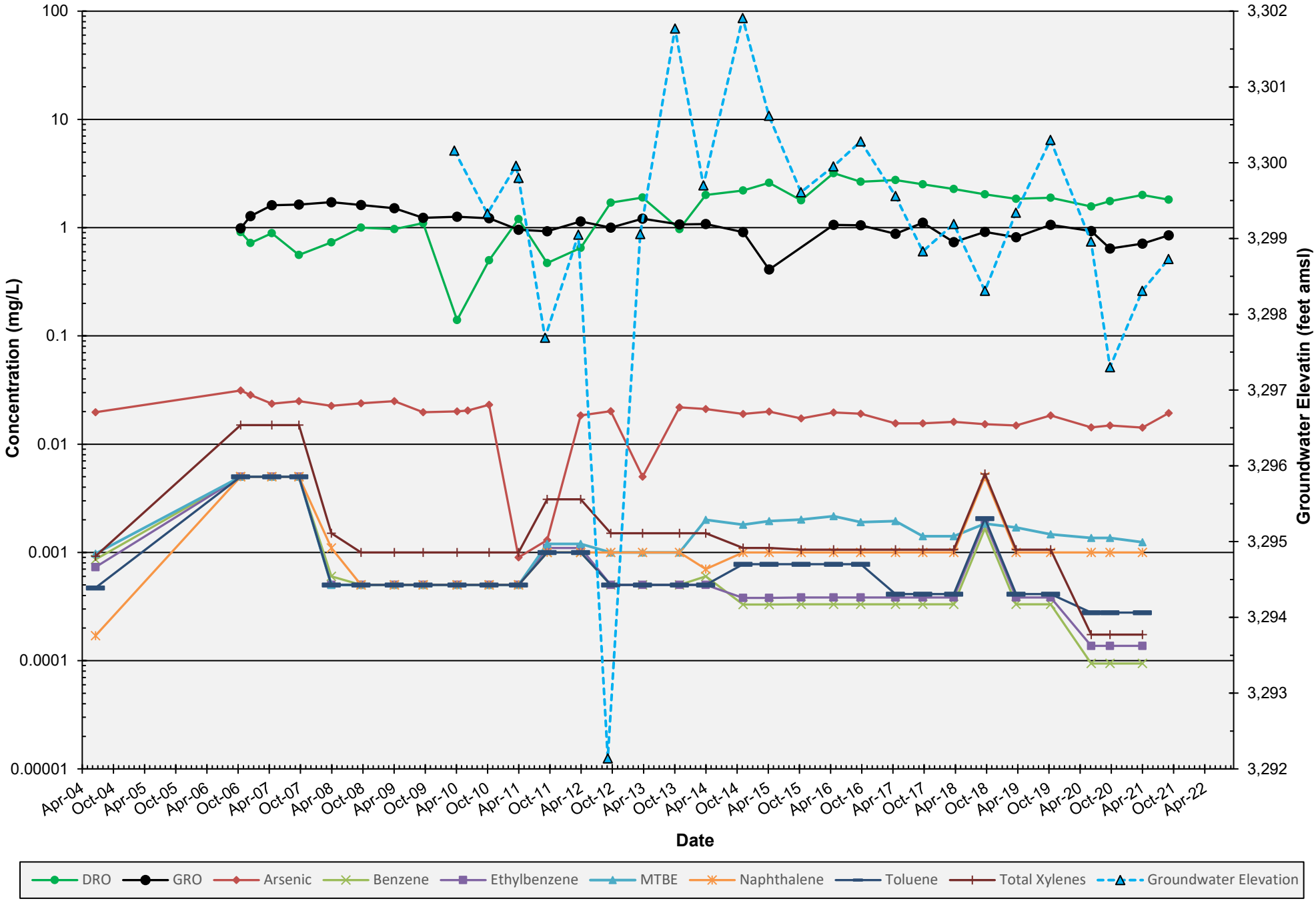
Evaporation Ponds



MW-10: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

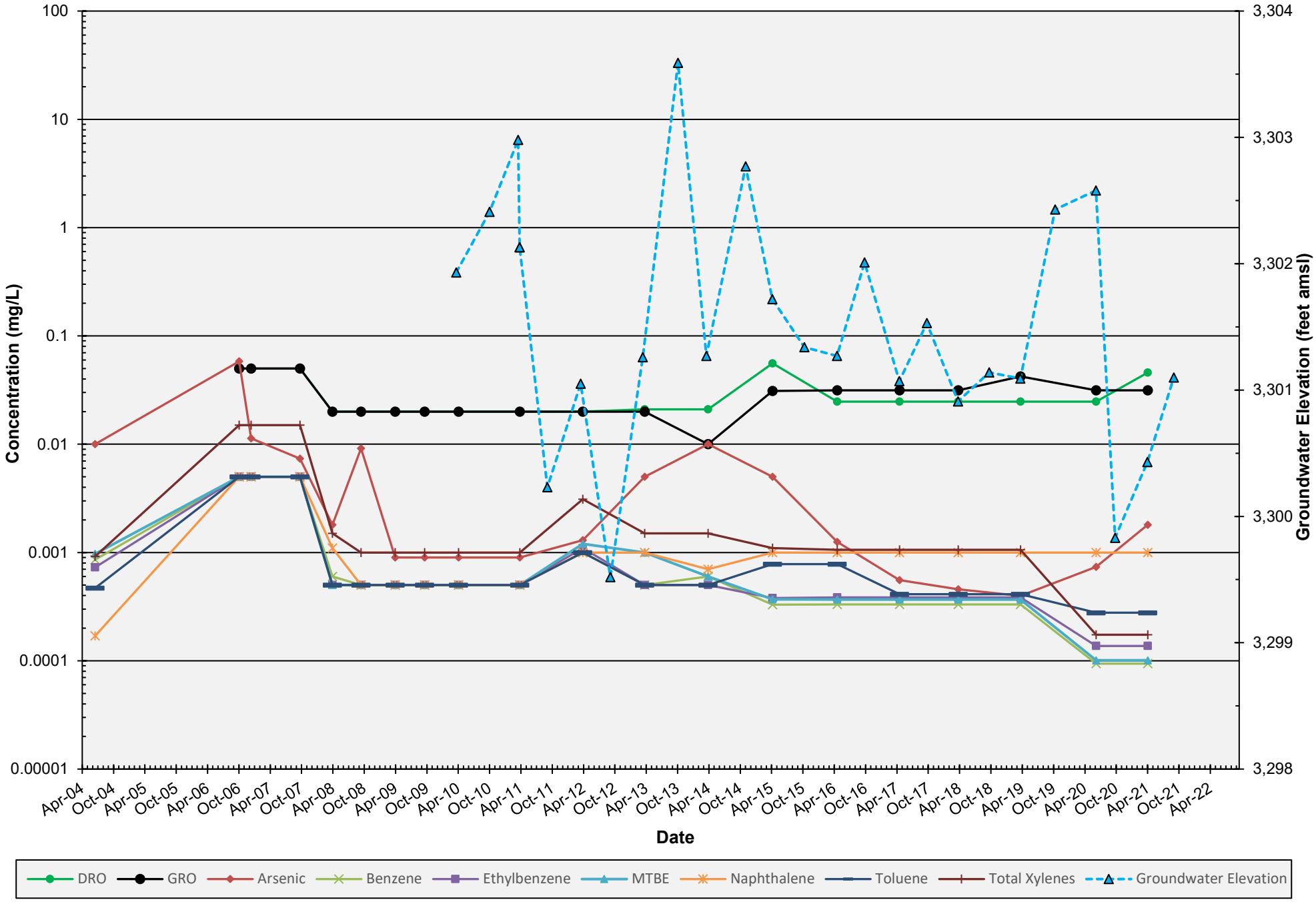
Evaporation Ponds



MW-11A: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

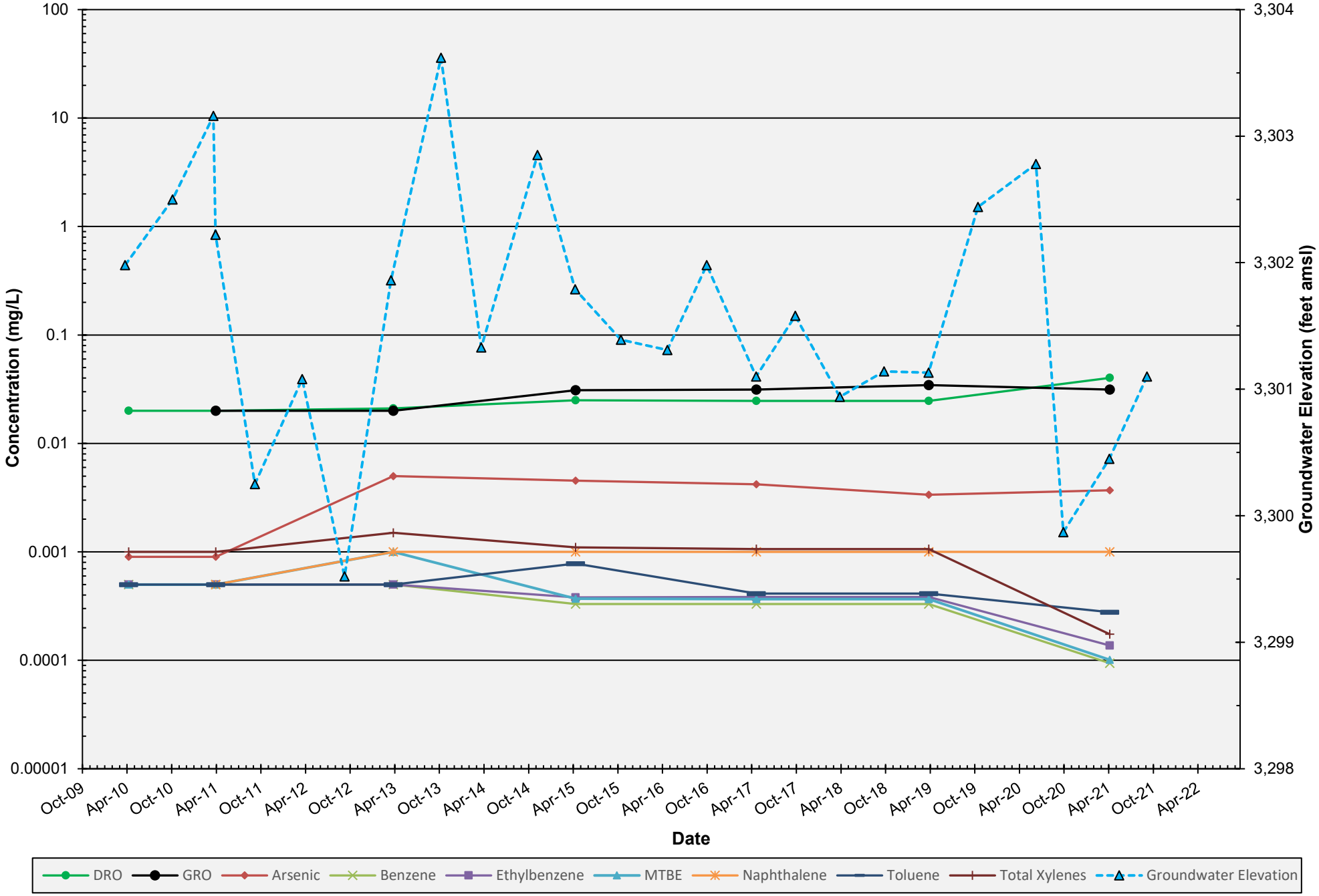
Evaporation Ponds



MW-11B: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

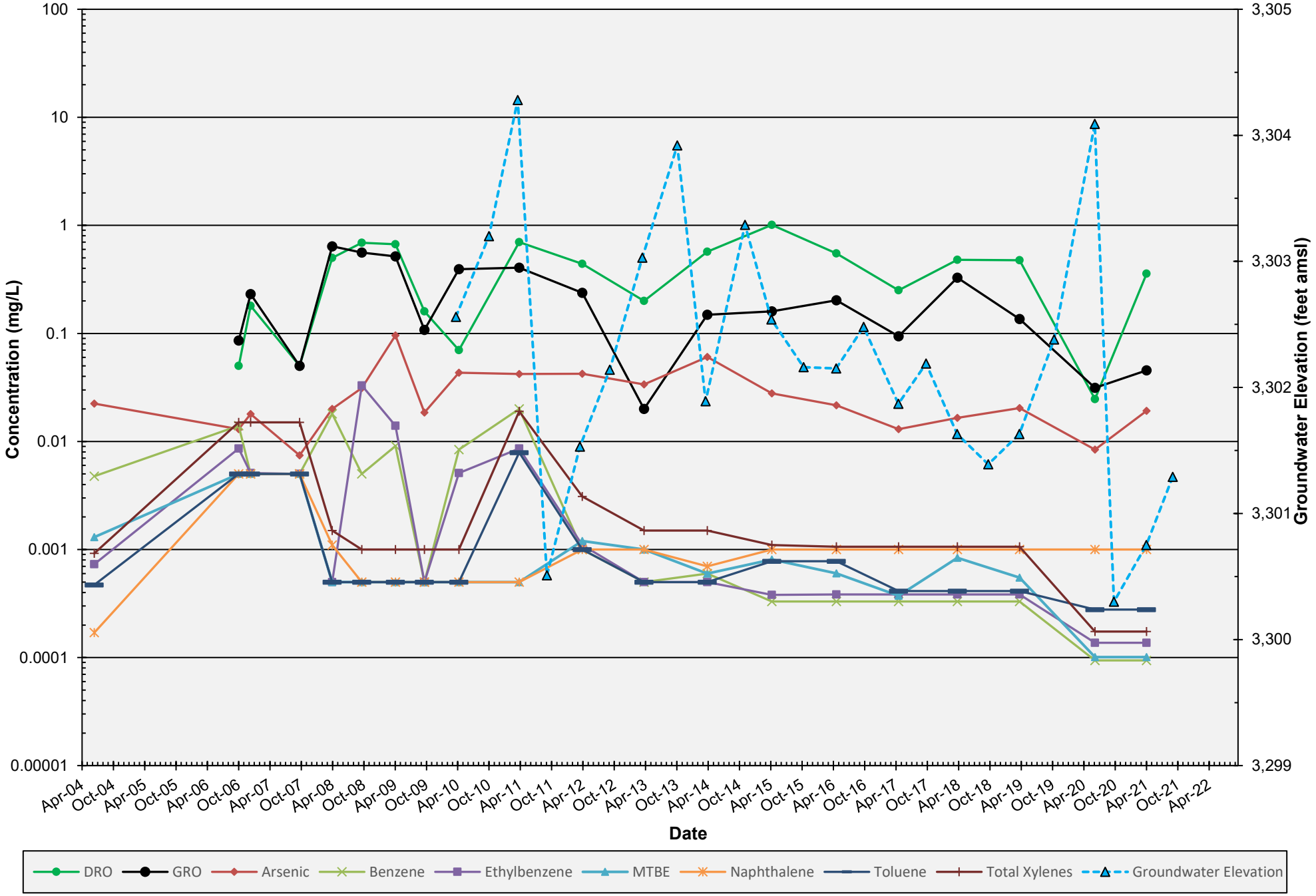
Evaporation Ponds



MW-15: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

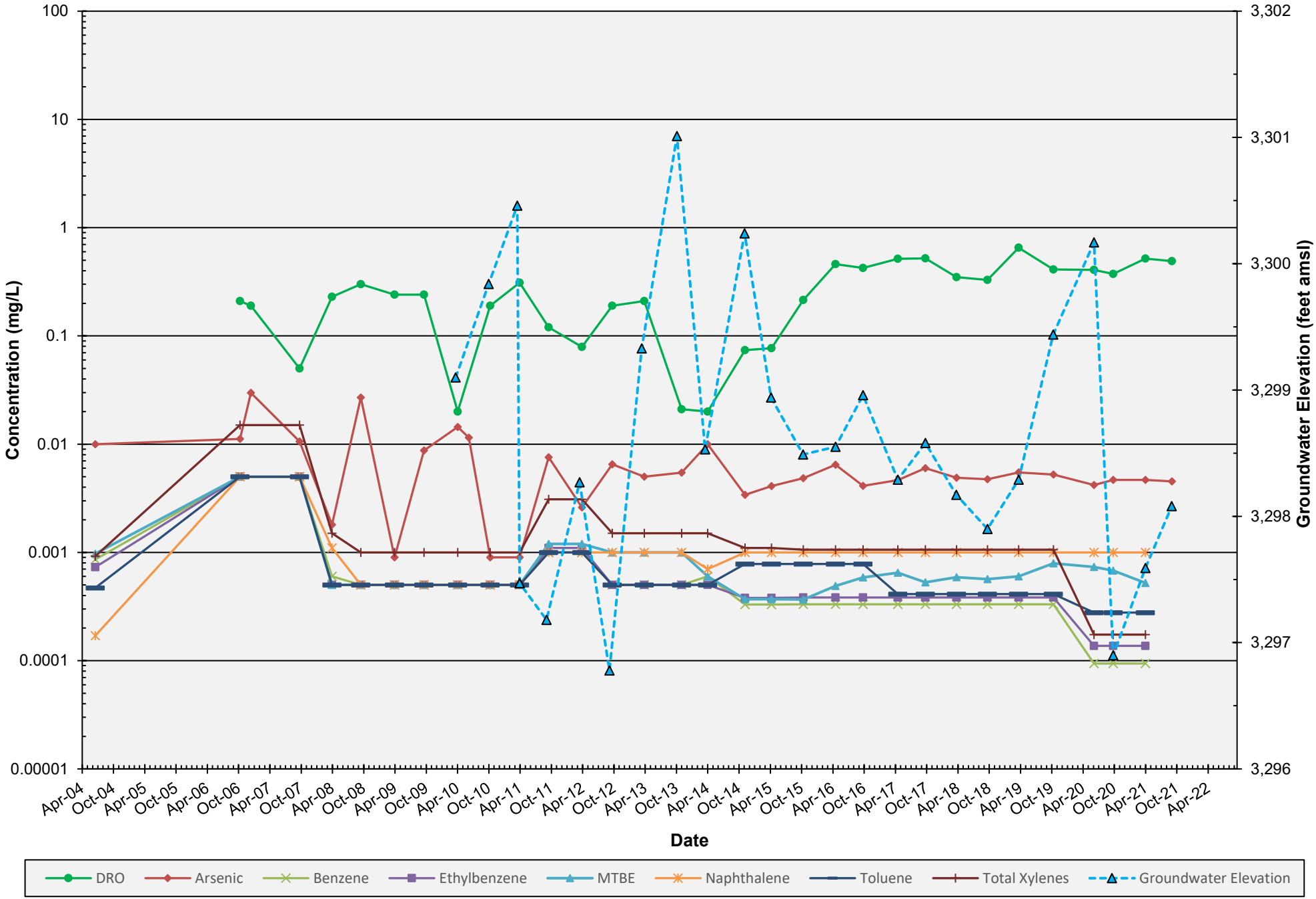
Evaporation Ponds



MW-18A: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

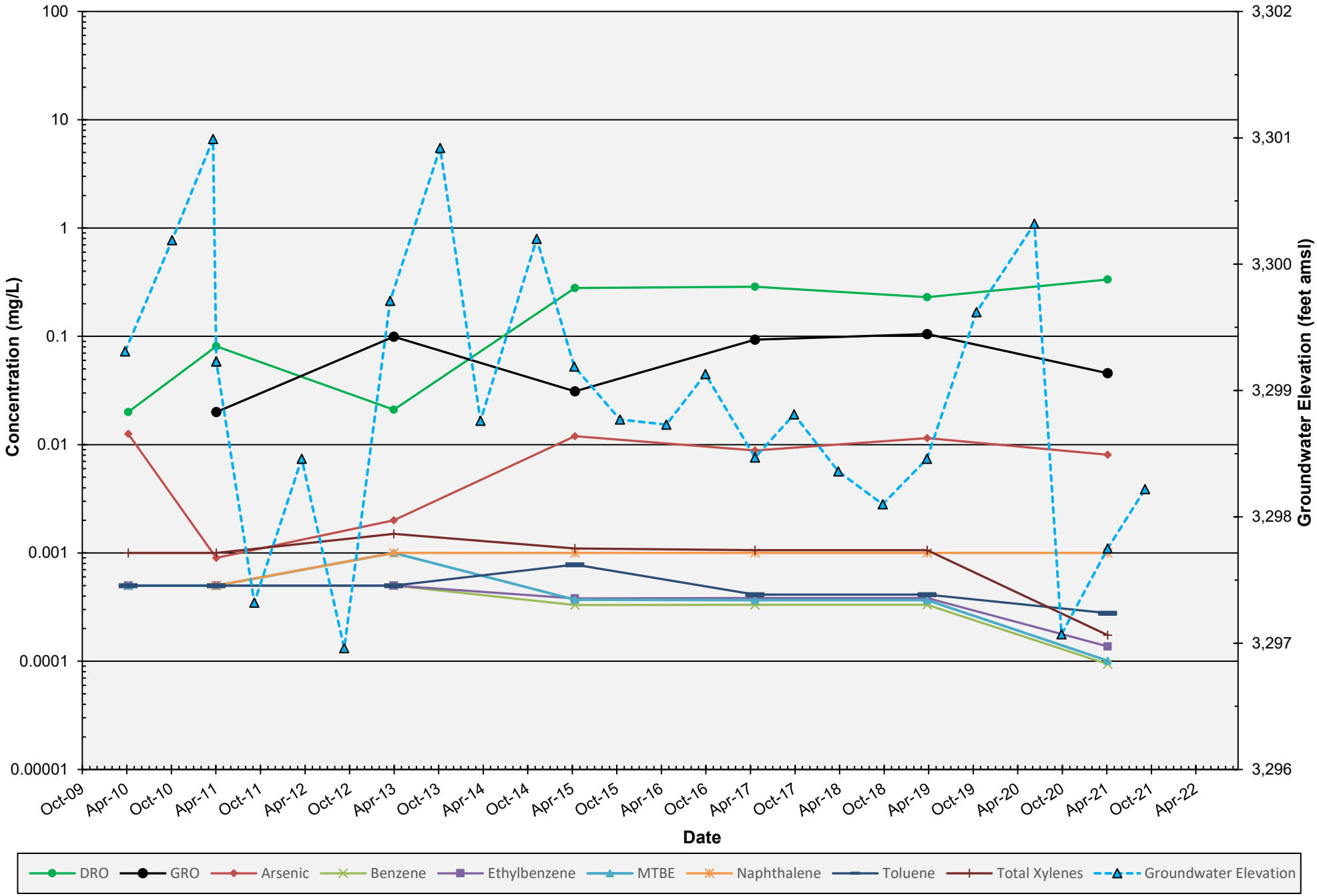
Evaporation Ponds



MW-18B: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

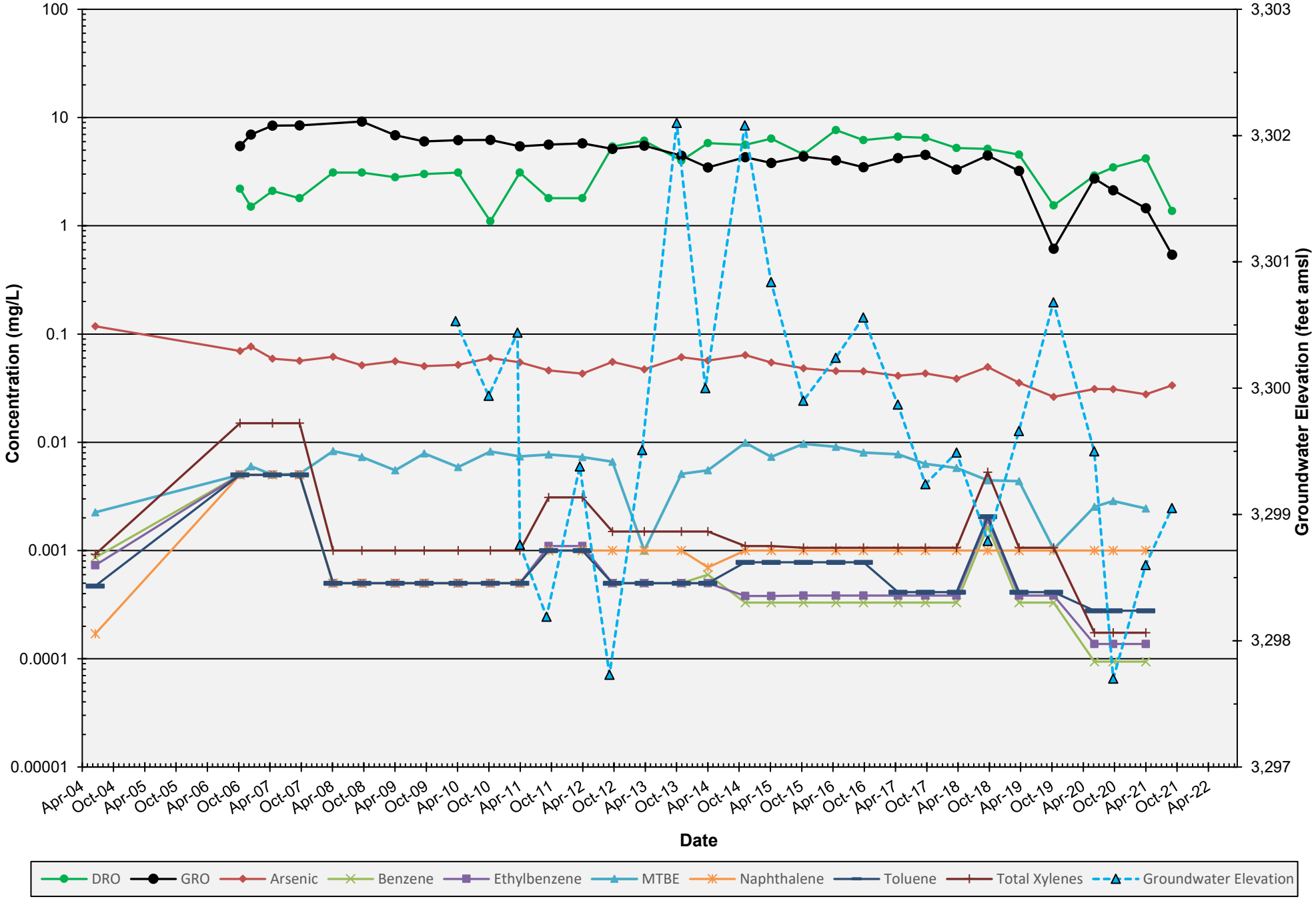
Evaporation Ponds



MW-22A: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

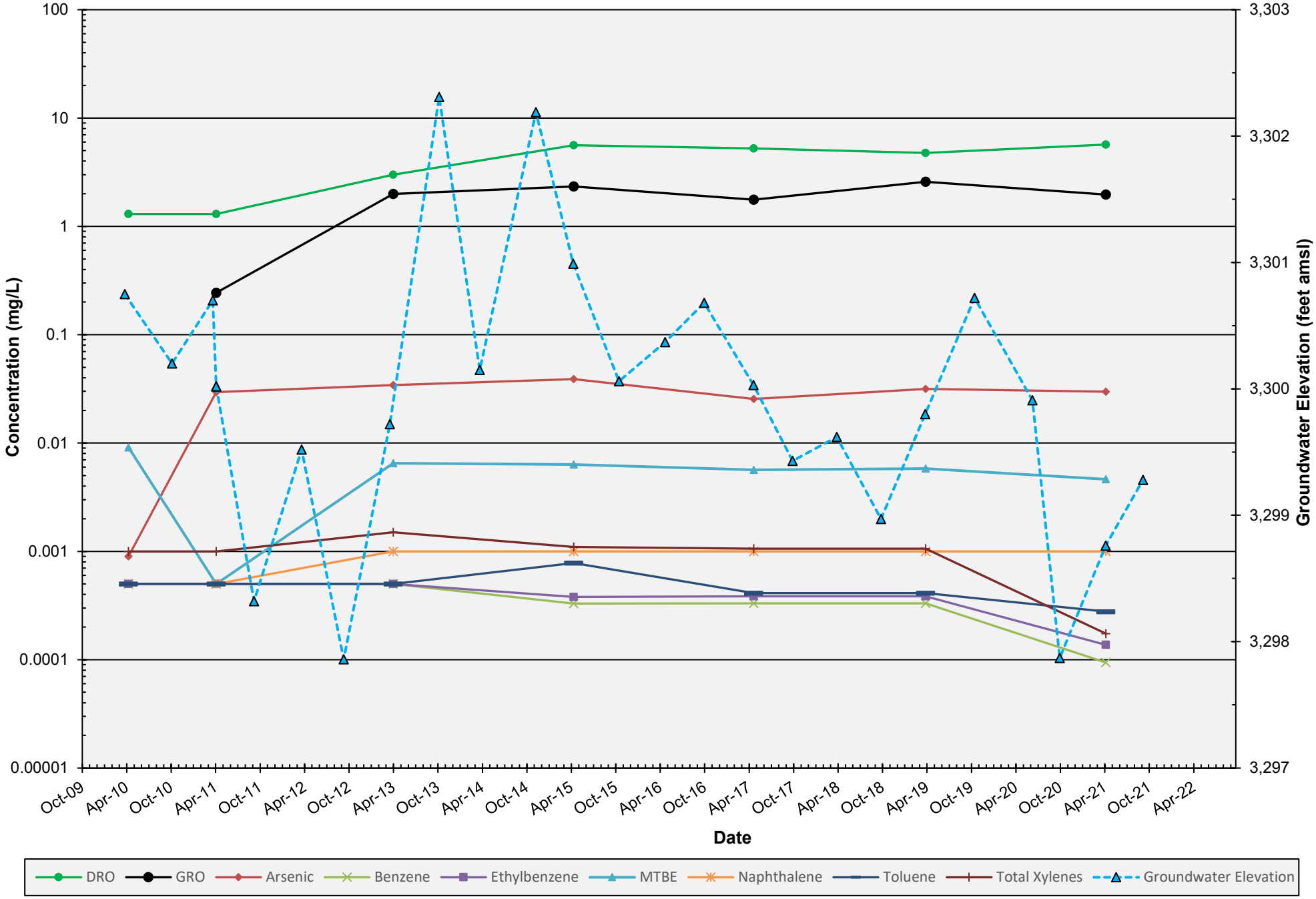
Evaporation Ponds



MW-22B: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

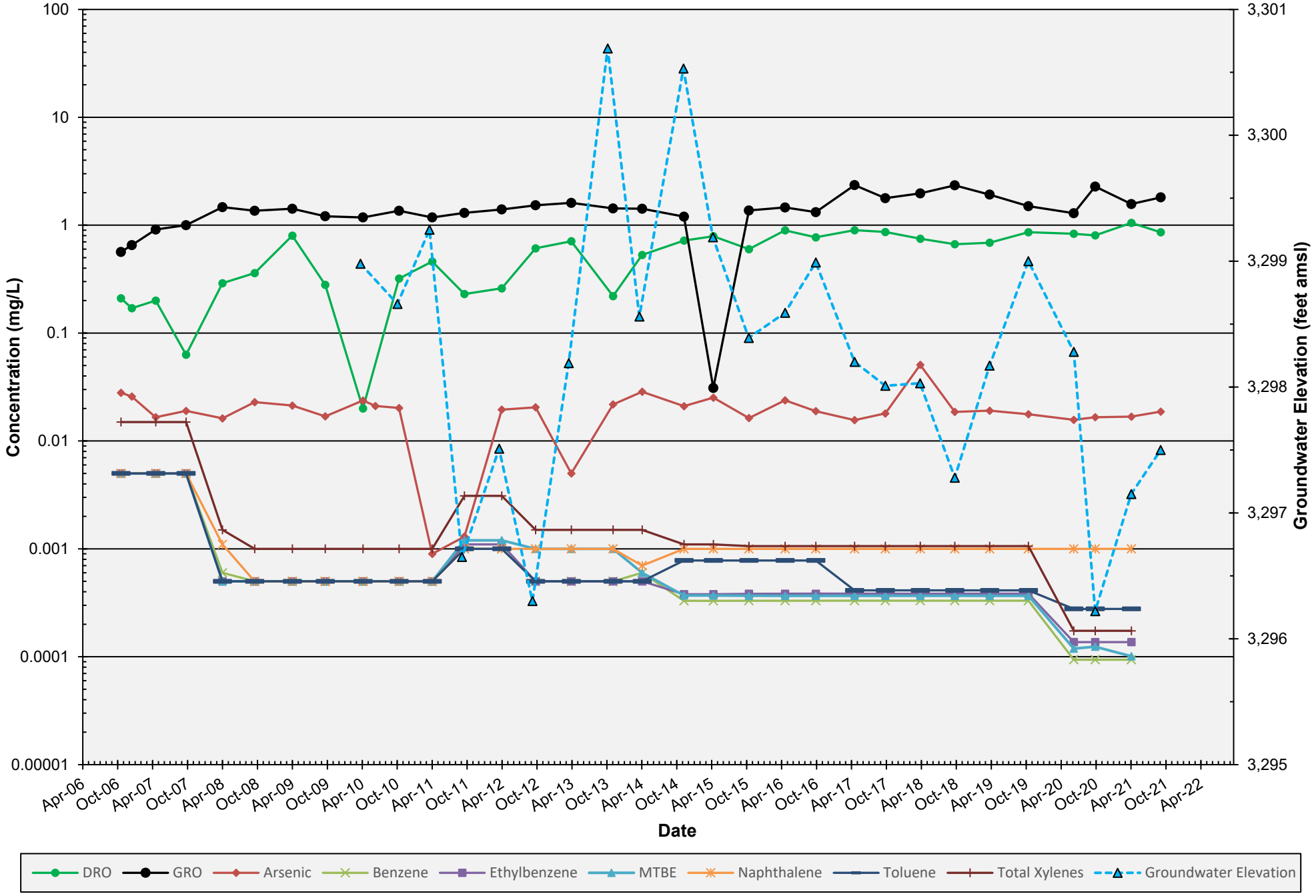


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MW-70: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

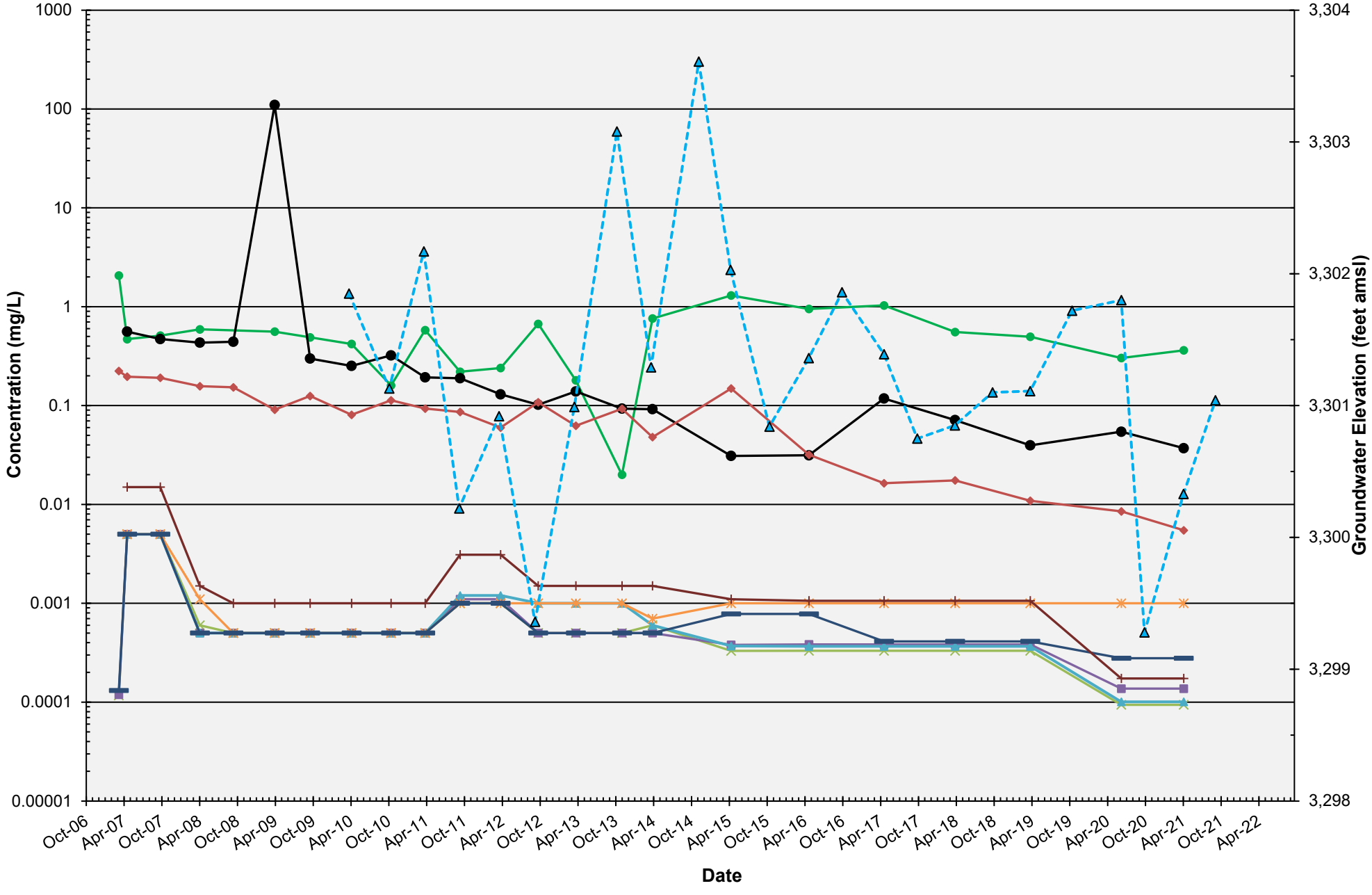


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Received by OCD: 1/9/2025 2:41:44 PM

MW-72: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

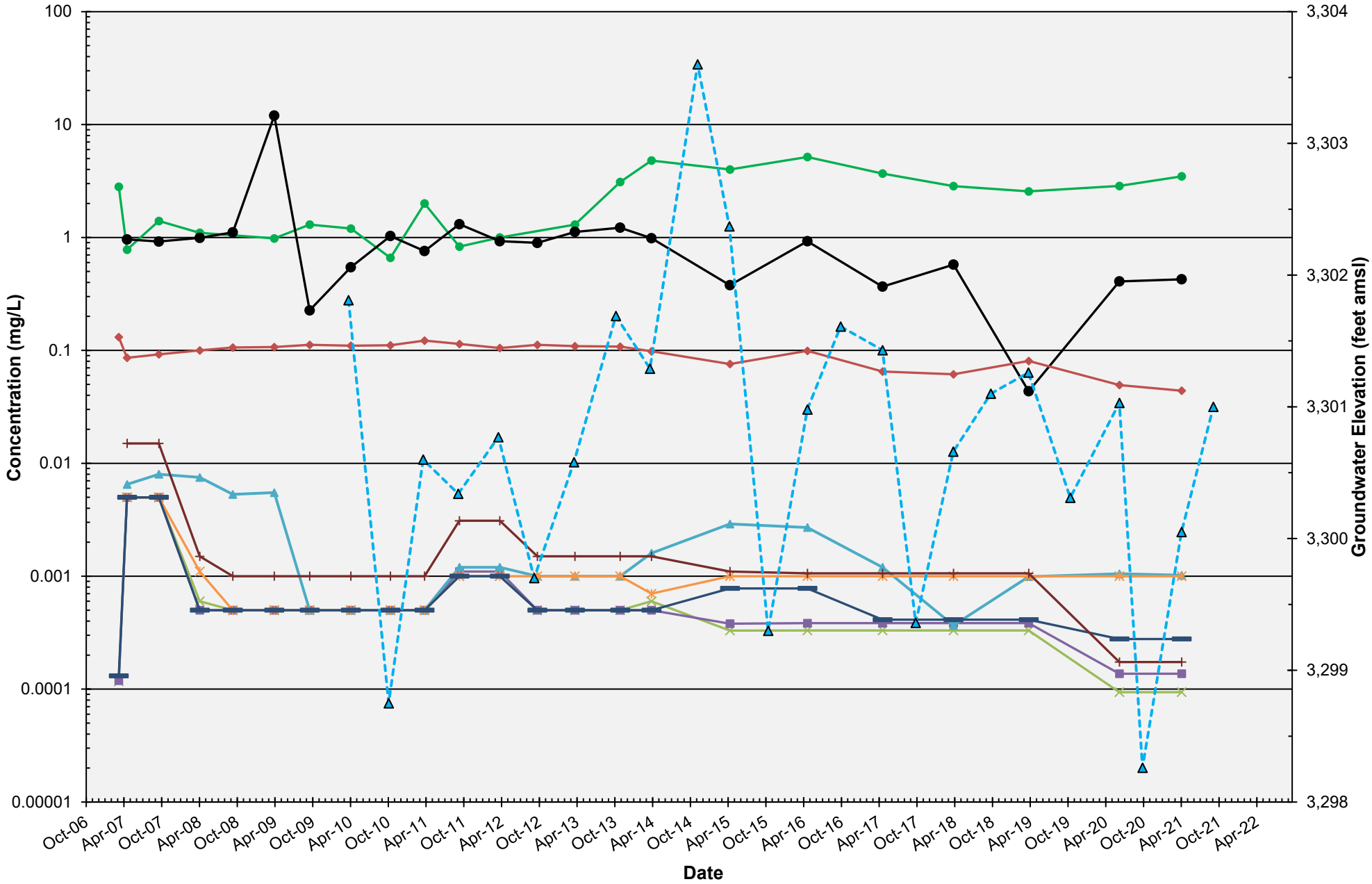


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Received by OCD: 1/9/2025 2:41:44 PM

MW-73: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

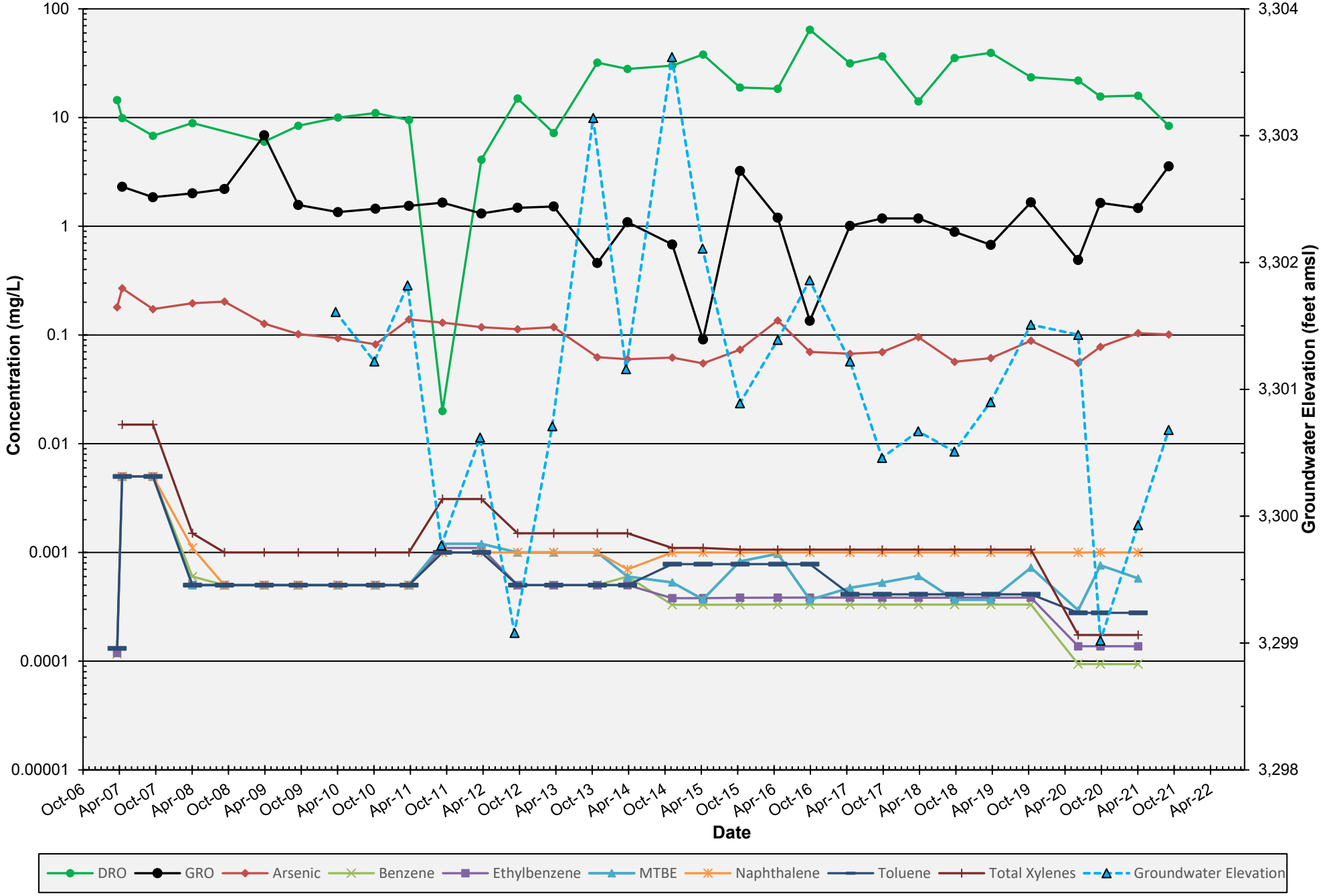


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Received by OCD: 1/9/2025 2:41:44 PM

MW-74: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

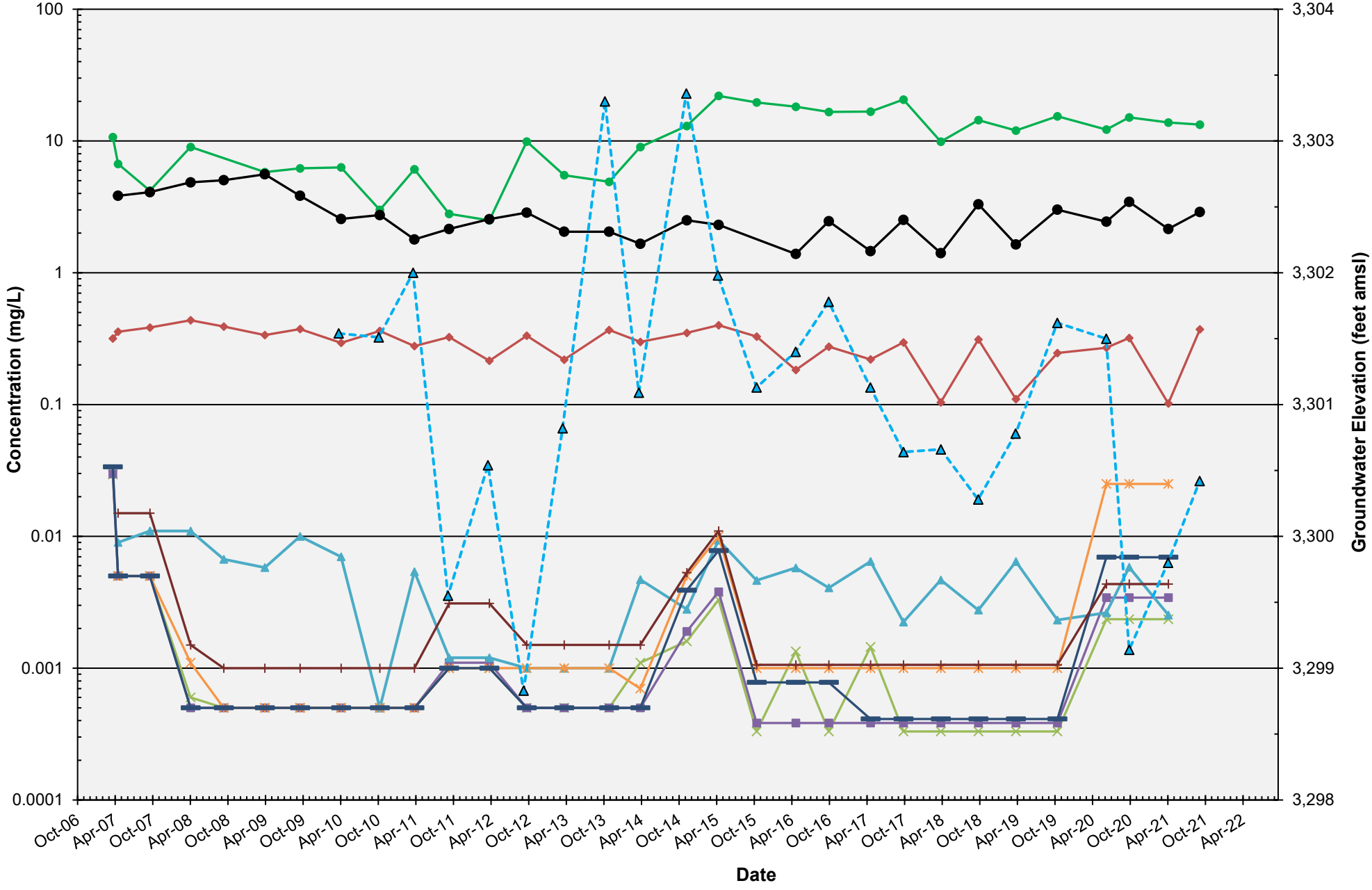


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Received by OCD: 1/9/2025 2:41:44 PM

MW-75: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

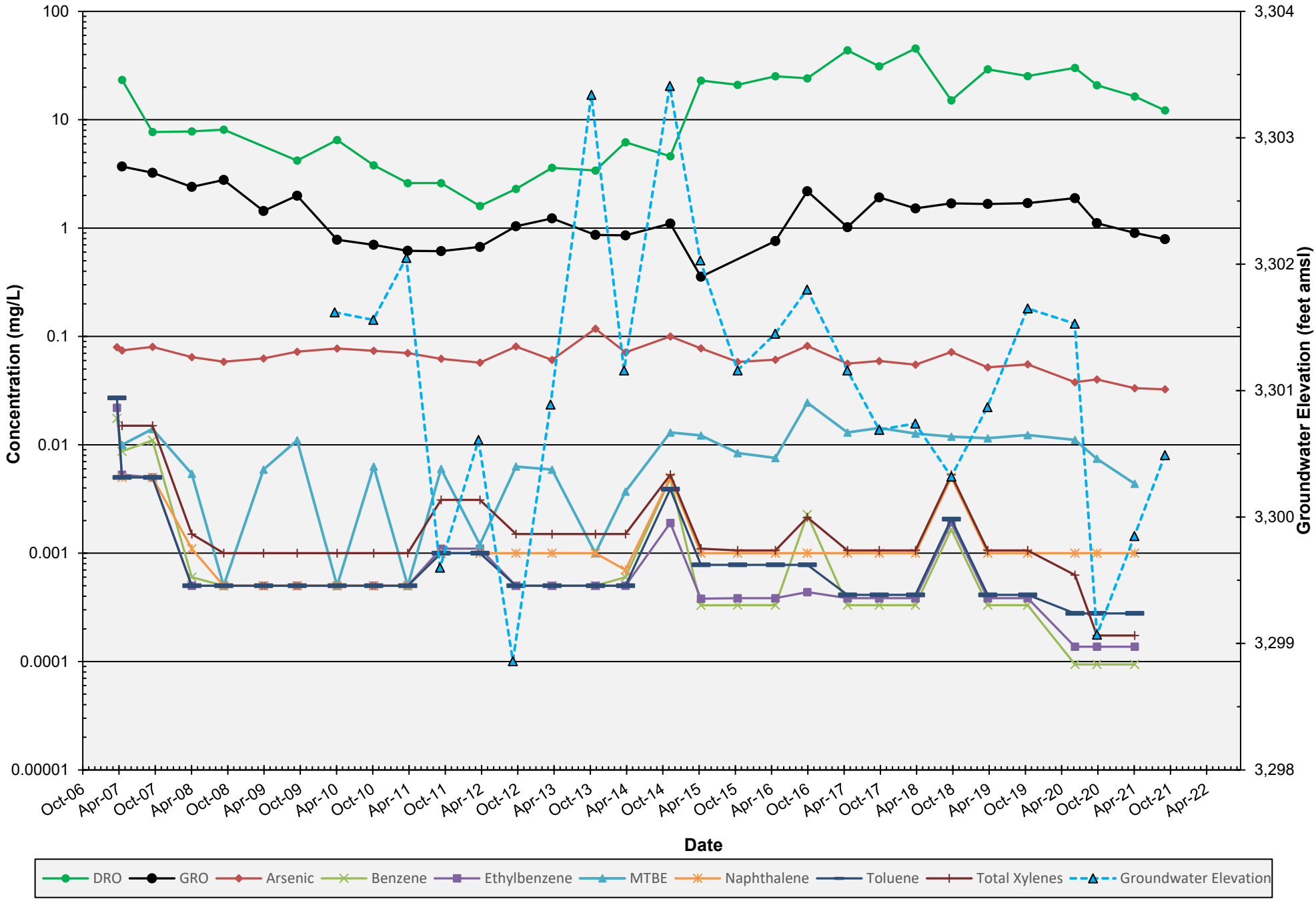


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Received by OCD: 1/9/2025 2:41:44 PM

MW-76: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

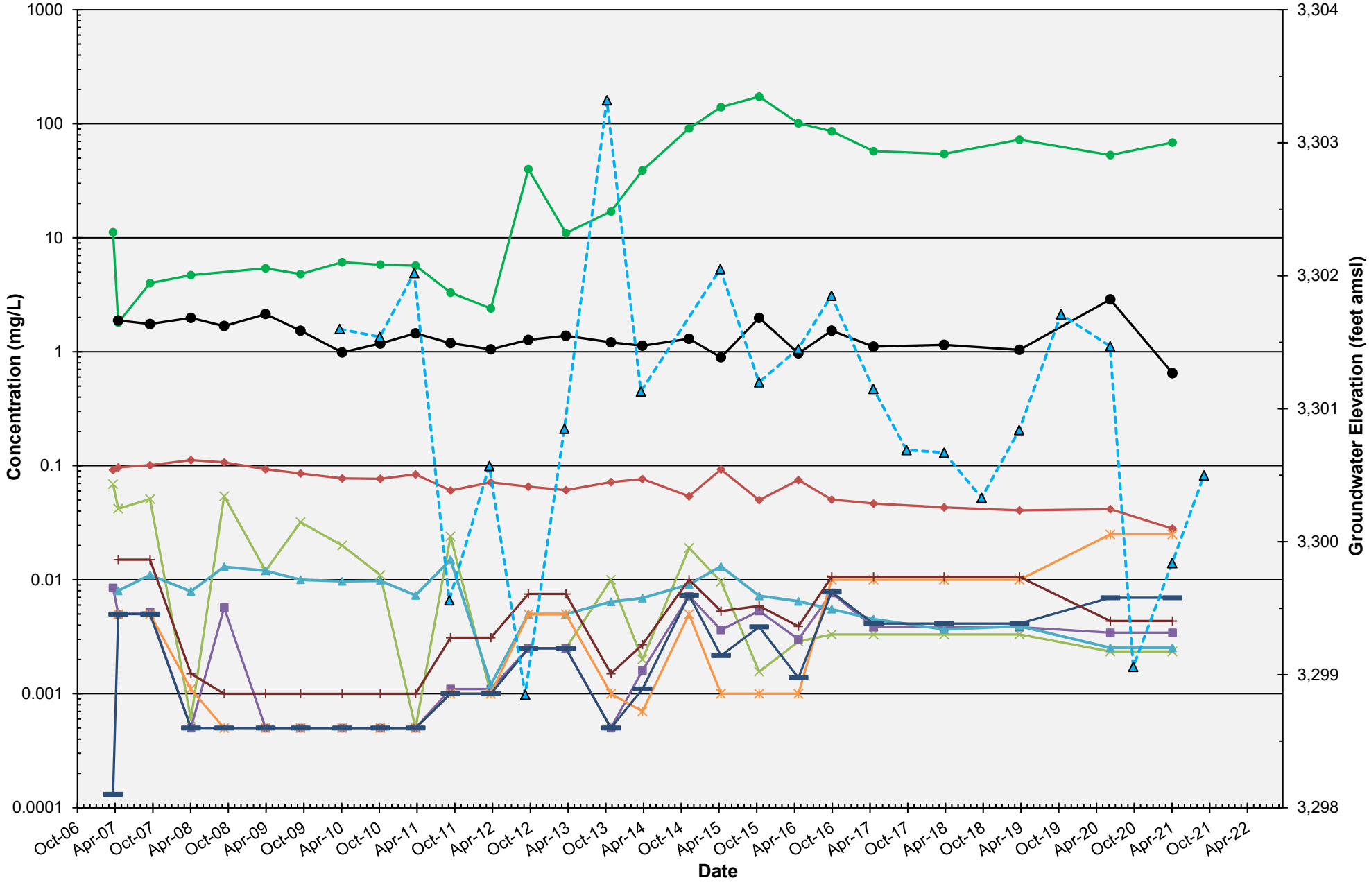


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Received by OCD: 1/9/2025 2:41:44 PM

MW-77: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

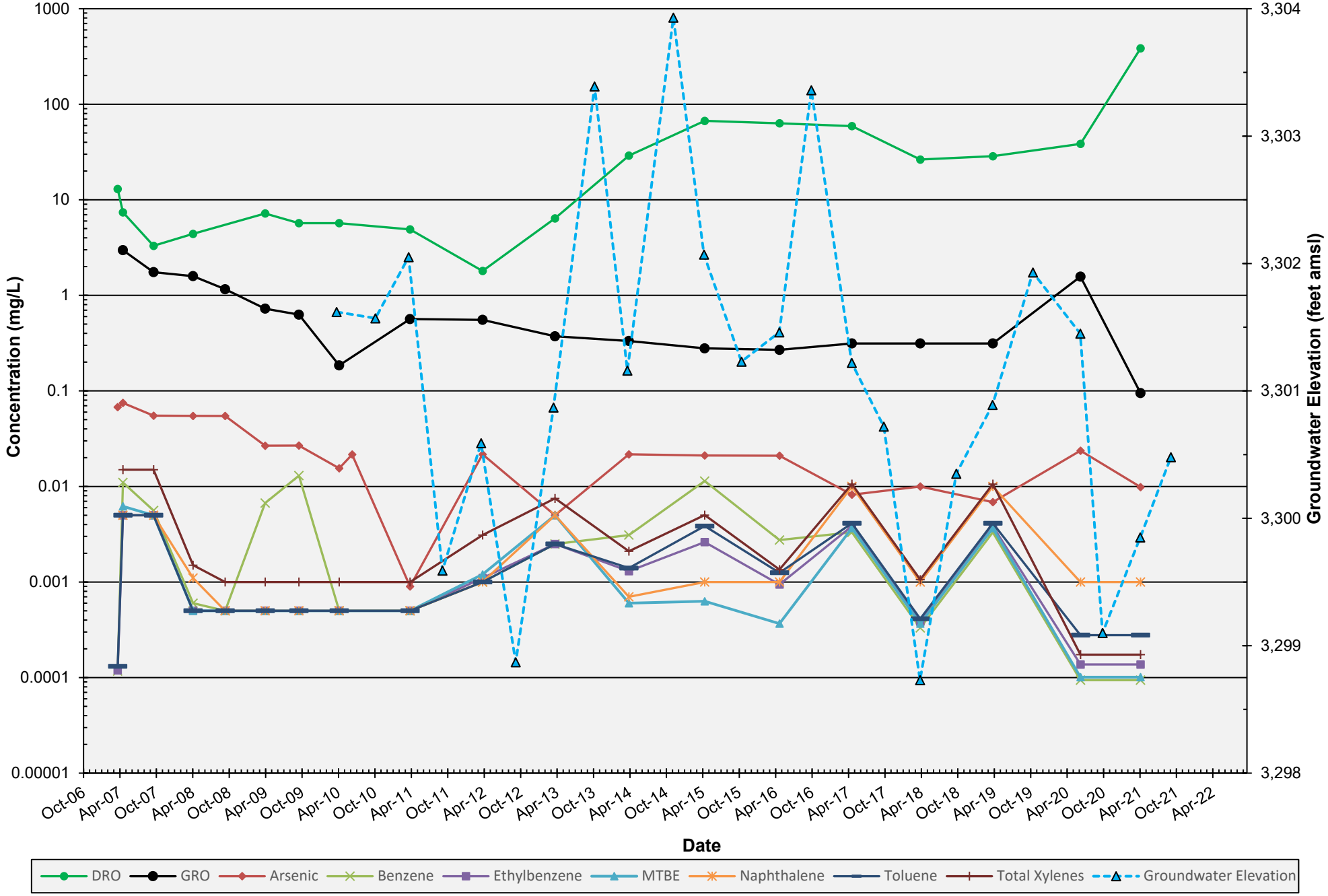


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Received by OCD: 1/9/2025 2:41:44 PM

MW-78: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

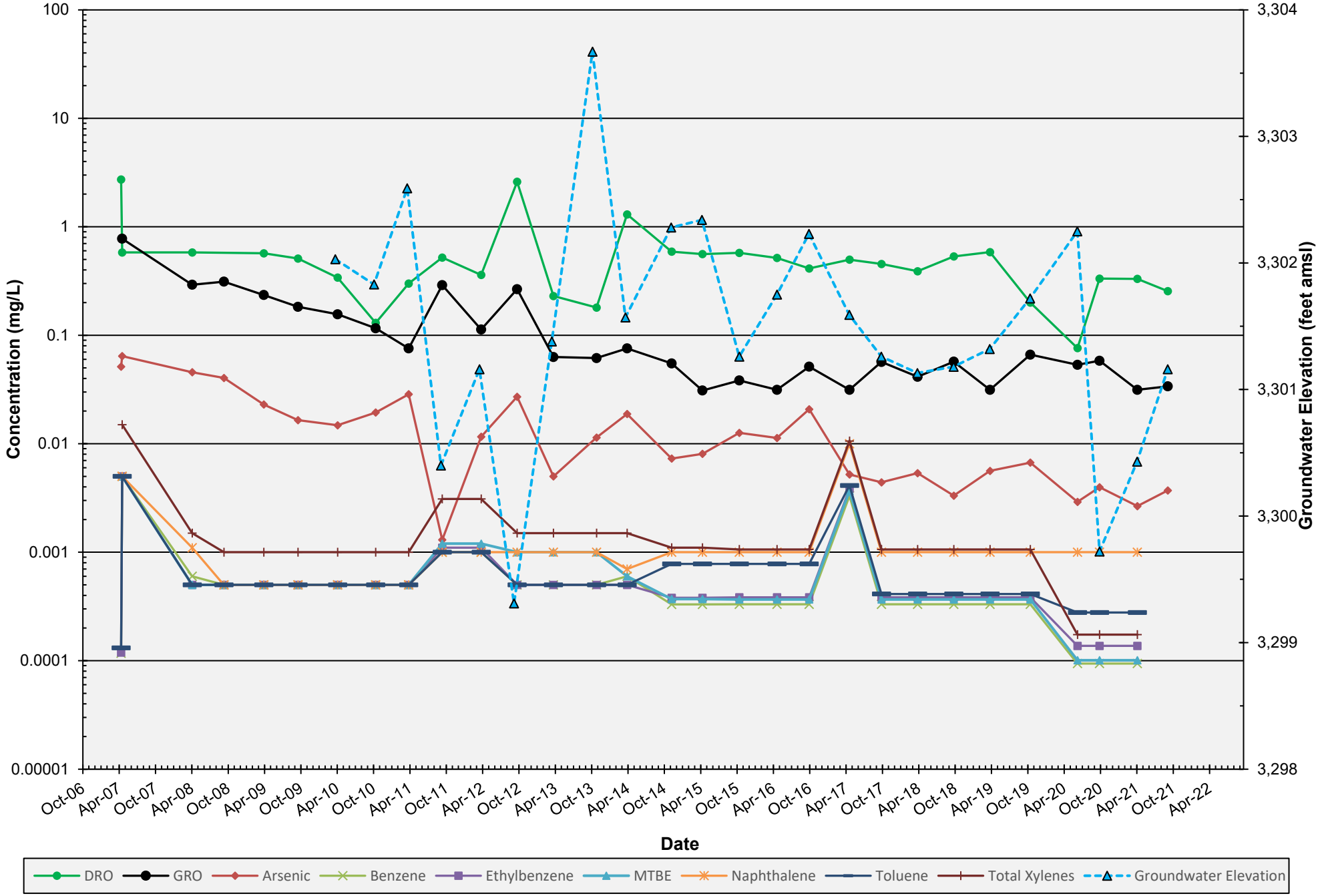


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Received by OCD: 1/9/2025 2:41:44 PM

MW-79: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

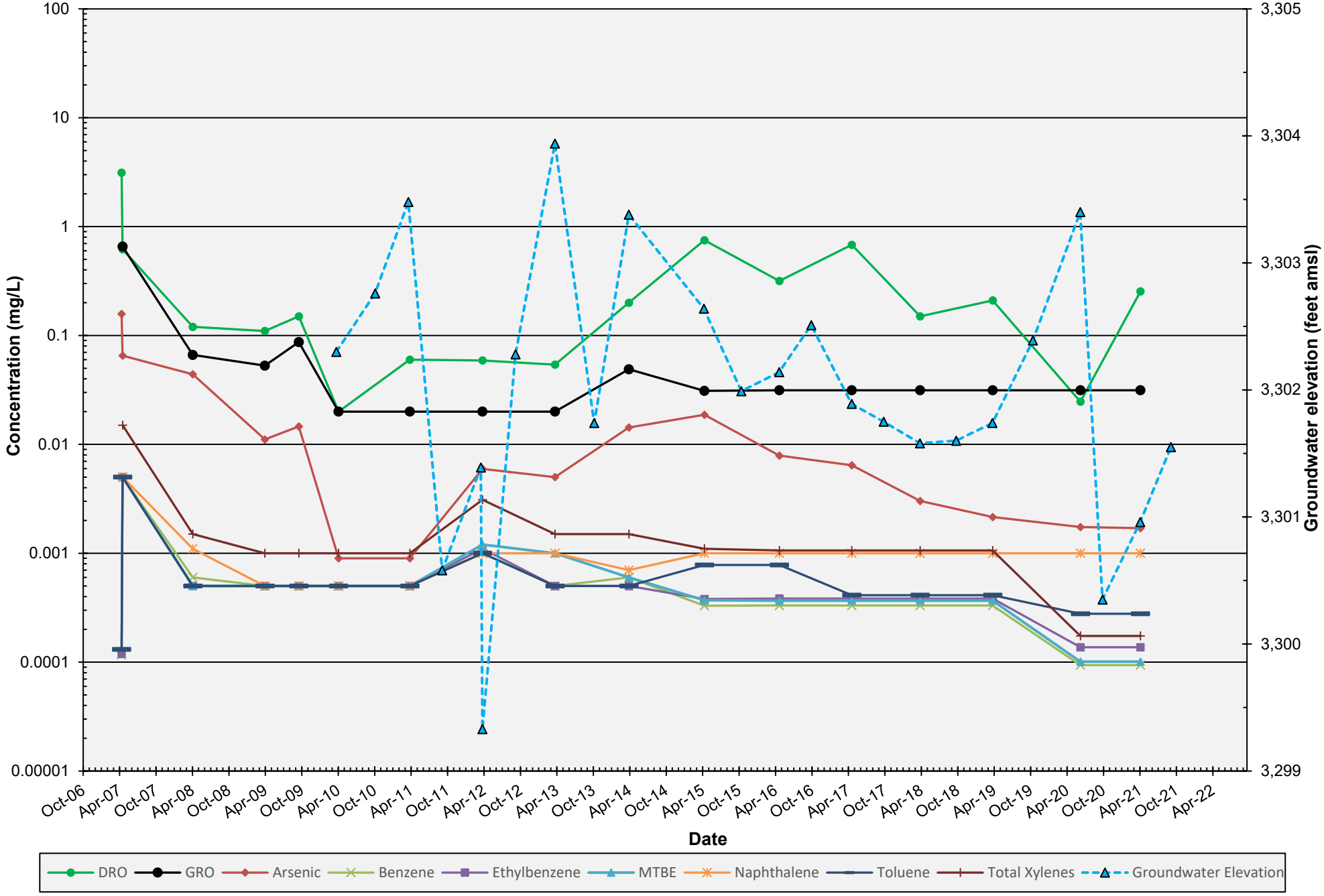


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Received by OCD: 1/9/2025 2:41:44 PM

MW-80: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

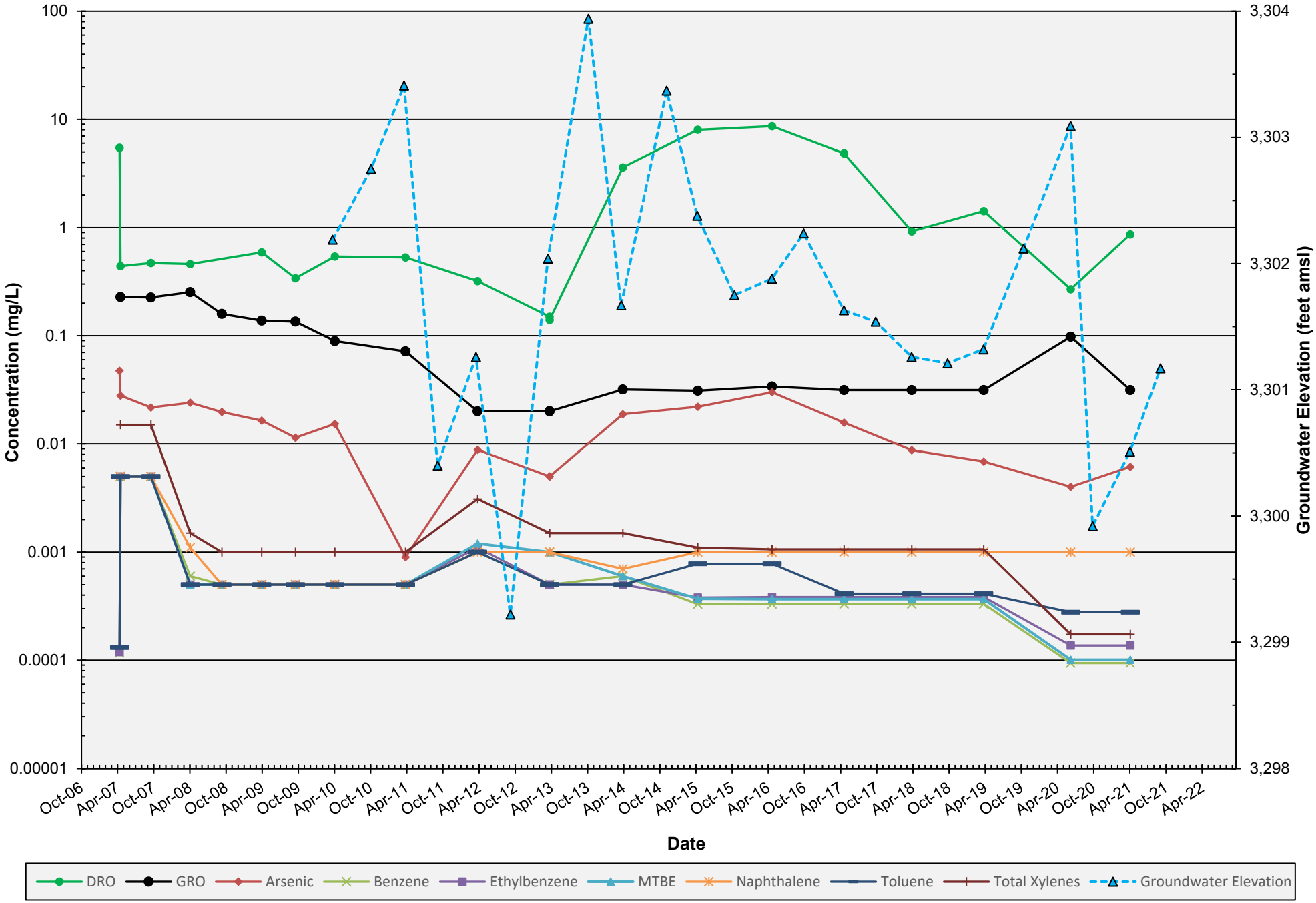


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Received by OCD: 1/9/2025 2:41:44 PM

MW-81: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

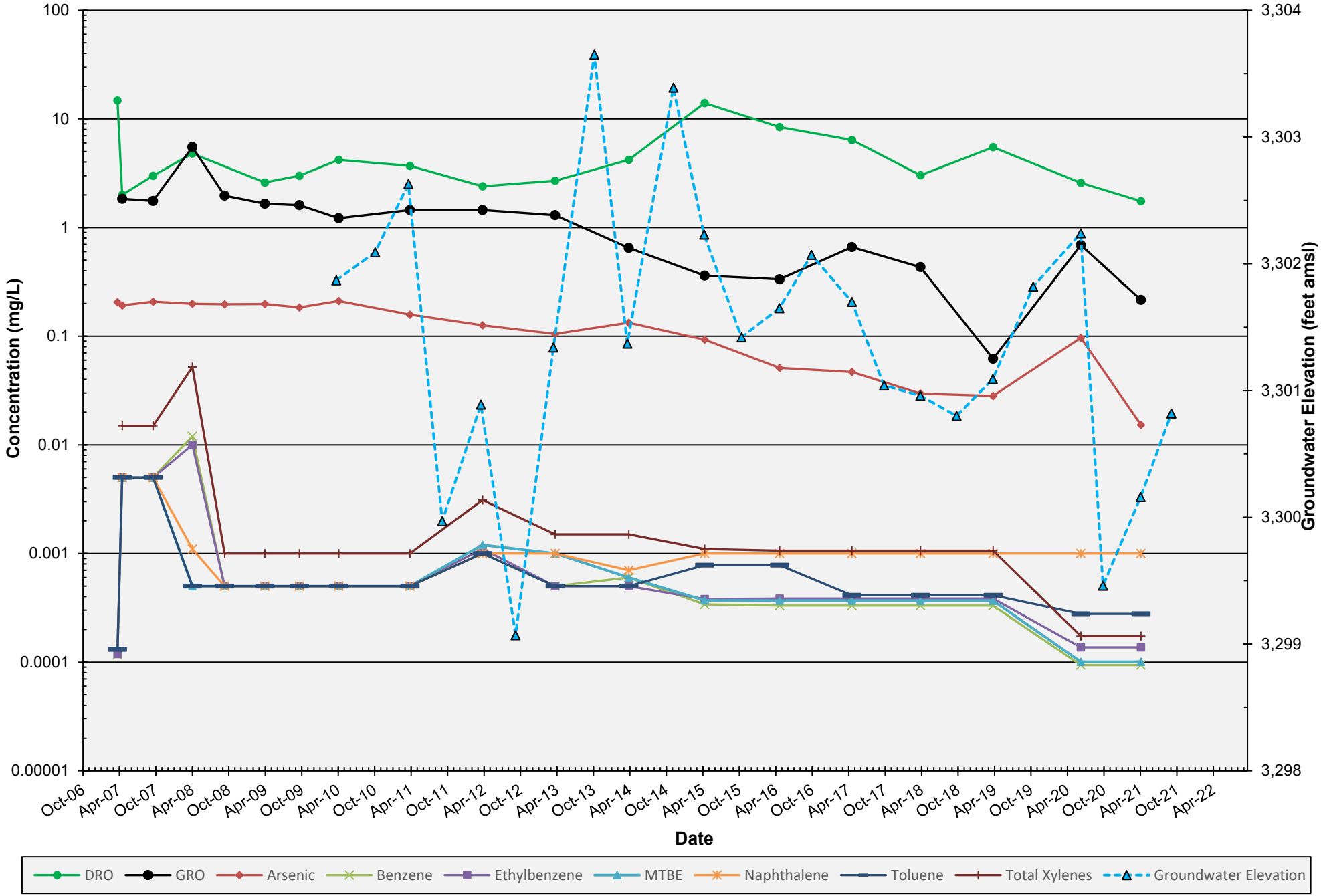


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Received by OCD: 1/9/2025 2:41:44 PM

MW-82: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

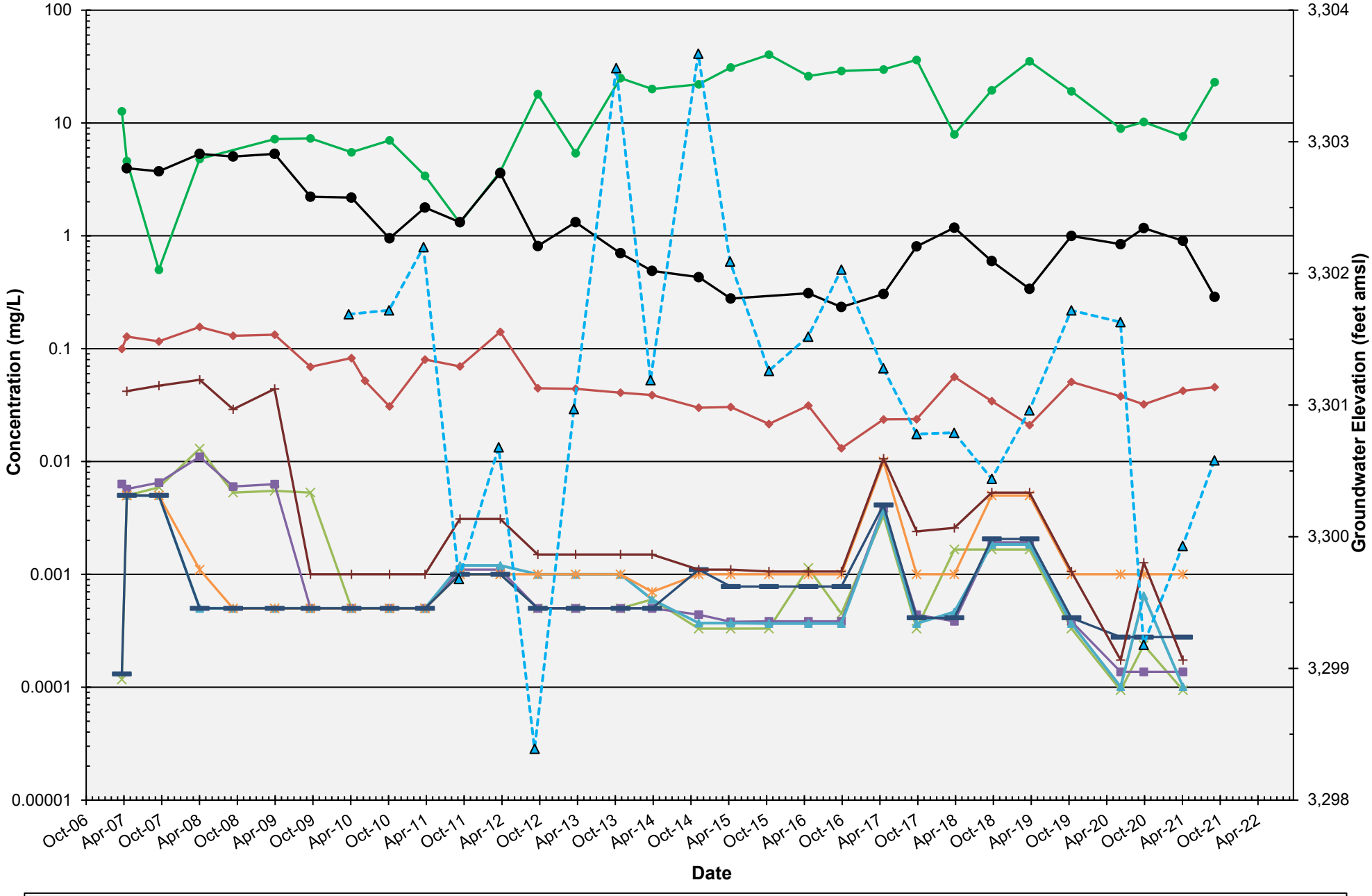


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Received by OCD: 1/9/2025 2:41:44 PM

MW-83: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

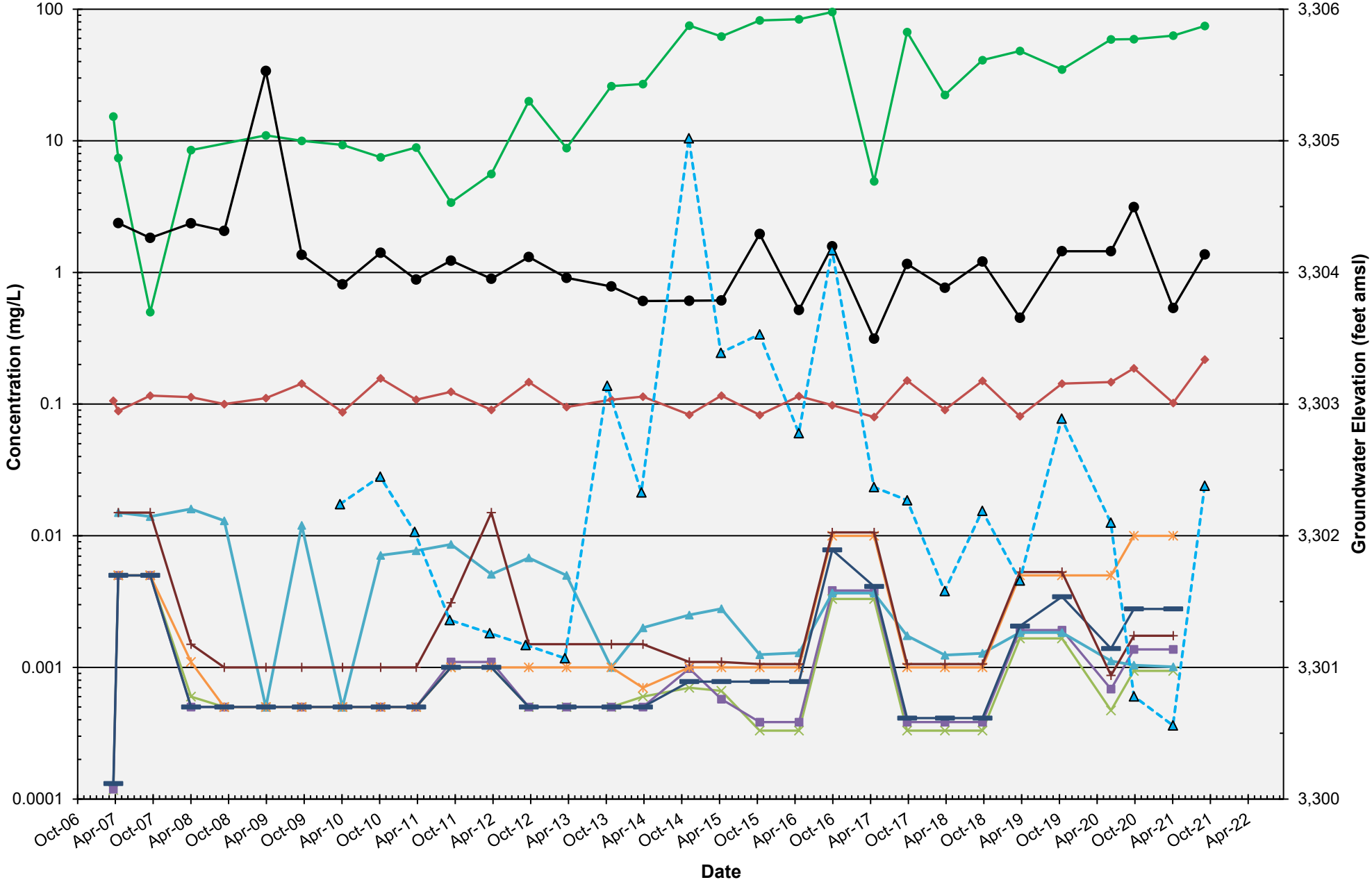


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Received by OCD: 1/9/2025 2:41:44 PM

MW-84: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

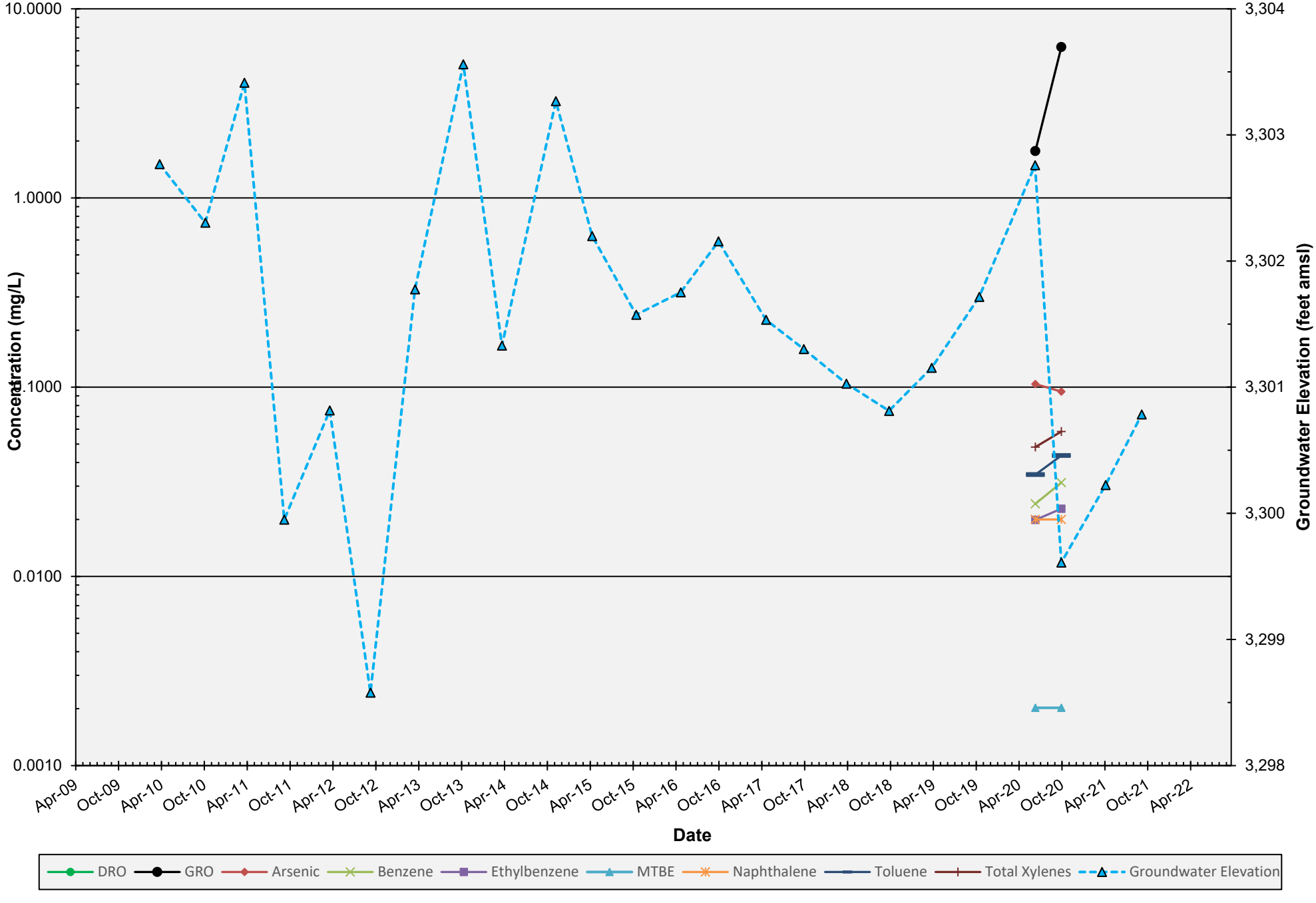


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MW-86: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

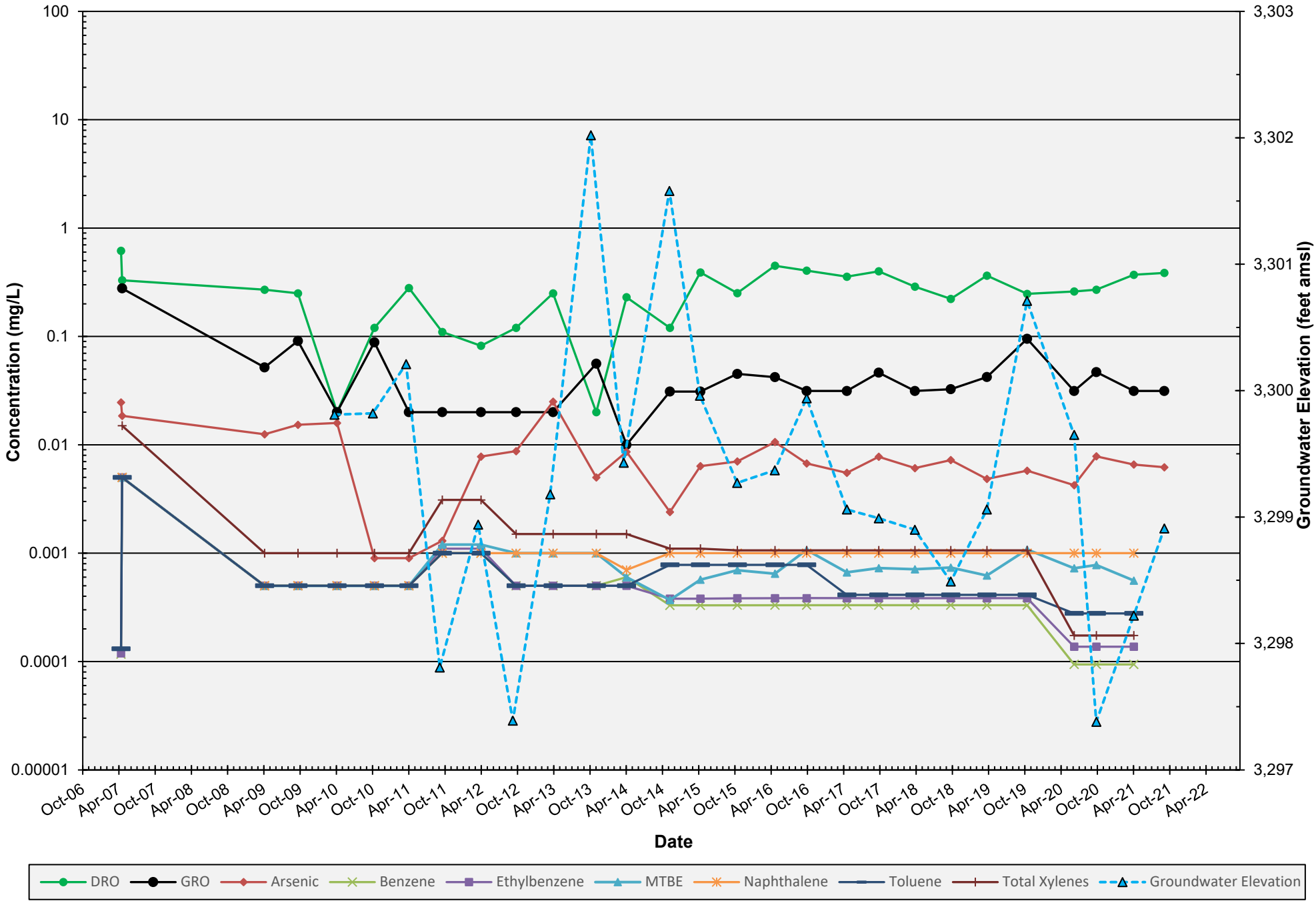


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MW-87: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

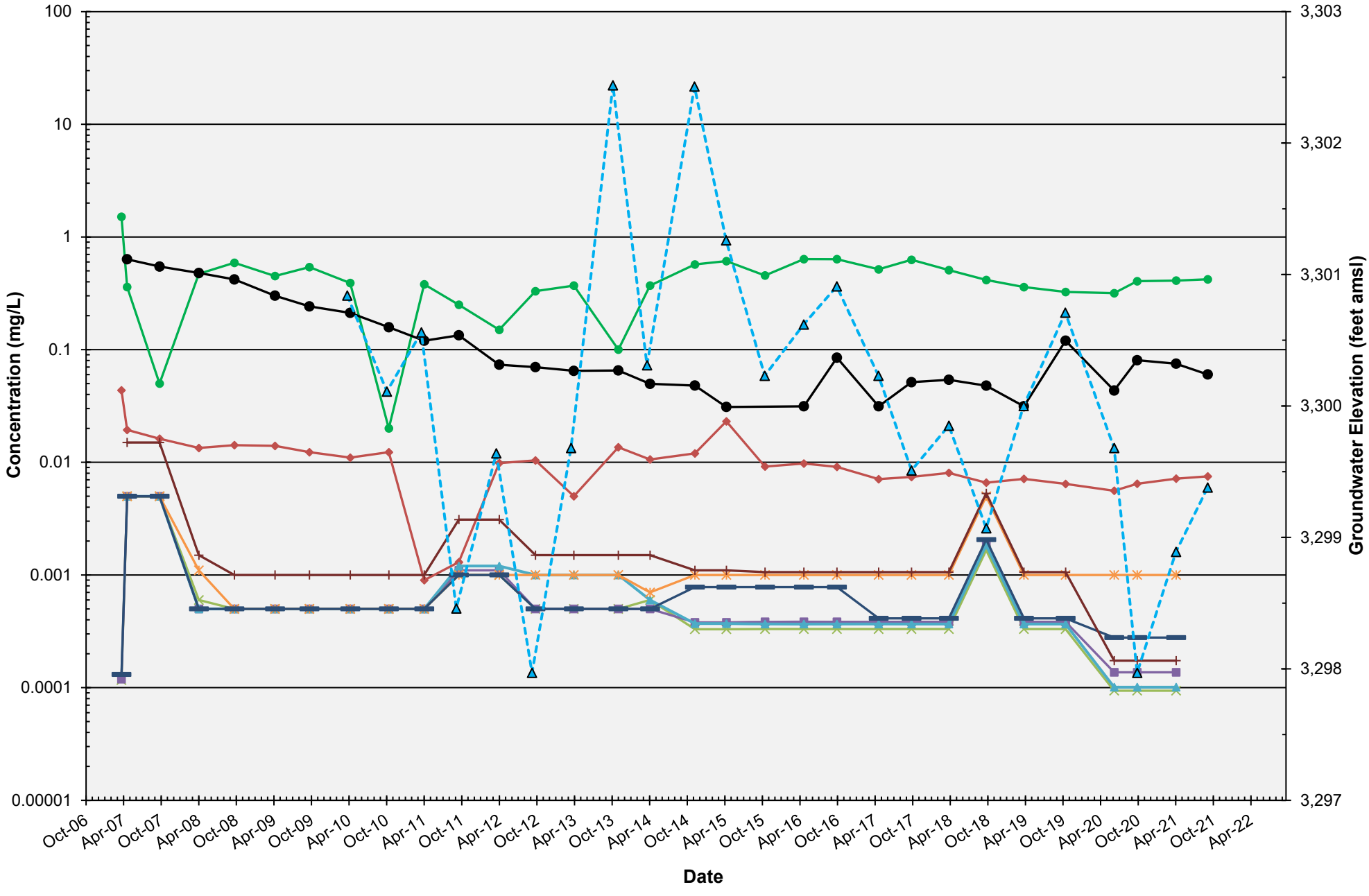


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MW-88: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

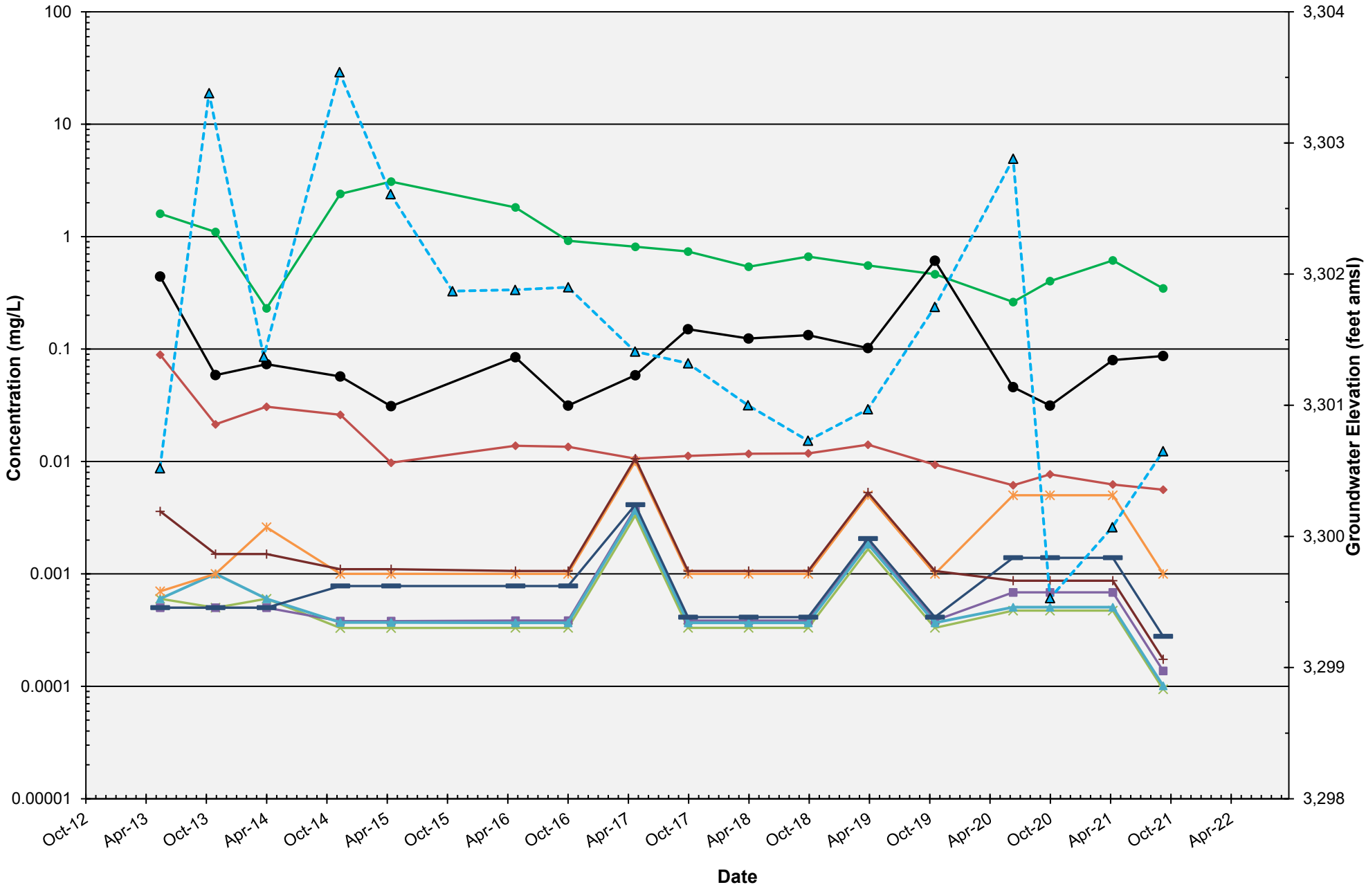


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MW-120: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

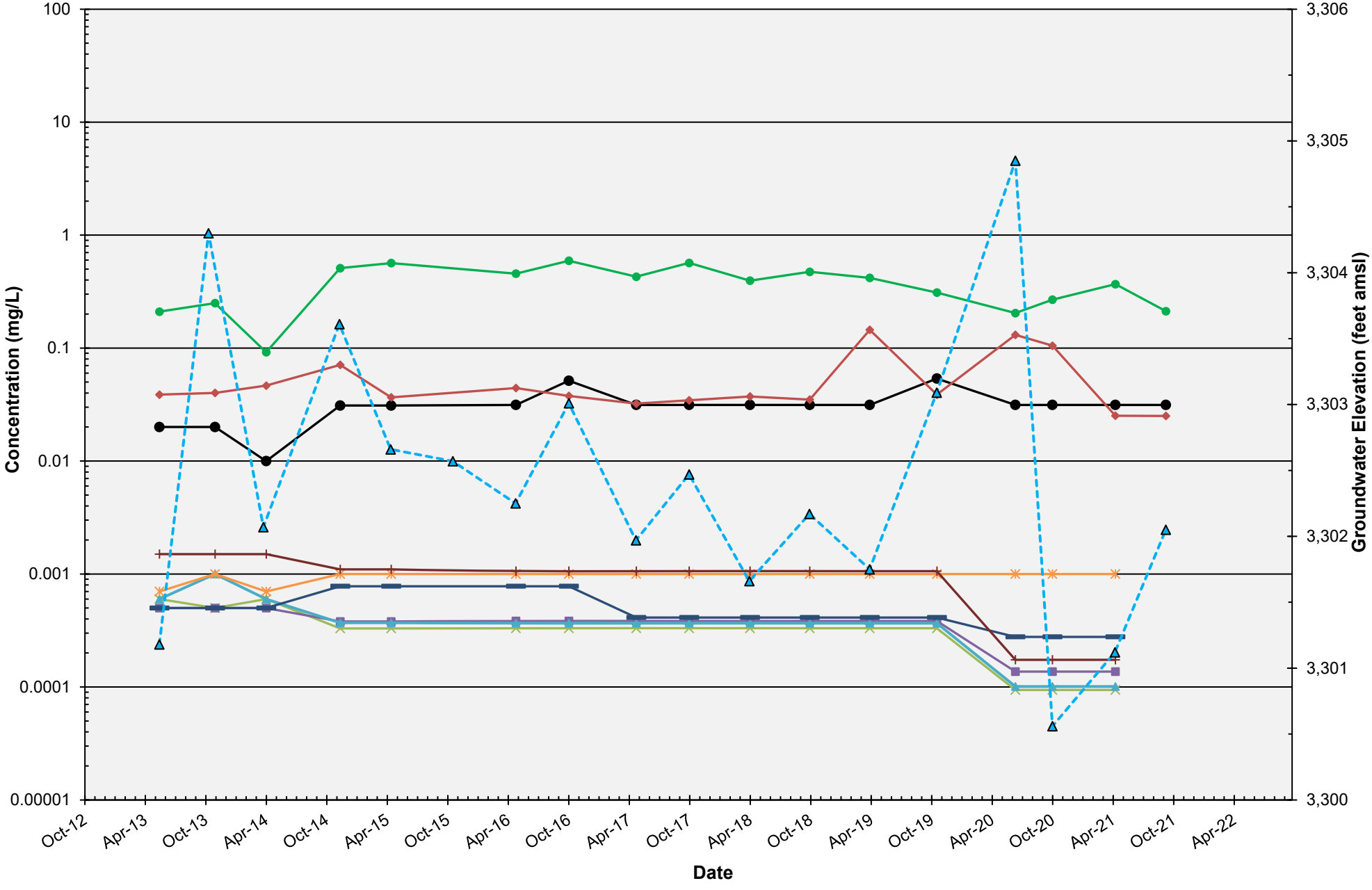


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Received by OCD: 1/9/2025 2:41:44 PM

MW-121: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

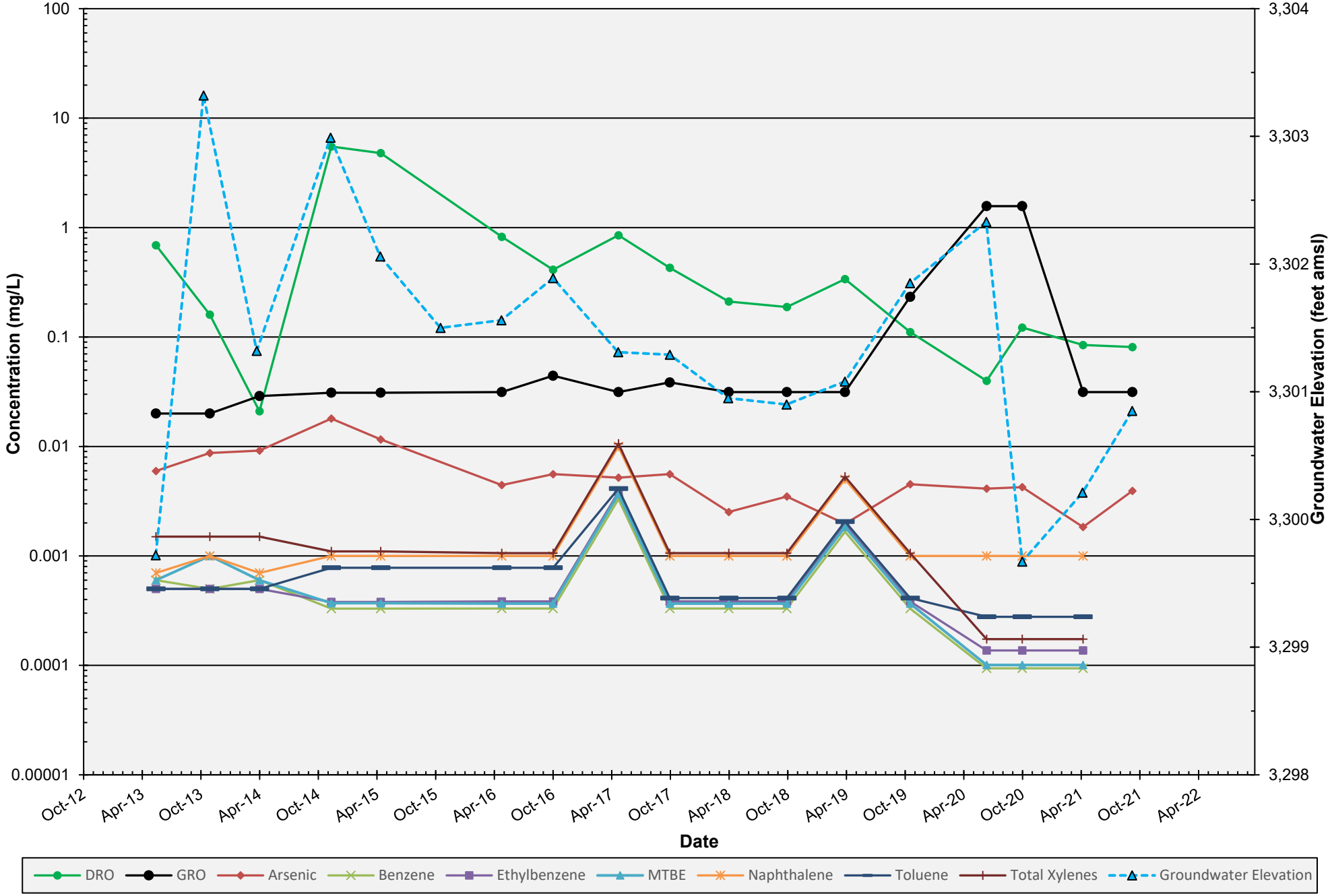


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MW-122: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

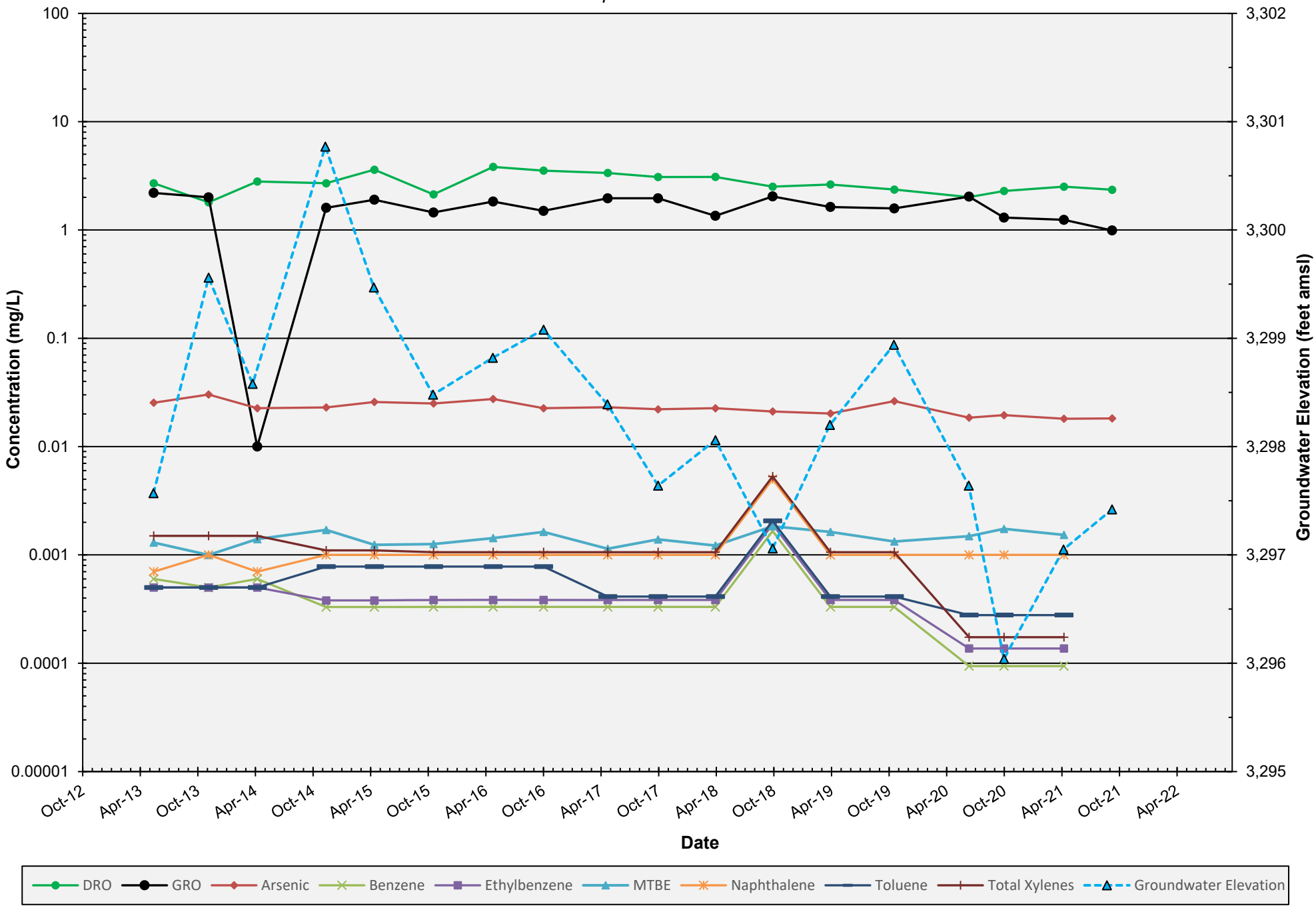


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MW-123: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

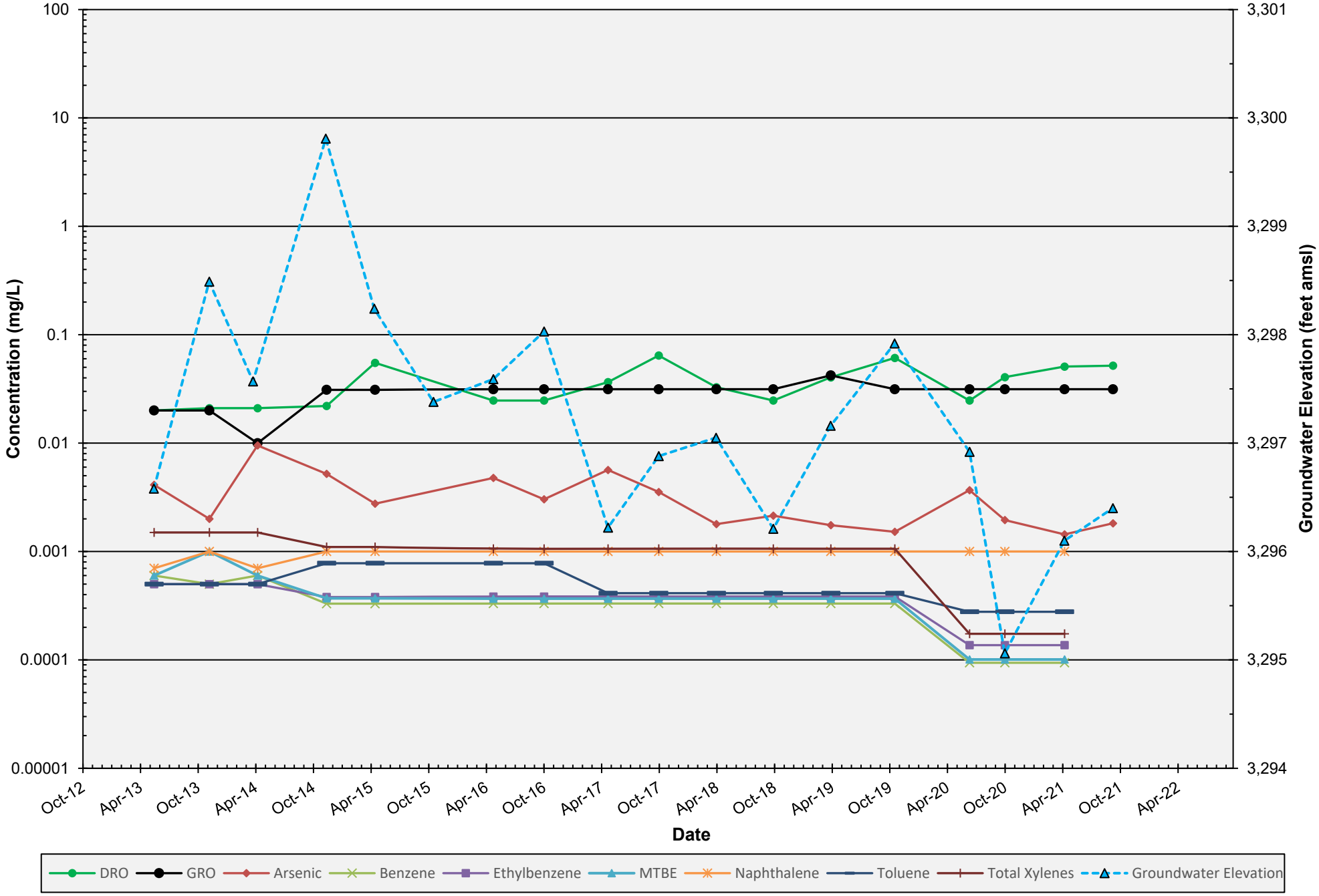


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Received by OCD: 1/9/2025 2:41:44 PM

MW-124: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

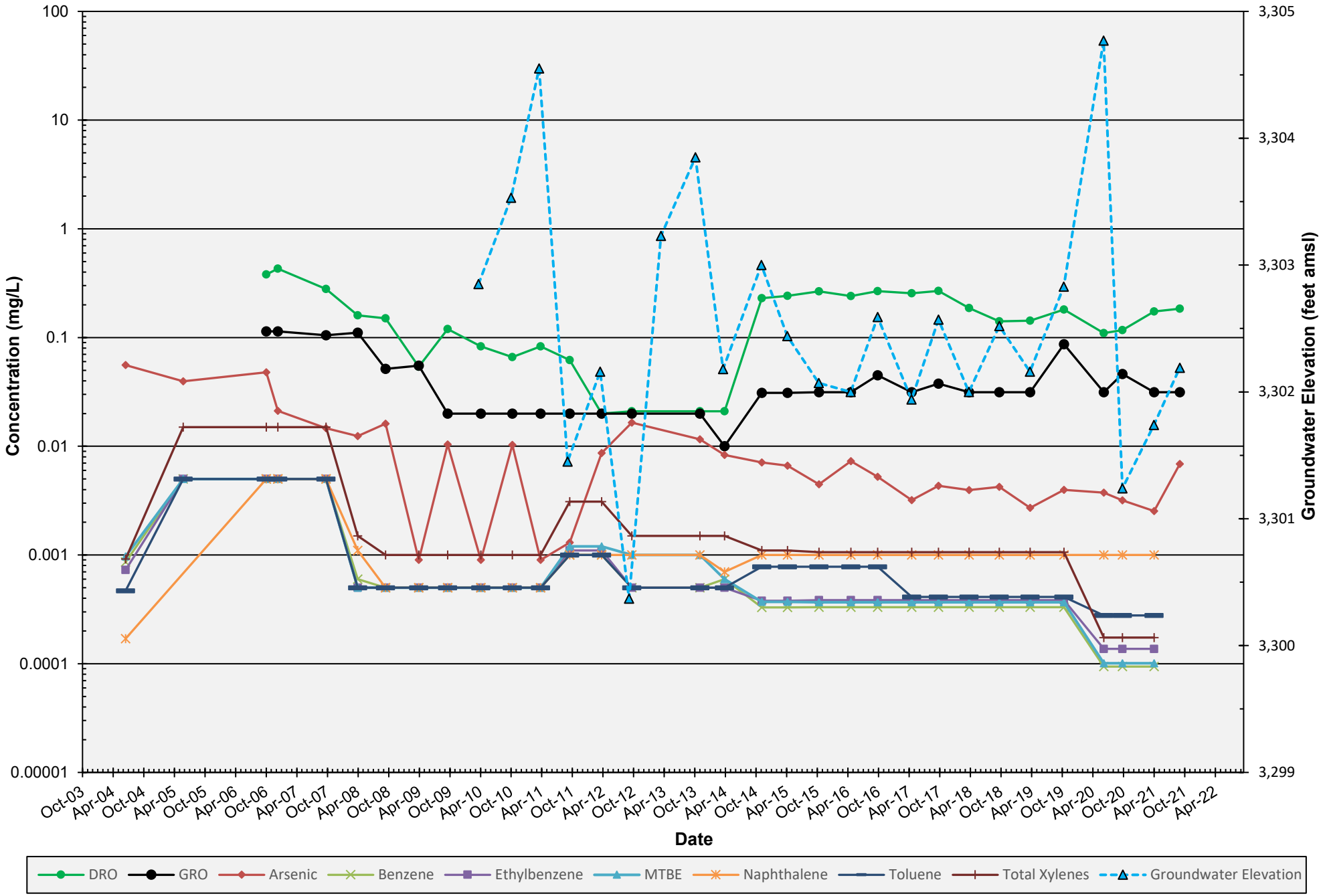
Evaporation Ponds



OCD-1 & OCD-1R: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

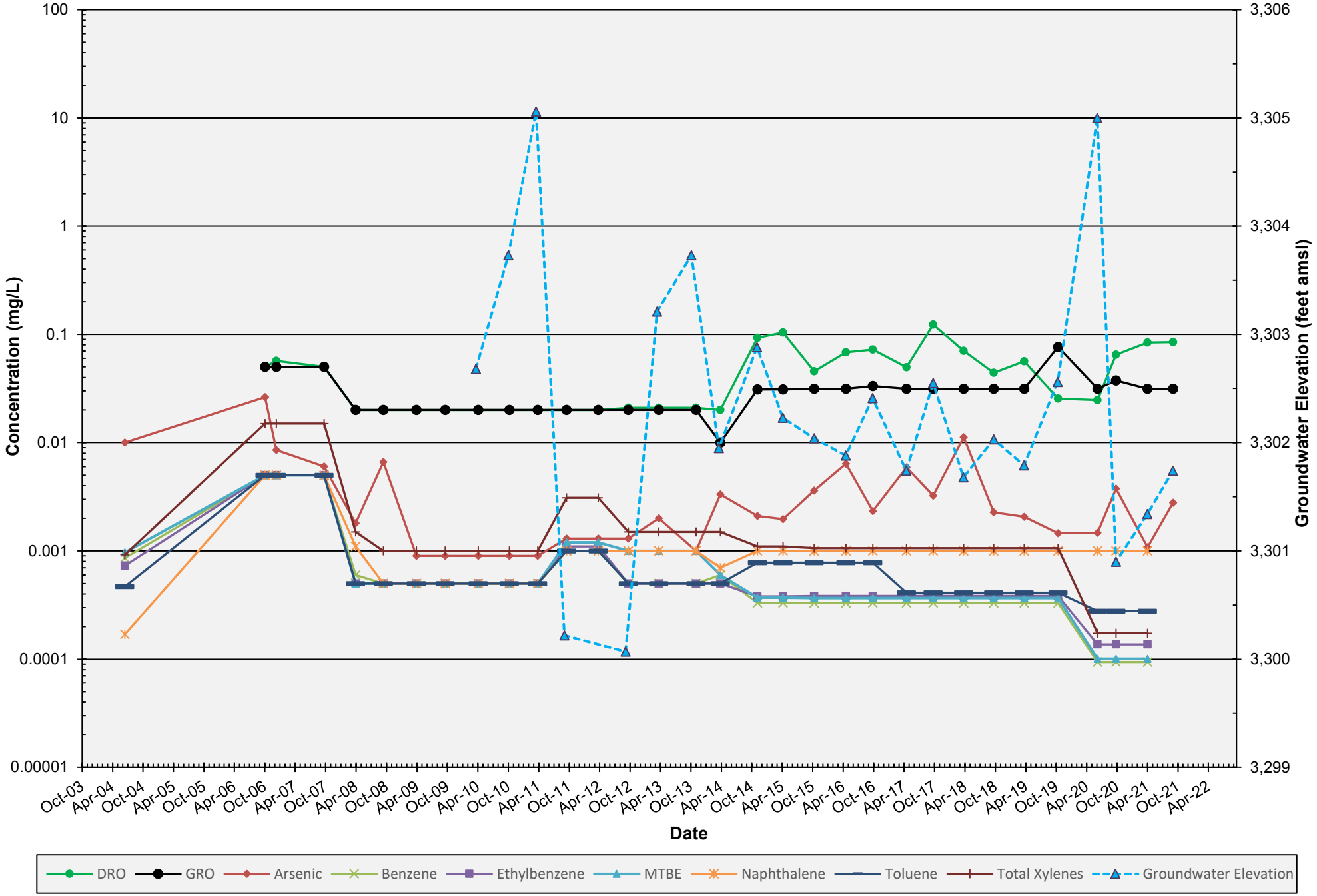
Evaporation Ponds



OCD-2A: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

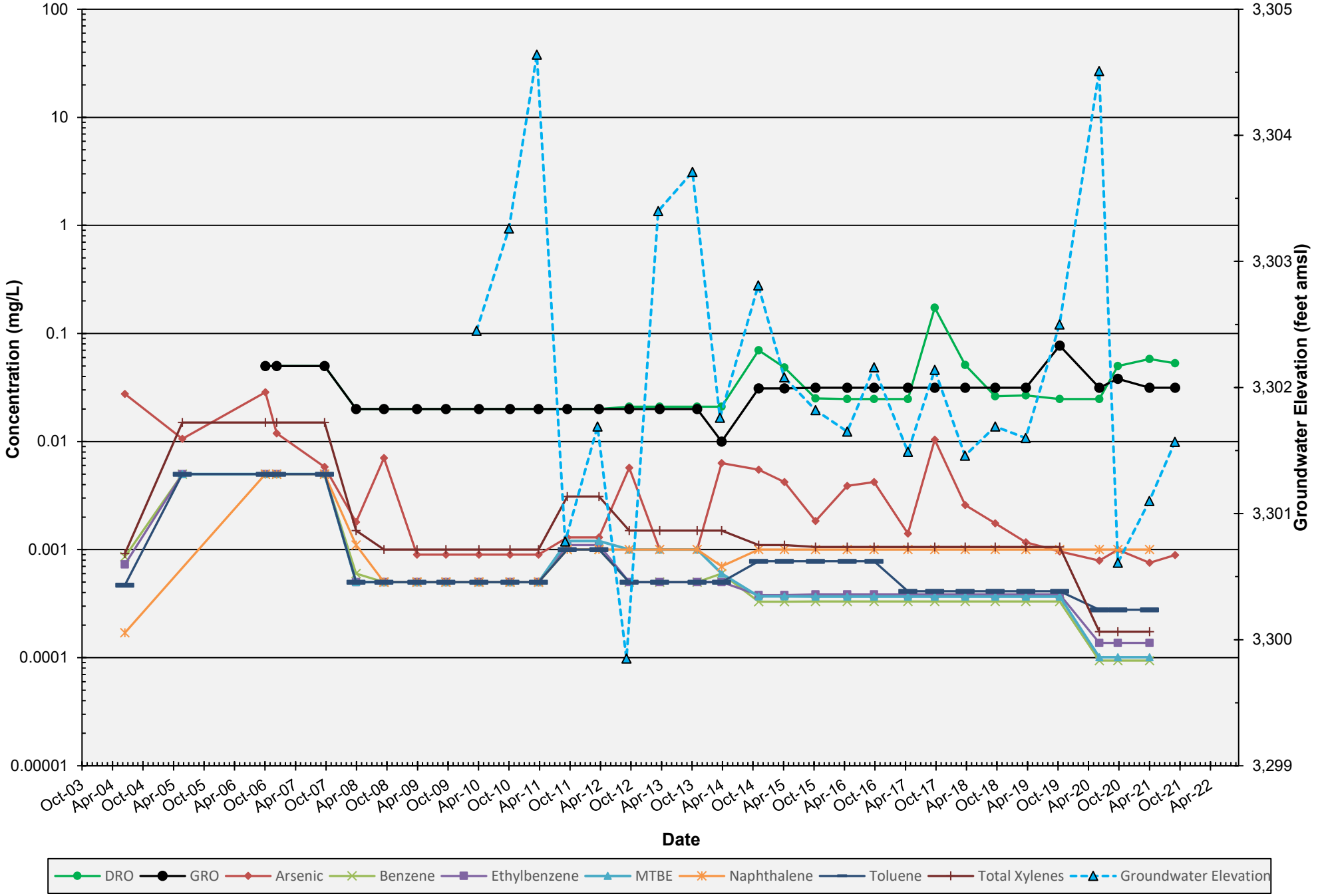
Evaporation Ponds



OCD-3: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

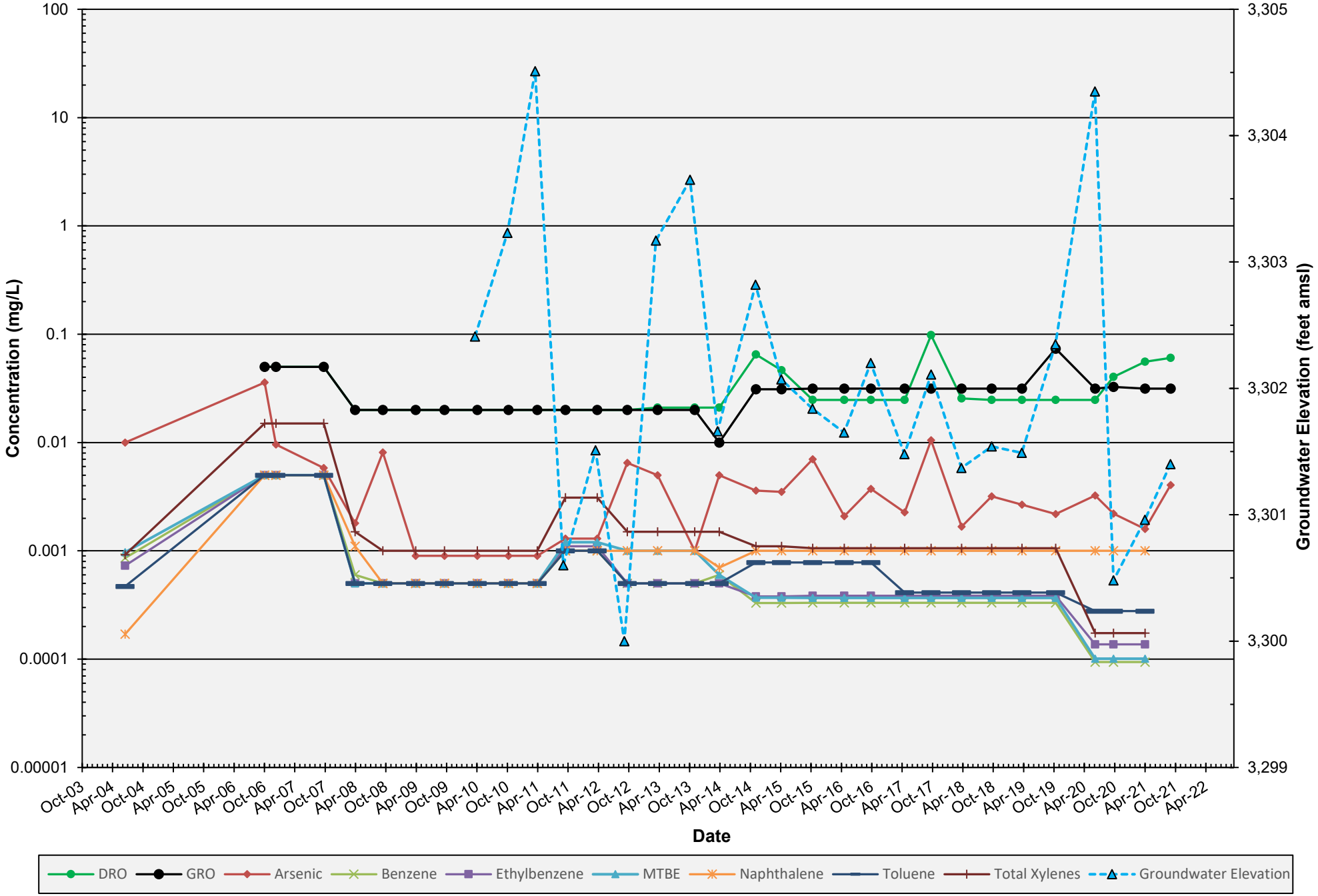
Evaporation Ponds



OCD-4: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

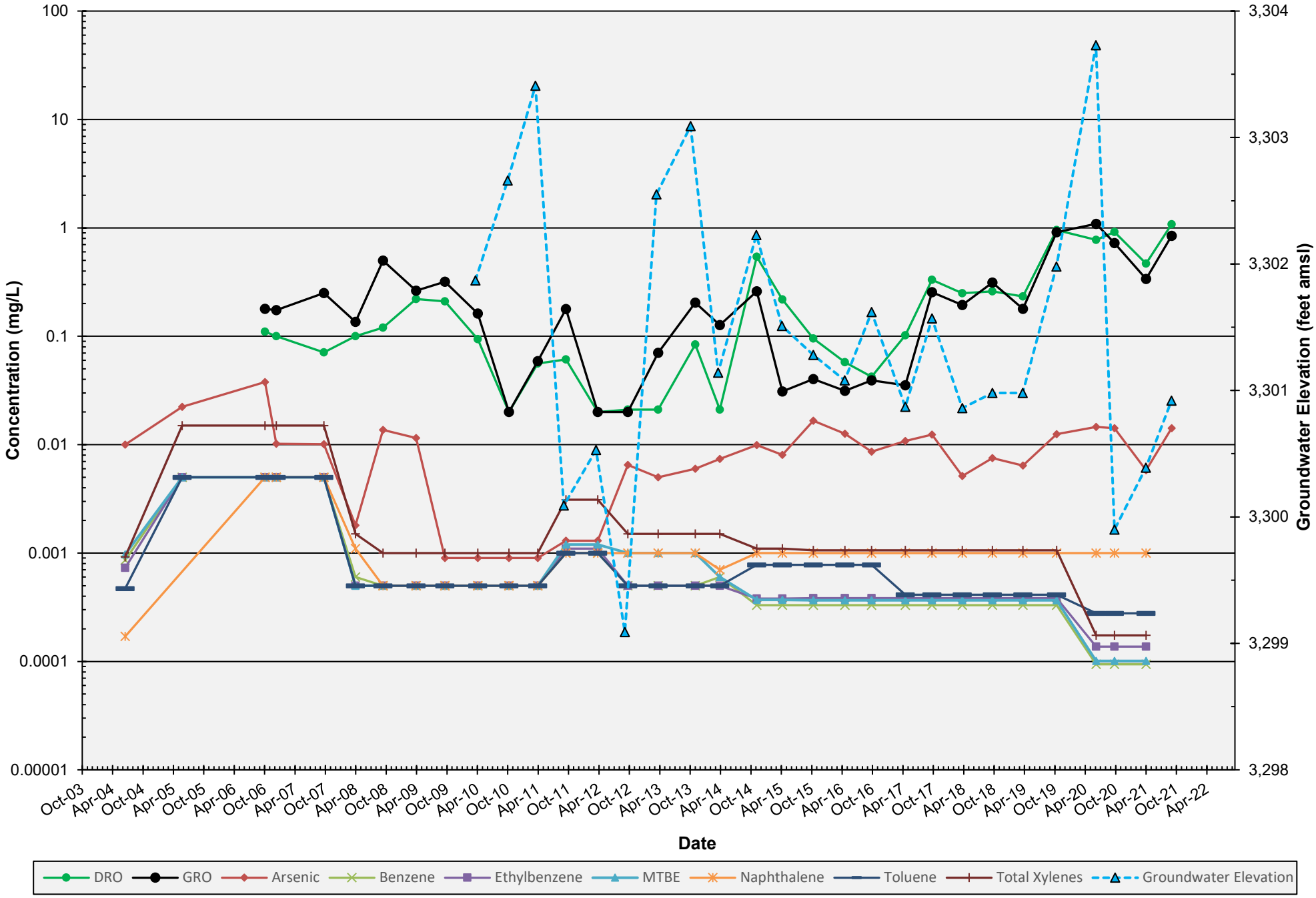
Evaporation Ponds



OCD-5: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

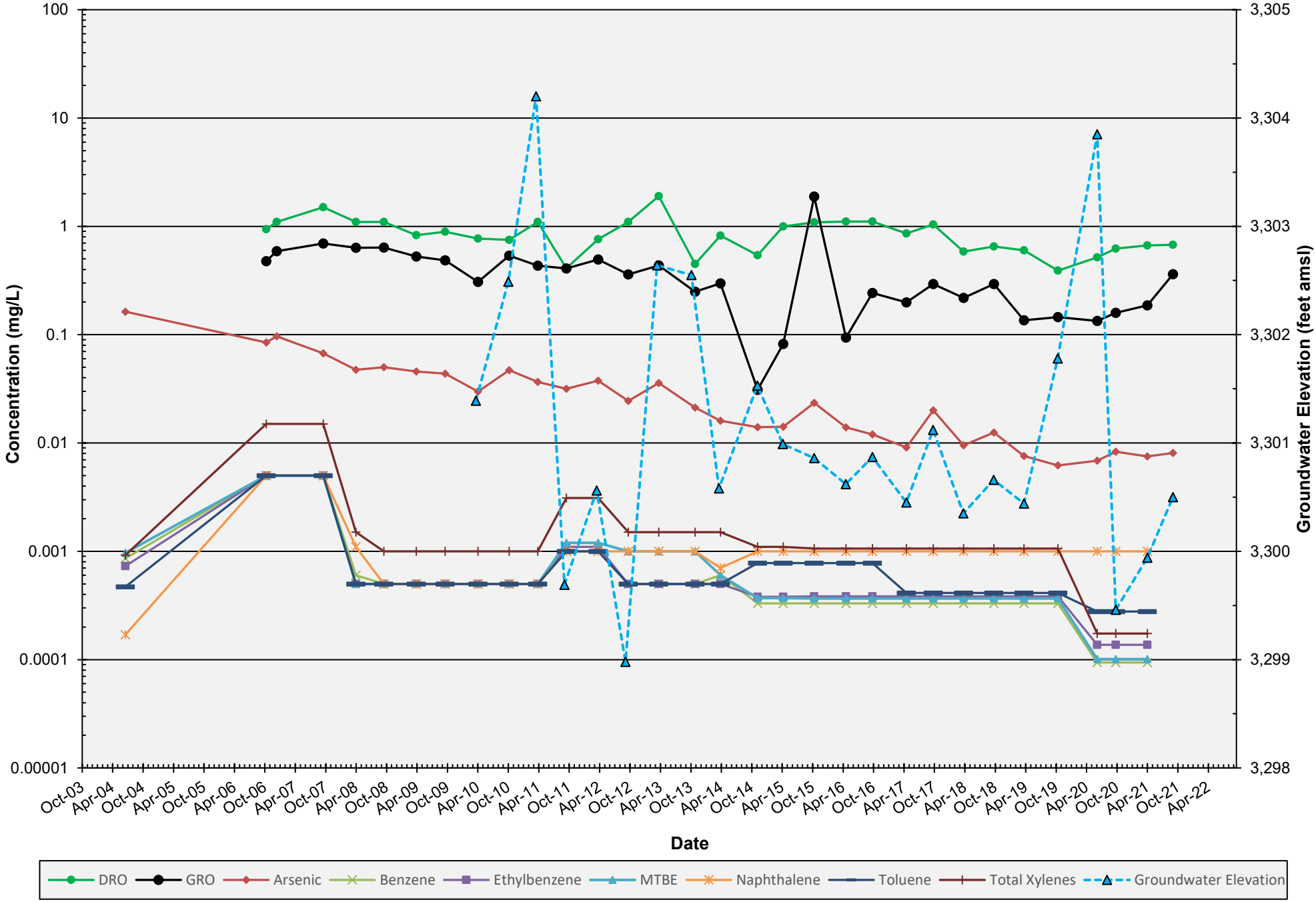
Evaporation Ponds



OCD-6: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

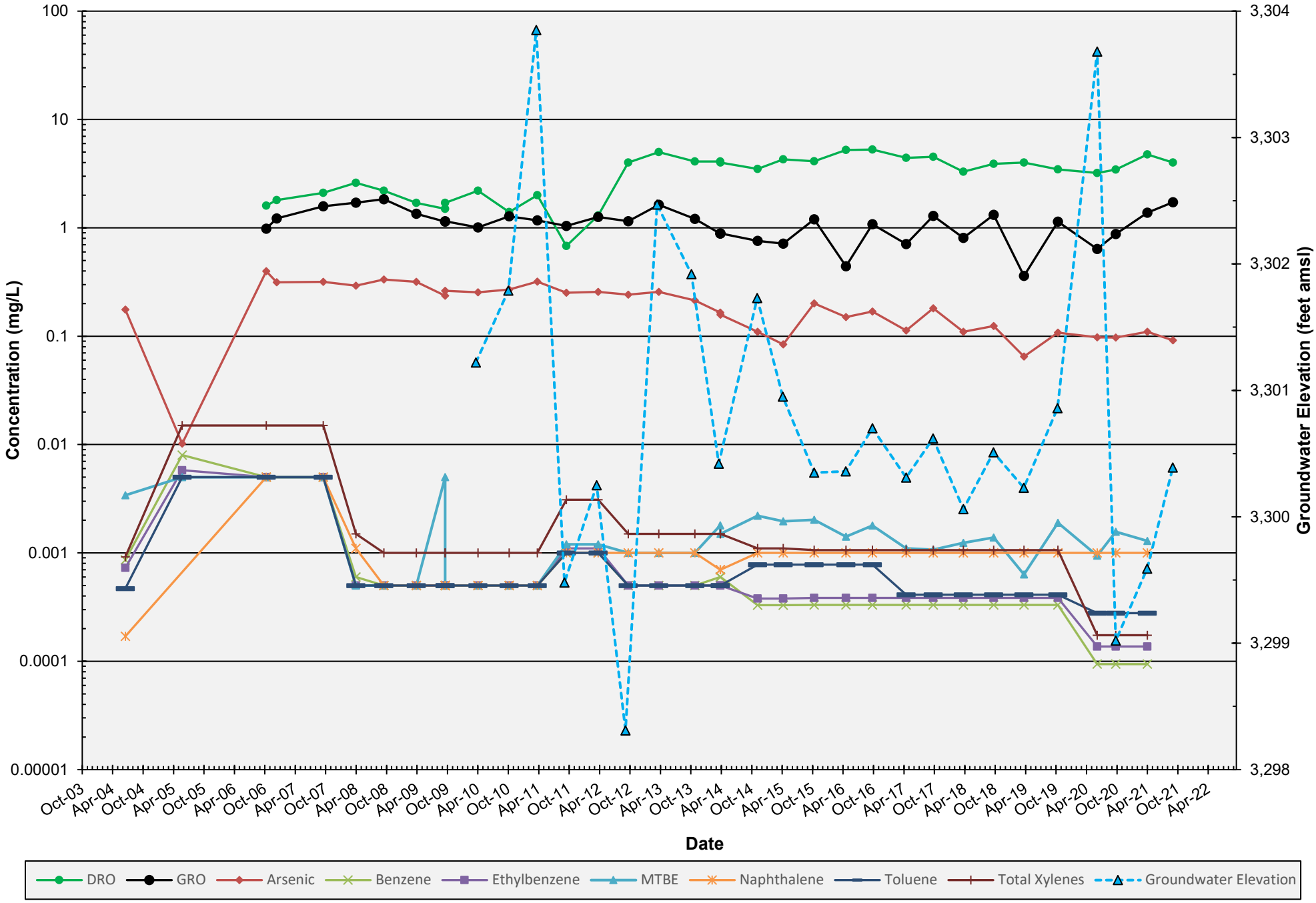
Evaporation Ponds



OCD-7A & OCD-7AR: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

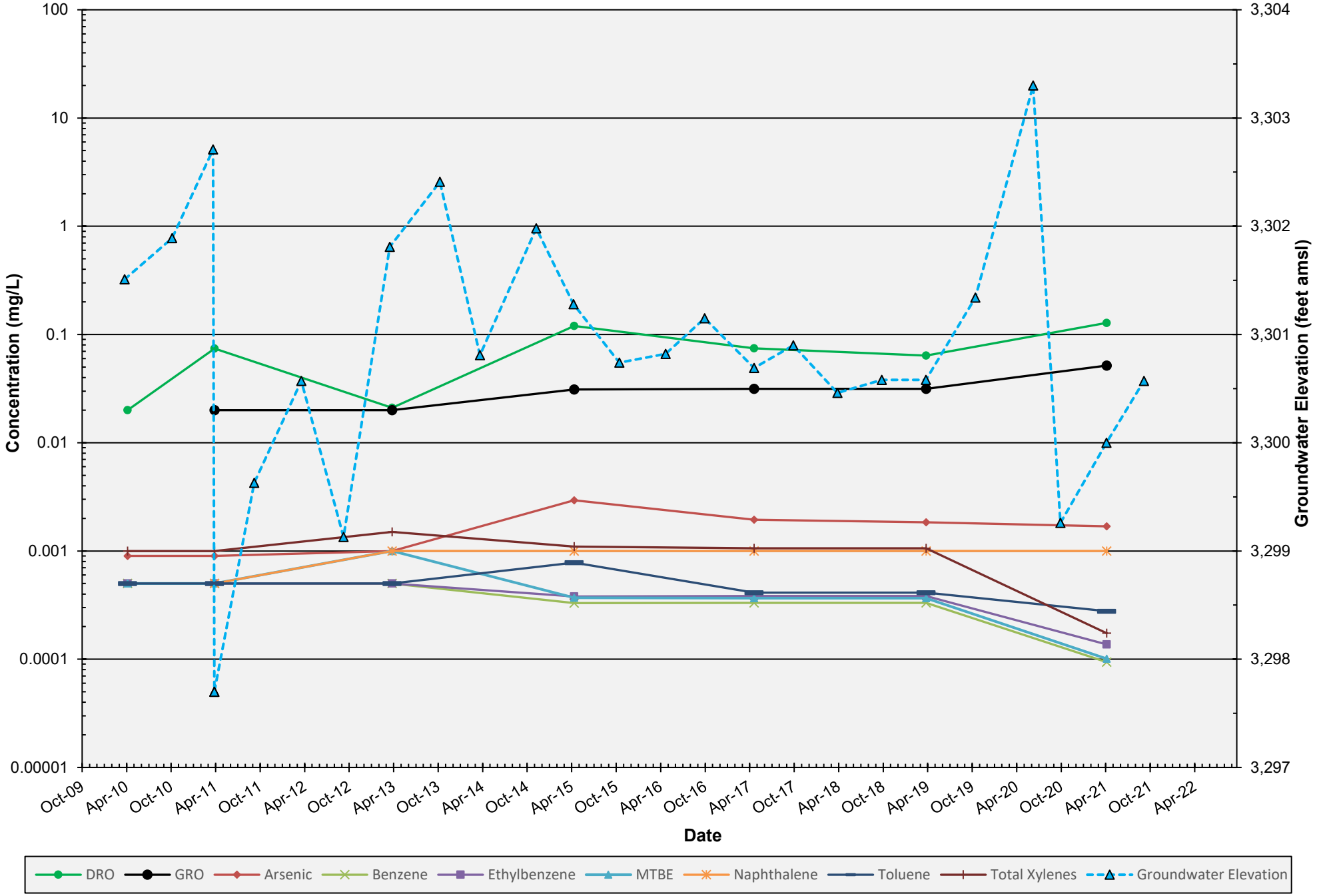
Evaporation Ponds



OCD-7B: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

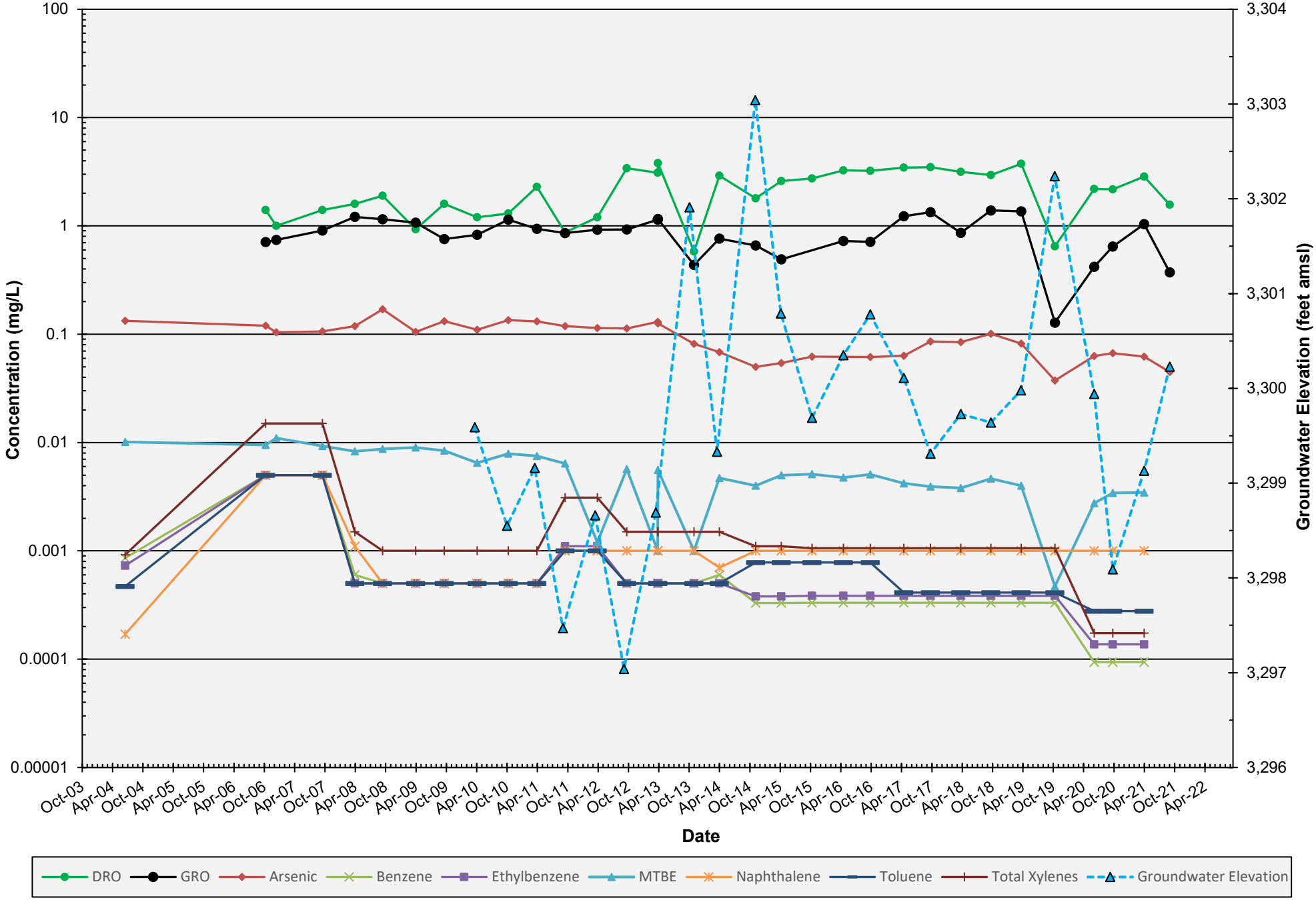
Evaporation Ponds



OCD-8A: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

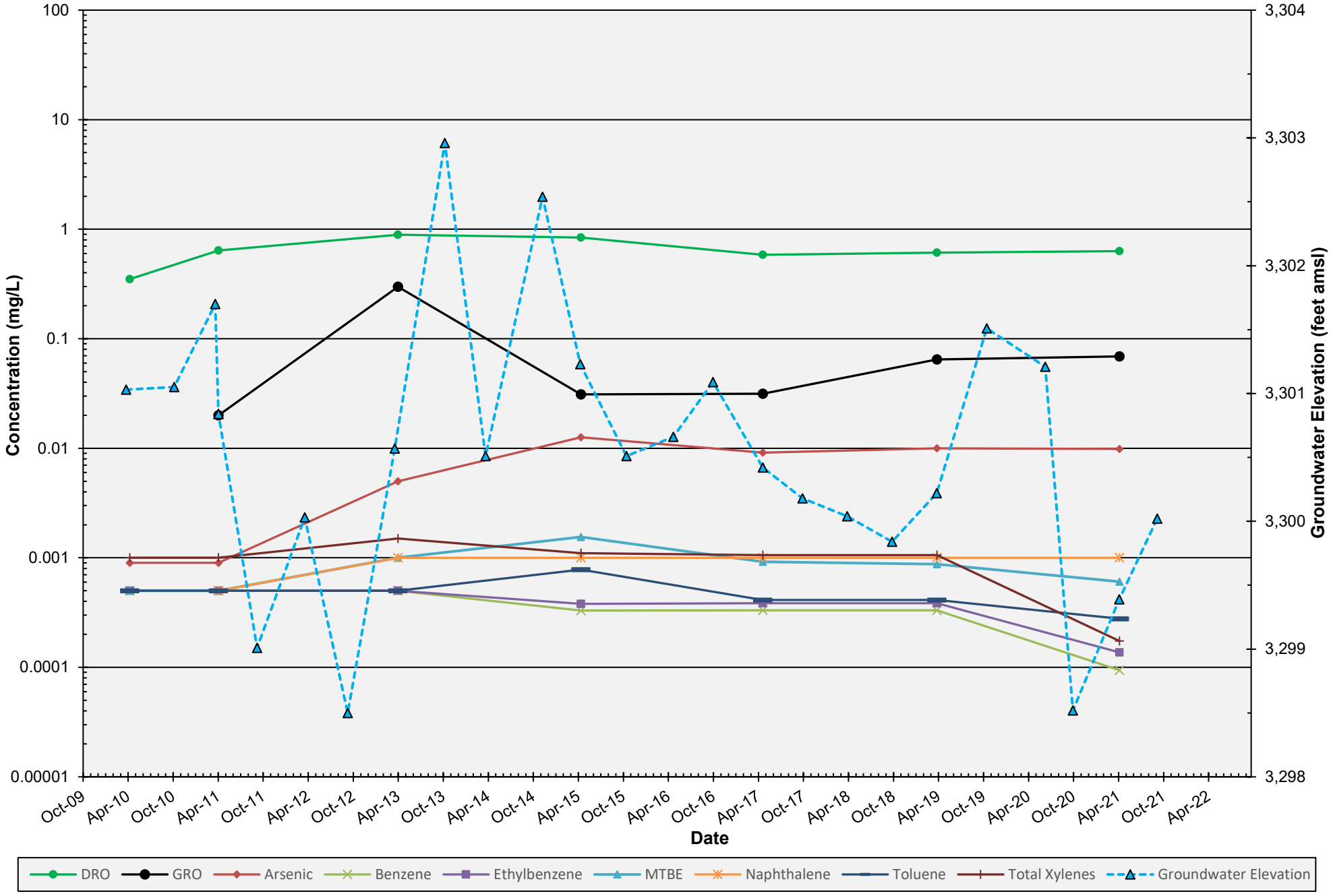
Evaporation Ponds



OCD-8B: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

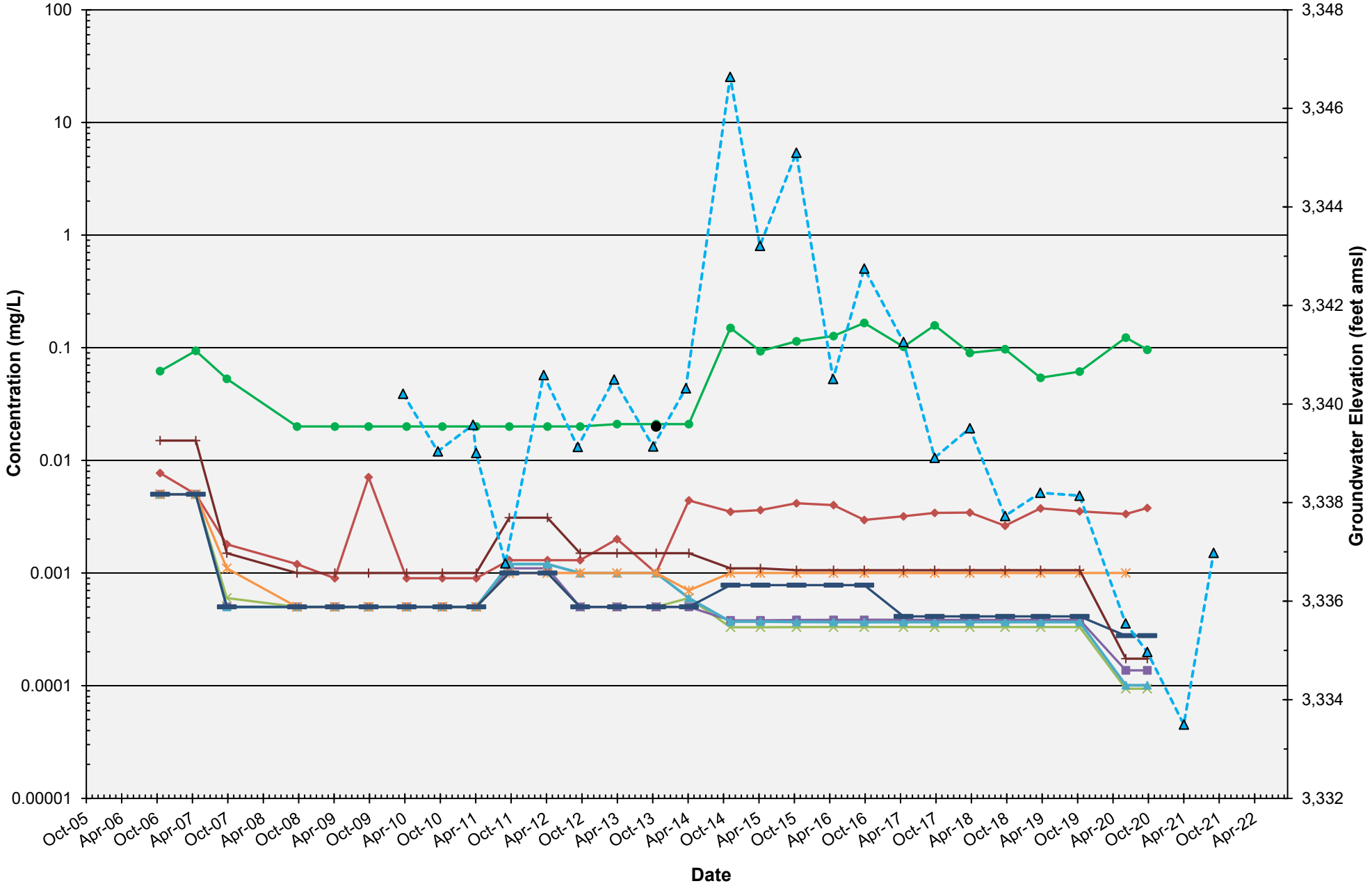


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KWB-1A: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

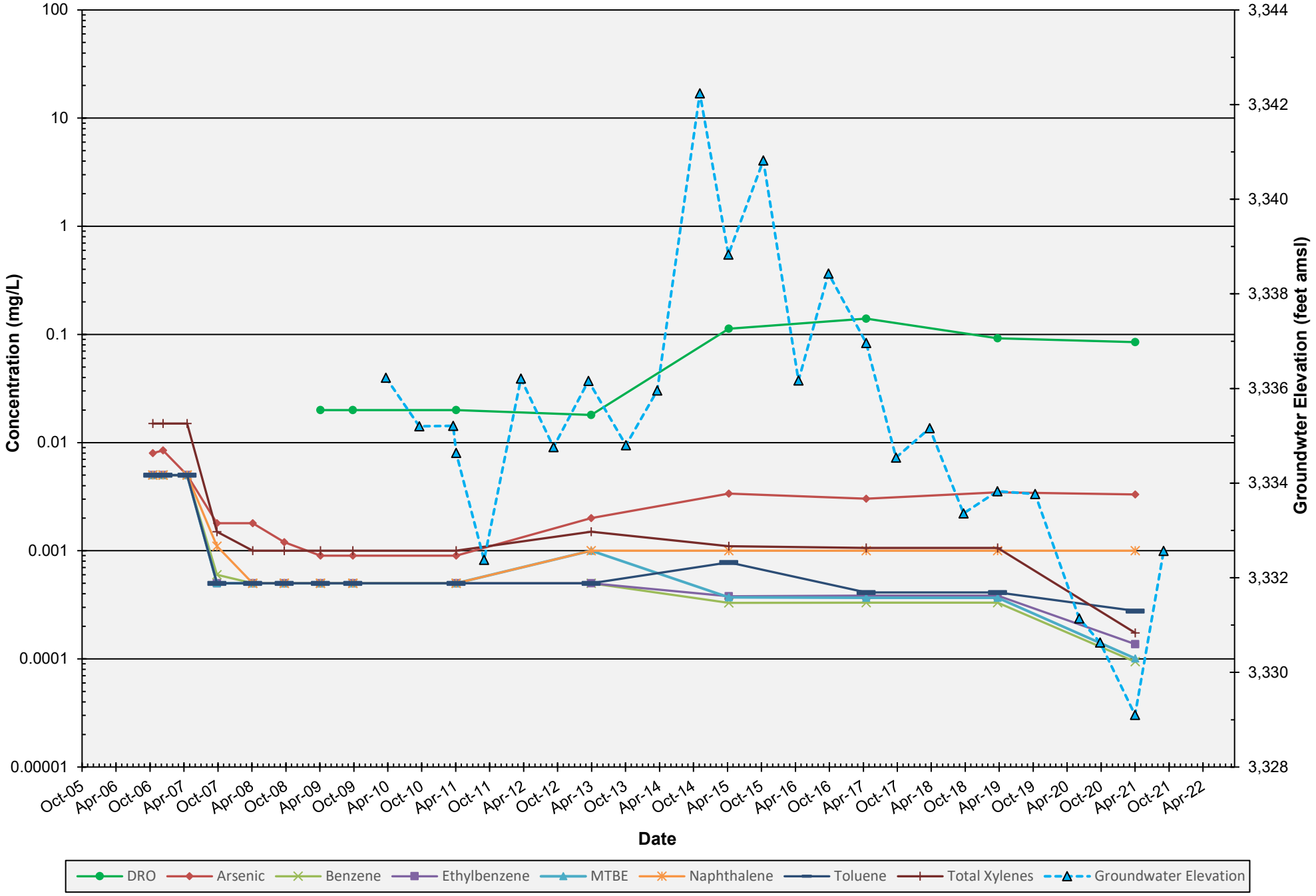
Field East of Refinery



KWB-1C: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

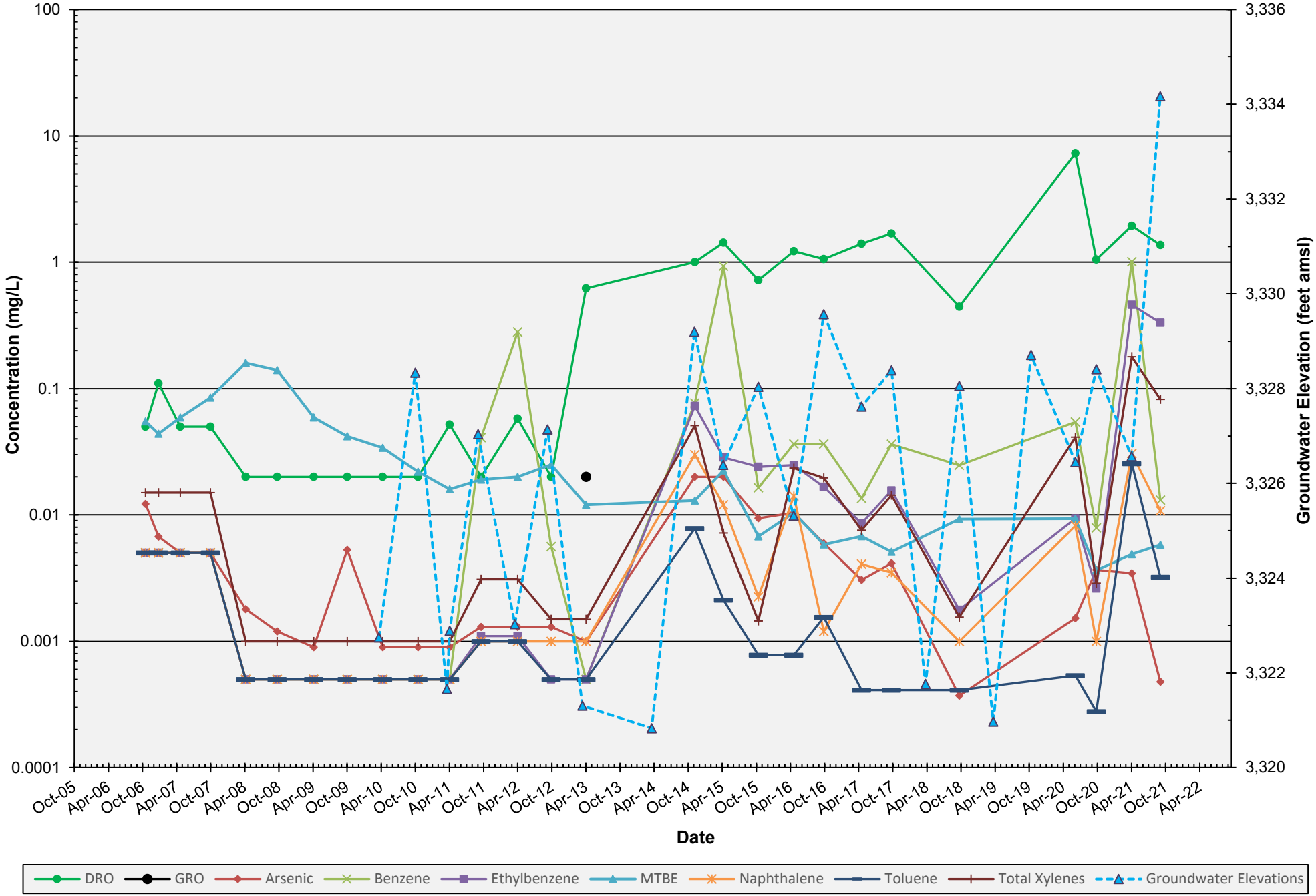
Field East of Refinery



KWB-7: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

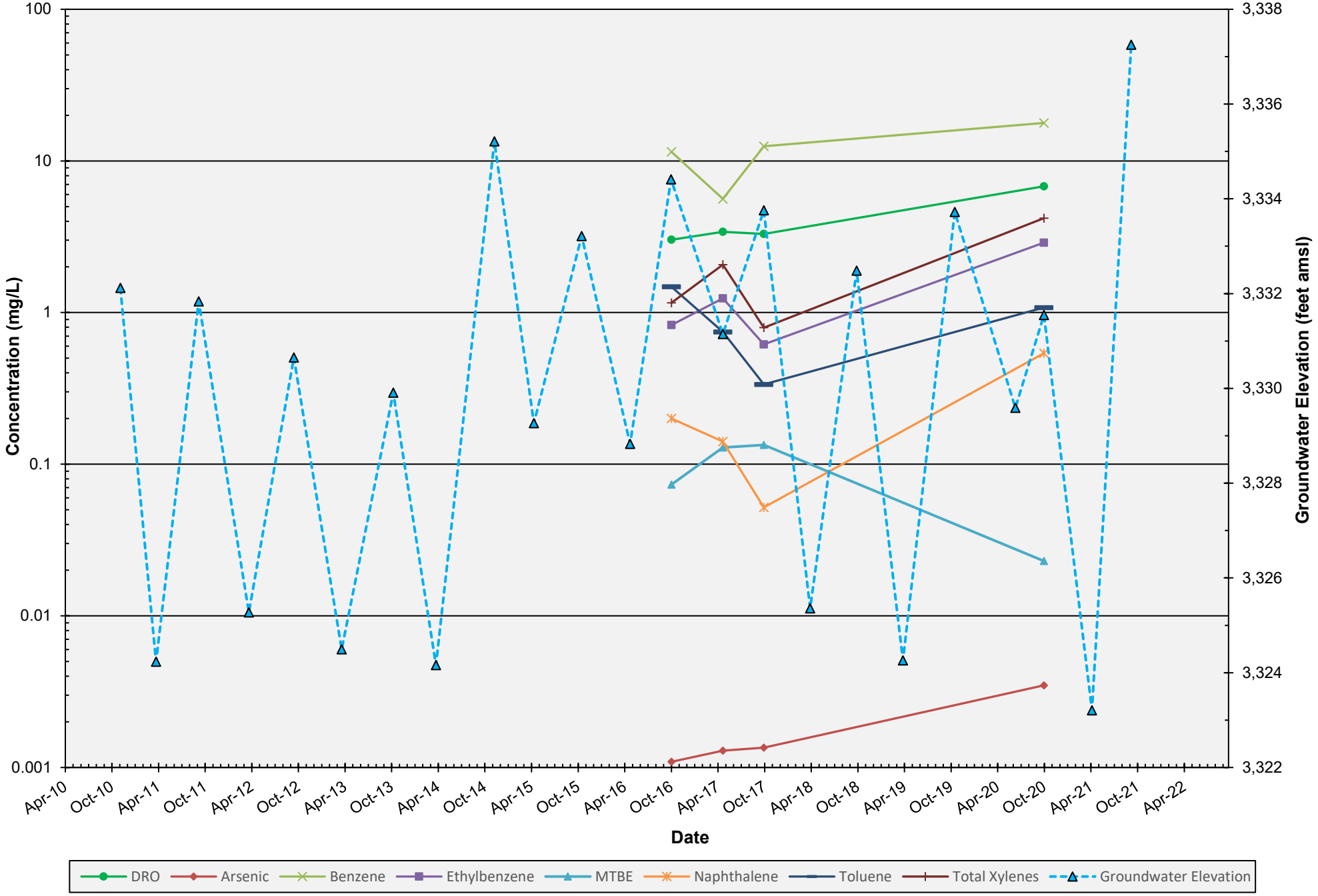
Field East of Refinery



KWB-8: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

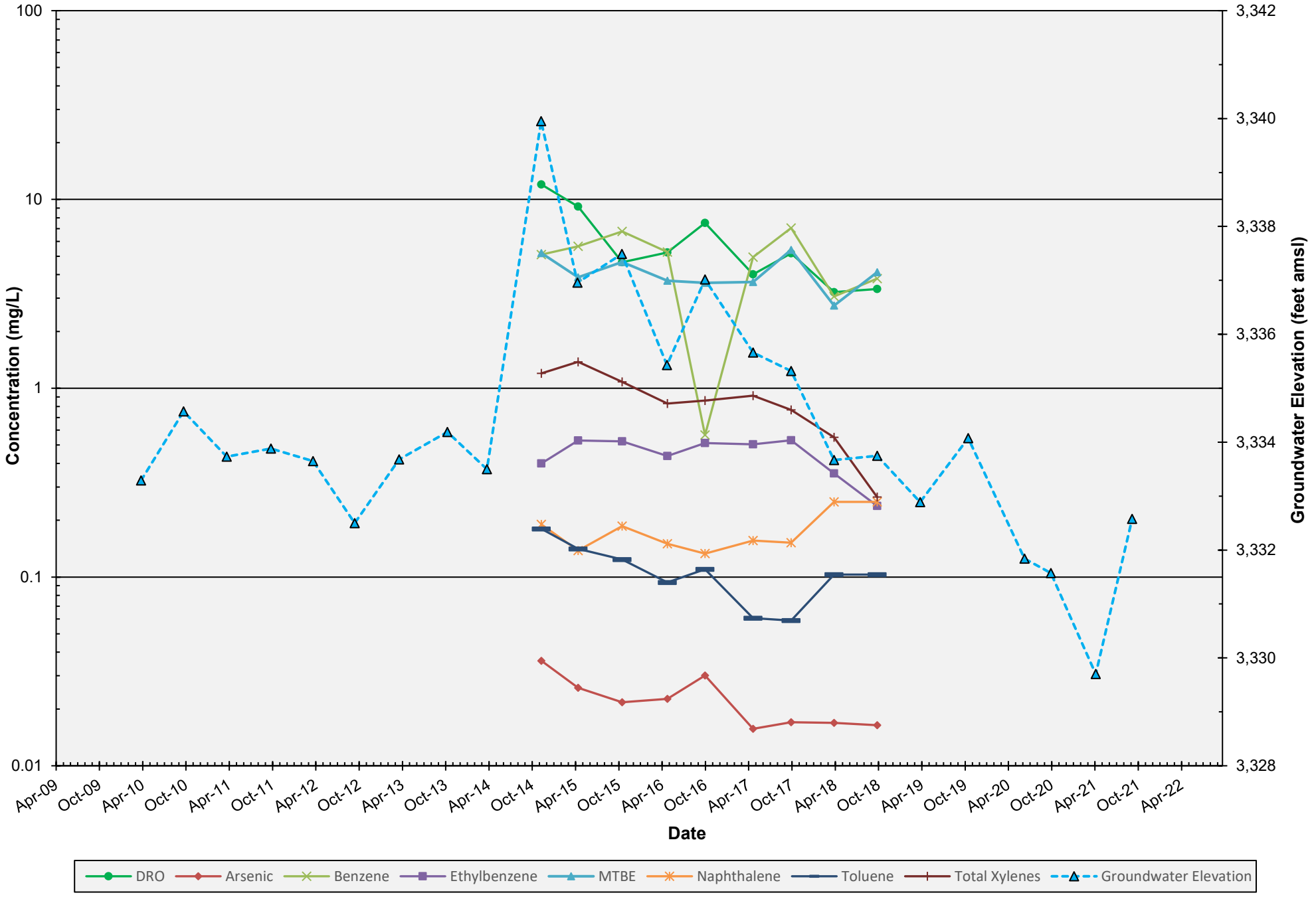
Field East of Refinery



KWB-10R: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

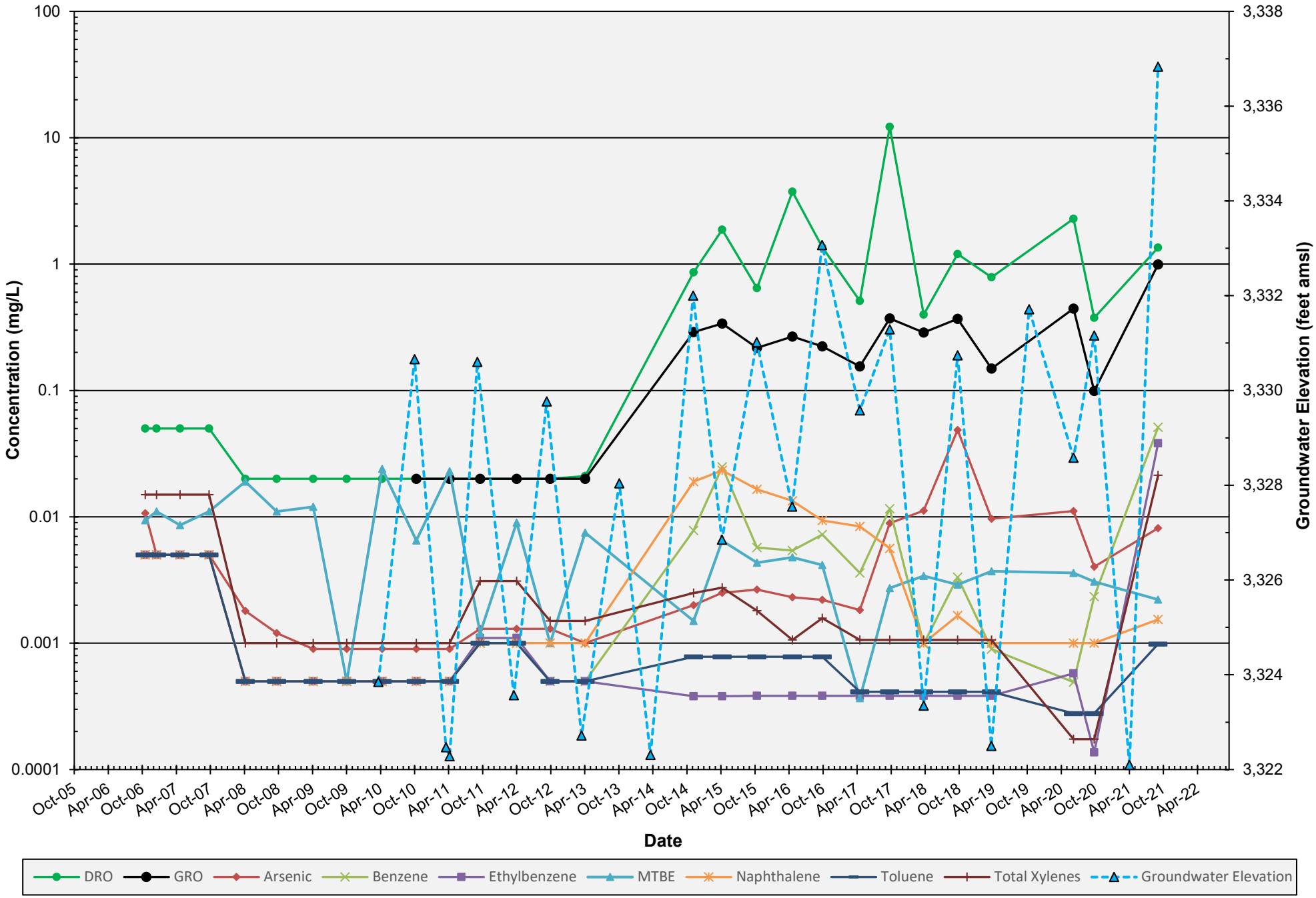
Field East of Refinery



KWB-11A: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

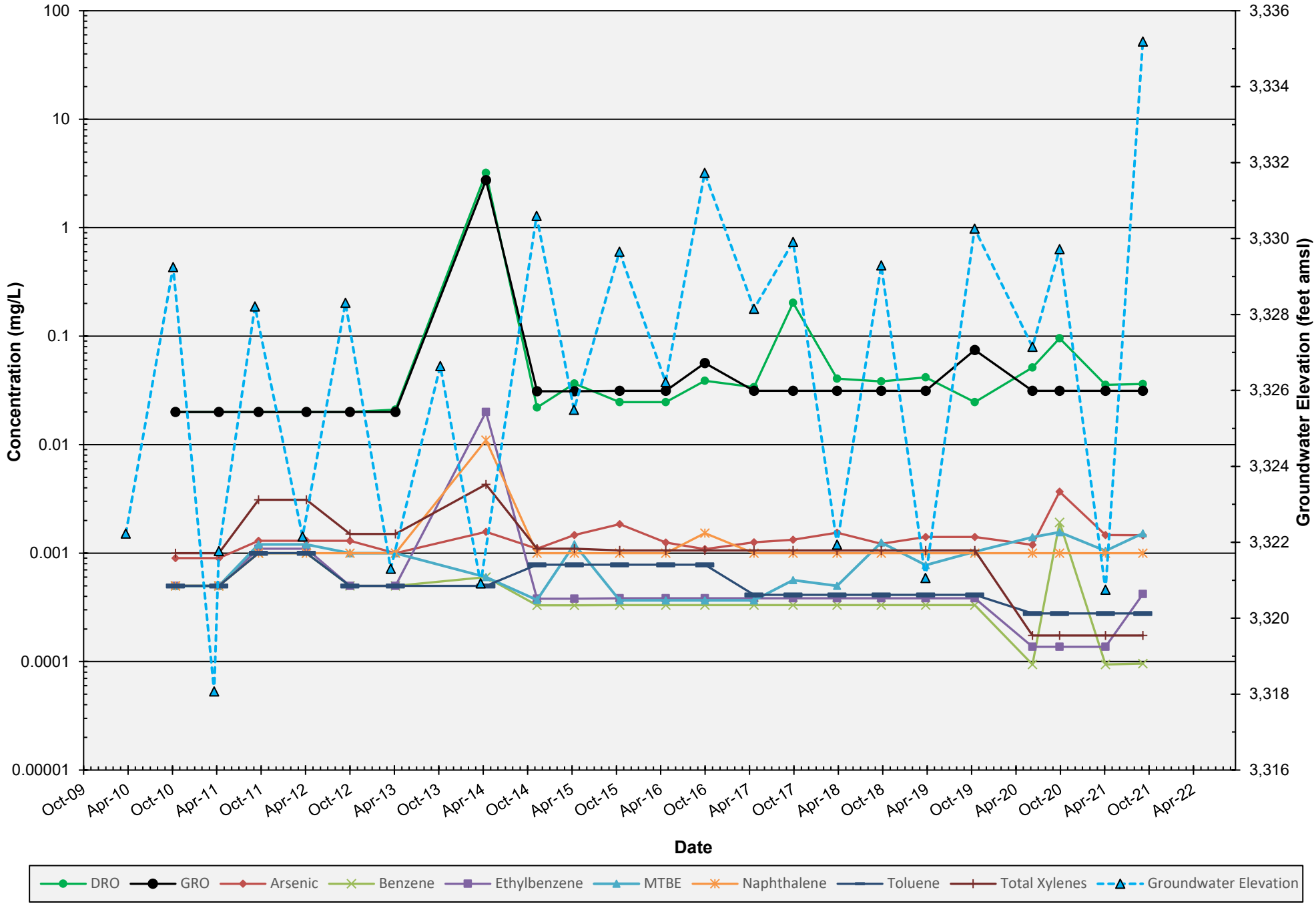
Field East of Refinery



KWB-11B: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

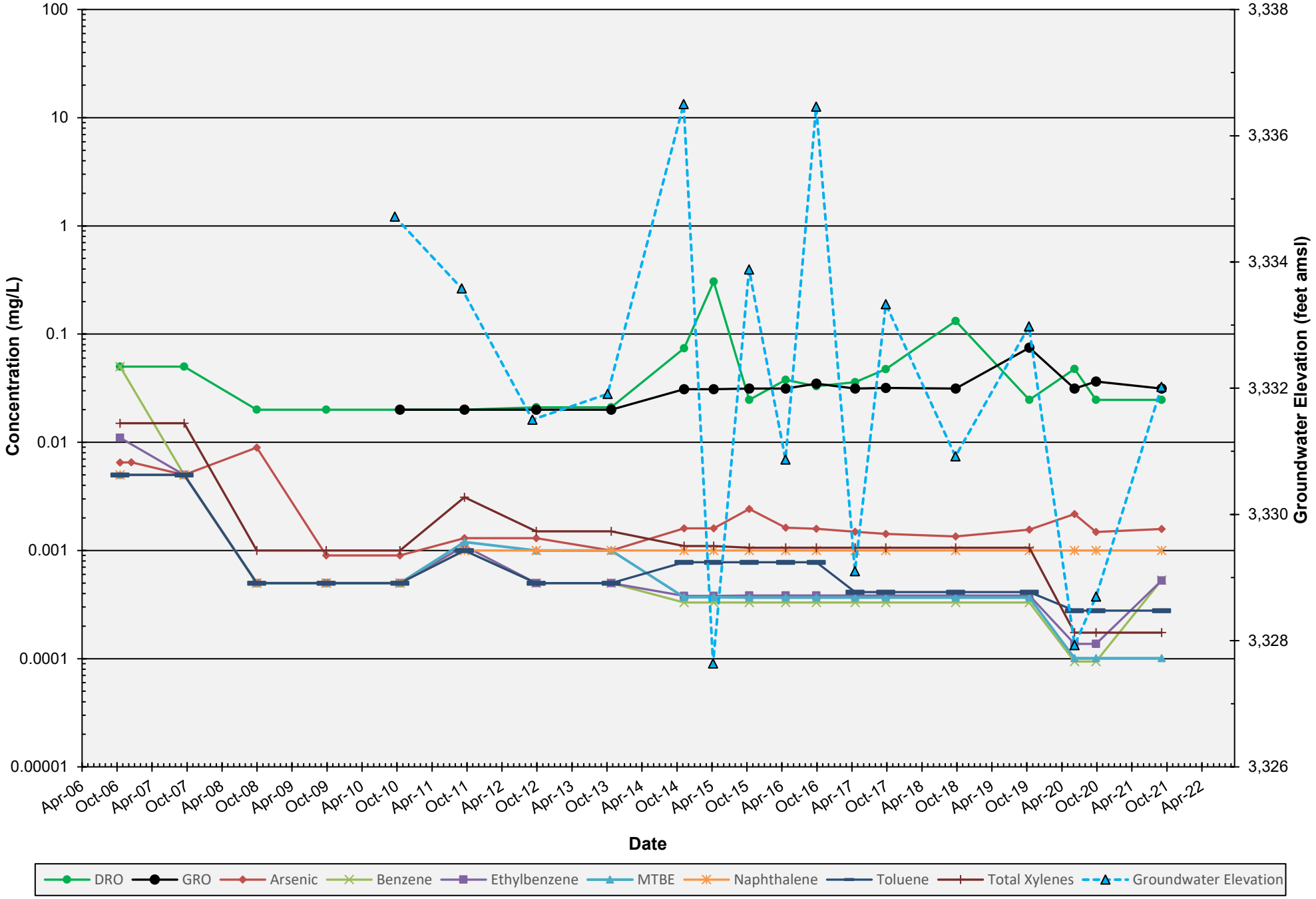
Field East of Refinery



KWB-12A: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

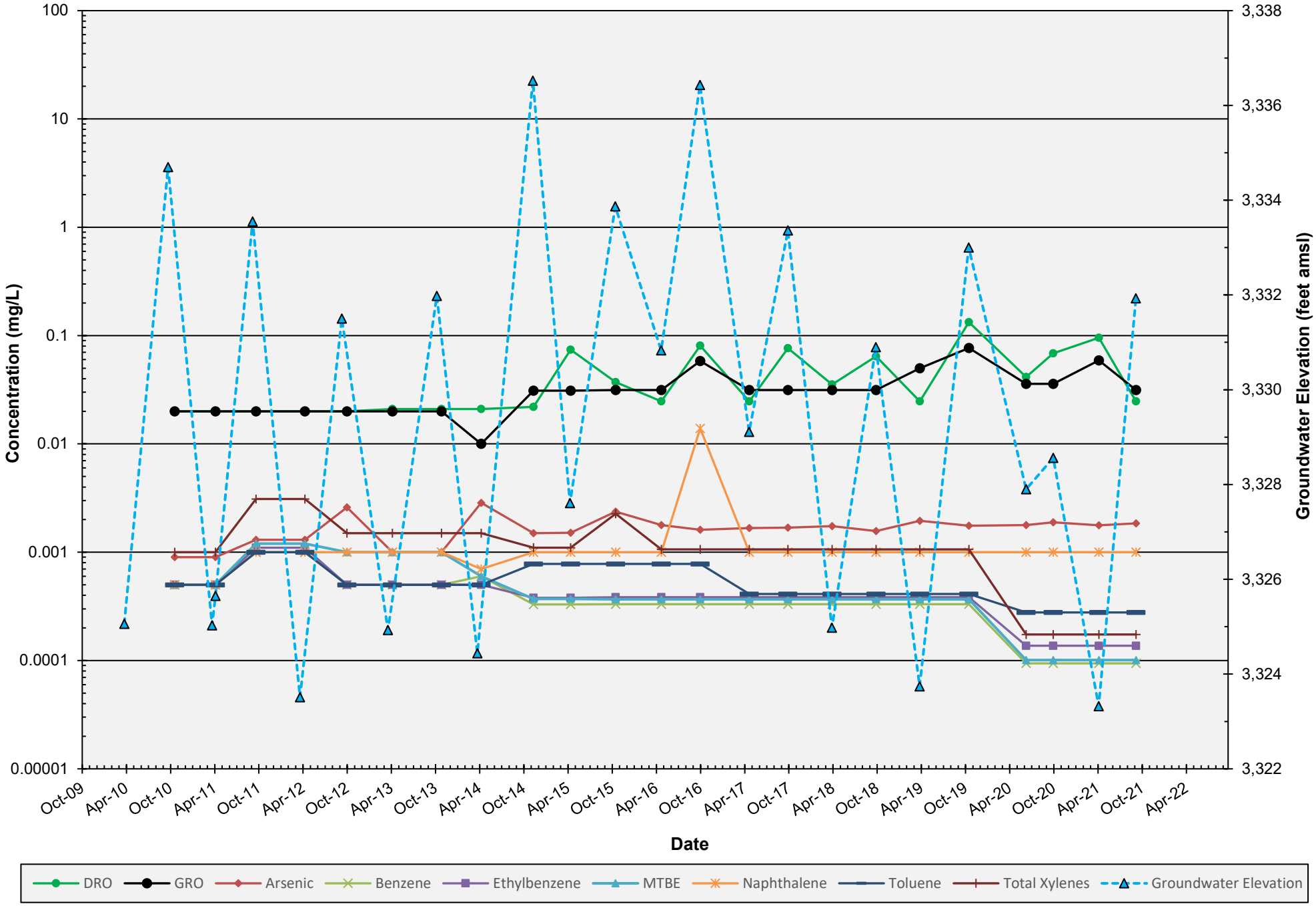
Field East of Refinery



KWB-12B: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

Field East of Refinery

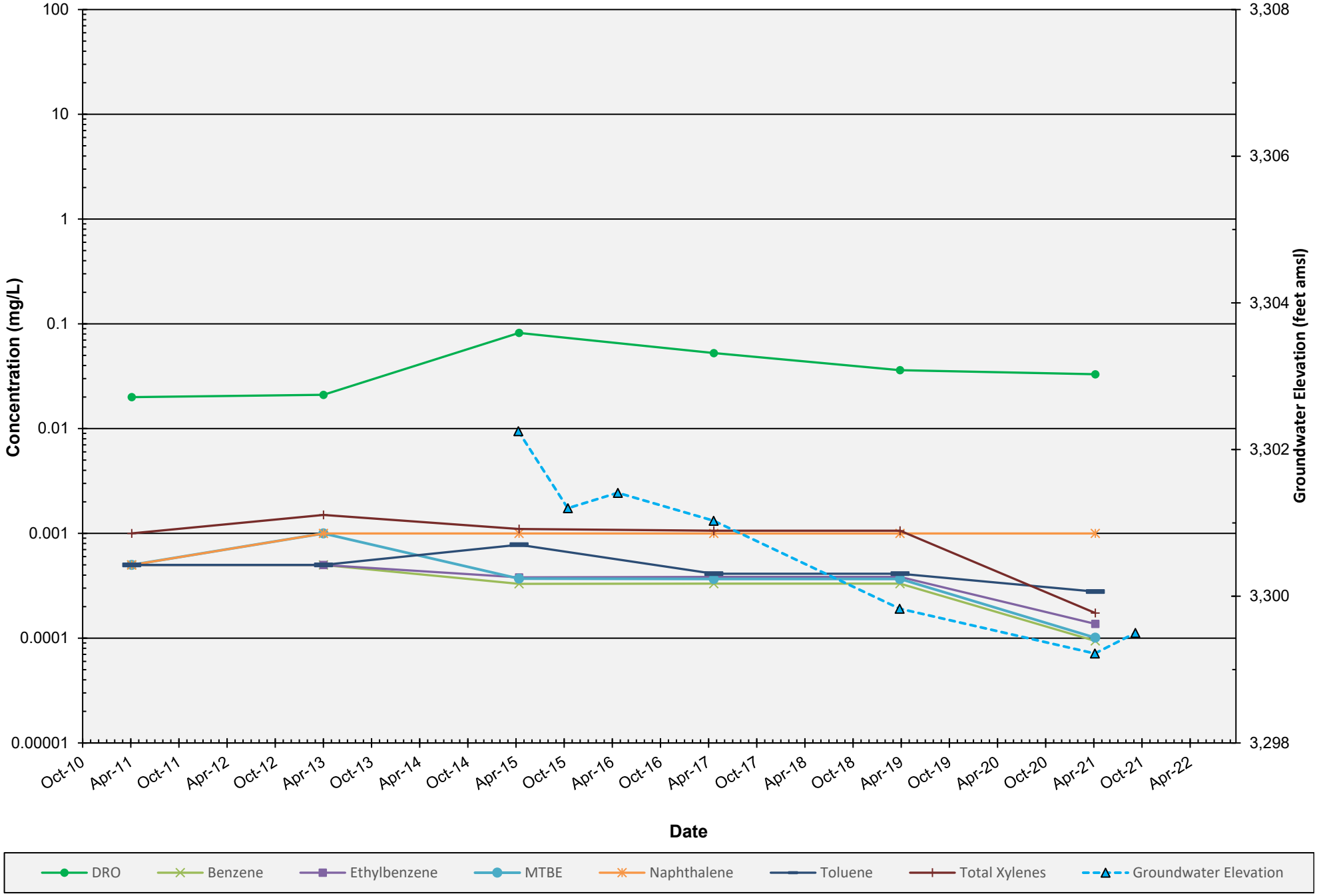


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KWB-P4: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

Field East of Refinery

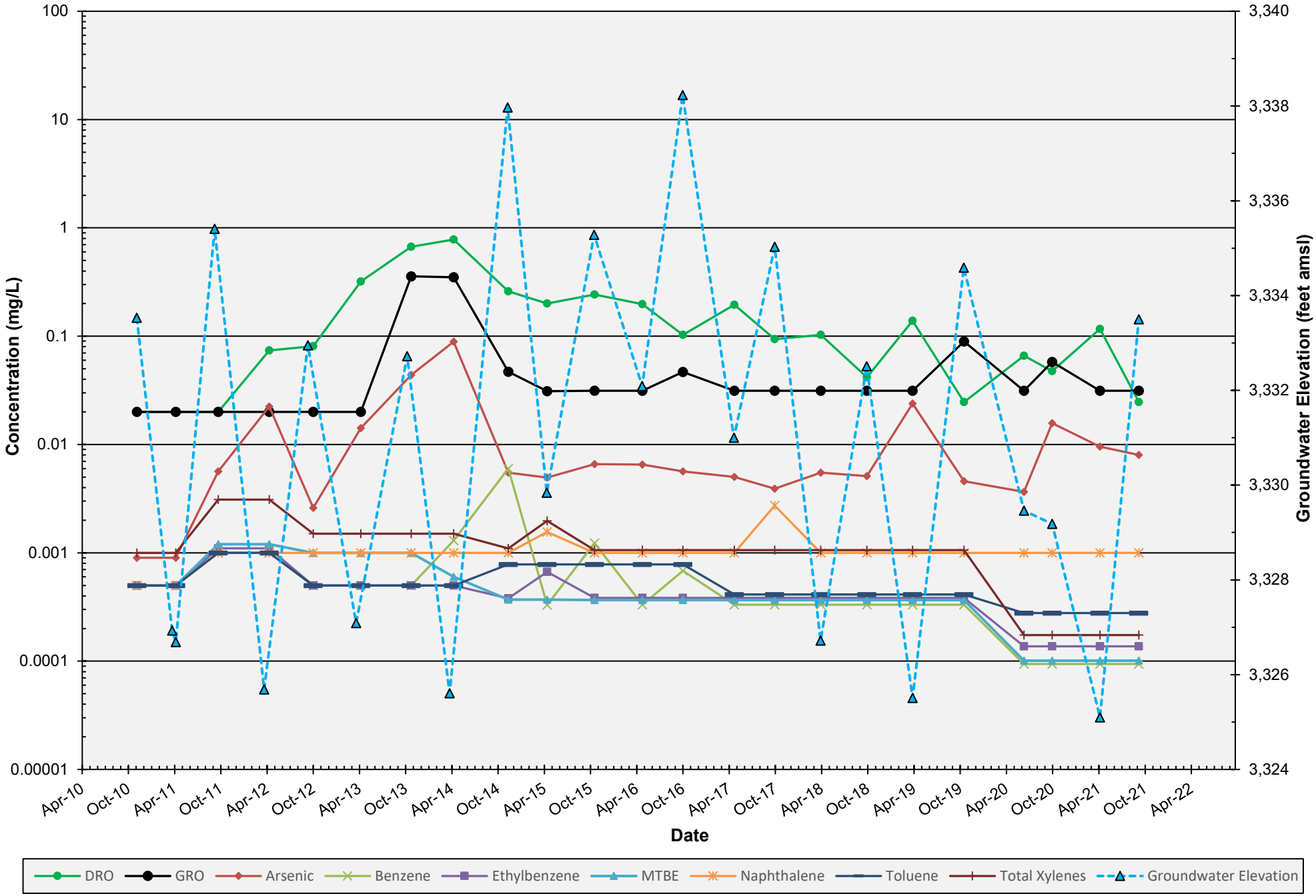


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MW-57: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

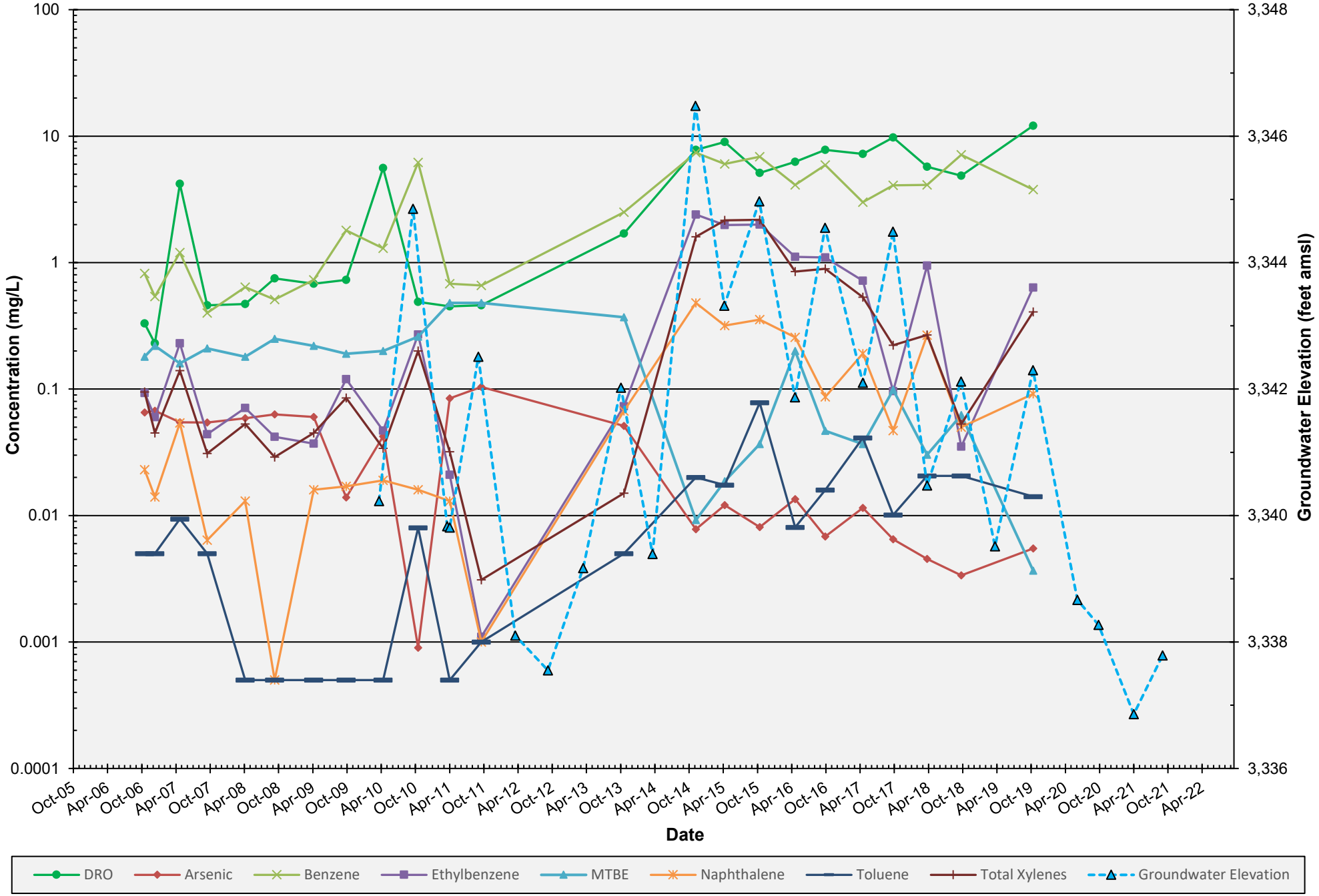
Field East of Refinery



MW-58: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

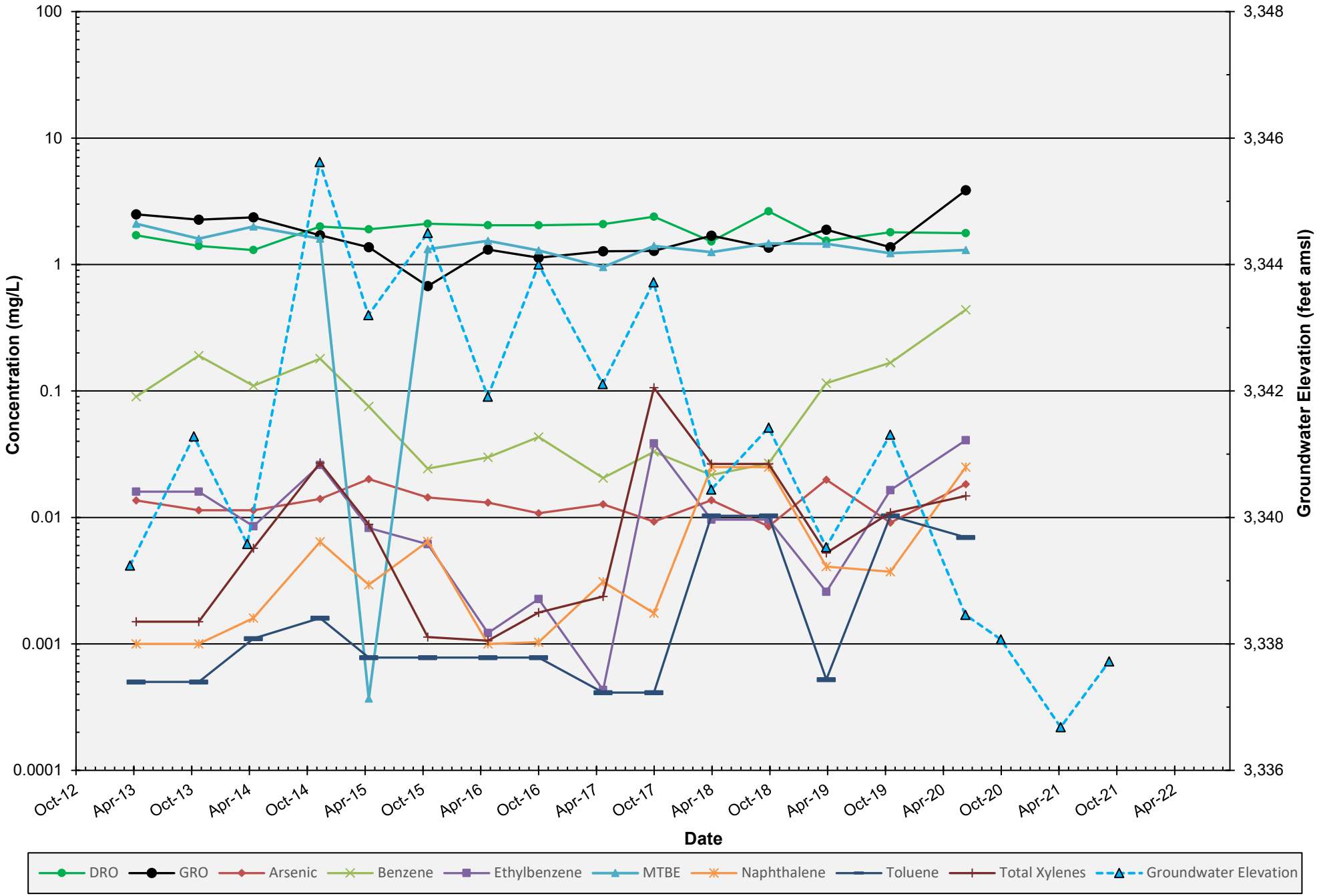
Field East of Refinery



MW-111: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

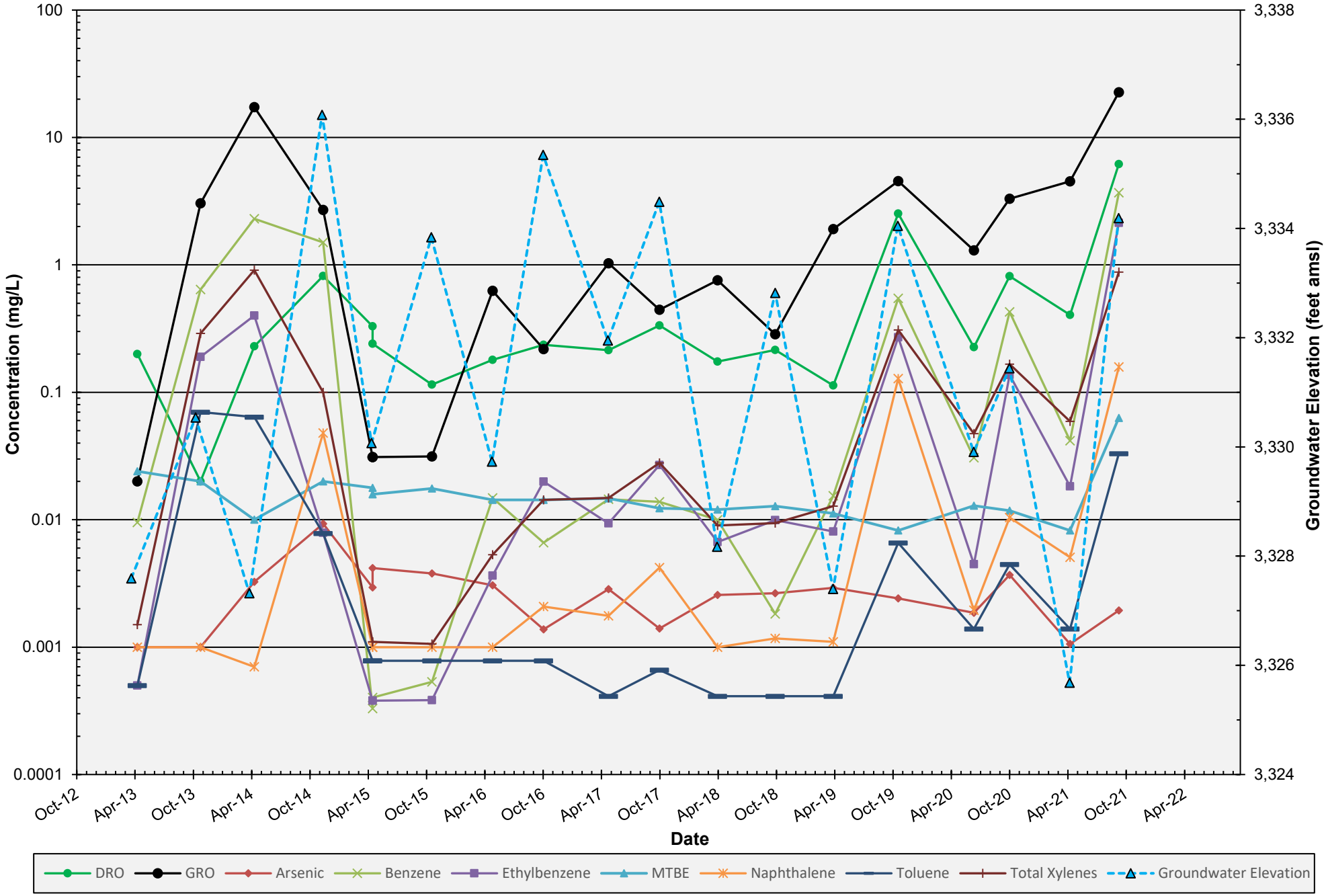
Field East of Refinery



MW-113: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

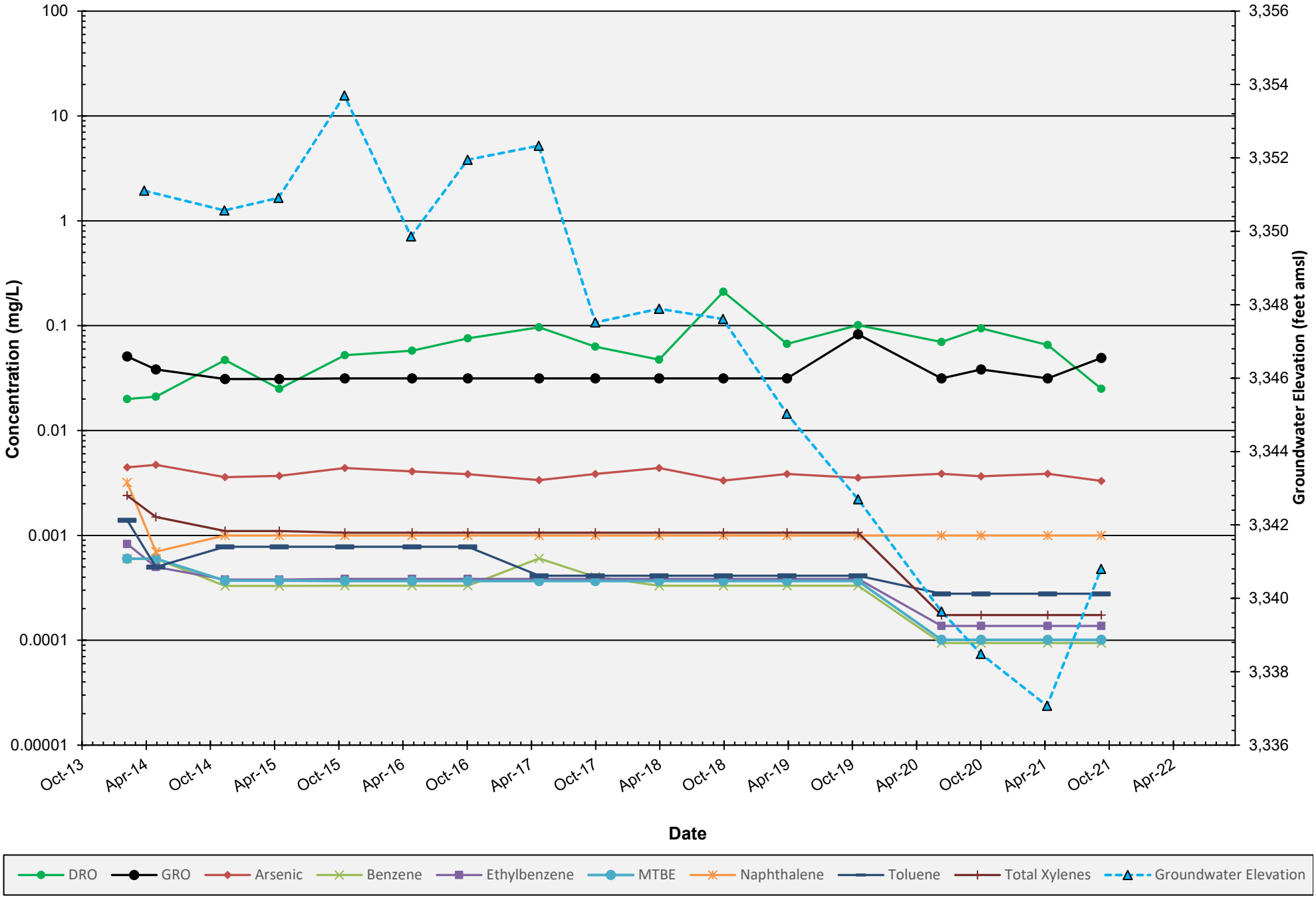
Field East of Refinery



MW-125: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

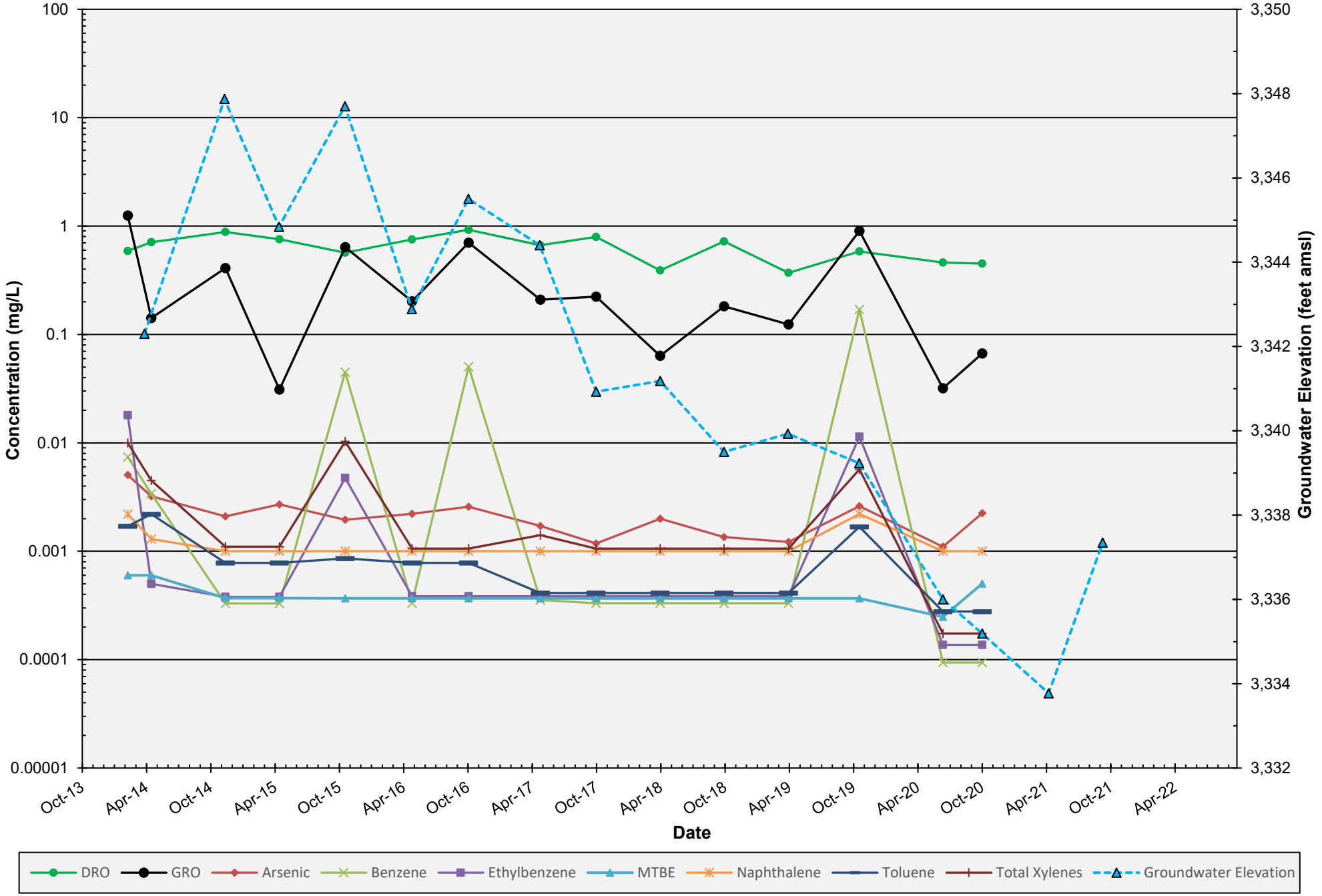
Field East of Refinery



MW-126A: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

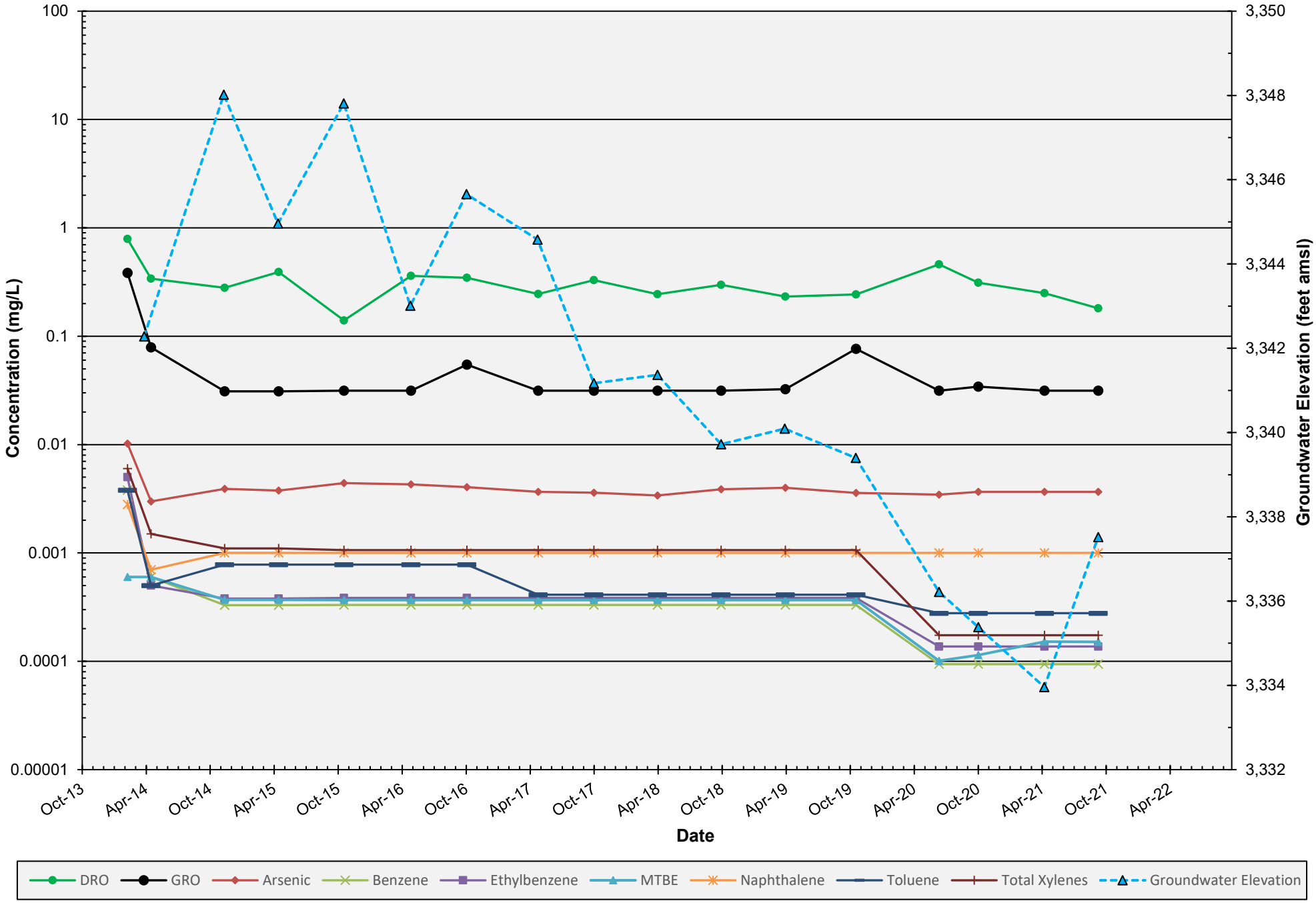
Field East of Refinery



MW-126B: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

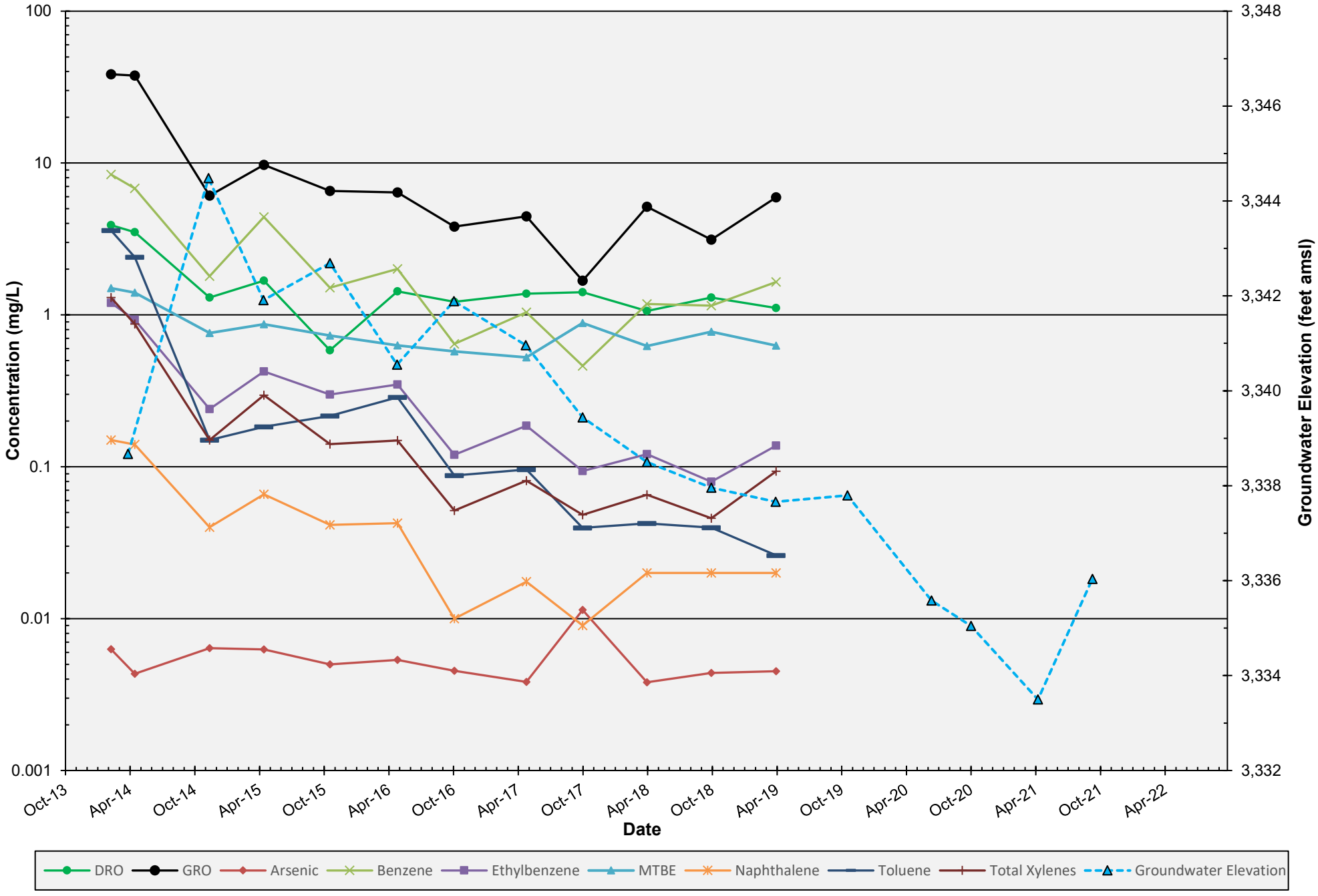
Field East of Refinery



MW-127: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

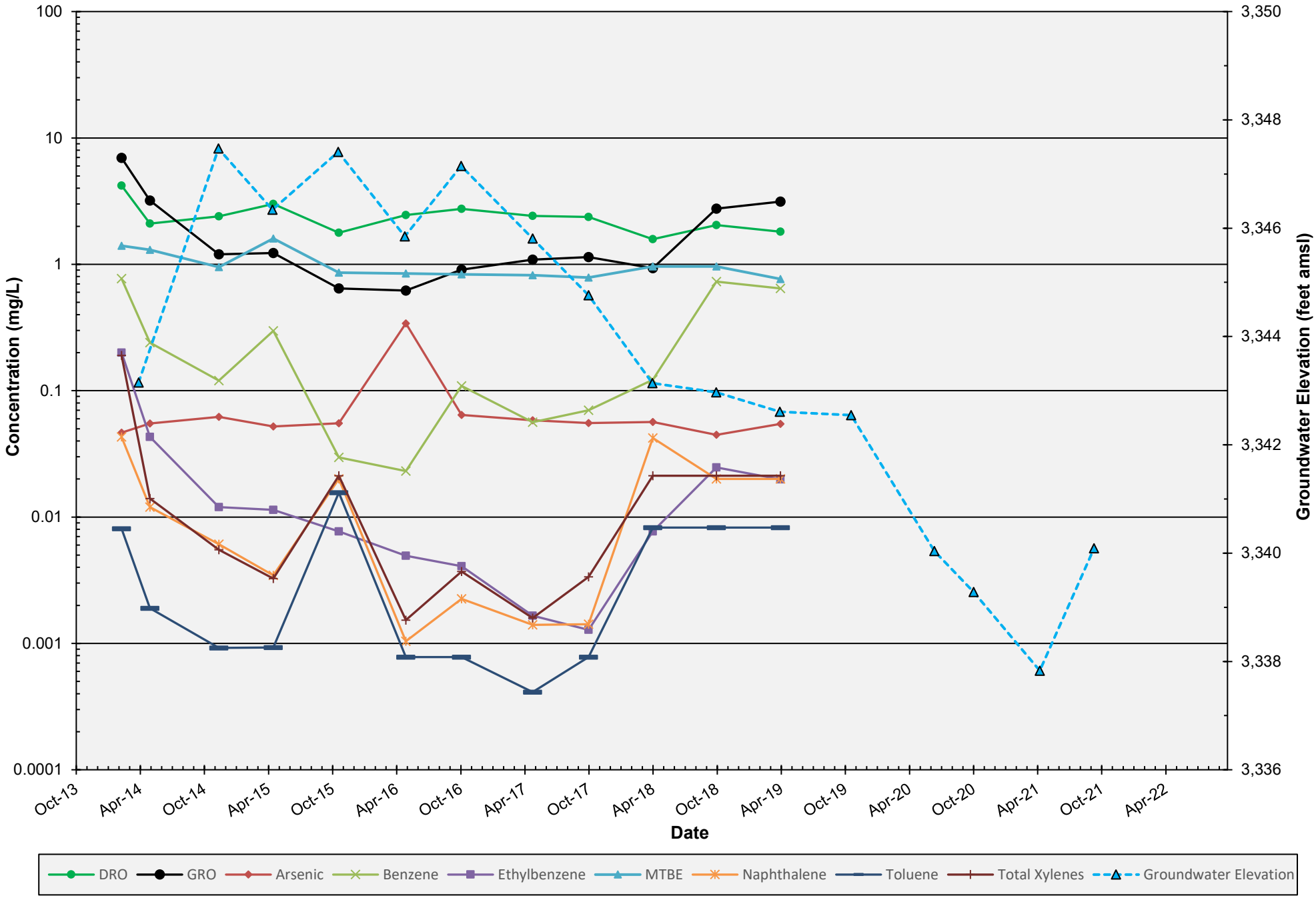
Field East of Refinery



MW-128: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

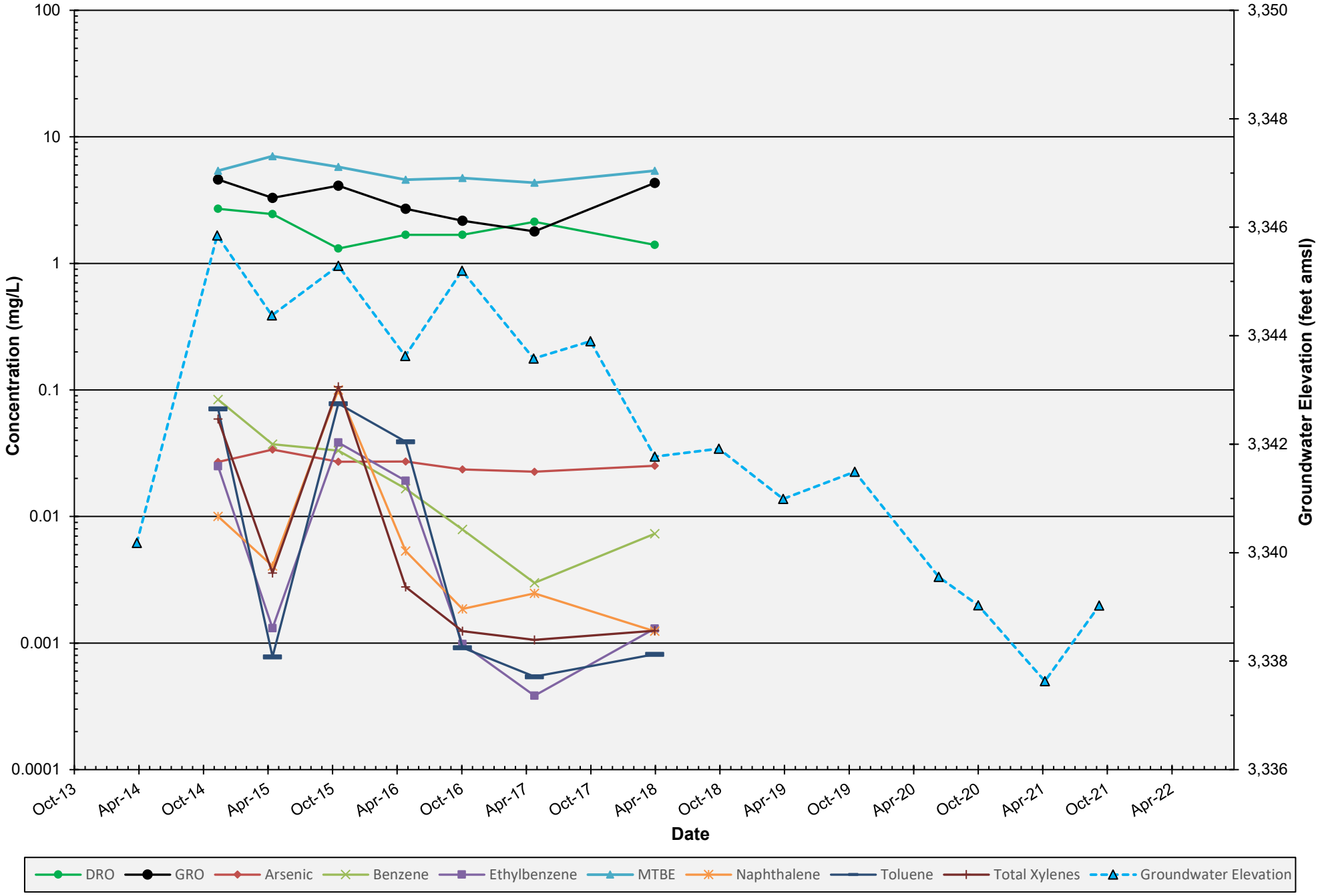
Field East of Refinery



MW-129: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

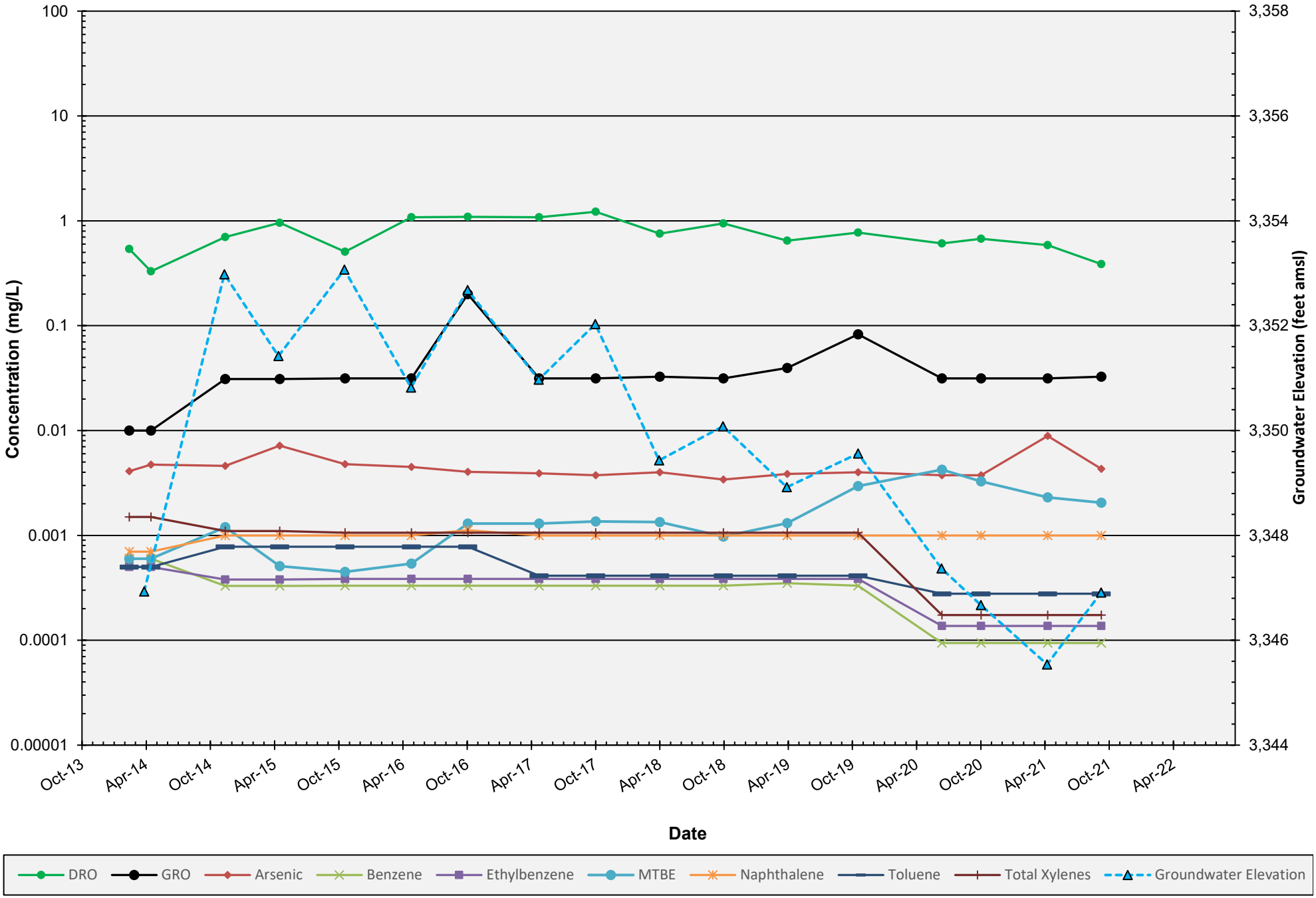
Field East of Refinery



MW-130: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

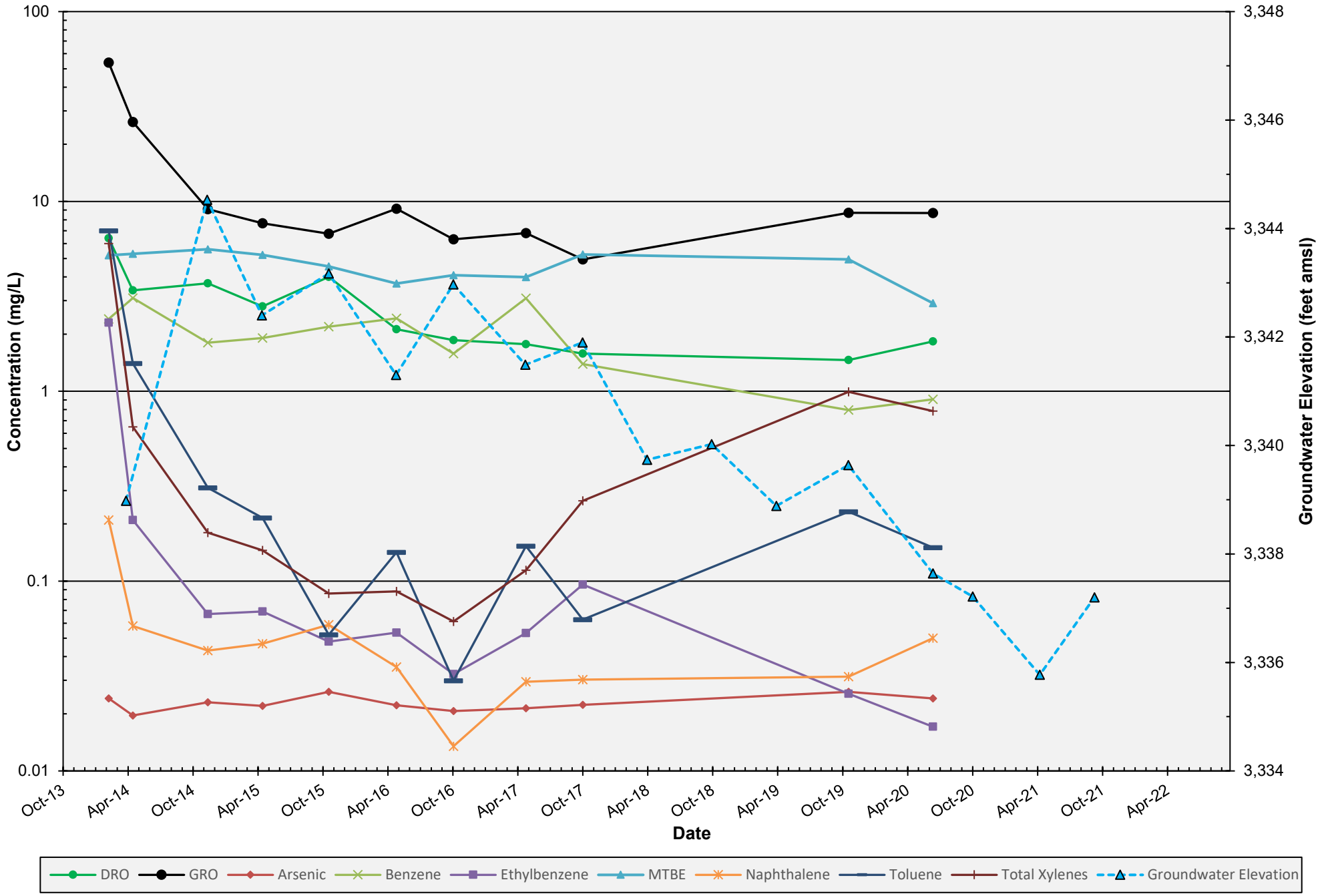
Field East of Refinery



MW-131: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

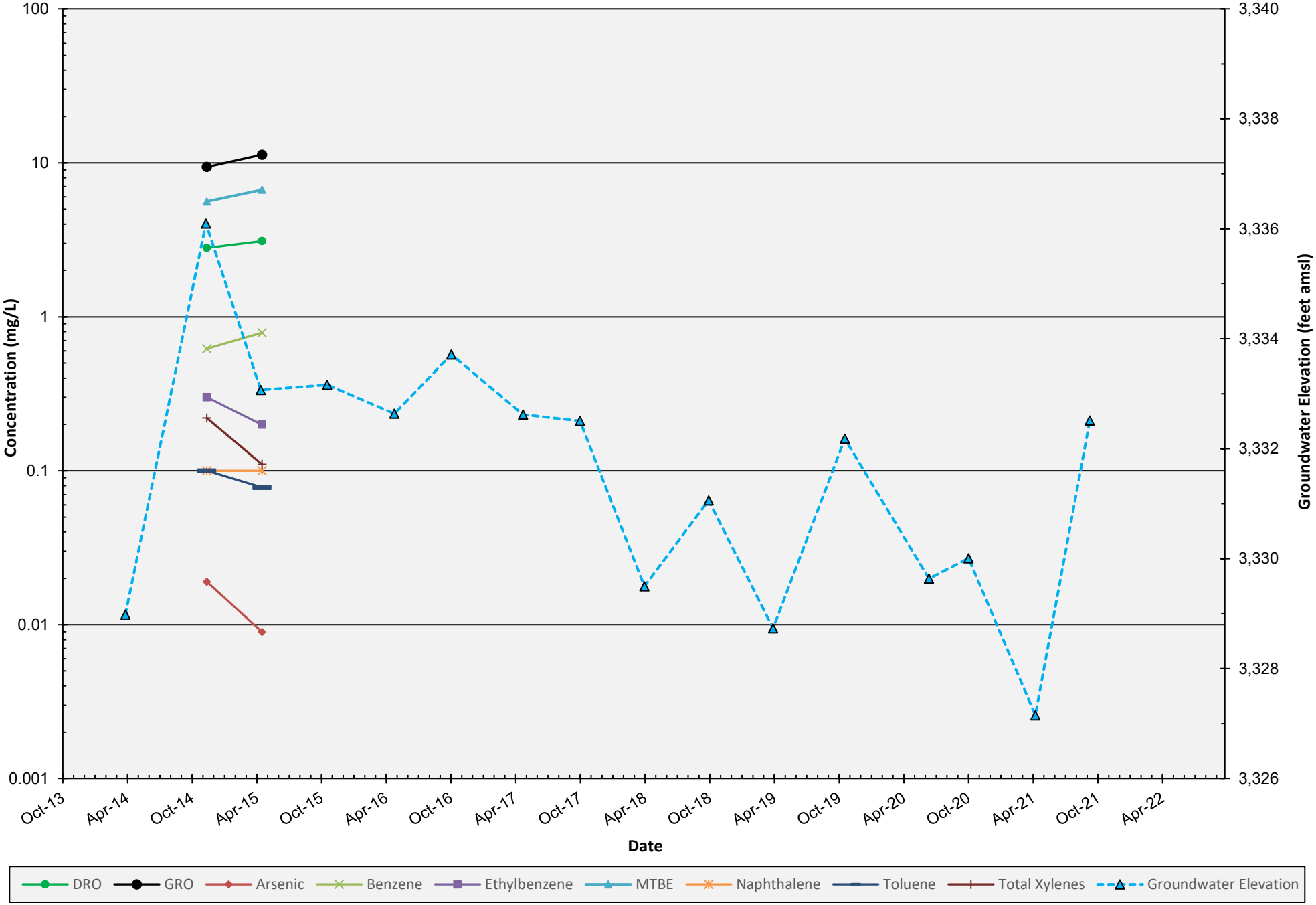
Field East of Refinery



MW-133: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

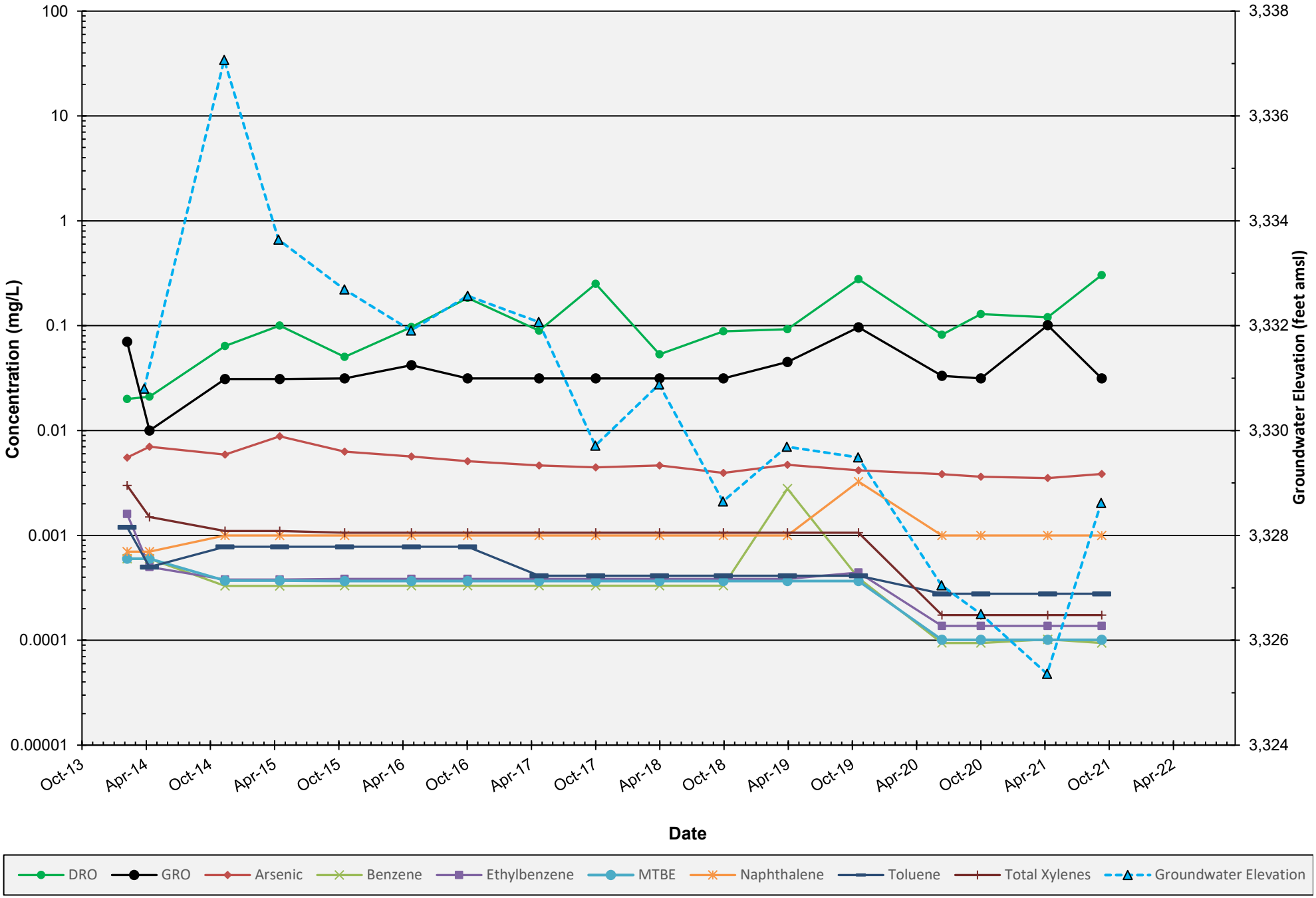
Field East of Refinery



MW-134: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

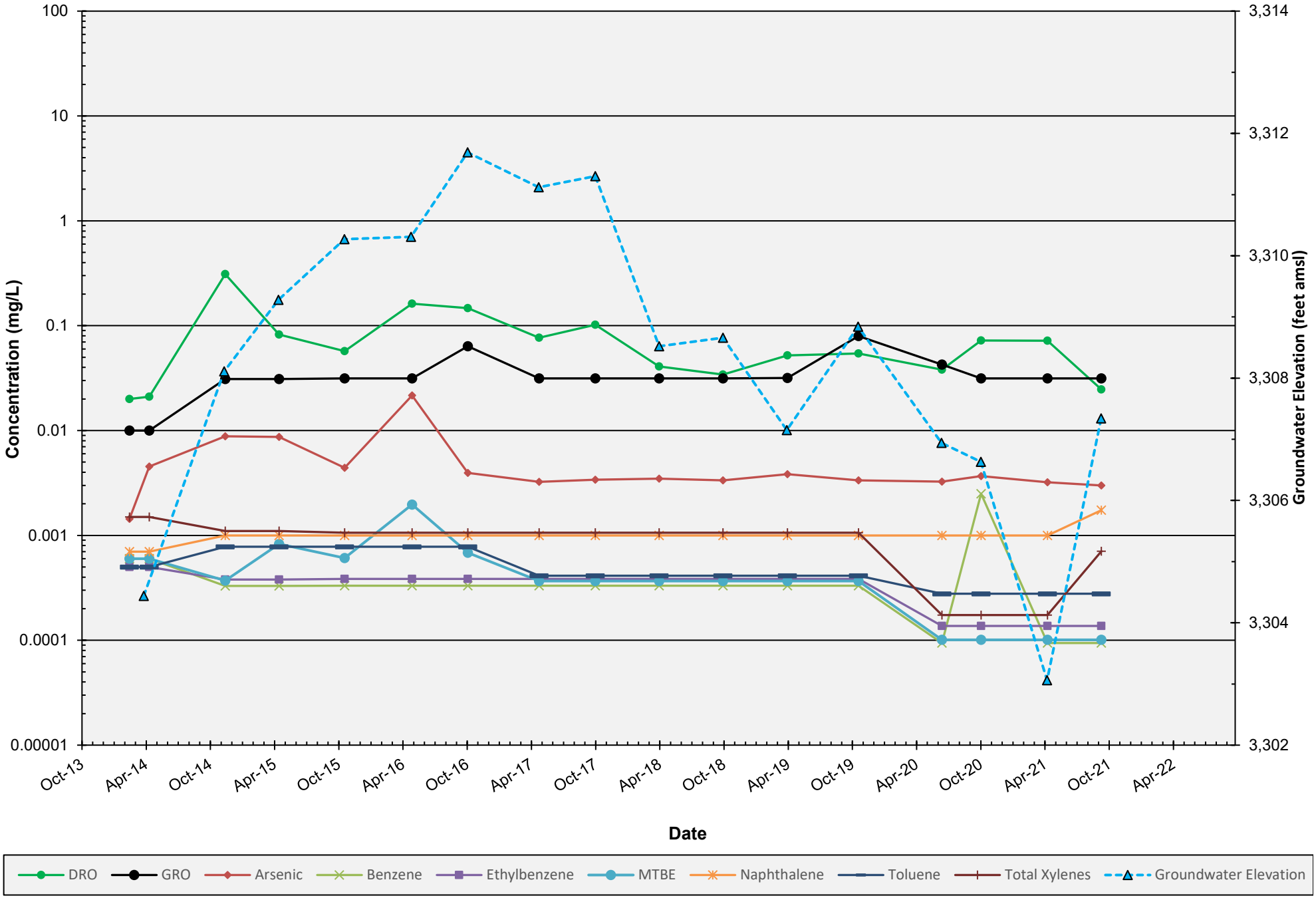
Field East of Refinery



MW-135: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

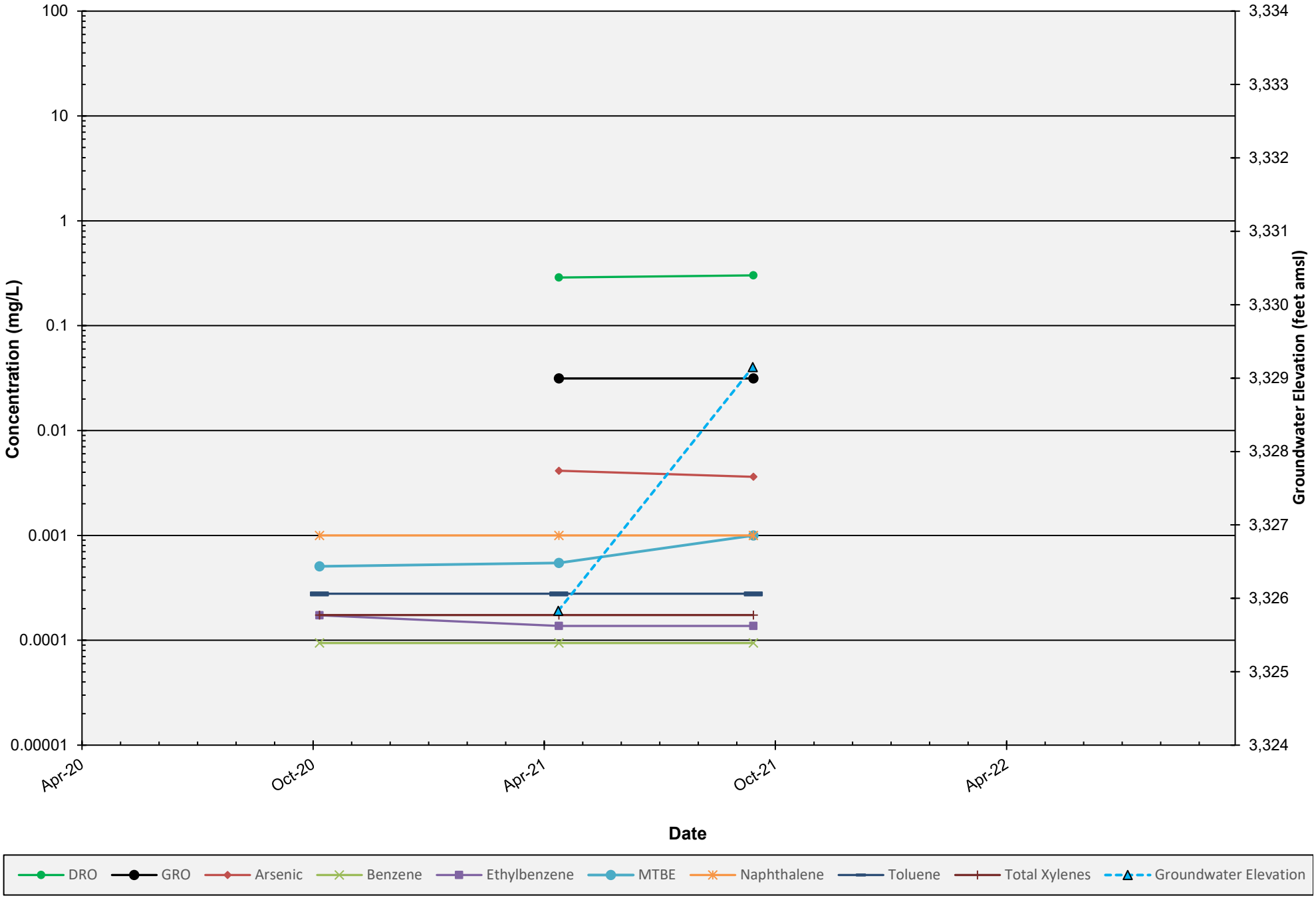
Field East of Refinery



MW-145: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

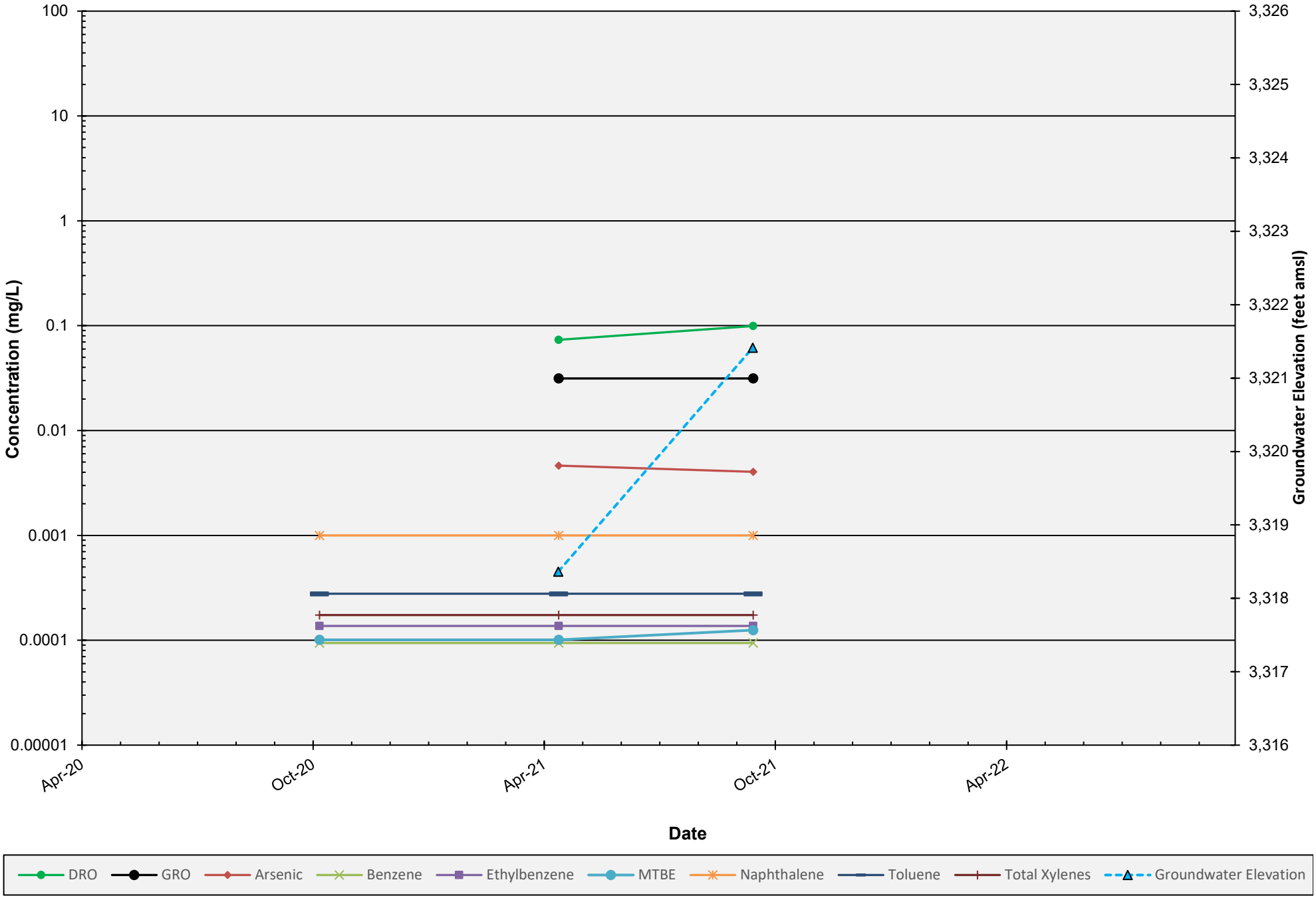
Field East of Refinery



MW-146: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

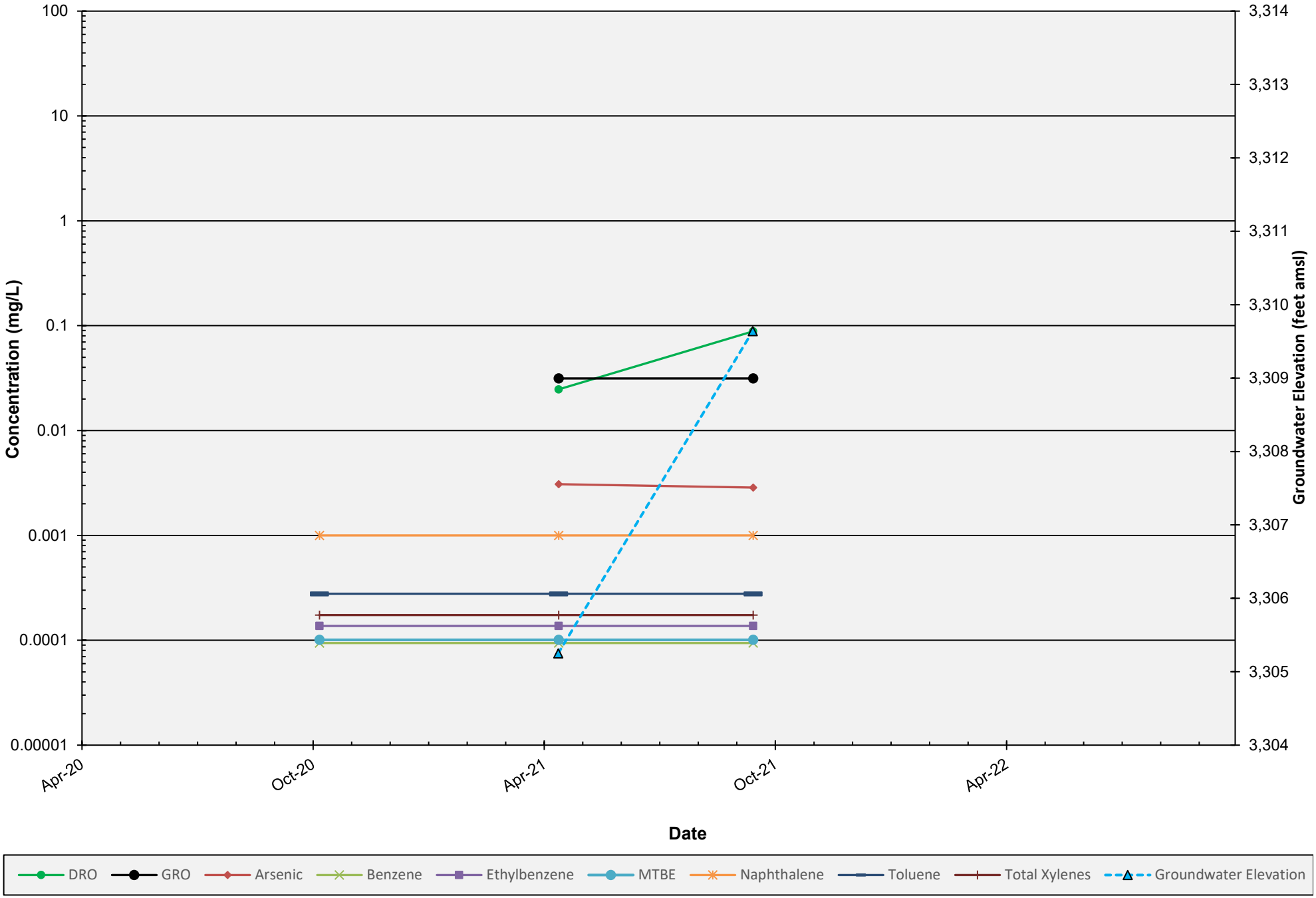
Field East of Refinery



MW-147: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

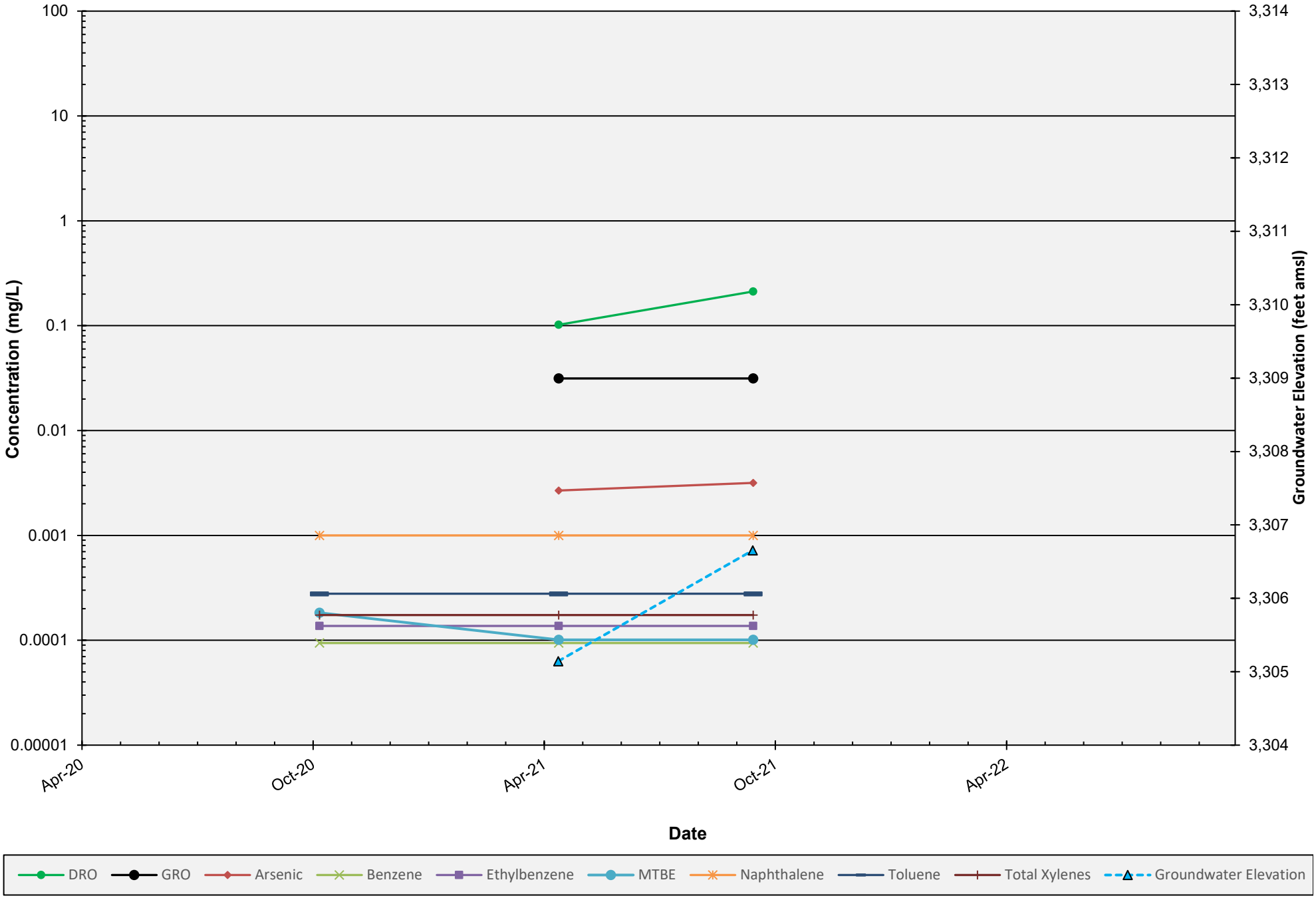
Field East of Refinery



MW-148: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

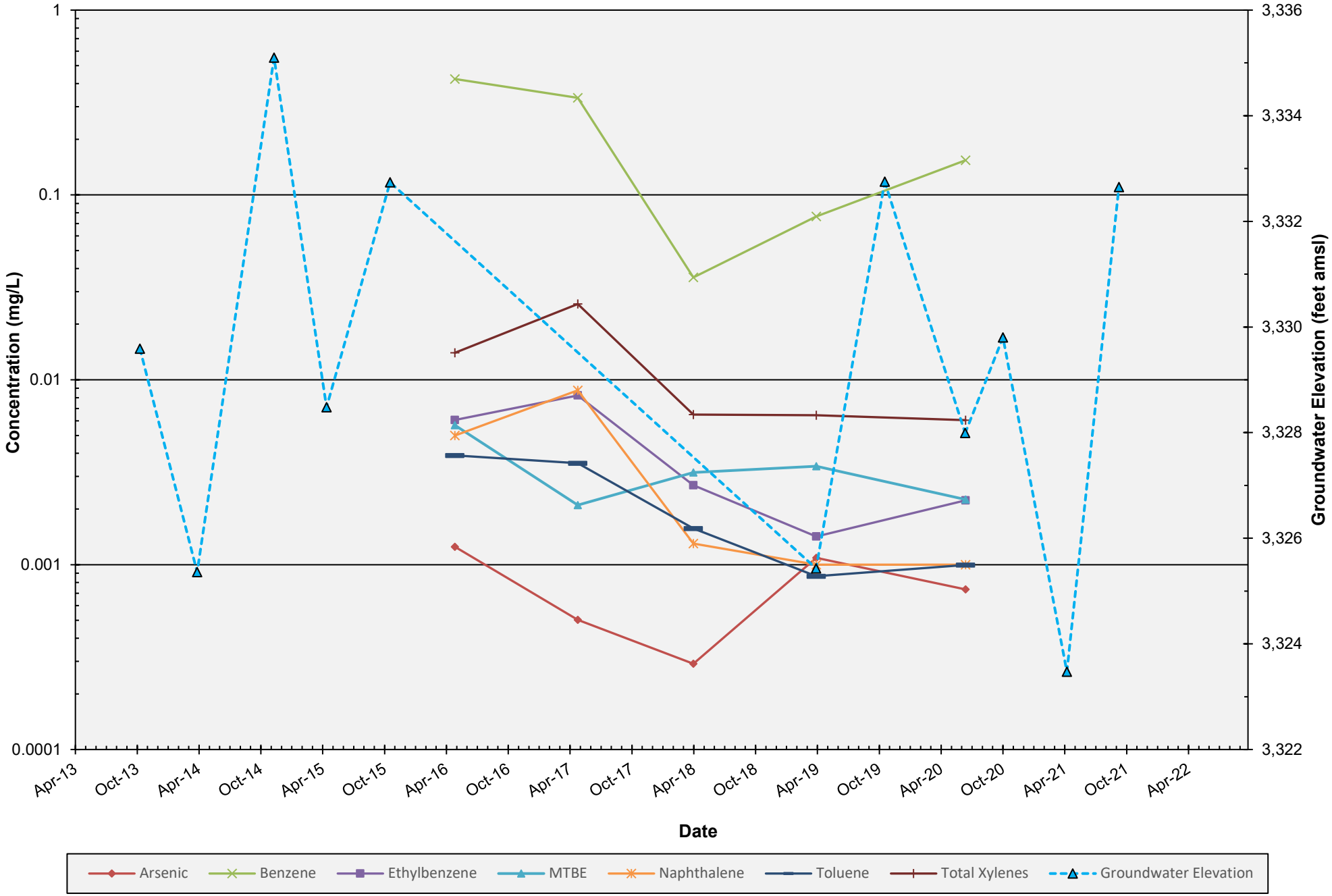
Field East of Refinery



RW-12R: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

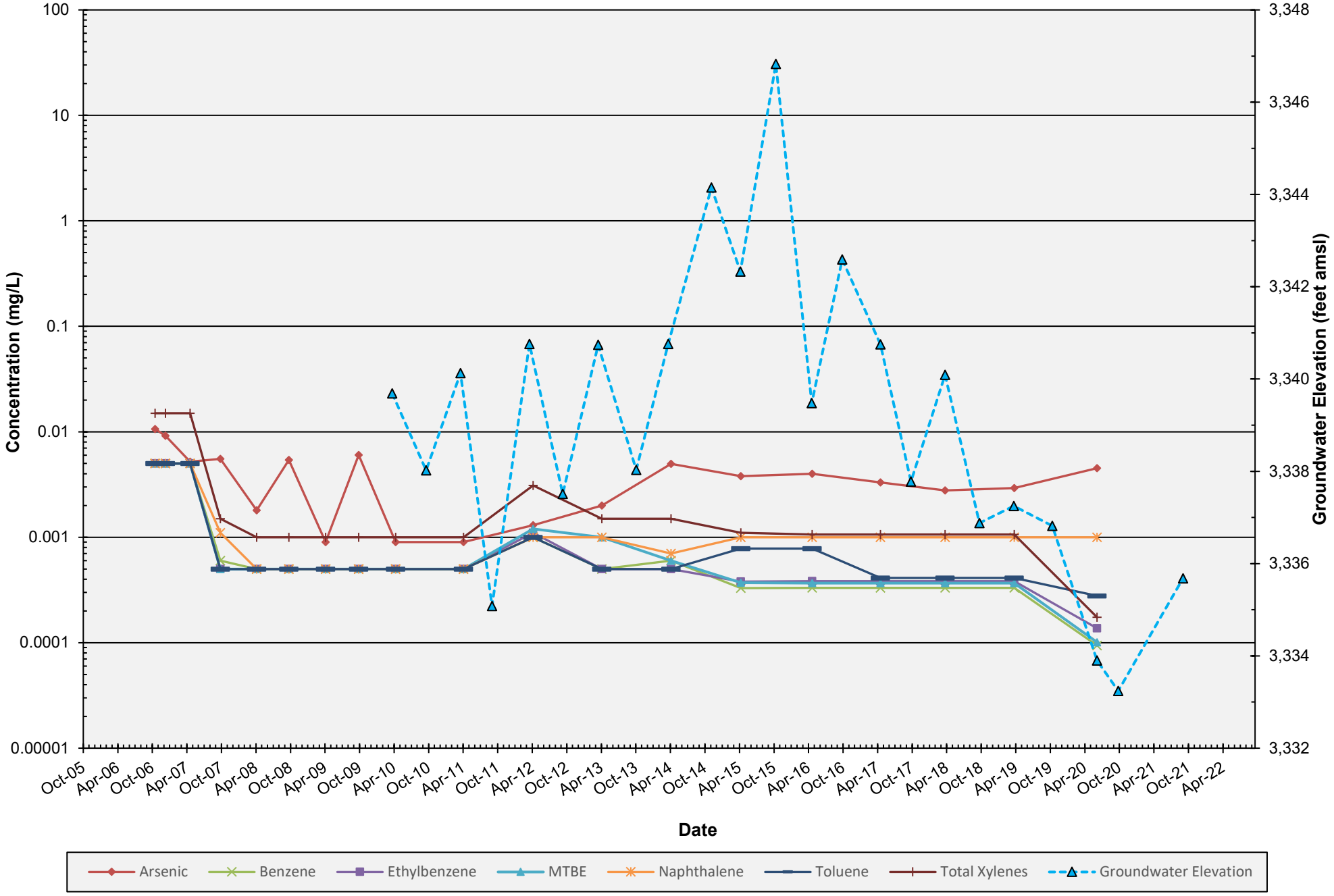
Field East of Refinery



RW-18A: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

Field East of Refinery

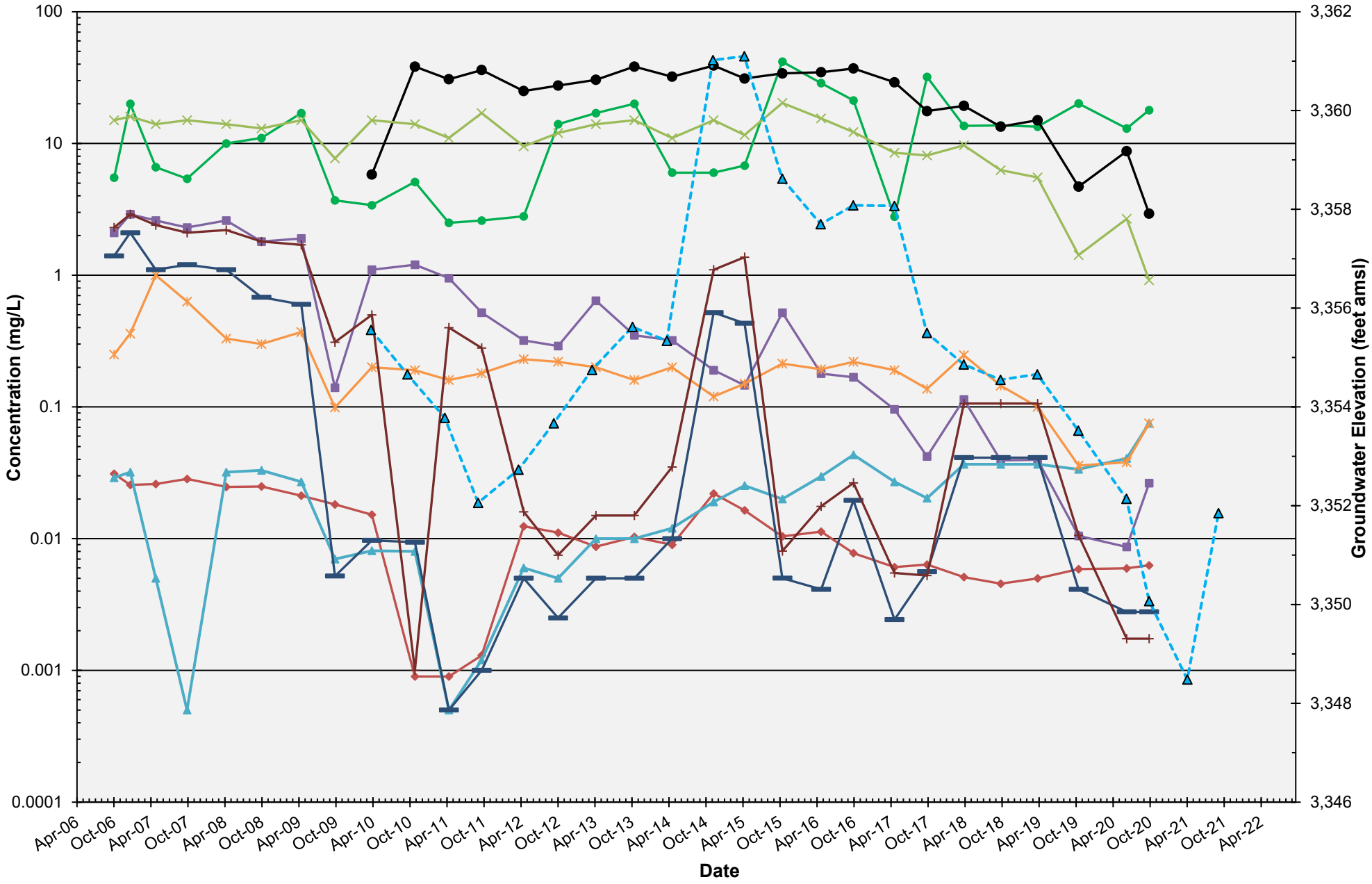


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MW-23: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

North Refinery Area

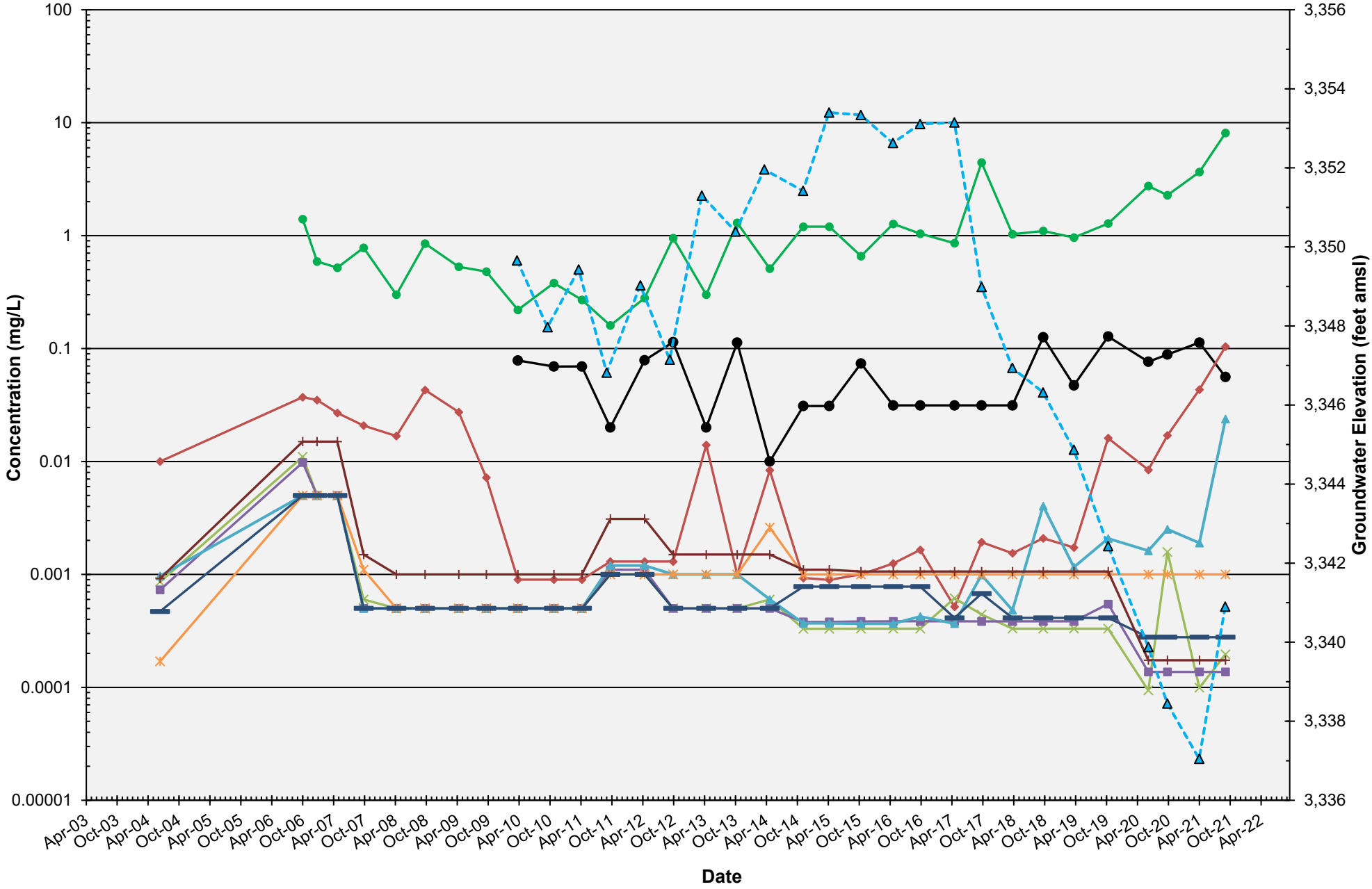


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MW-29: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

North Refinery Area

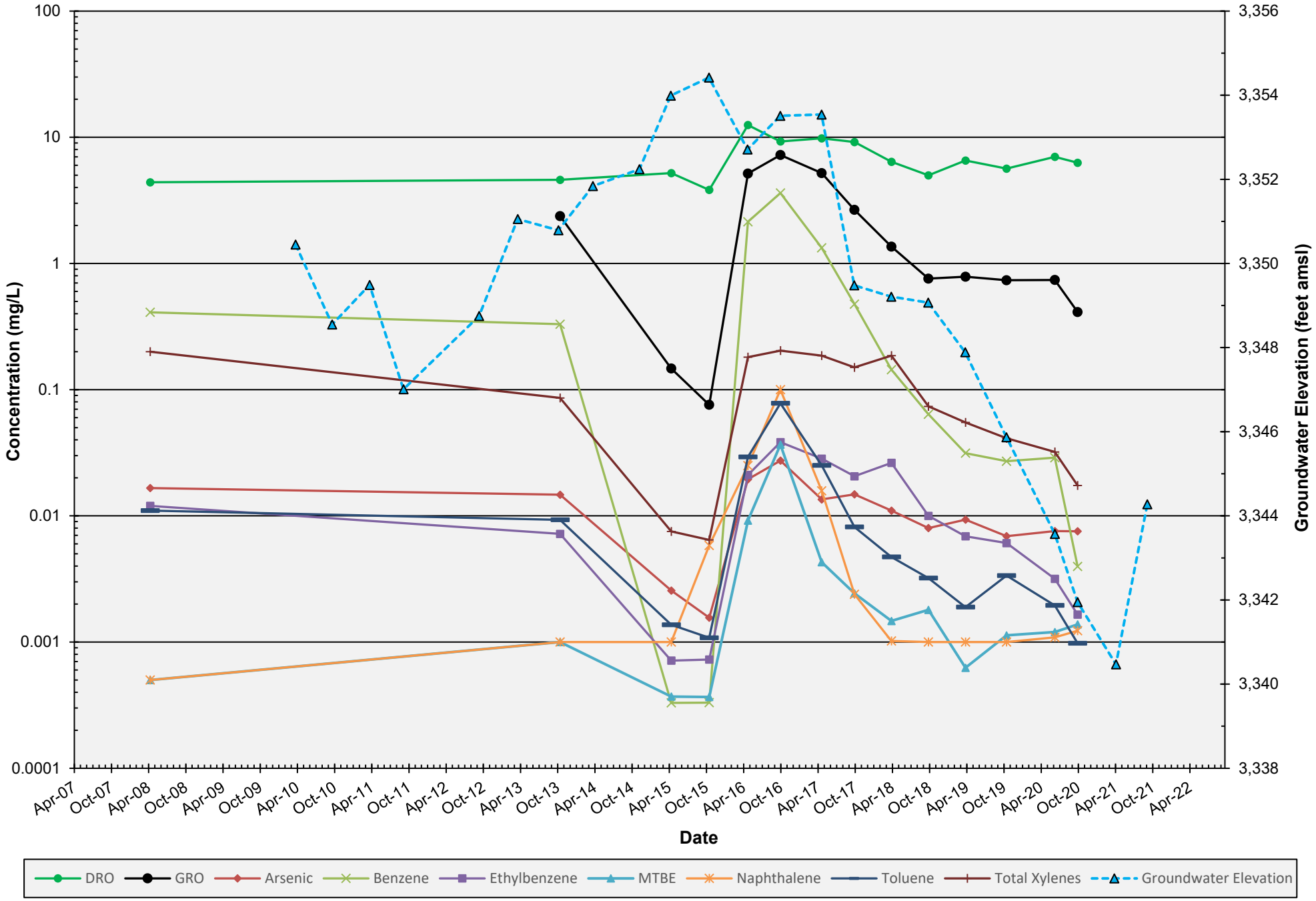


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MW-39: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

North Refinery Area

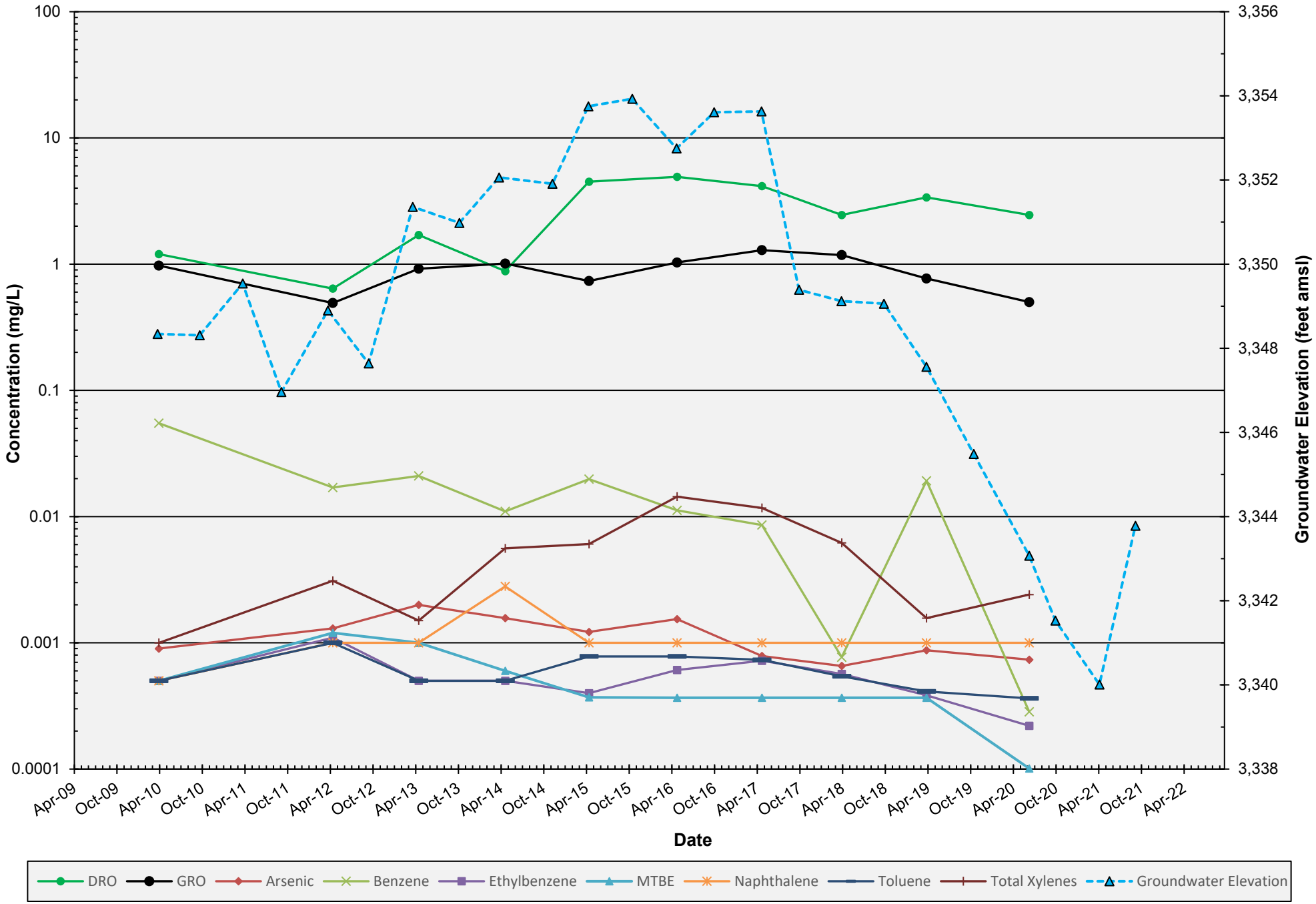


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MW-40: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

North Refinery Area

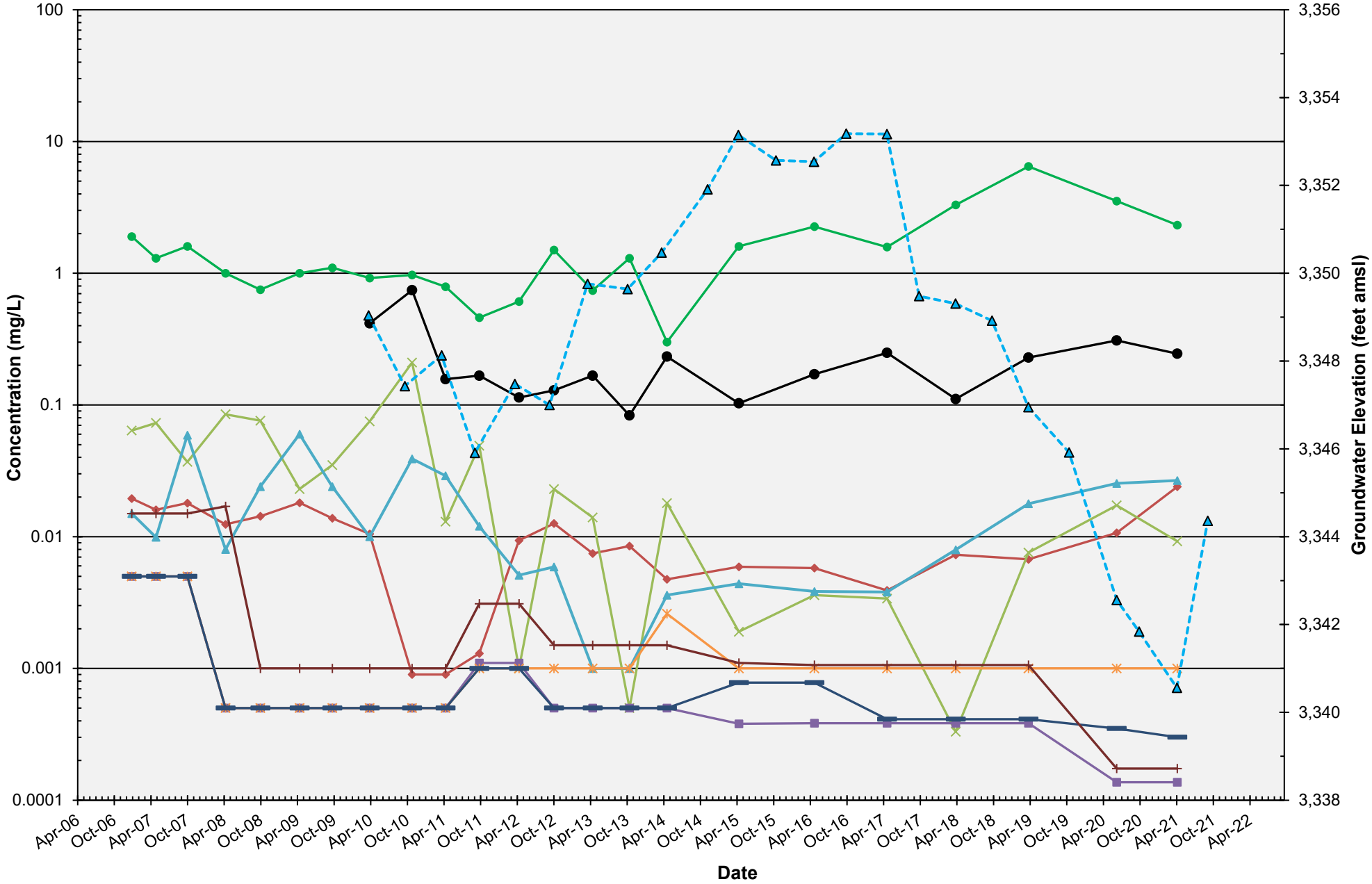


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MW-41: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

North Refinery Area

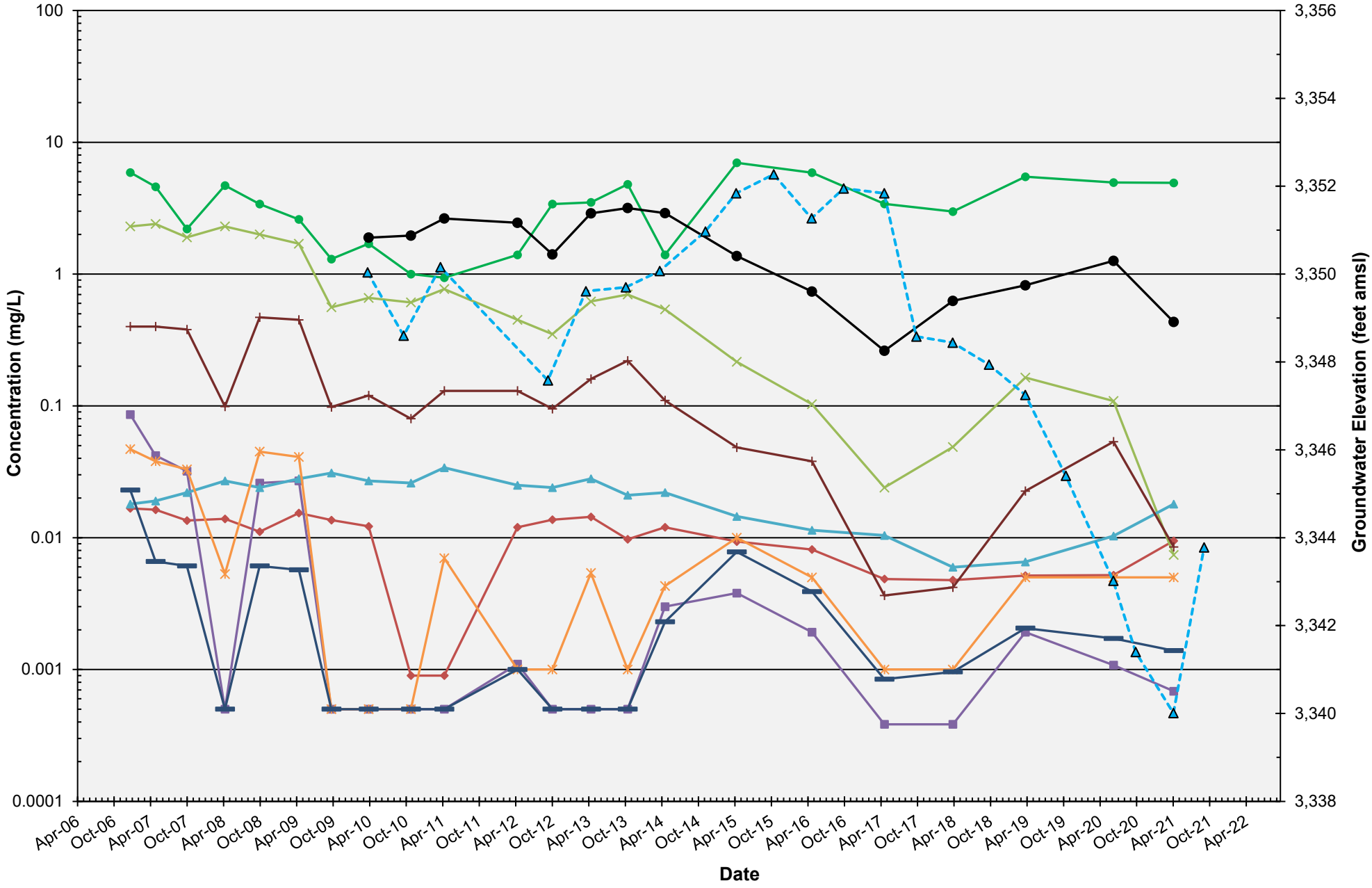


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MW-42: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

North Refinery Area

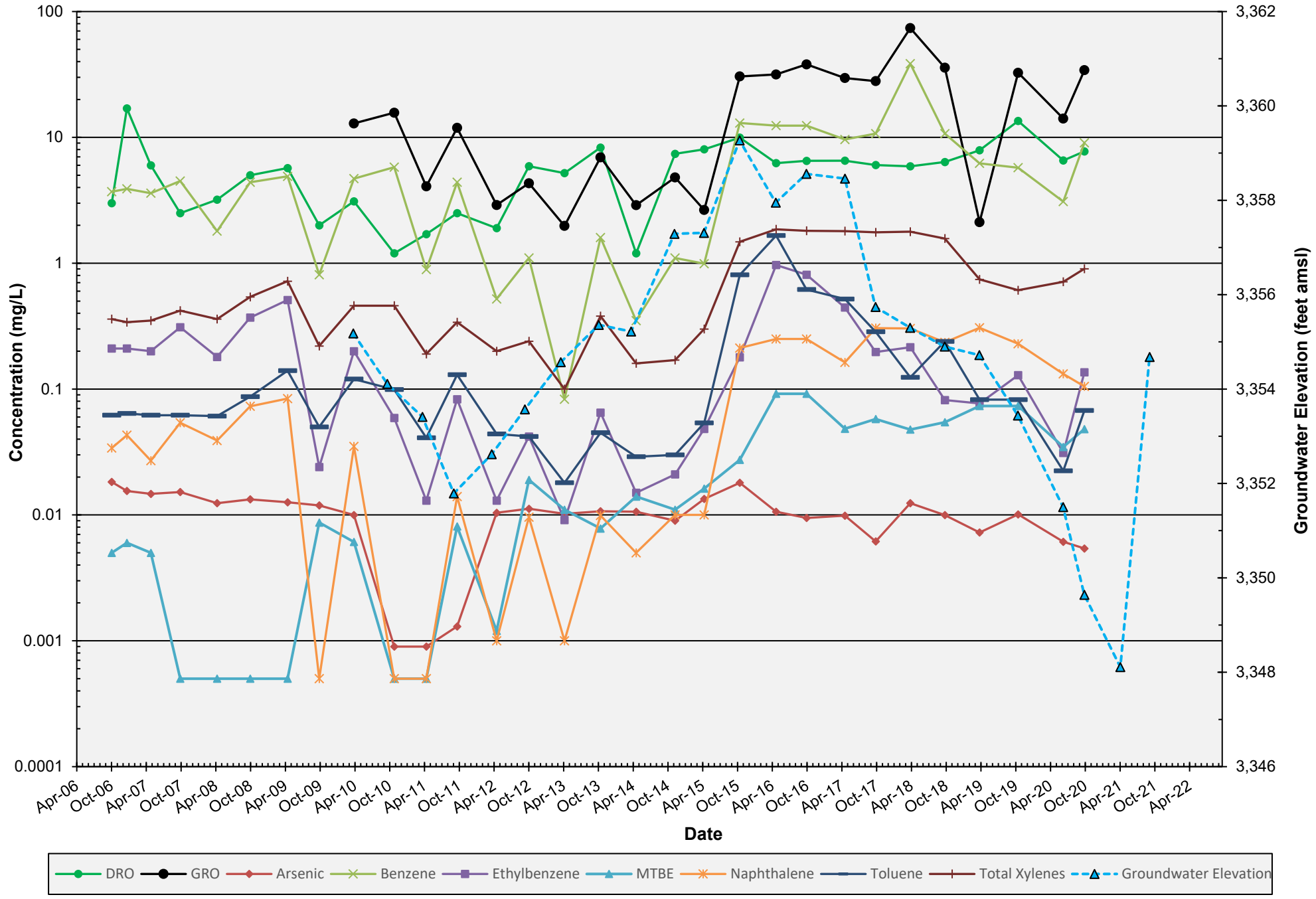


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MW-43: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

North Refinery Area

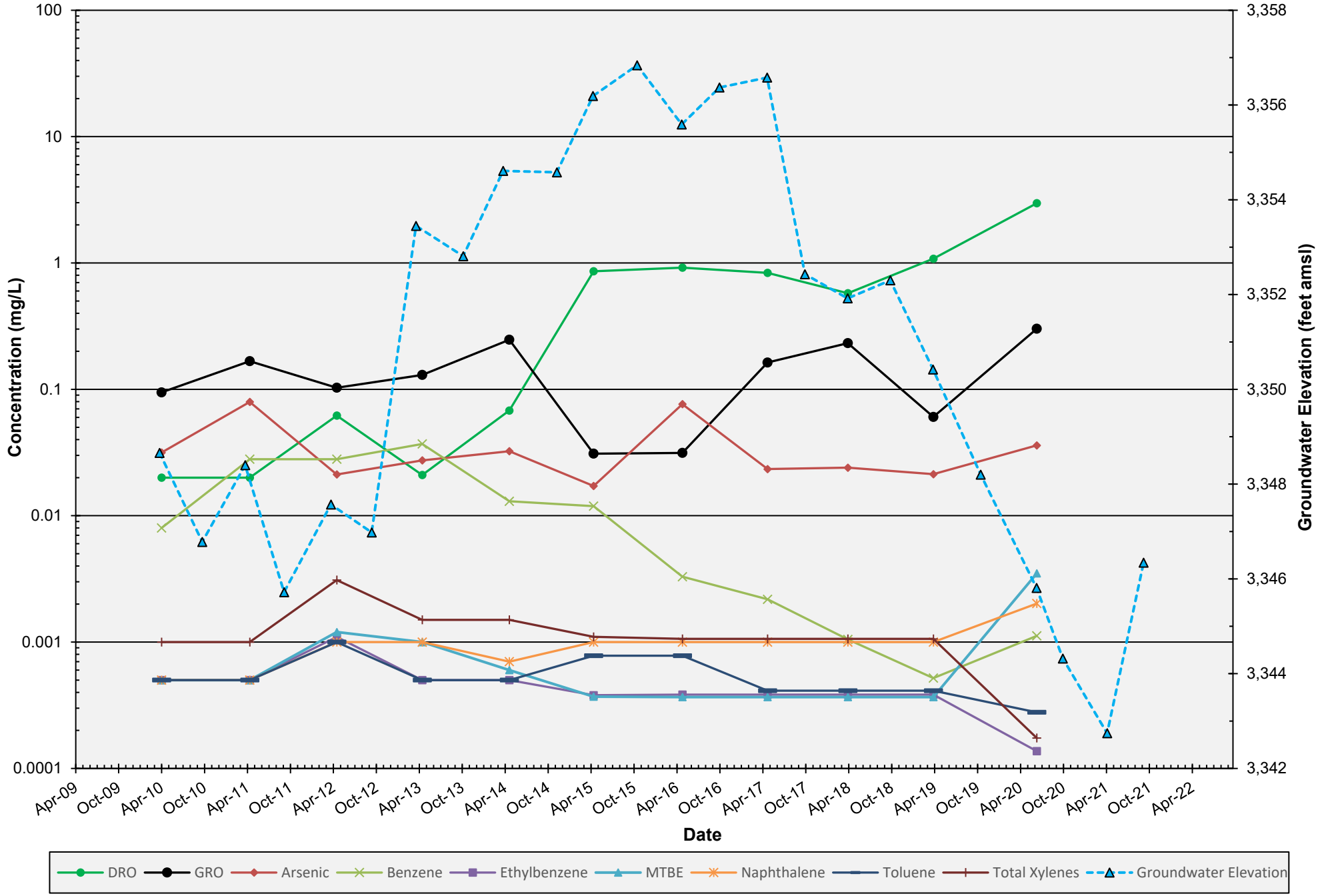


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MW-59: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

North Refinery Area

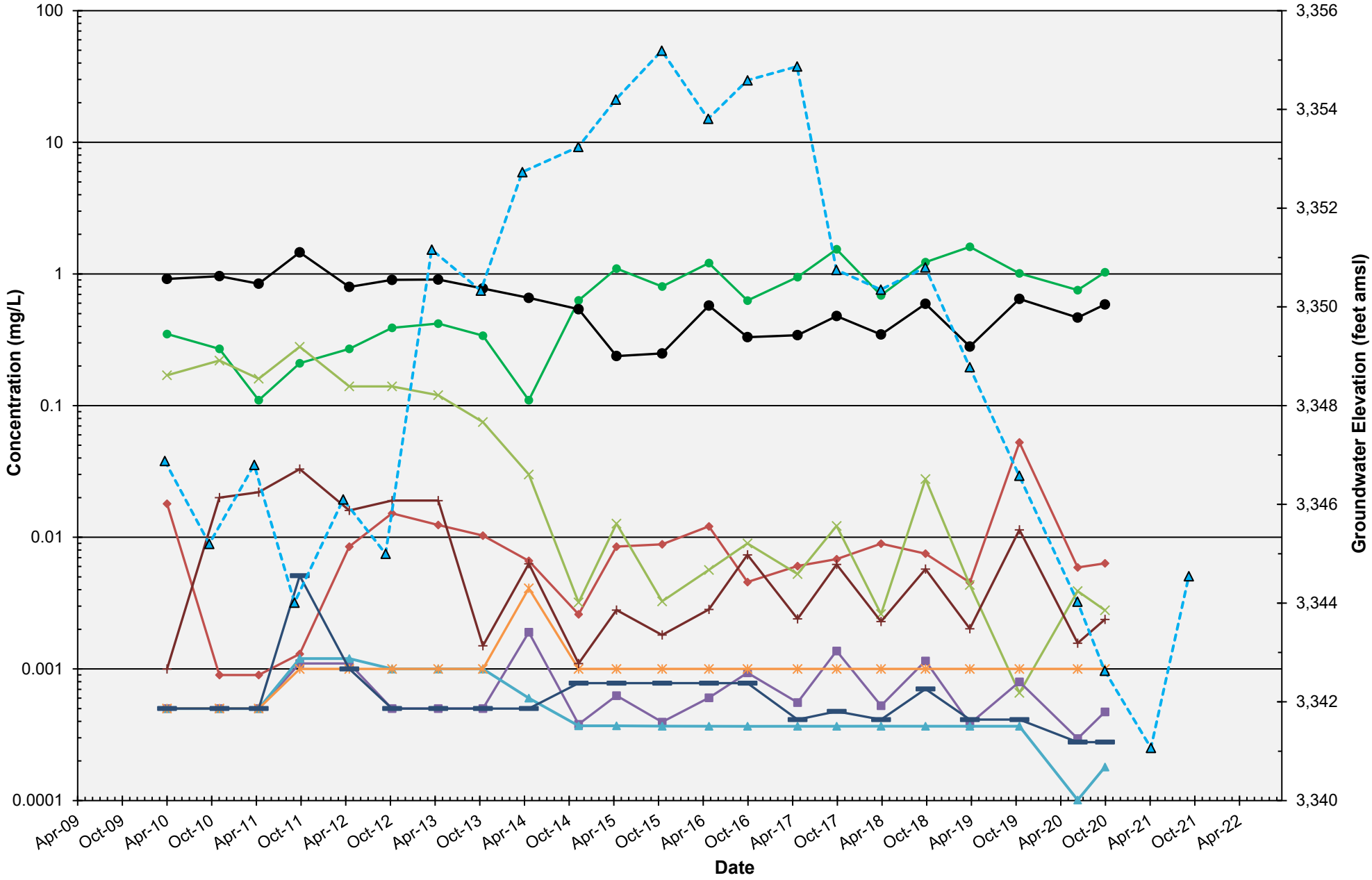


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MW-60: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

North Refinery Area

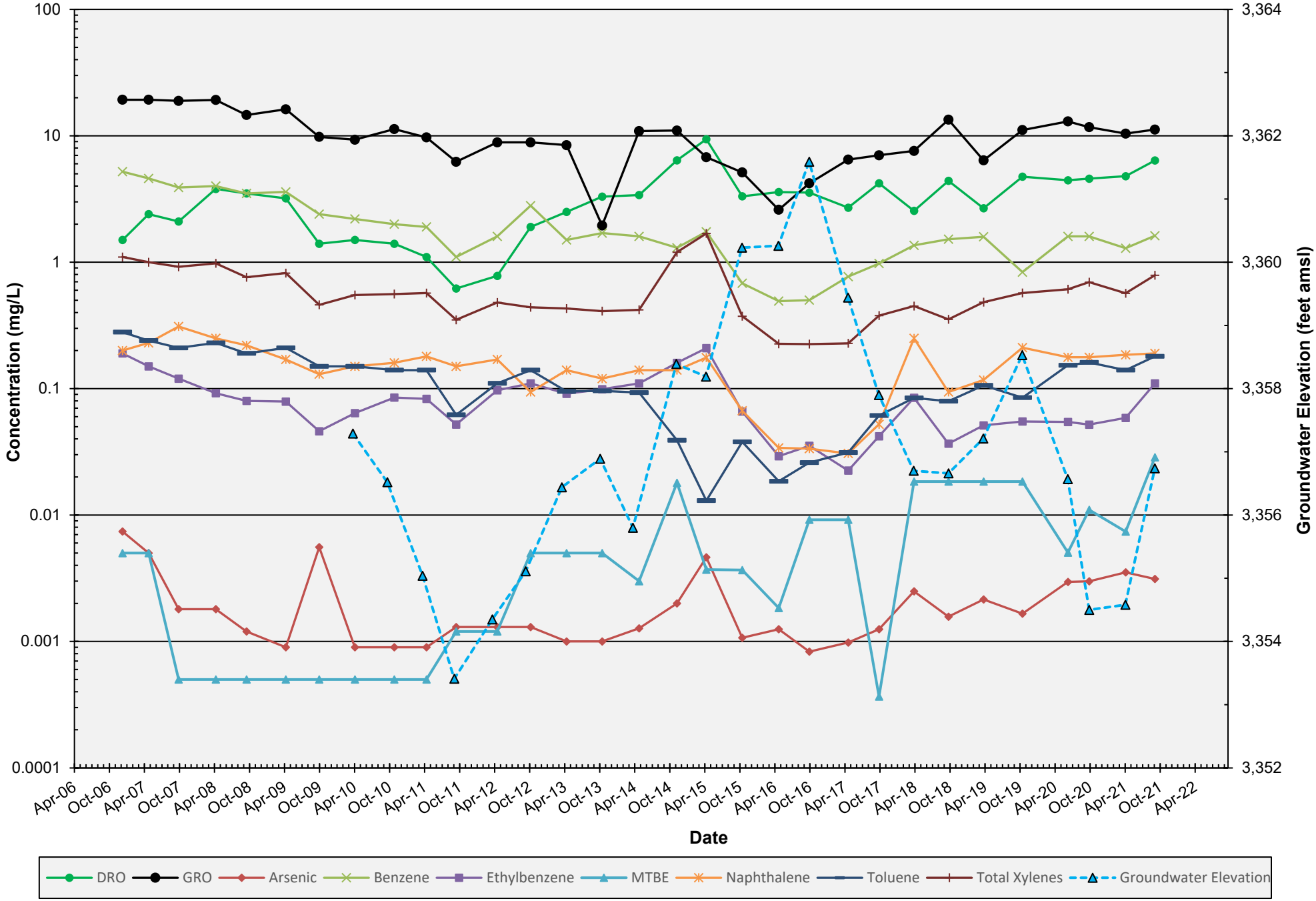


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MW-61: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

North Refinery Area

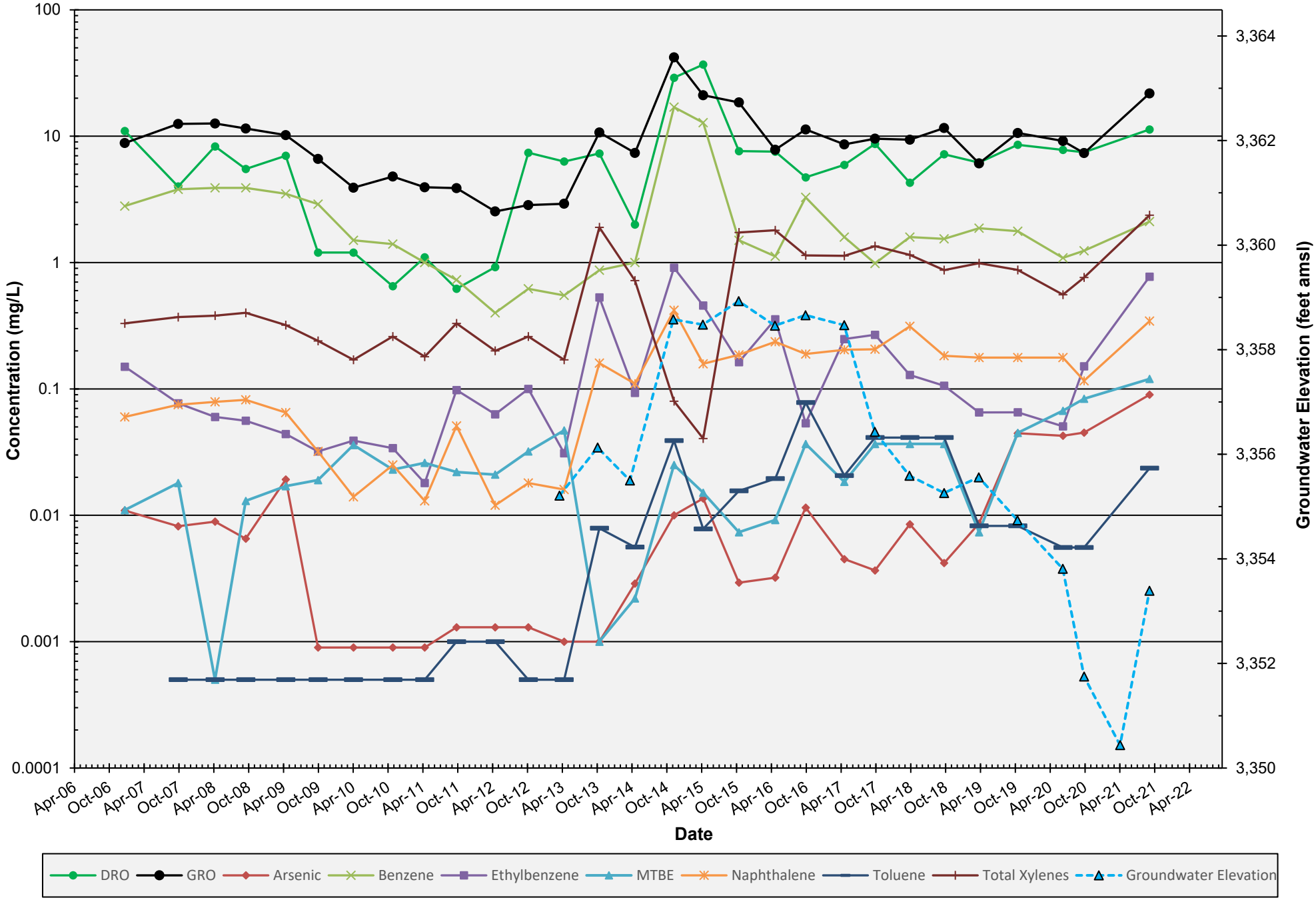


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MW-62: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

North Refinery Area

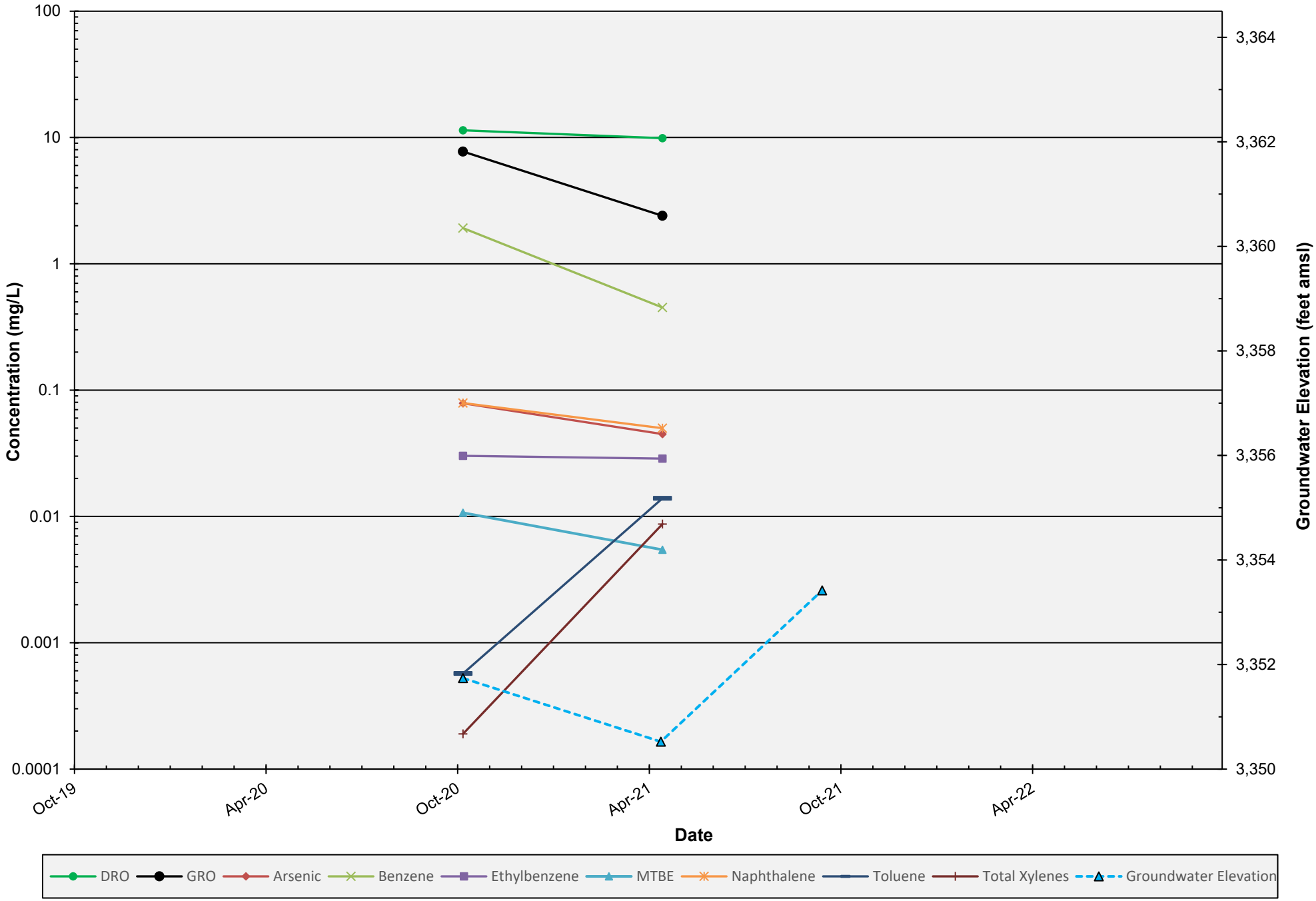


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MW-62R: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

North Refinery Area

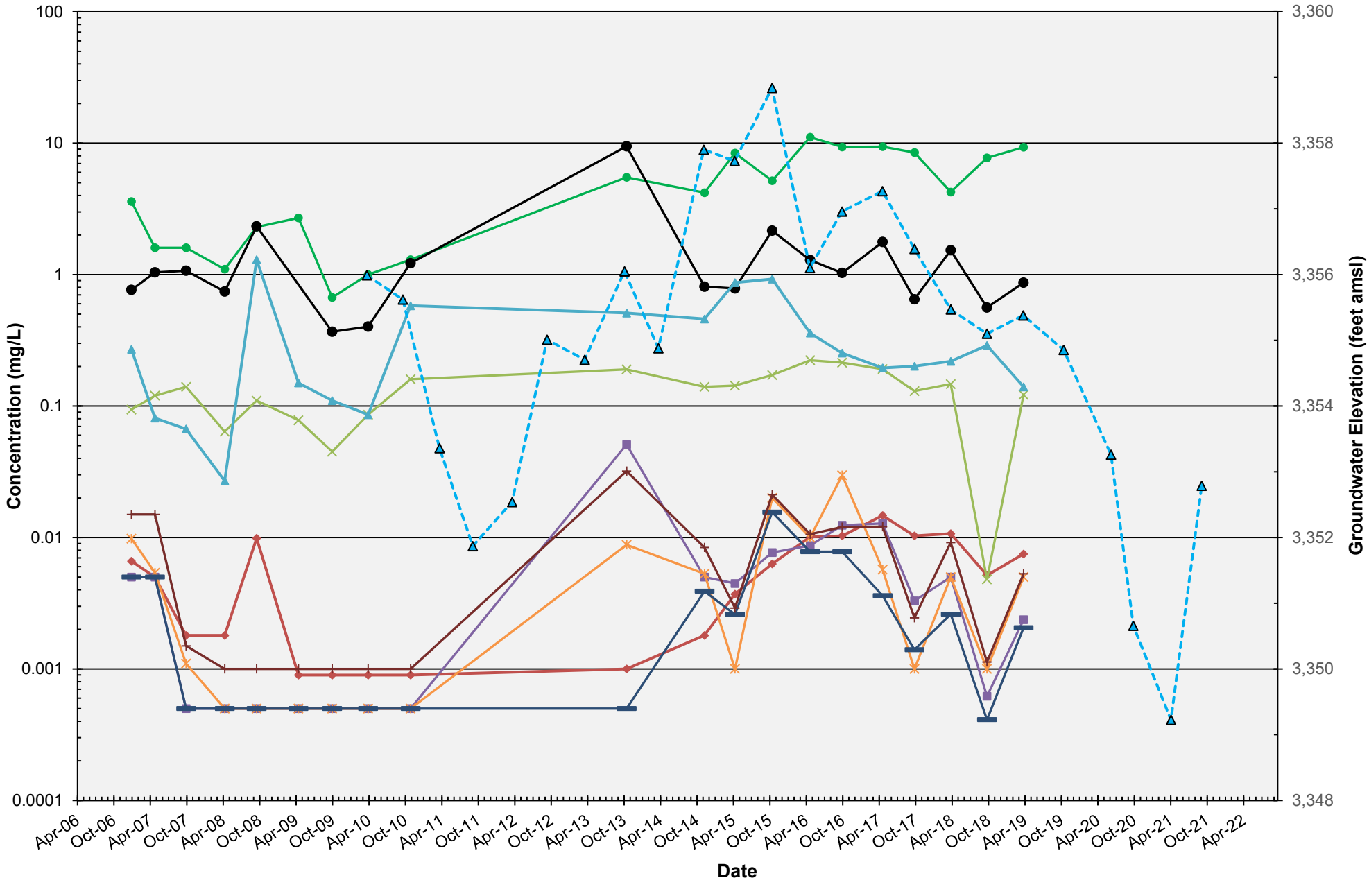


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Received by OCD: 1/9/2025 2:41:44 PM

MW-67: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

North Refinery Area

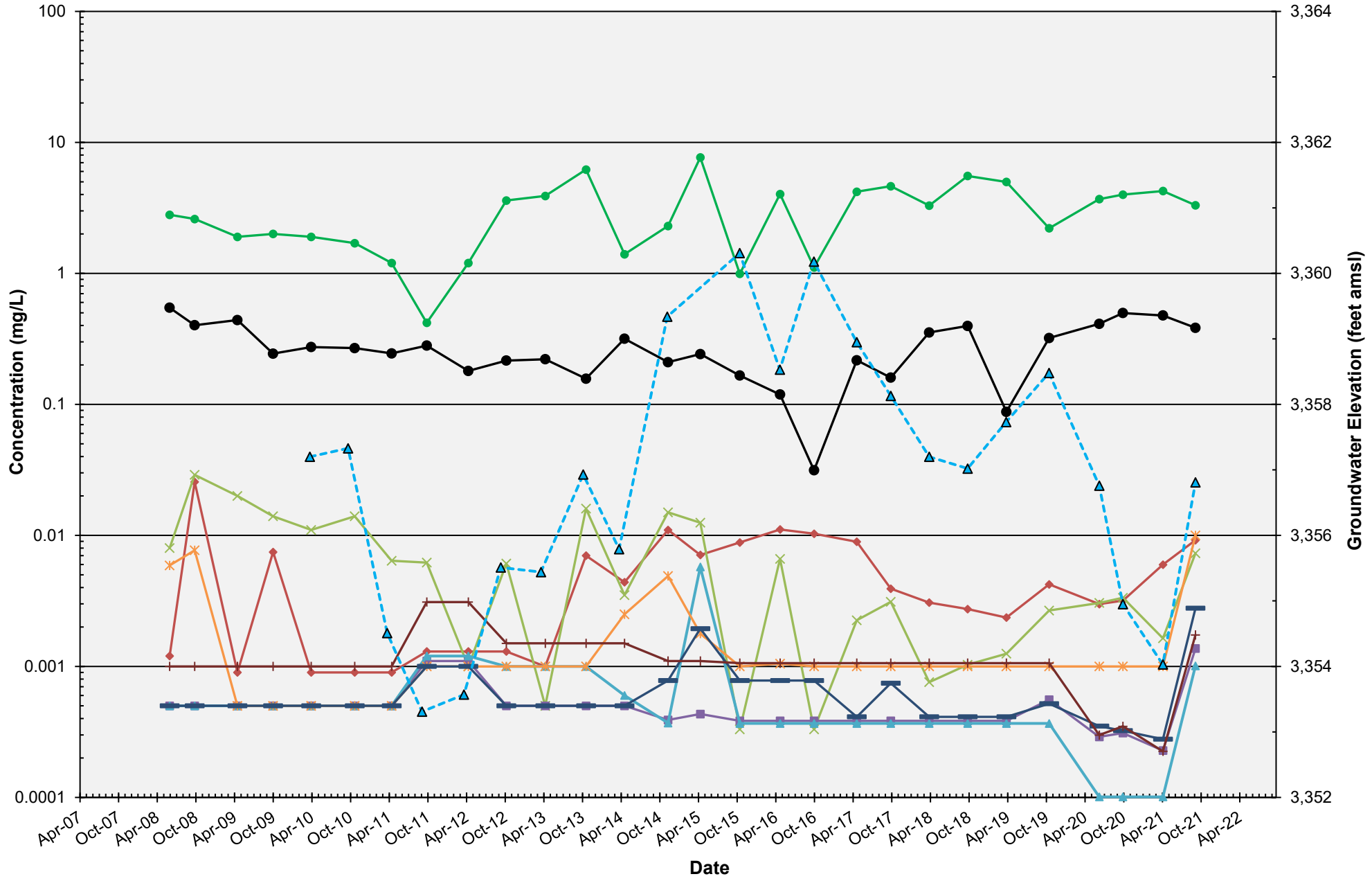


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MW-90: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

North Refinery Area

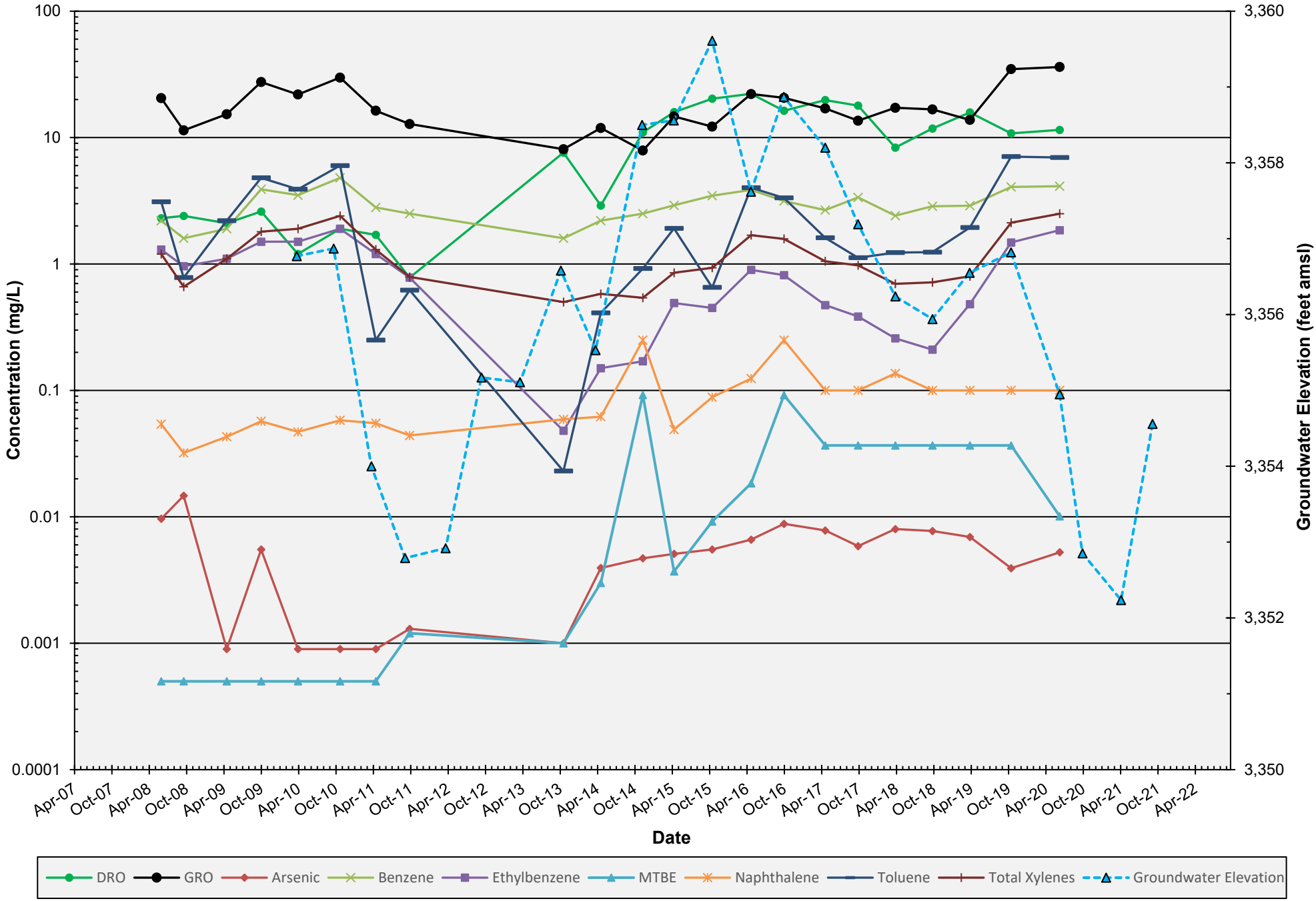


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MW-91: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

North Refinery Area

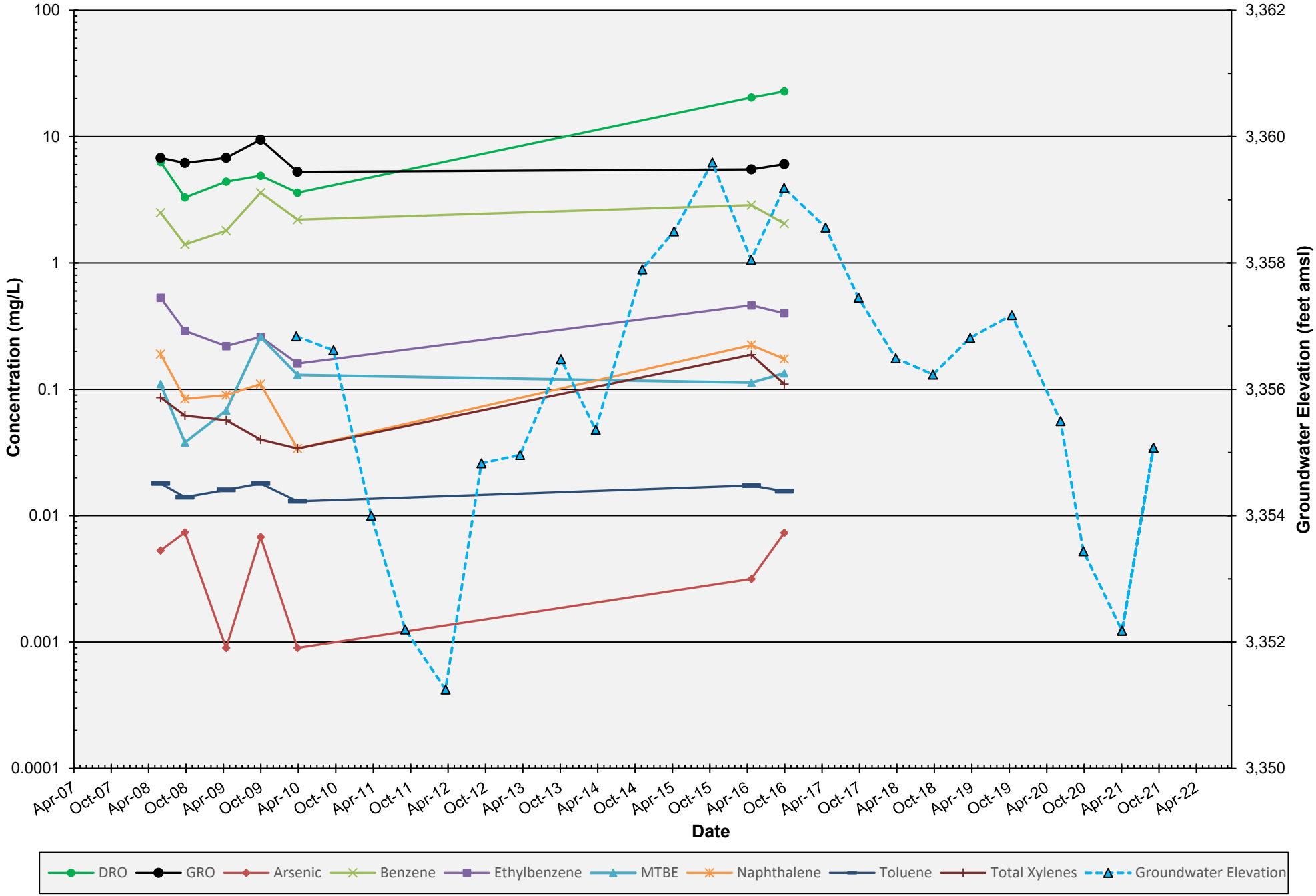


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MW-92: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

North Refinery Area

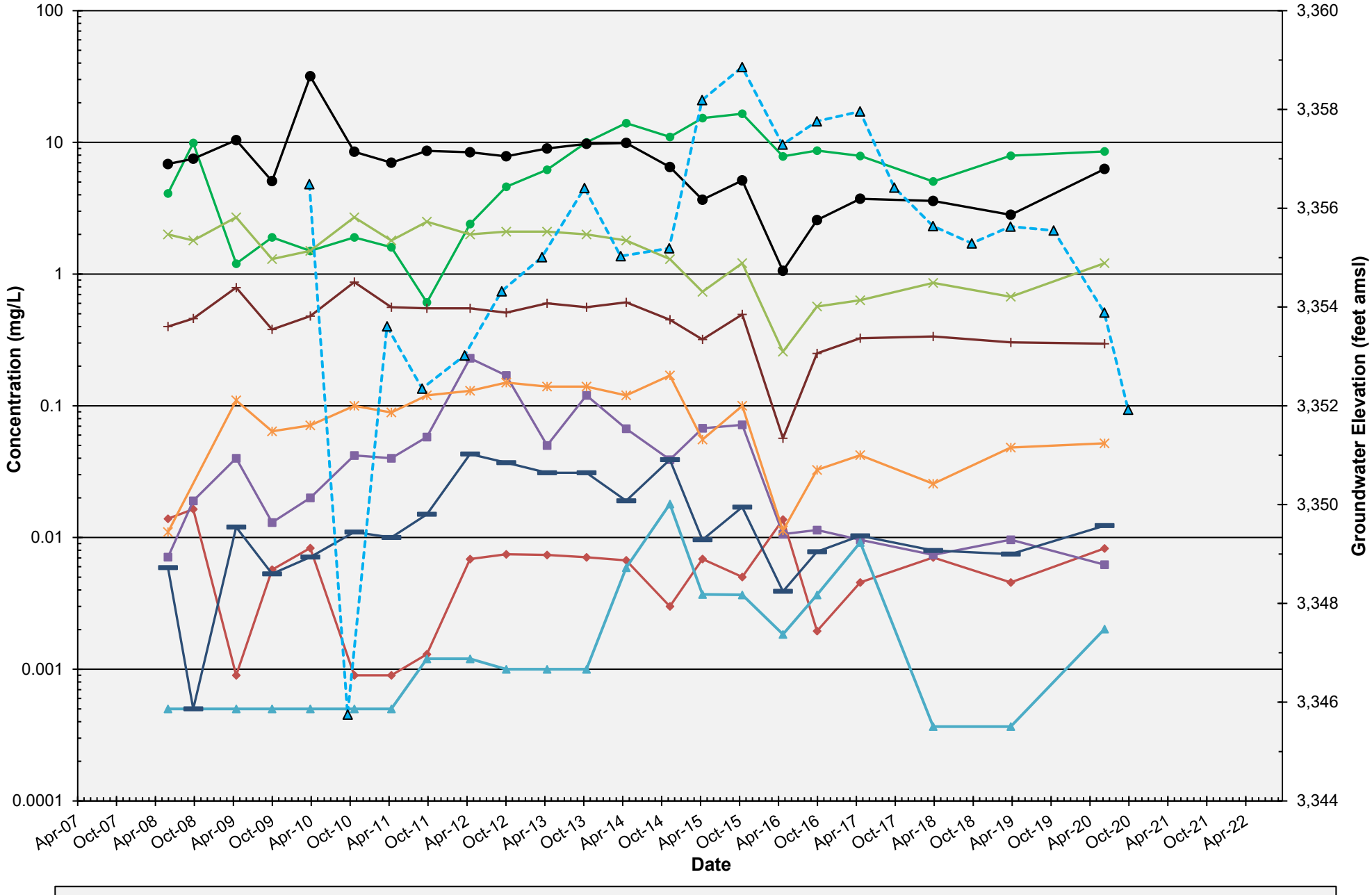


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Received by OCD: 1/9/2025 2:41:44 PM

MW-93: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

North Refinery Area

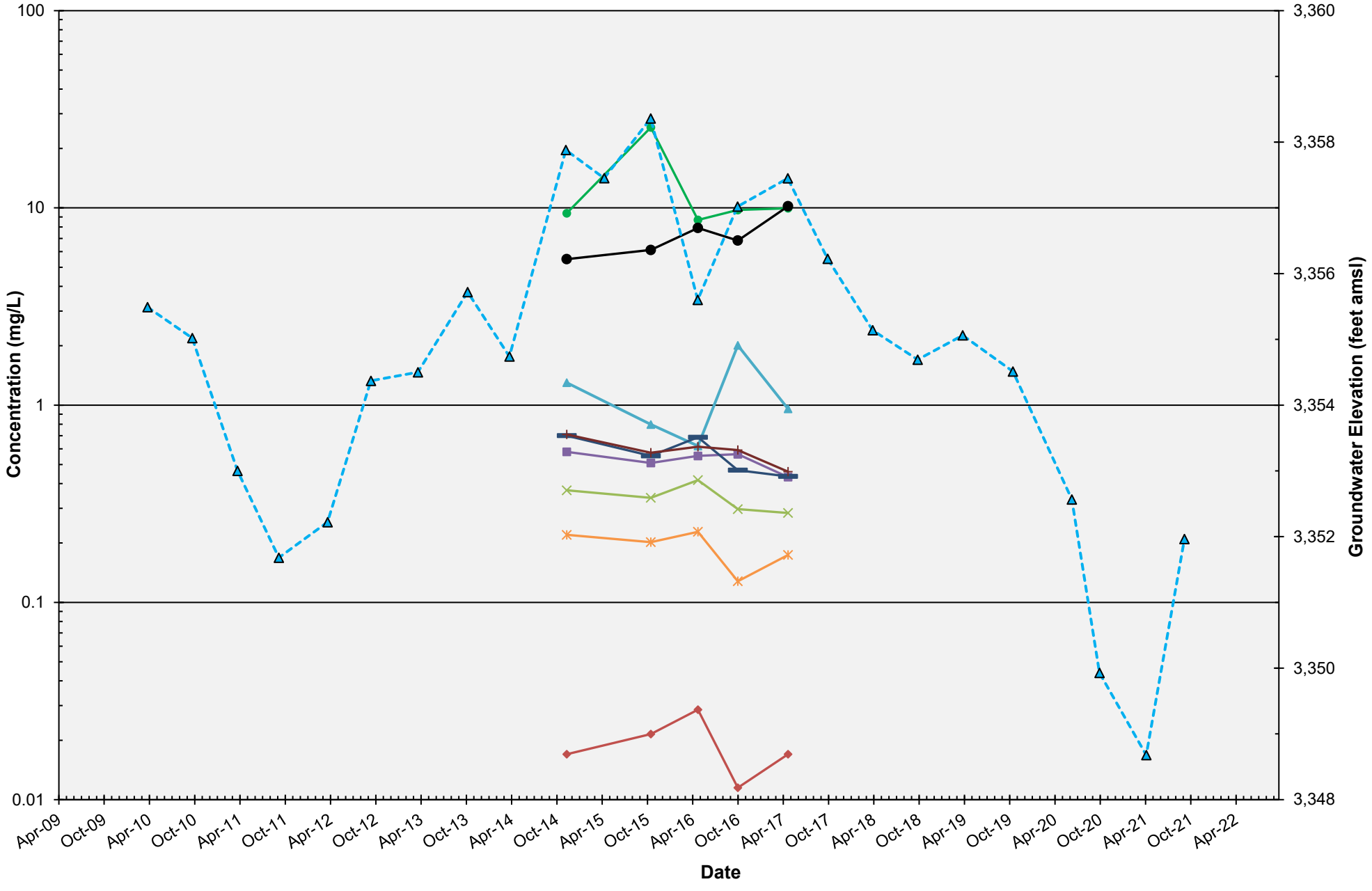


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Received by OCD: 1/9/2025 2:41:44 PM

MW-94: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

North Refinery Area

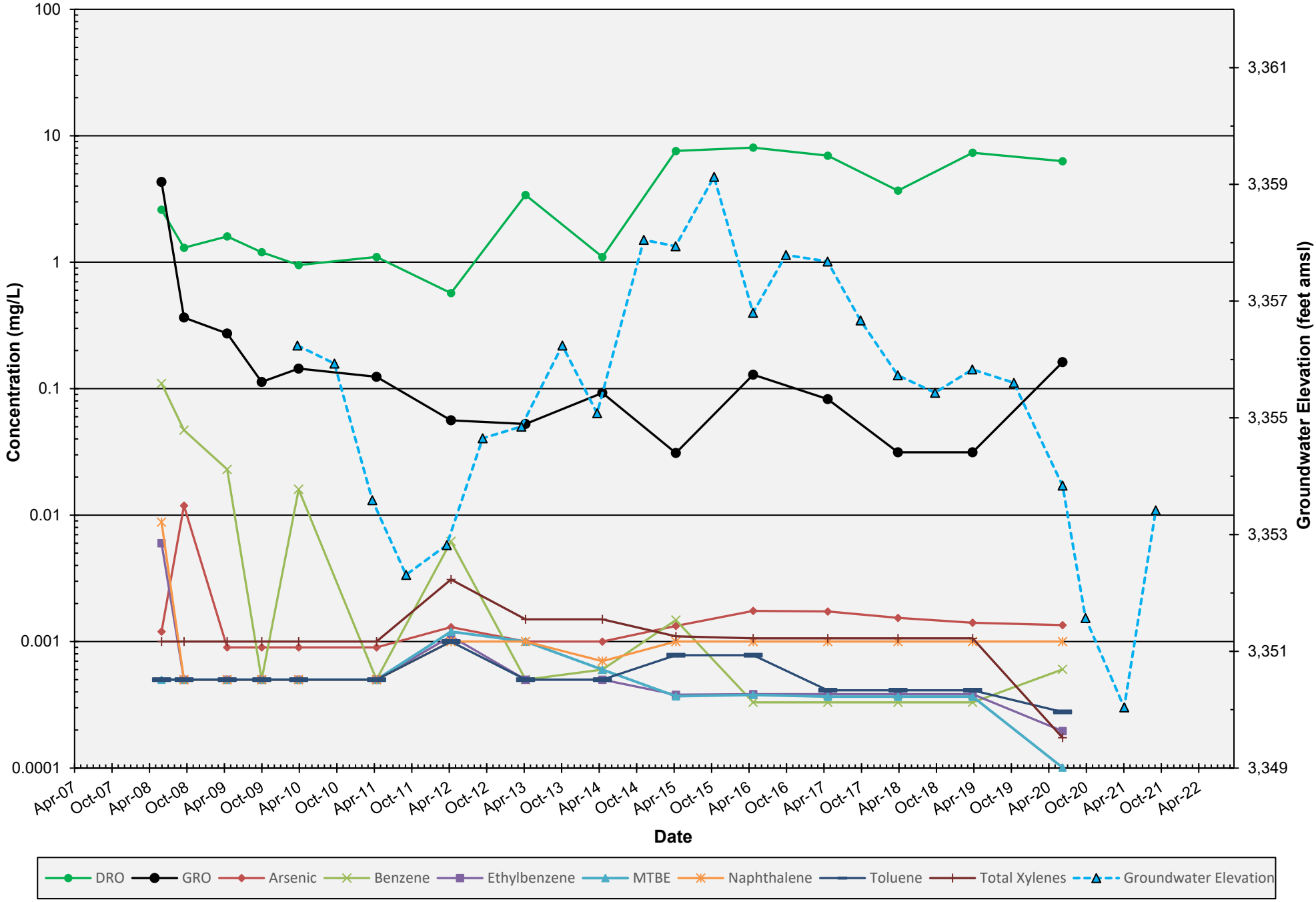


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Received by OCD: 1/9/2025 2:41:44 PM

MW-95: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

North Refinery Area

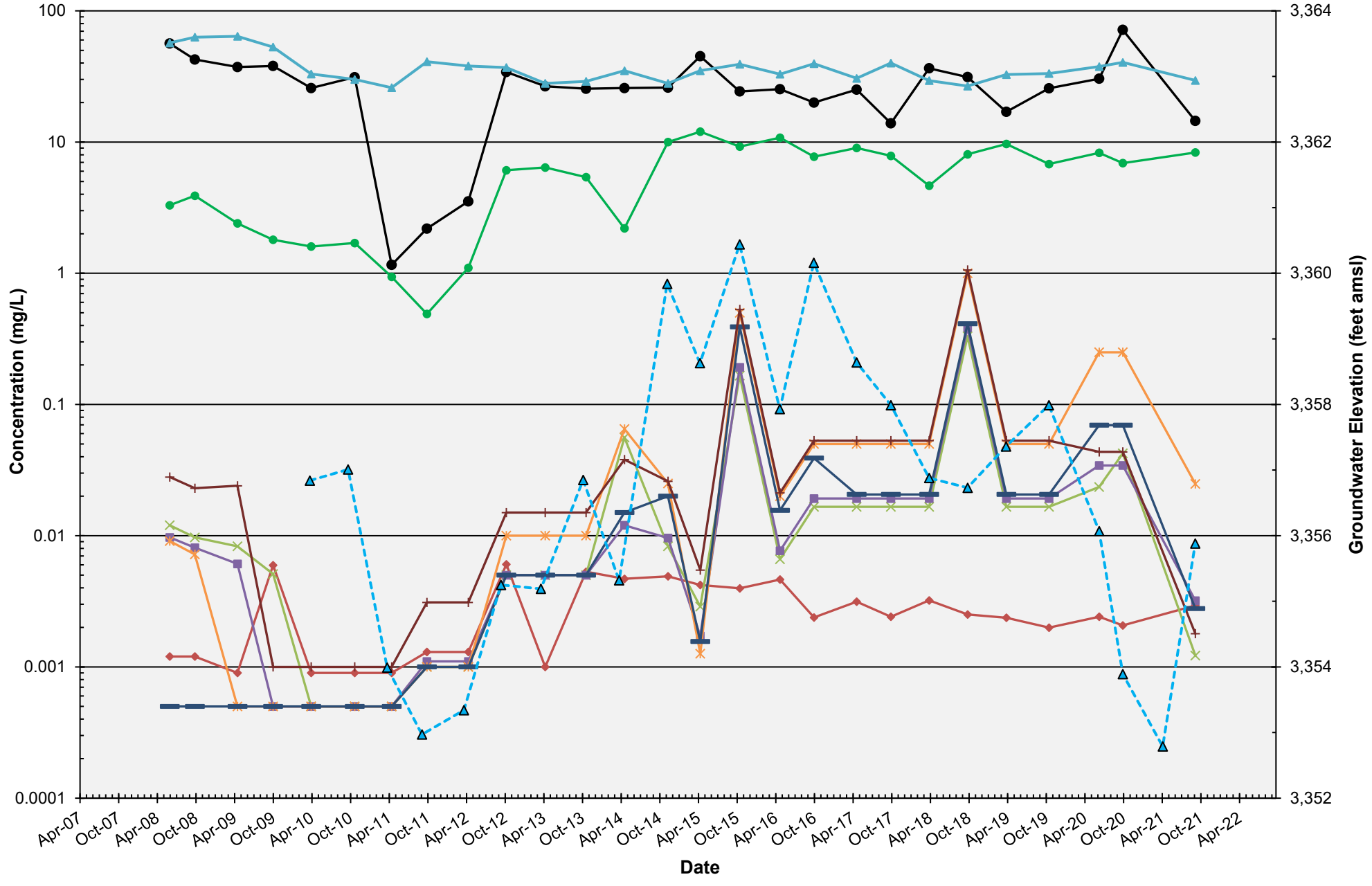


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Received by OCD: 1/9/2025 2:41:44 PM

MW-96: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

North Refinery Area

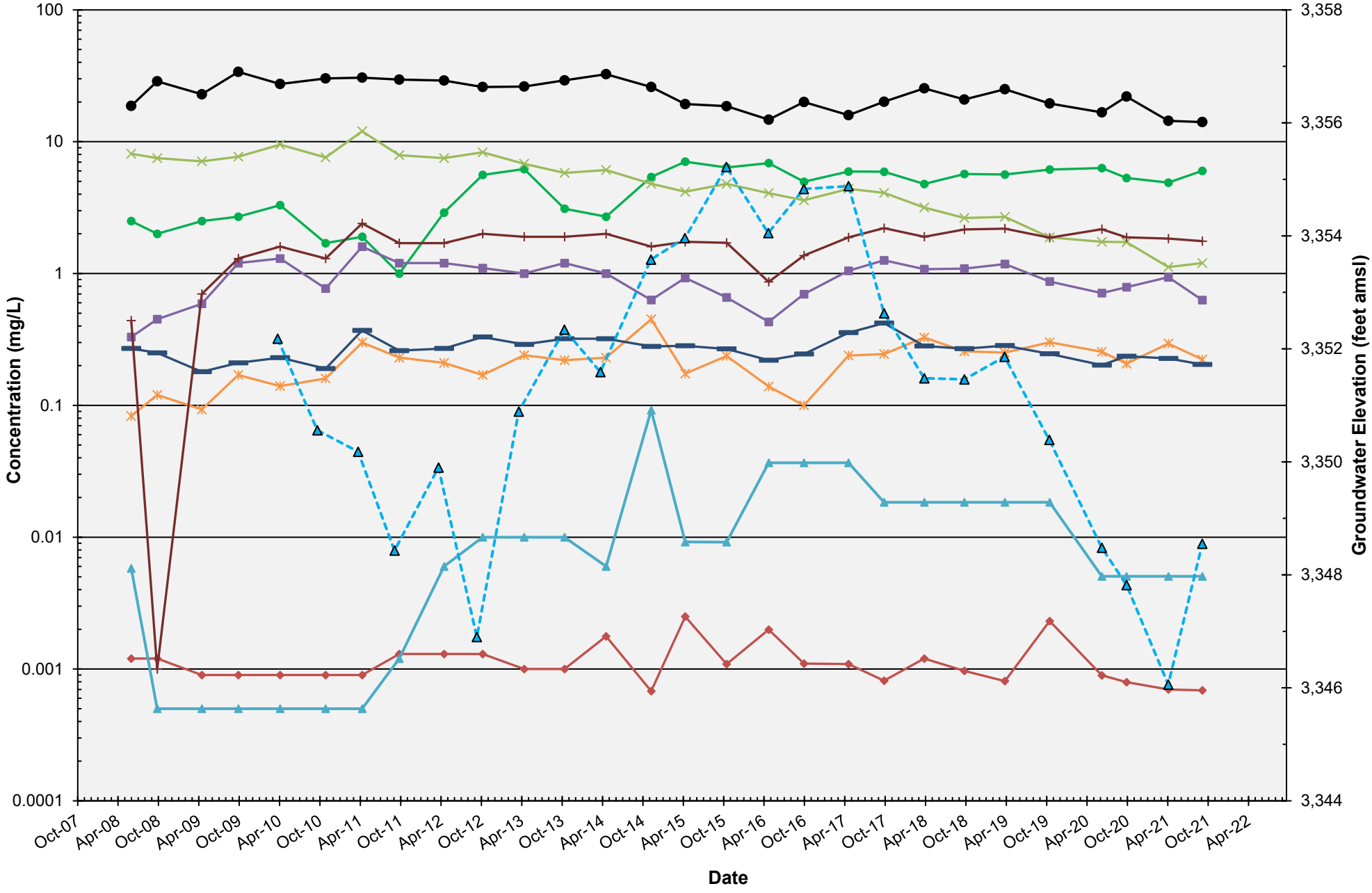


Released to Imaging: 2/7/2025 11:08:22 AM
Received by OCD: 1/9/2025 2:41:44 PM

MW-98: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

North Refinery Area

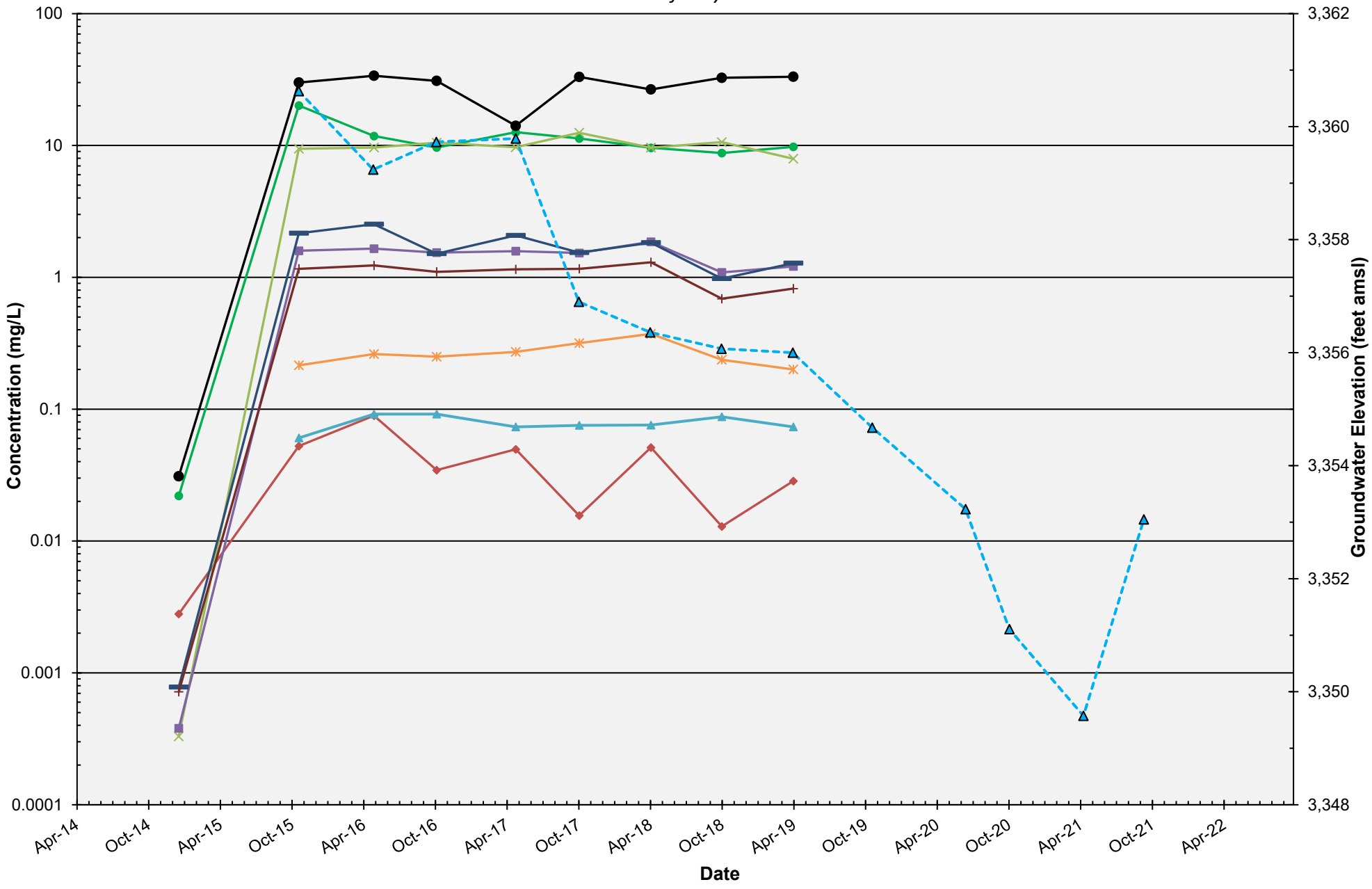


Released to Imaging: 2/7/2025 11:08:22 AM
Received by OCD: 1/9/2025 2:41:44 PM

MW-137: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

North Refinery Area

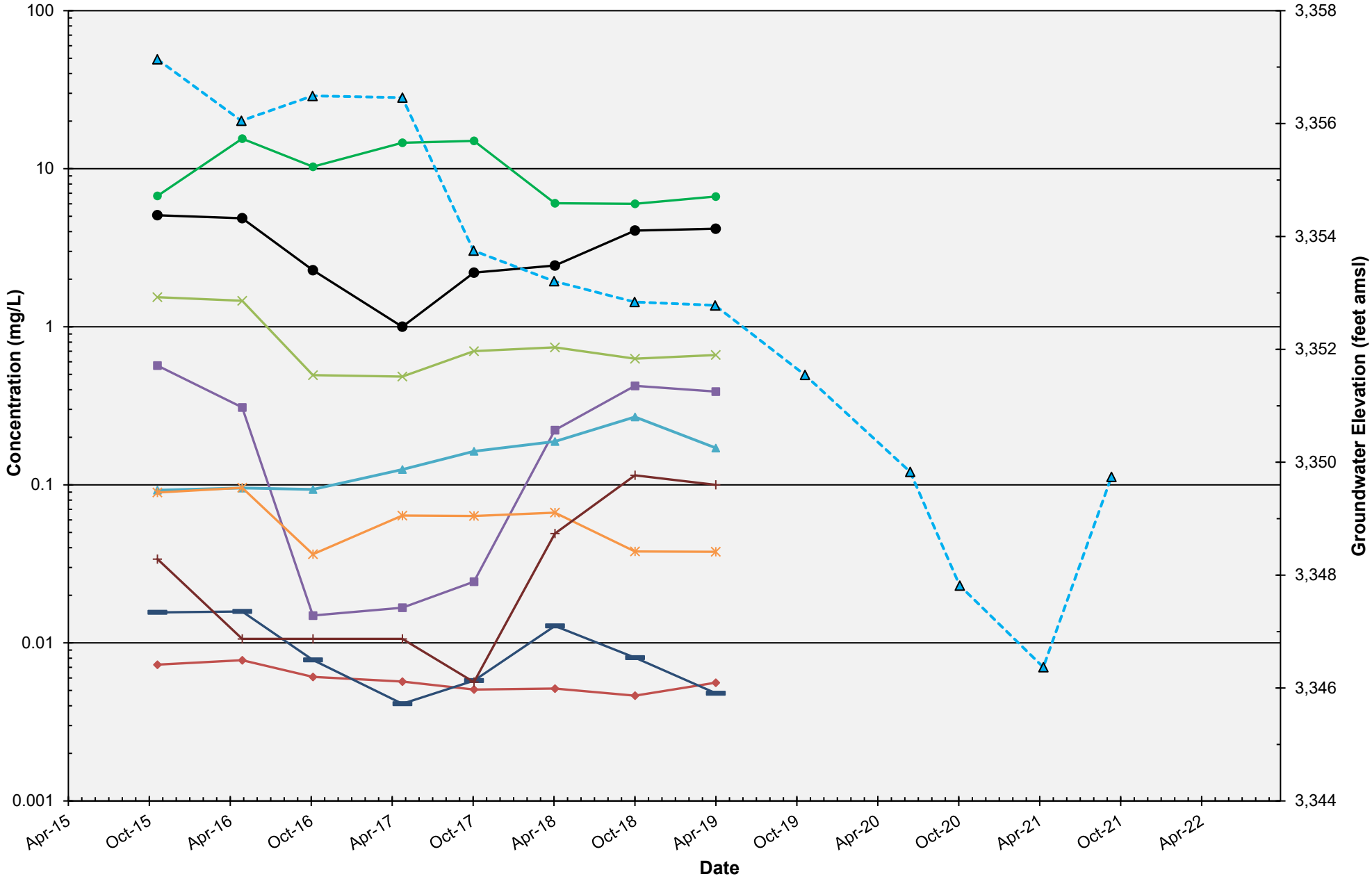


Released to Imaging: 2/7/2025 11:08:22 AM
Received by OCD: 1/9/2025 2:41:44 PM

MW-138: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

North Refinery Area

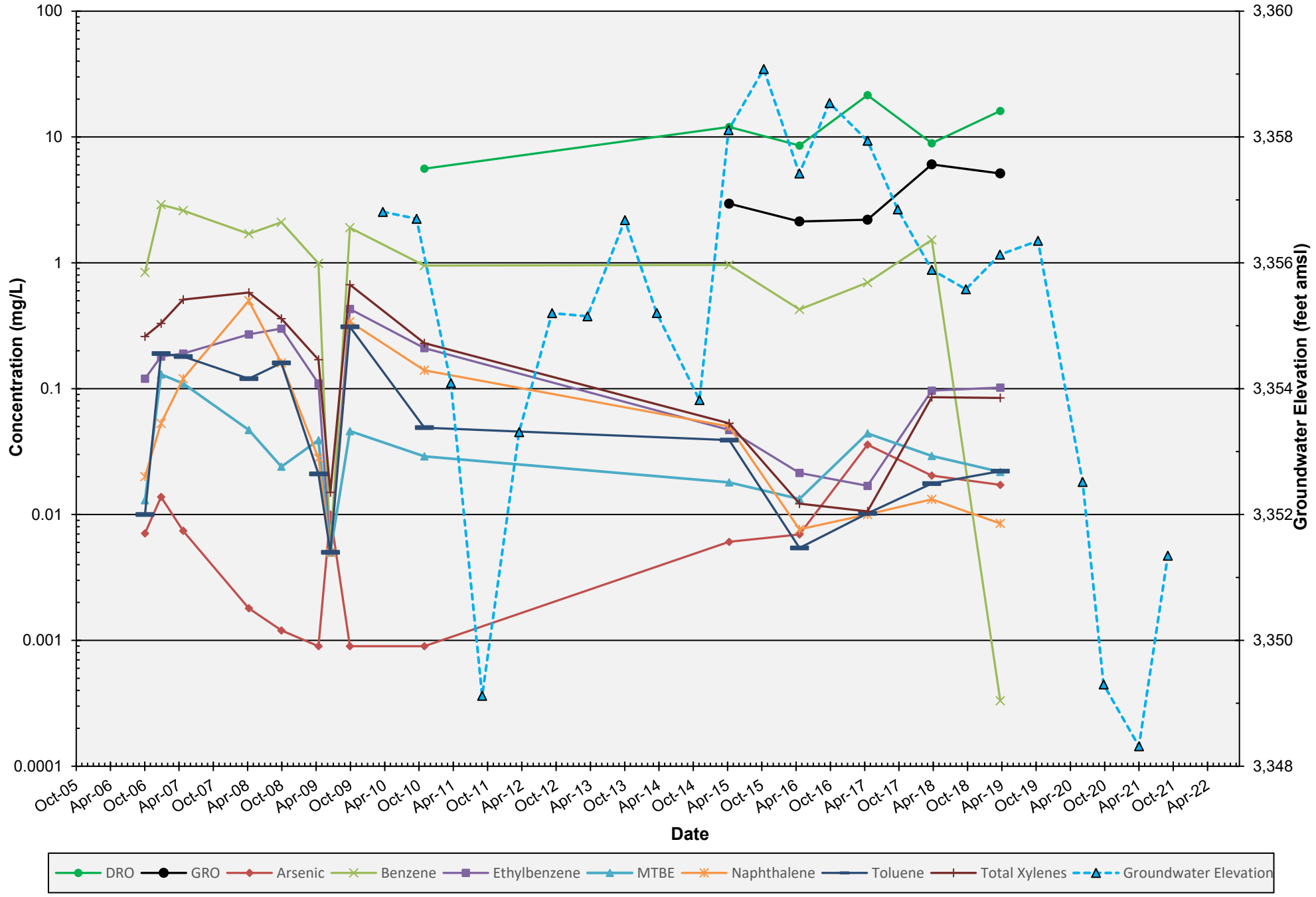


Released to Imaging: 2/7/2025 11:08:22 AM
Received by OCD: 1/9/2025 2:41:44 PM

RW-1: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

North Refinery Area

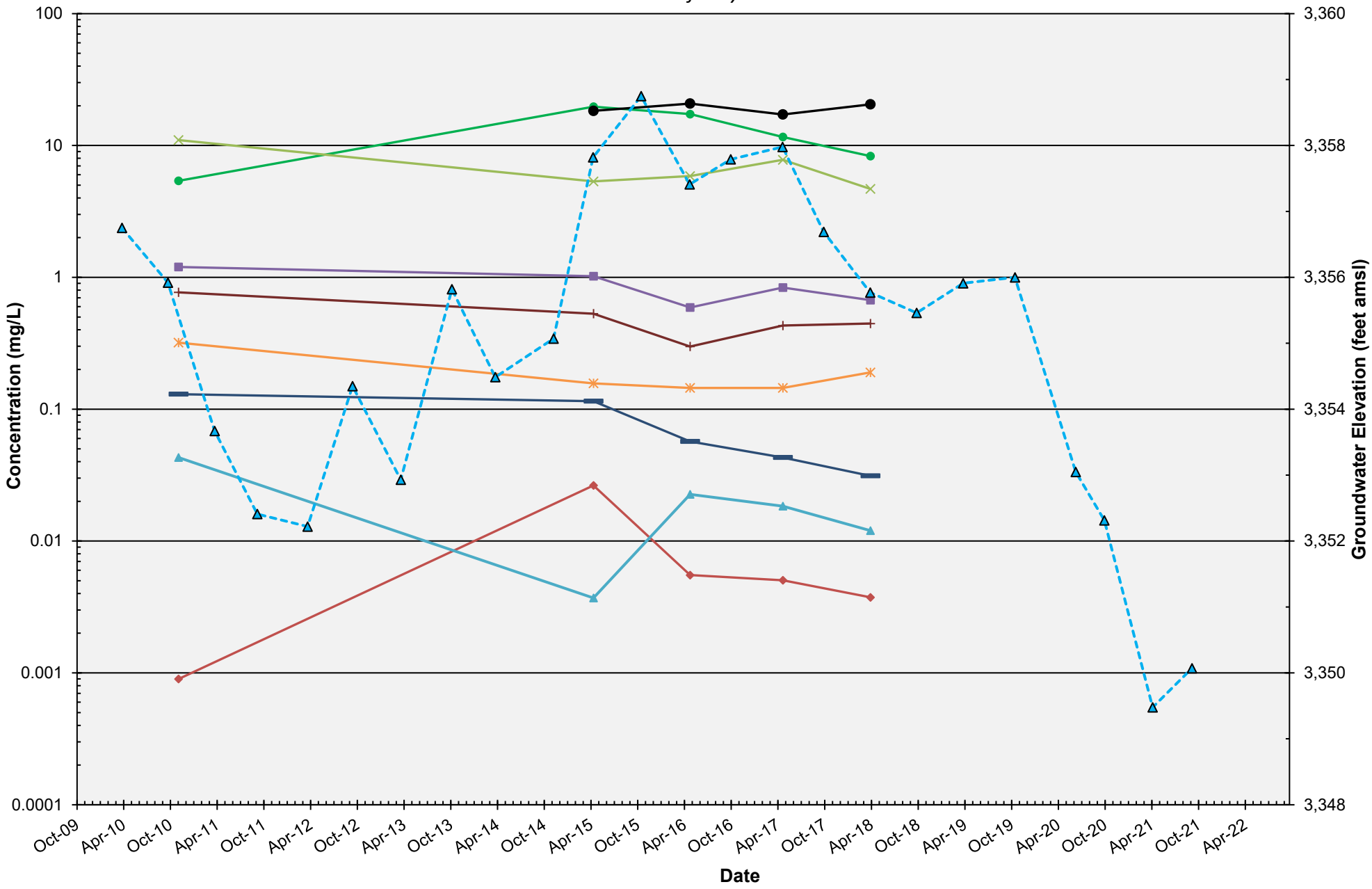


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Received by OCD: 1/9/2025 2:41:44 PM

RW-2: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

North Refinery Area

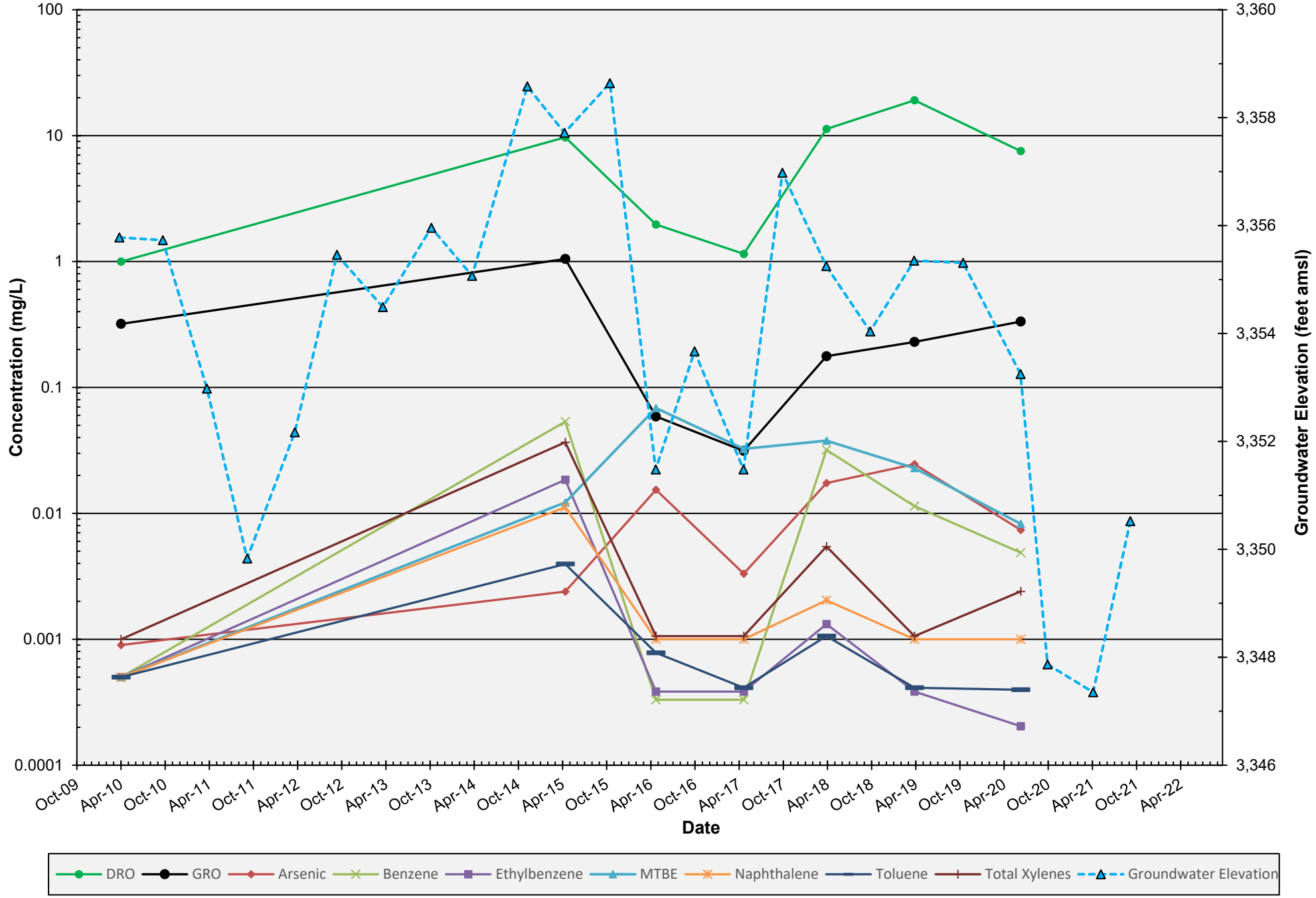


Released to Imaging: 2/7/2025 11:08:22 AM
Received by OCD: 1/9/2025 2:41:44 PM

RW-7: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

North Refinery Area

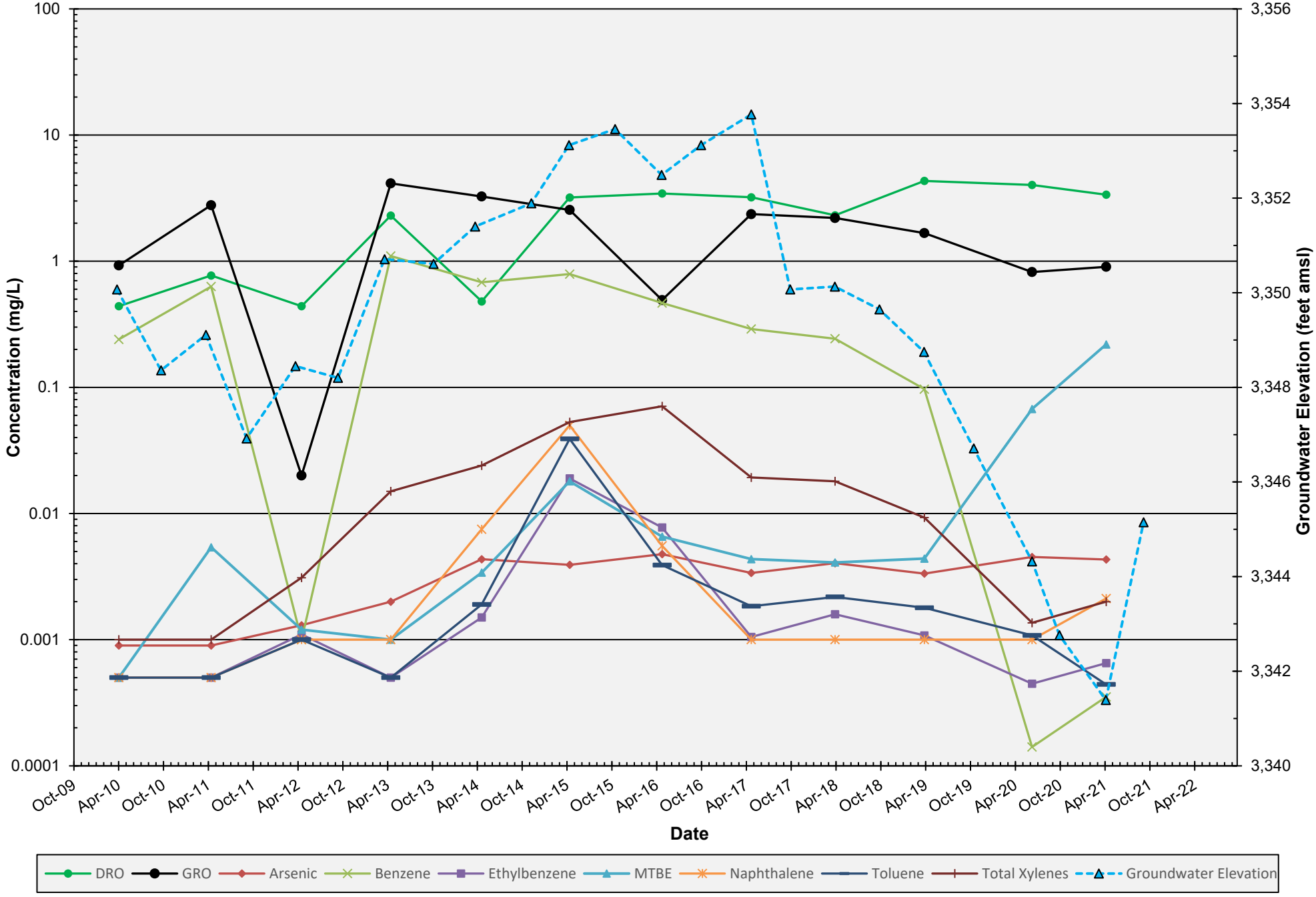


Released to Imaging: 2/7/2025 11:08:22 AM
Received by OCD: 1/9/2025 2:41:44 PM

RW-9: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

North Refinery Area

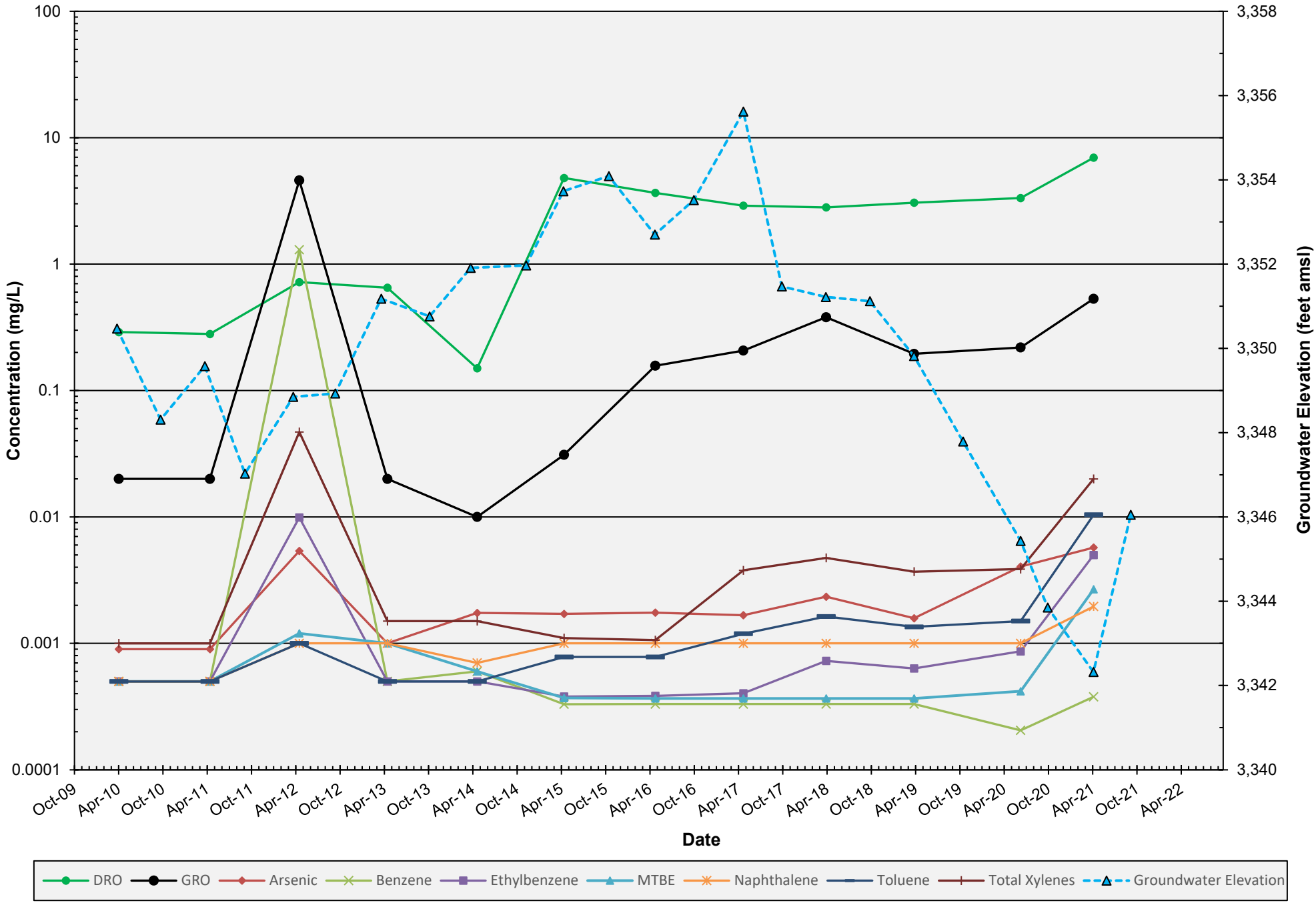


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Received by OCD: 1/9/2025 2:41:44 PM

RW-10: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

North Refinery Area

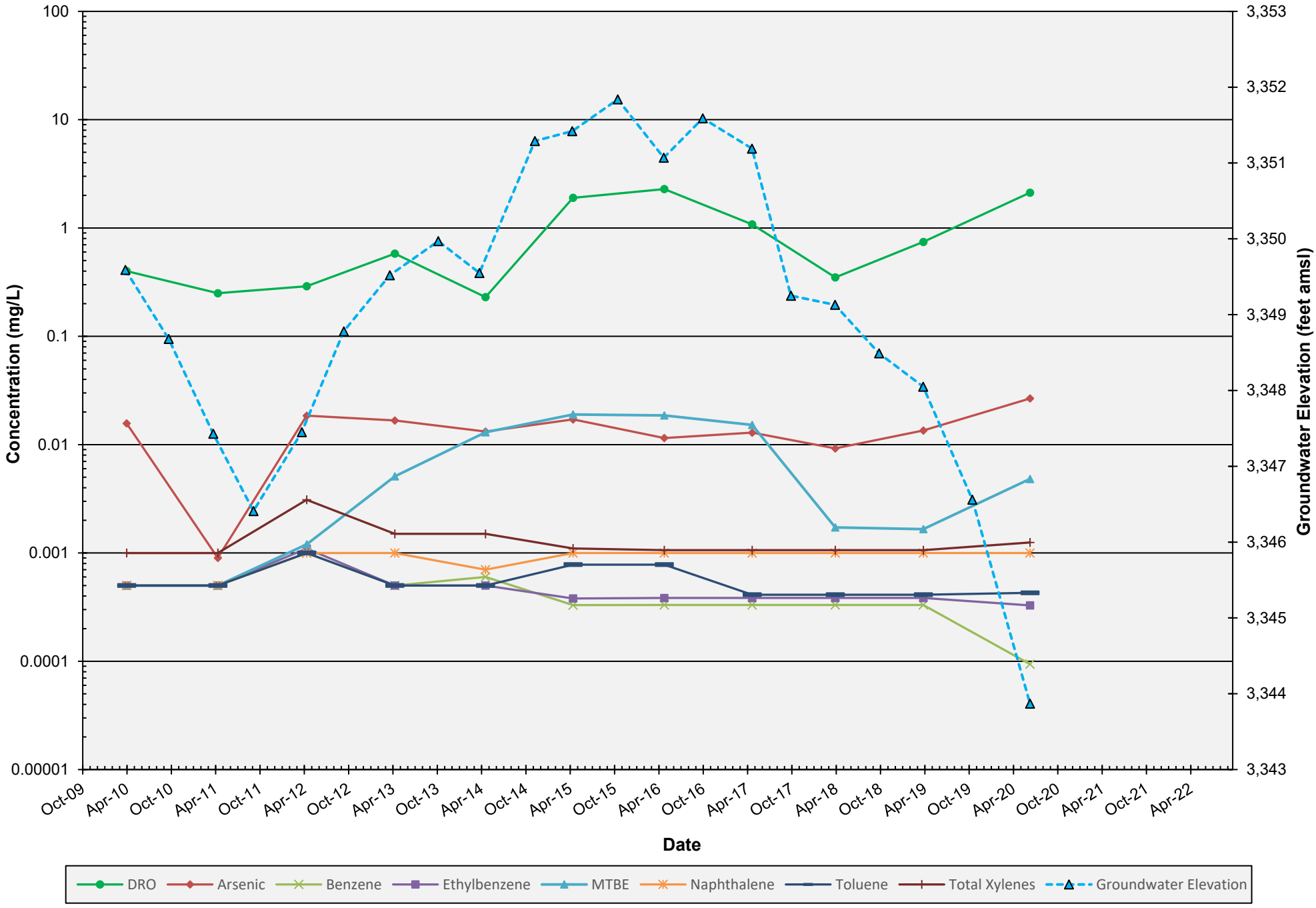


Released to Imaging: 2/7/2025 11:08:22 AM
Received by OCD: 1/9/2025 2:41:44 PM

RW-16: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

North Refinery Area

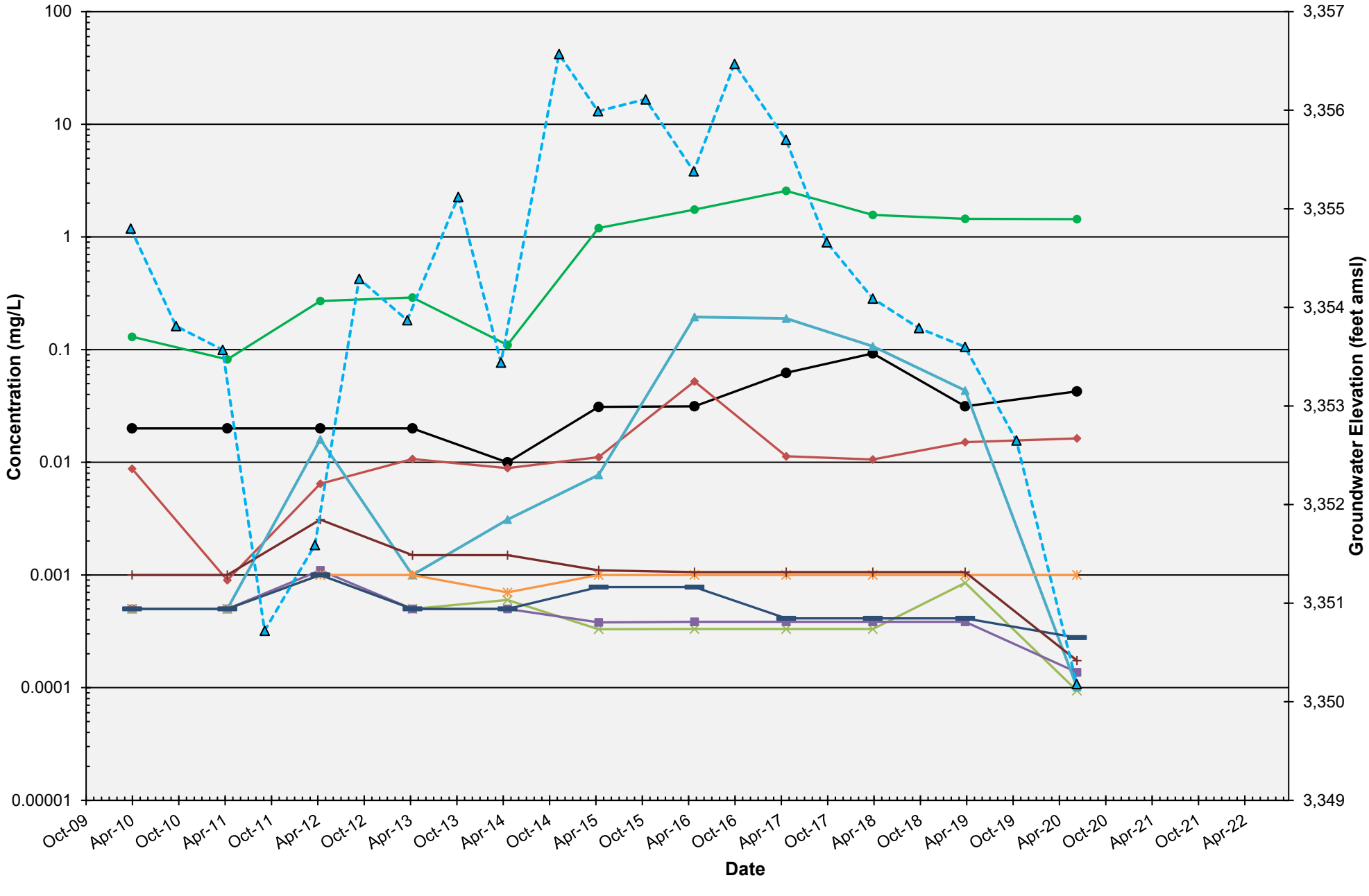


Released to Imaging: 2/7/2025 11:08:22 AM
Received by OCD: 1/9/2025 2:41:44 PM

RW-17: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

North Refinery Area

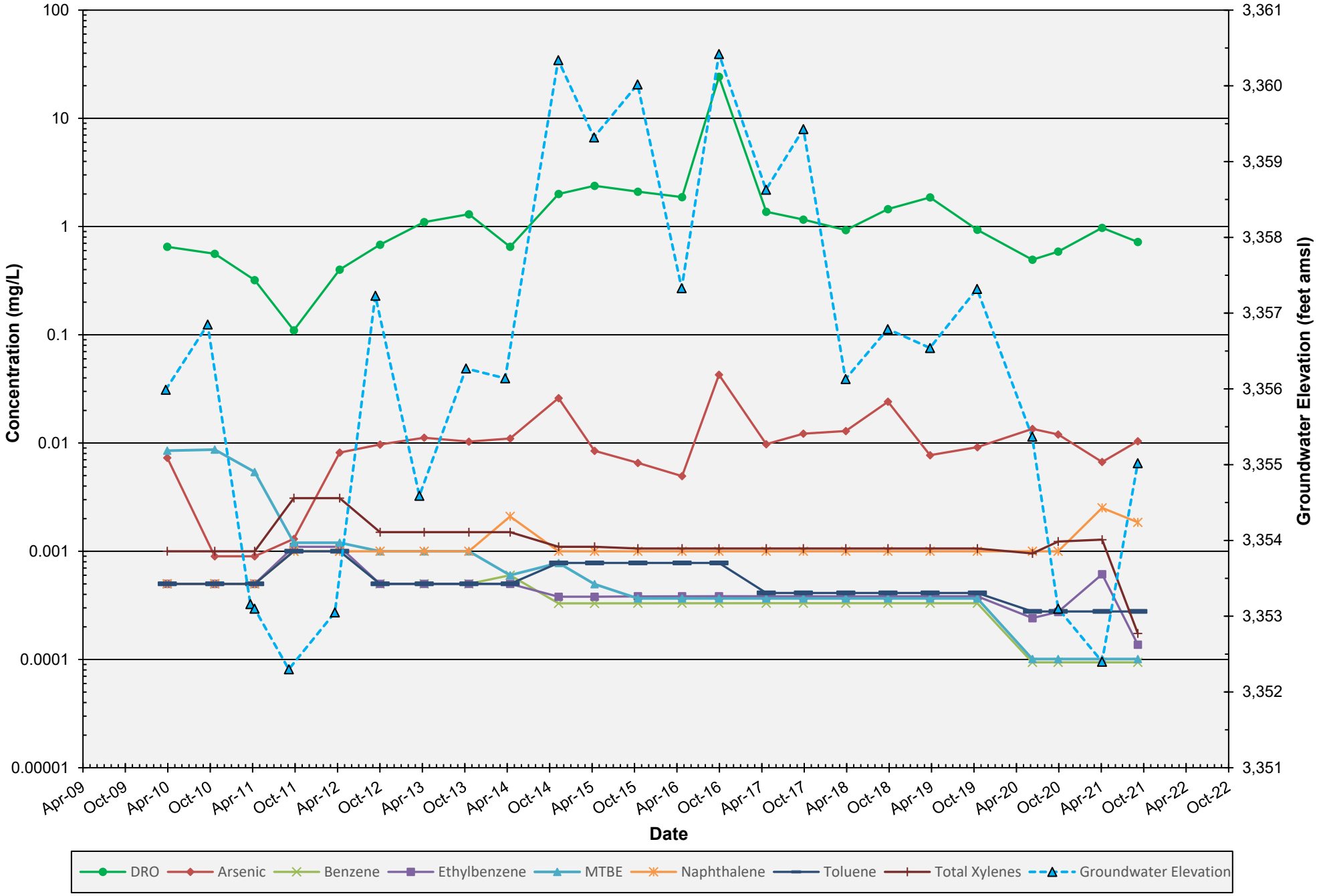


Released to Imaging: 2/7/2025 11:08:22 AM
Received by OCD: 1/9/2025 2:41:44 PM

NCL-31: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

North Colony Landfarm

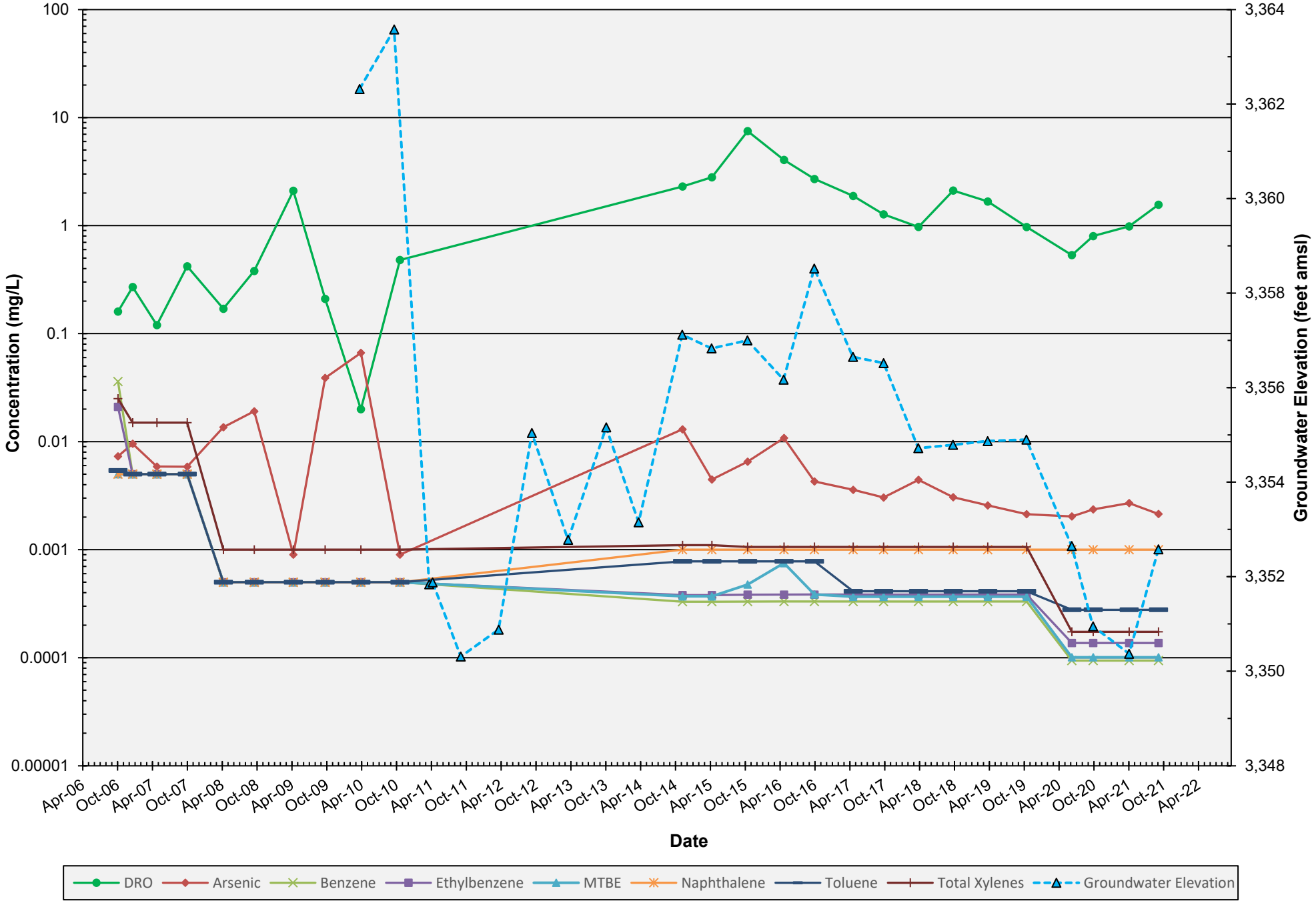


Released to Imaging: 2/7/2025 11:08:22 AM
Received by OCD: 1/9/2025 2:41:44 PM

NCL-32: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

North Colony Landfarm

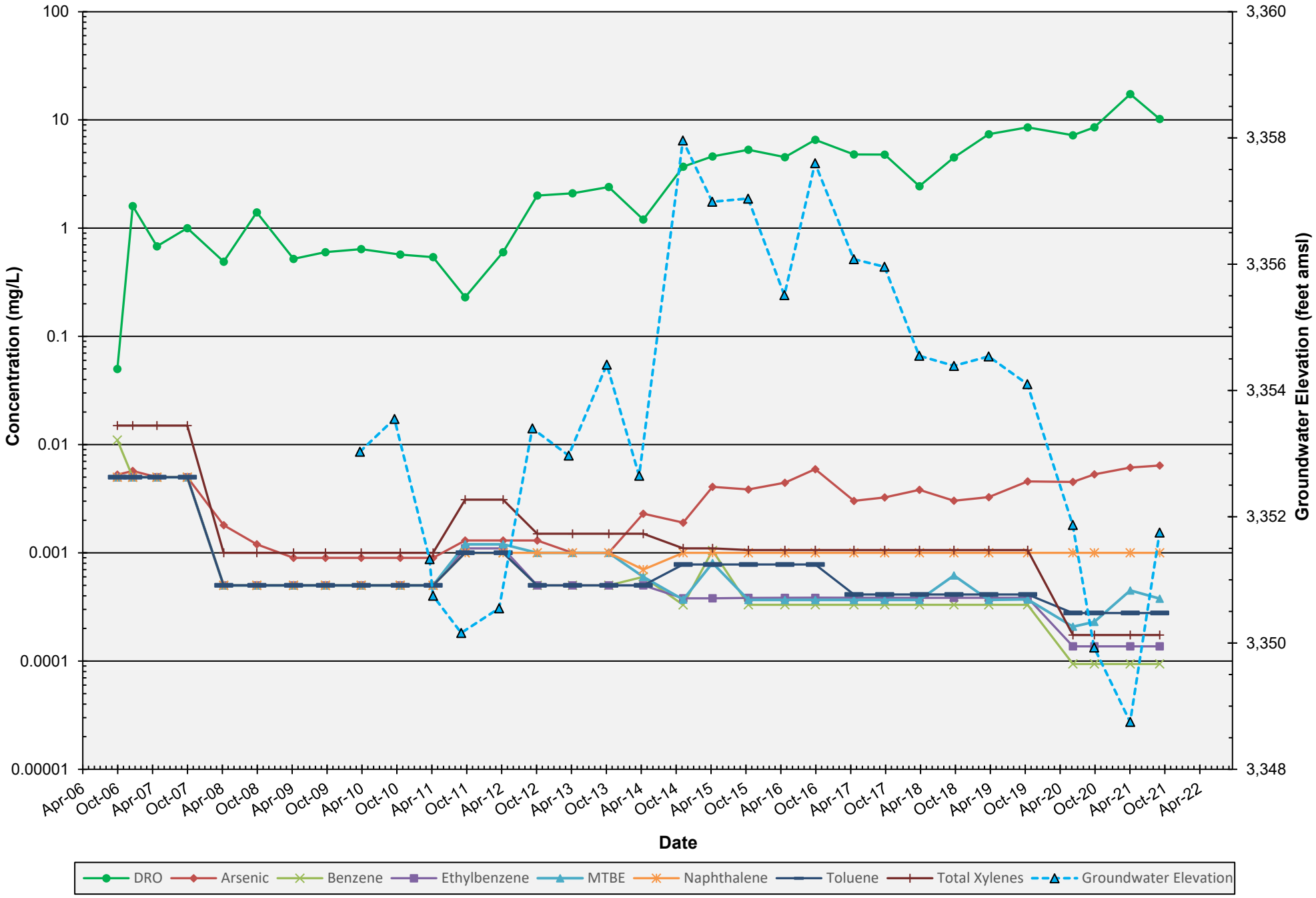


Released to Imaging: 2/7/2025 11:08:22 AM
Received by OCD: 1/9/2025 2:41:44 PM

NCL-33: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

North Colony Landfarm

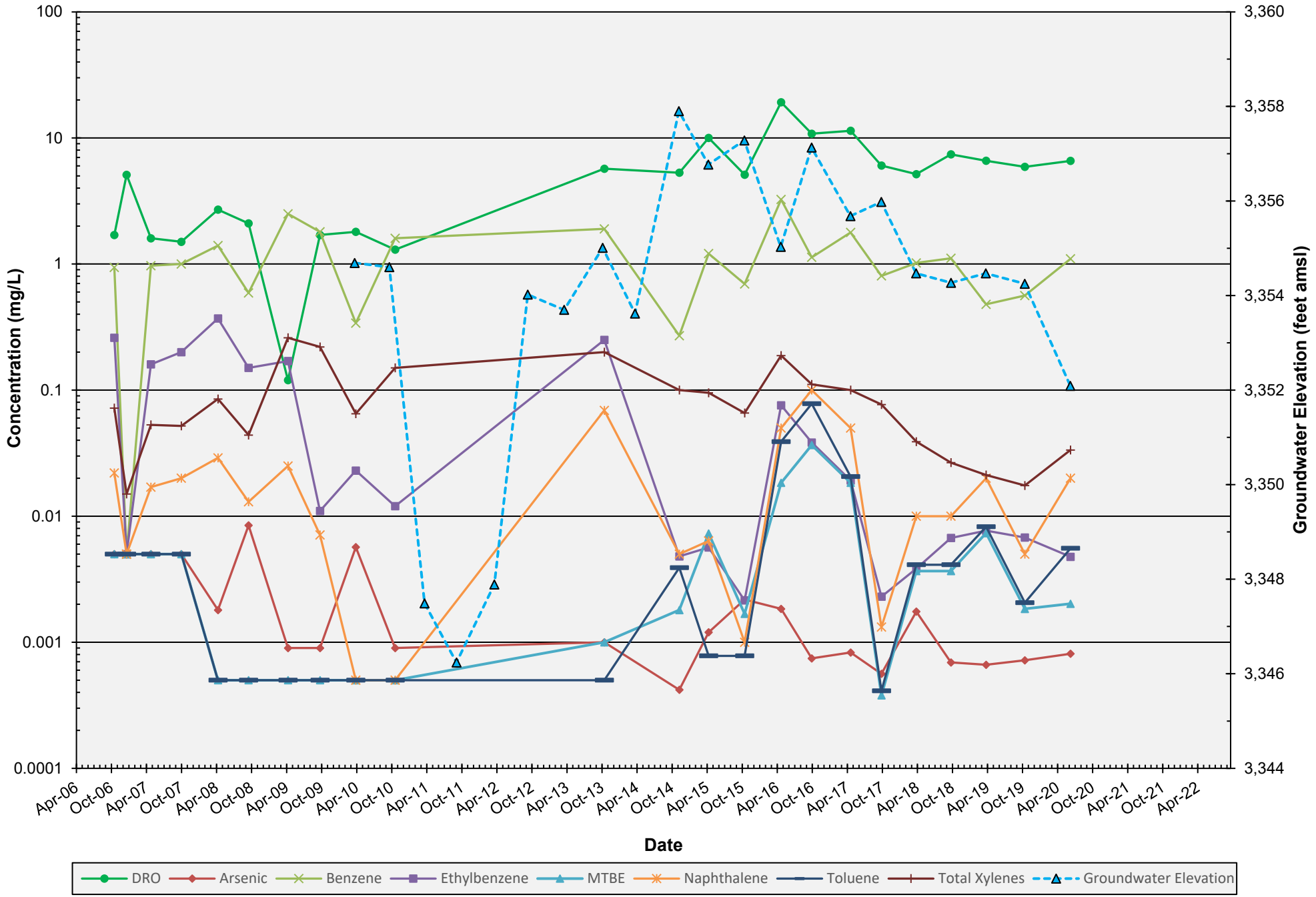


Released to Imaging: 2/7/2025 11:08:22 AM
Received by OCD: 1/9/2025 2:41:44 PM

NCL-34A: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

North Colony Landfarm

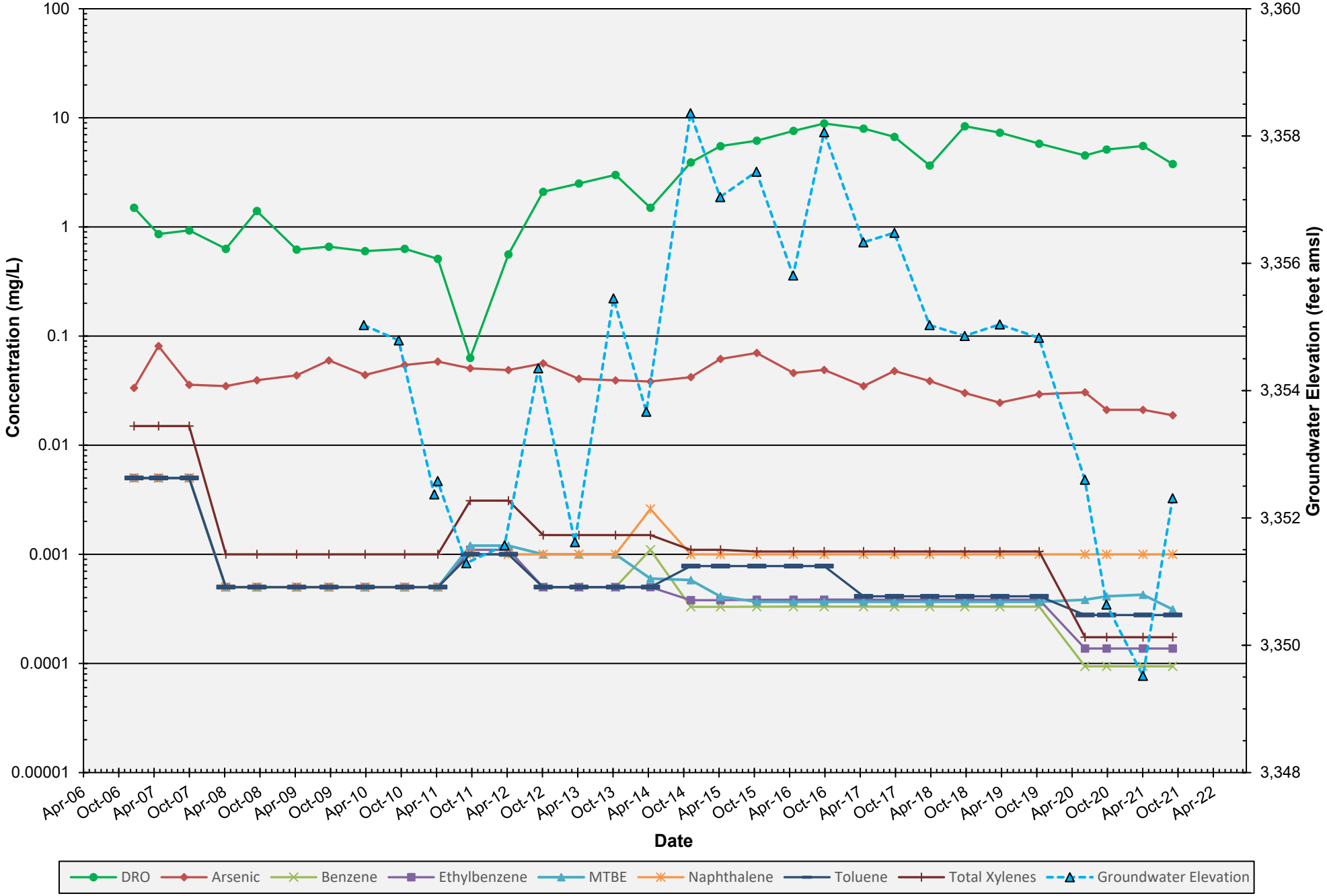


Released to Imaging: 2/7/2025 11:08:22 AM
Received by OCD: 1/9/2025 2:41:44 PM

NCL-44: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

North Colony Landfarm

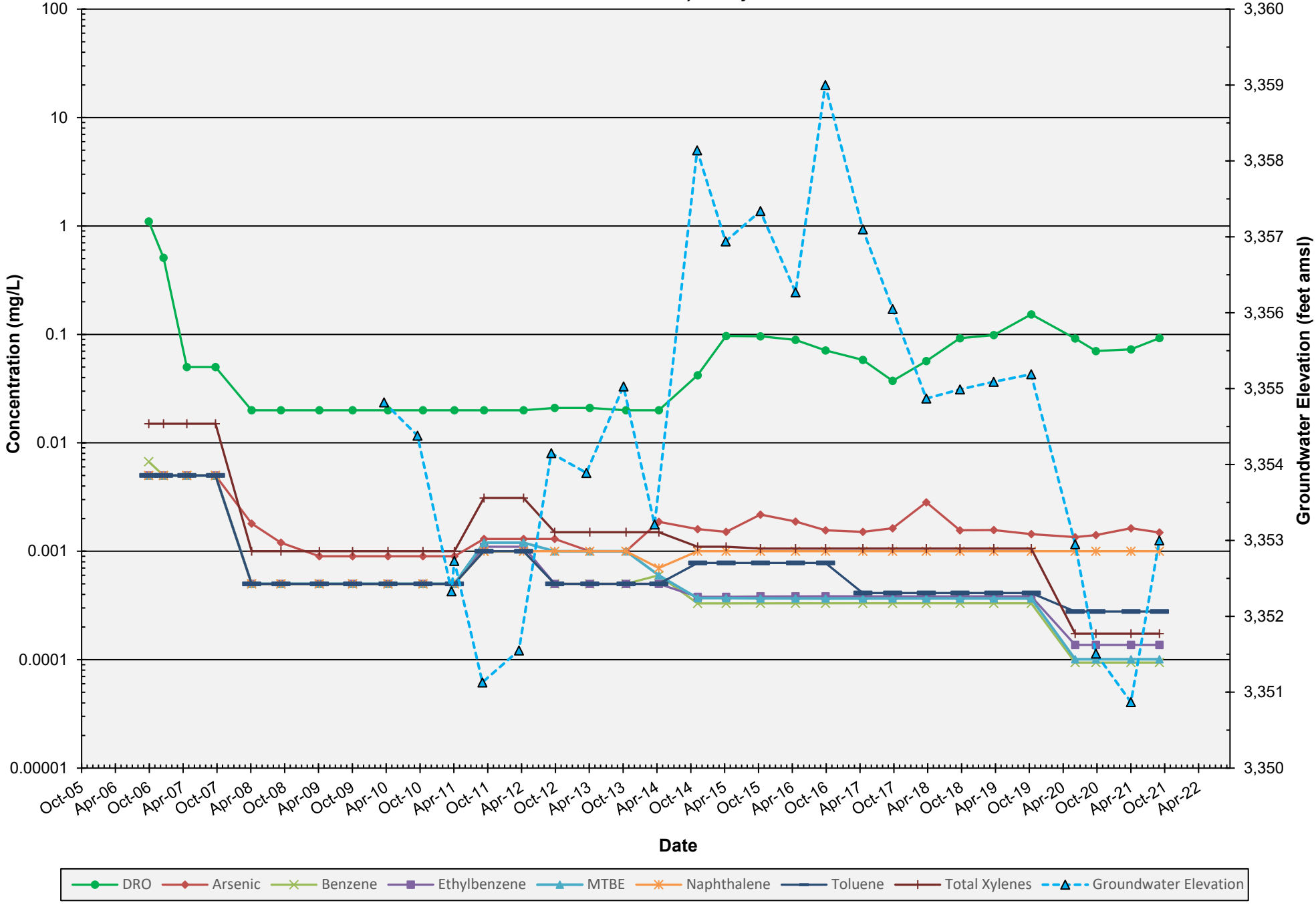


Released to Imaging: 2/7/2025 11:08:22 AM
Received by OCD: 1/9/2025 2:41:44 PM

NCL-49: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

North Colony Landfarm

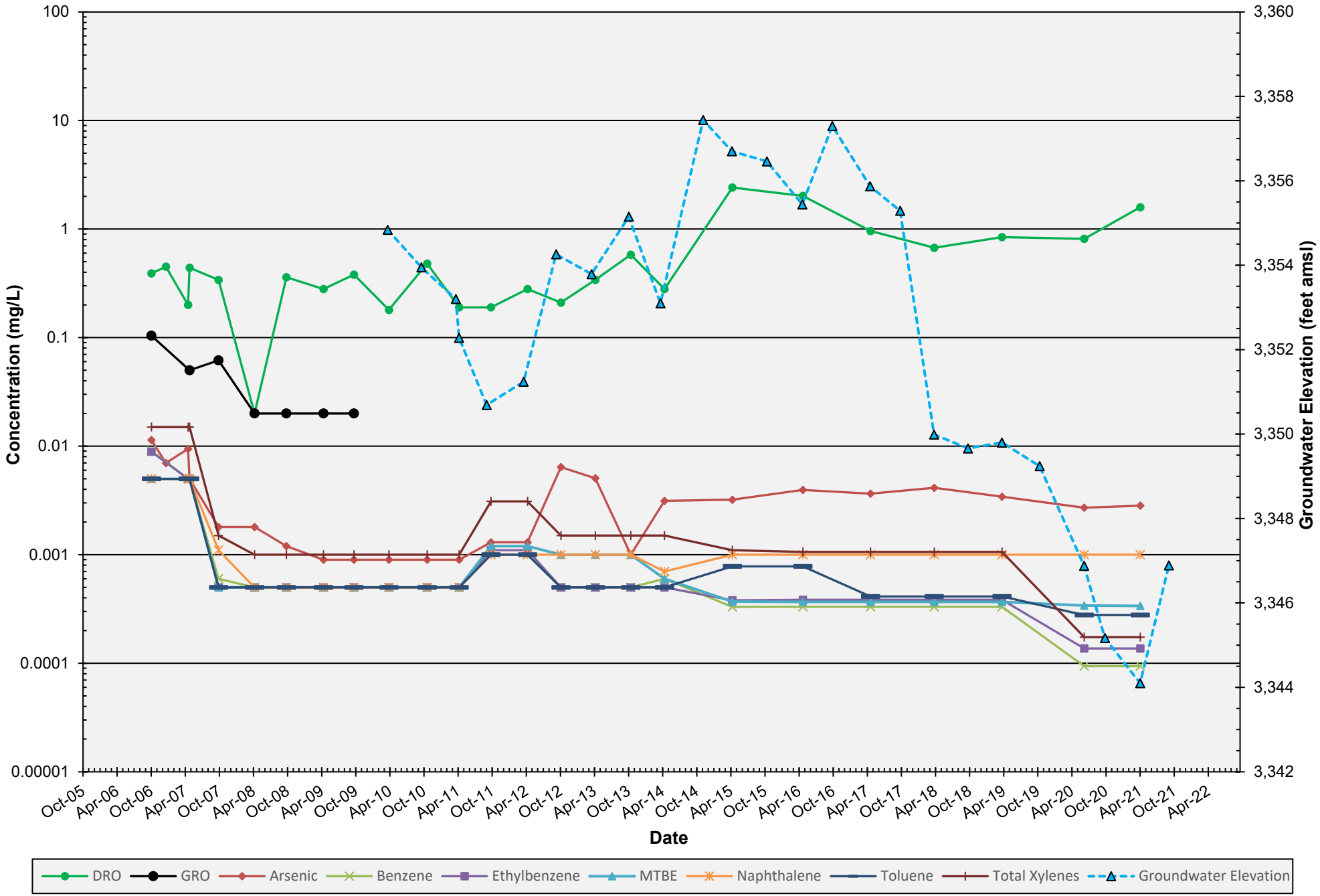


Released to Imaging: 2/7/2025 11:08:22 AM
Received by OCD: 1/9/2025 2:41:44 PM

MW-18: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

North Colony Landfarm

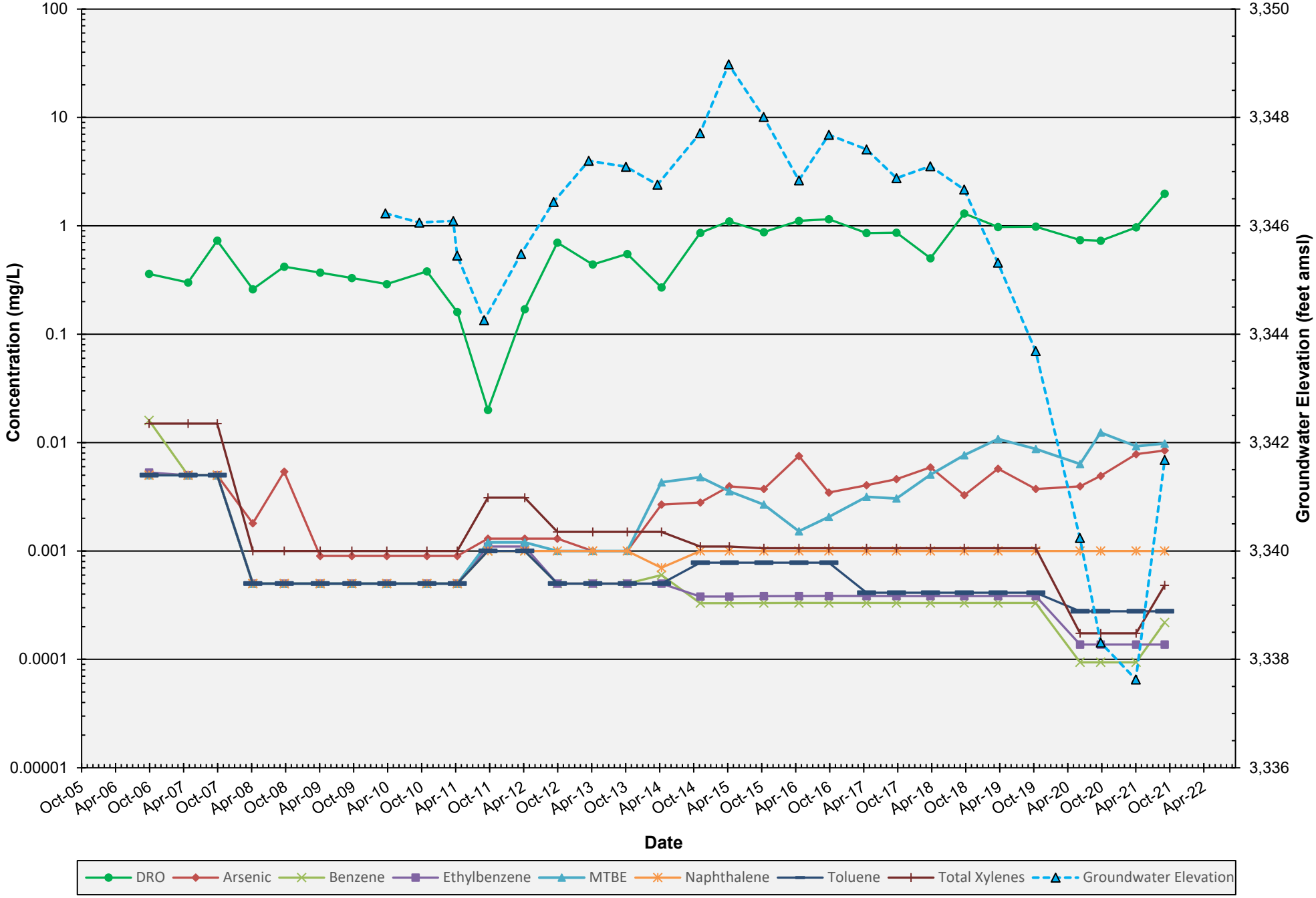


Released to Imaging: 2/7/2025 11:08:22 AM
Received by OCD: 1/9/2025 2:41:44 PM

MW-45: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

North Colony Landfarm

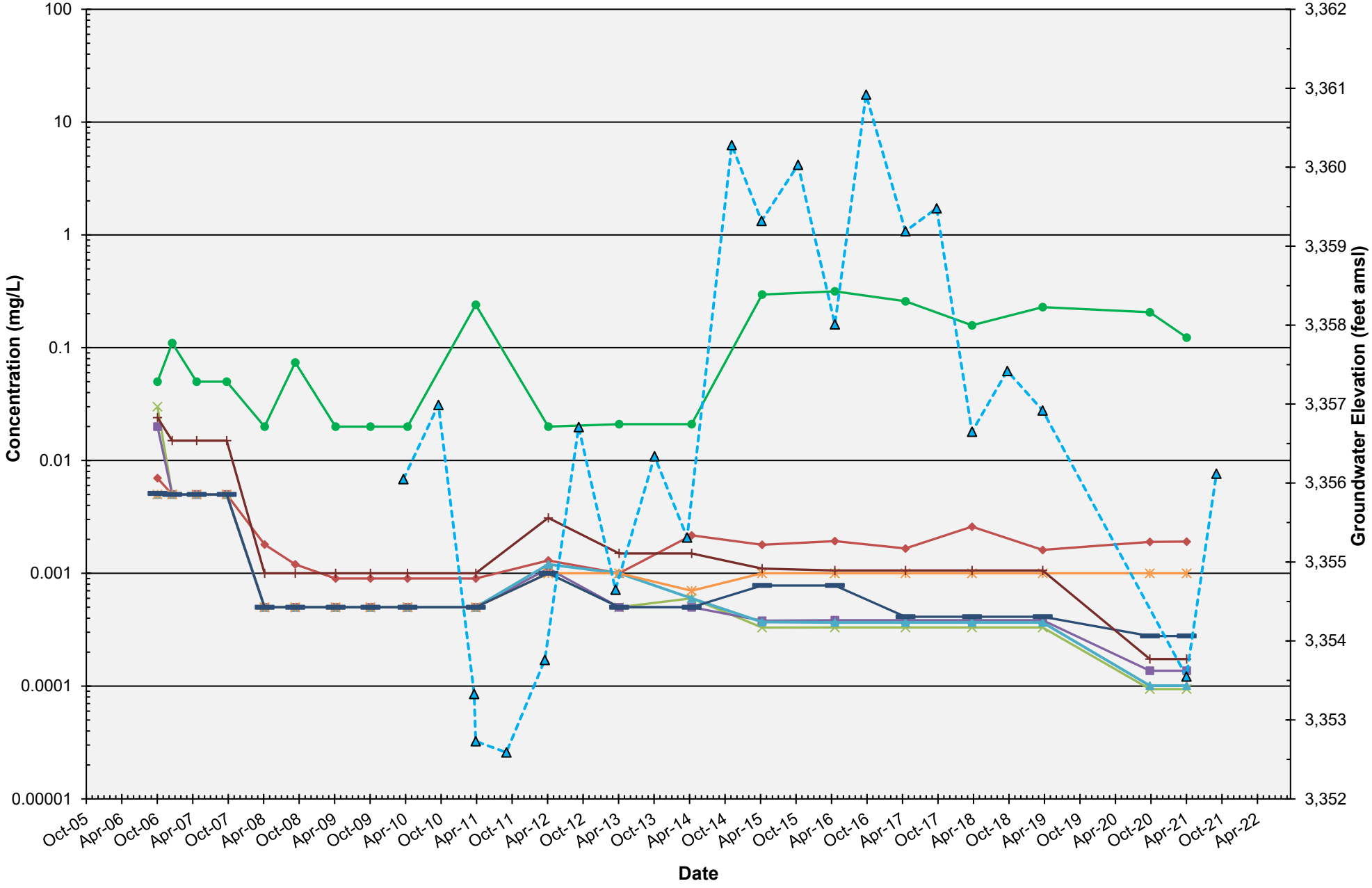


Released to Imaging: 2/7/2025 11:08:22 AM
Received by OCD: 1/9/2025 2:41:44 PM

MW-53/MW-53R: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

North Colony Landfarm

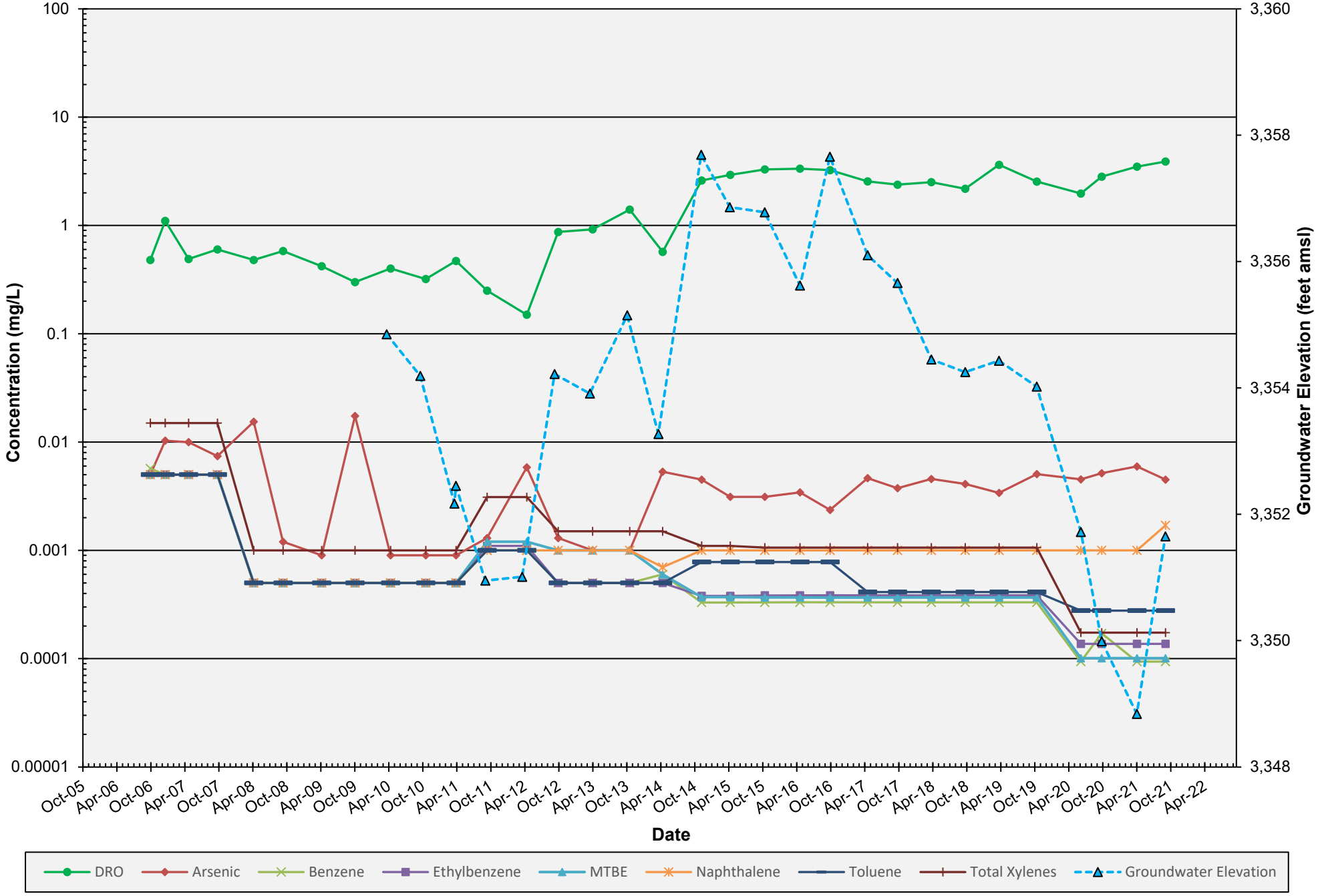


Released to Imaging: 2/7/2025 11:08:22 AM
Received by OCD: 1/9/2025 2:41:44 PM

MW-54A: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

North Colony Landfarm

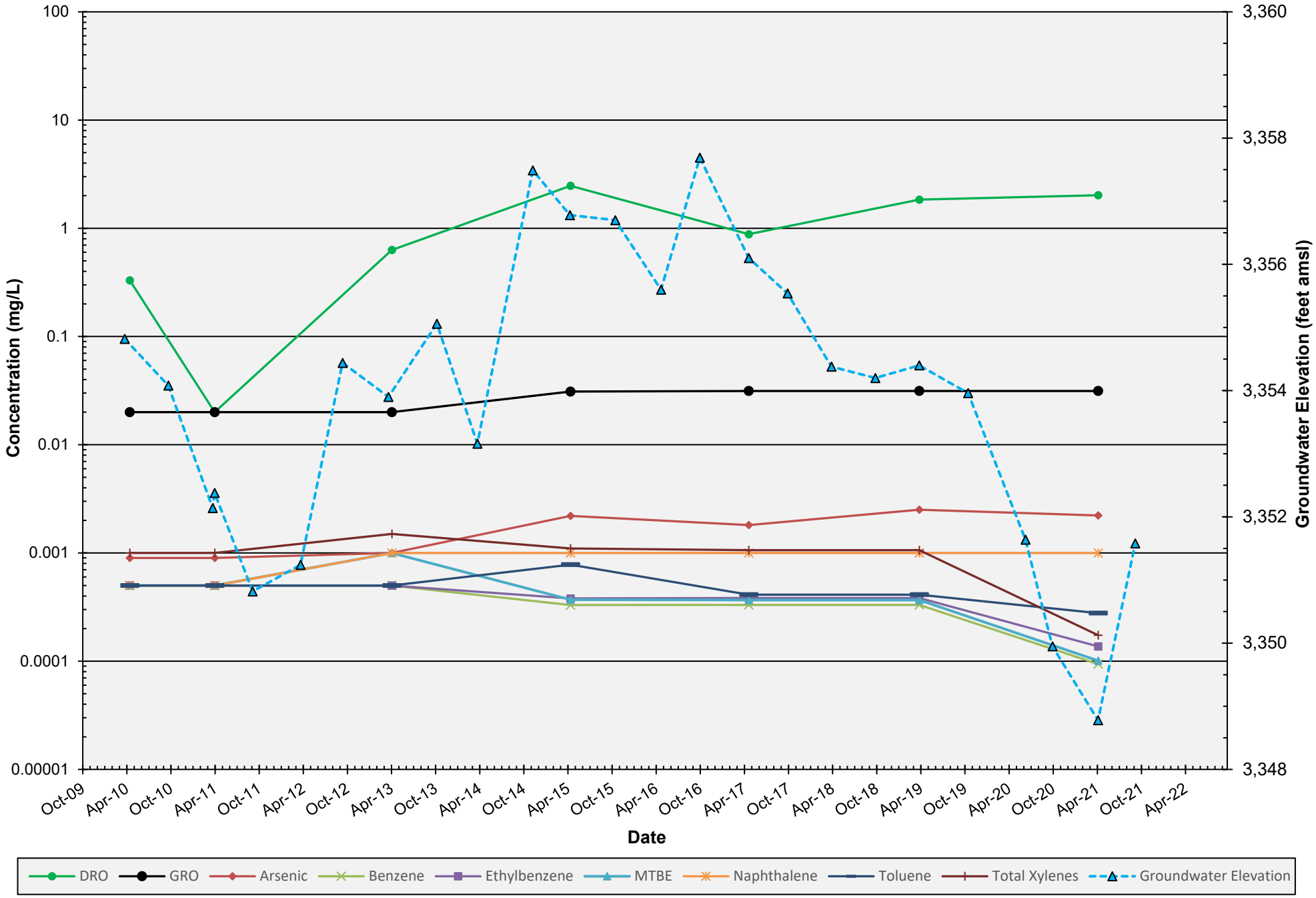


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MW-54B: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

North Colony Landfarm

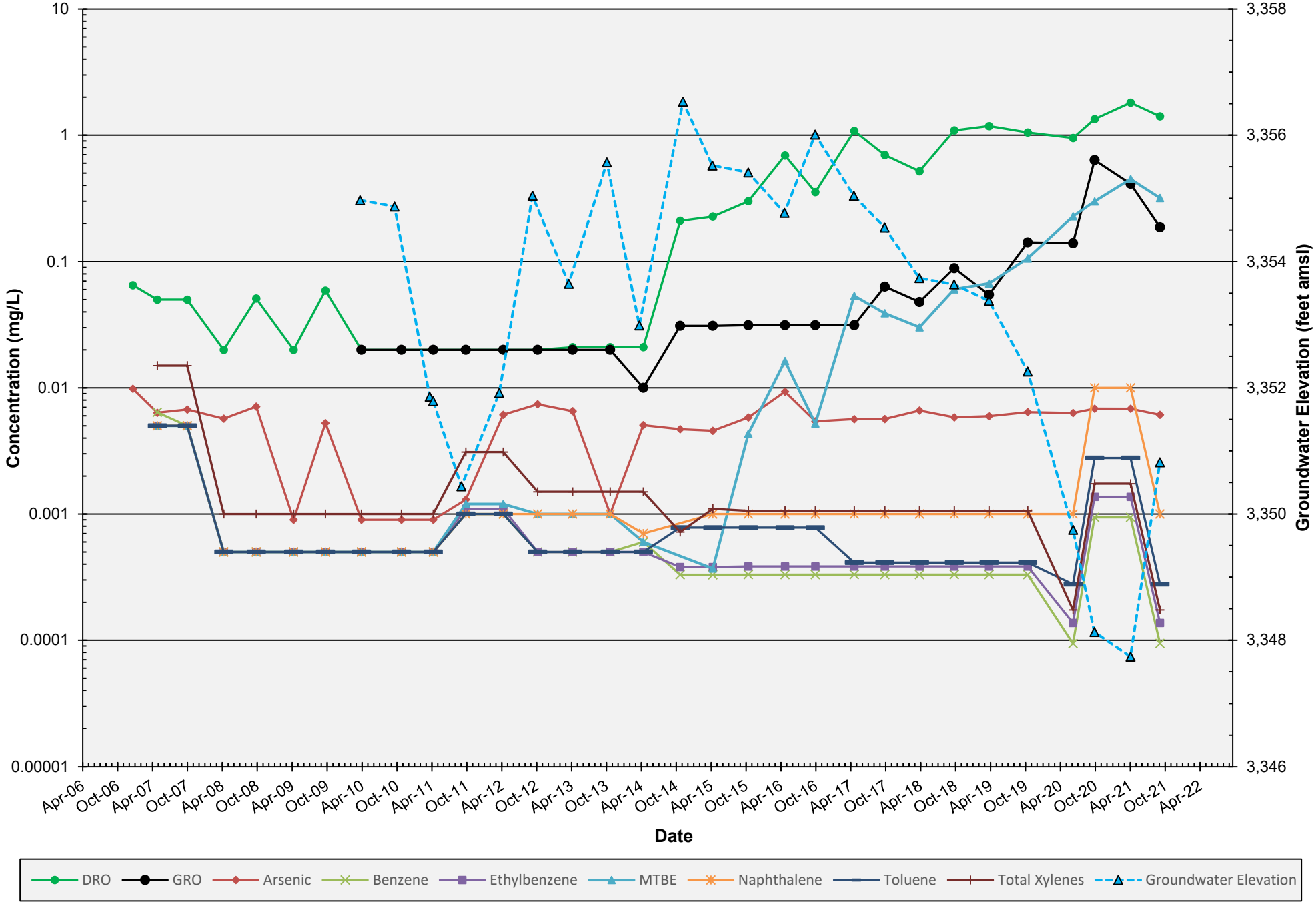


Released to Imaging: 2/7/2025 11:08:22 AM
Received by OCD: 1/9/2025 2:41:44 PM

MW-55: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

North Colony Landfarm

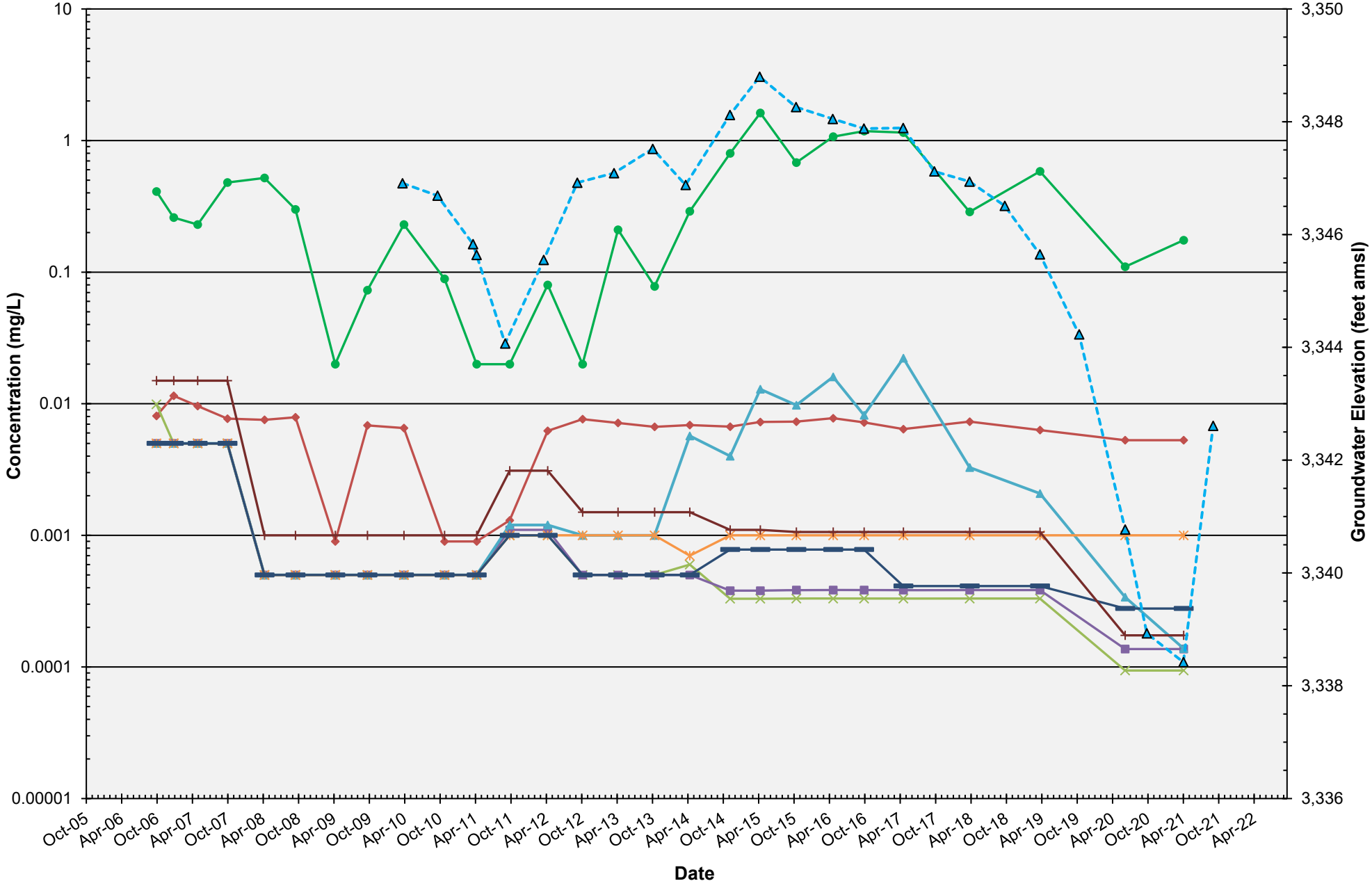


Released to Imaging: 2/7/2025 11:08:22 AM
Received by OCD: 1/9/2025 2:41:44 PM

MW-56: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

North Colony Landfarm

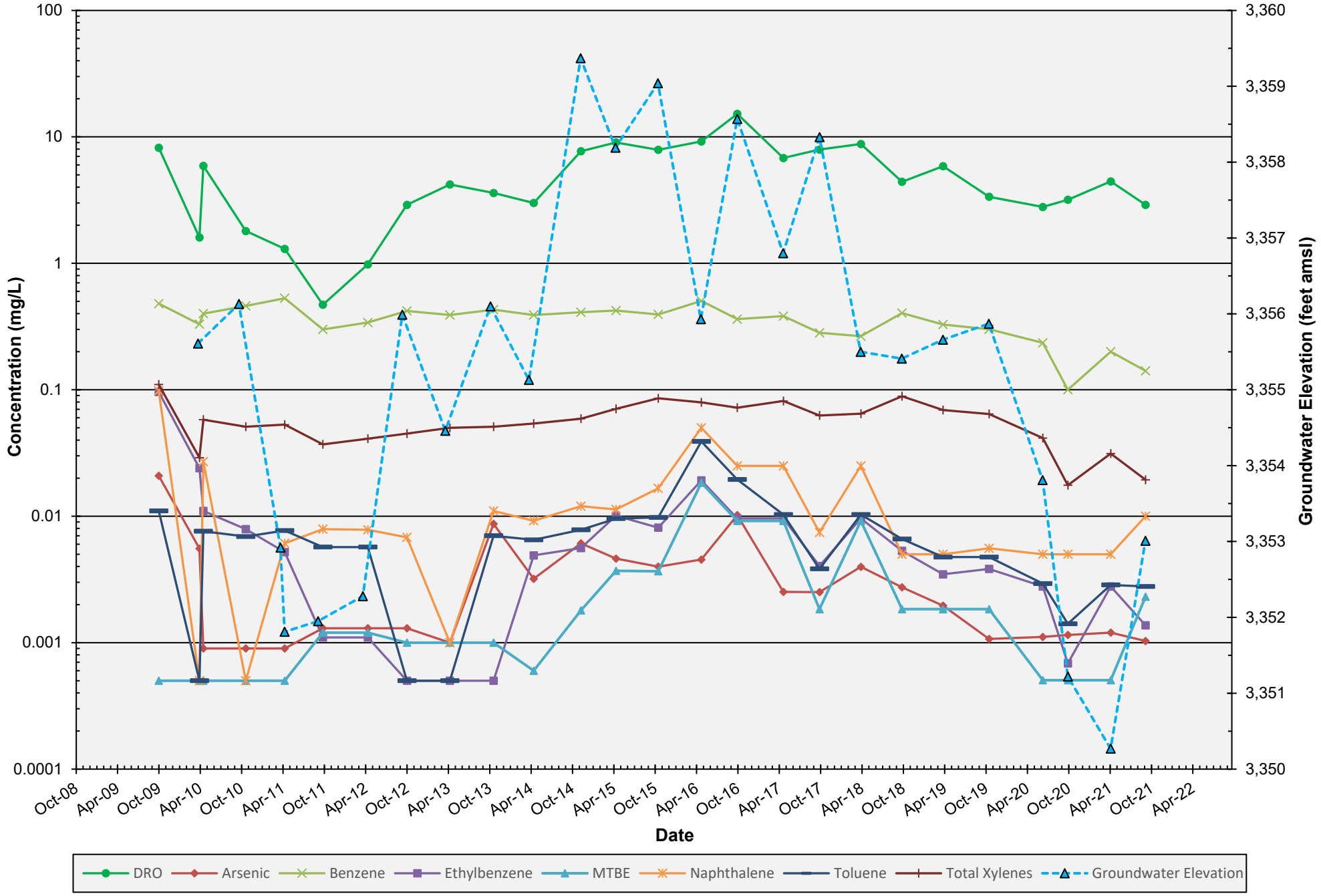


Released to Imaging: 2/7/2025 11:08:22 AM
Received by OCD: 1/9/2025 2:41:44 PM

MW-108: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

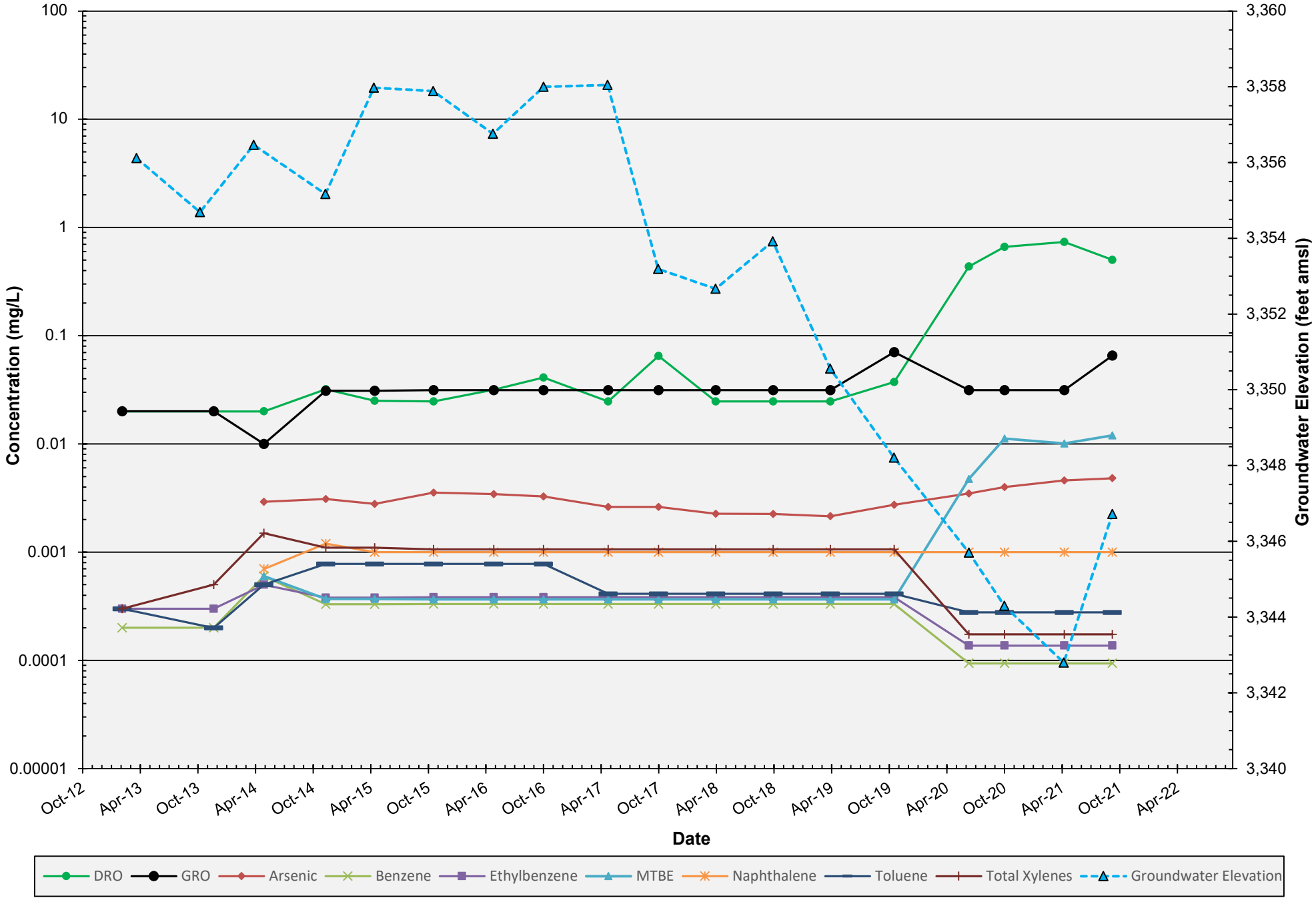
North Colony Landfarm



MW-114: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

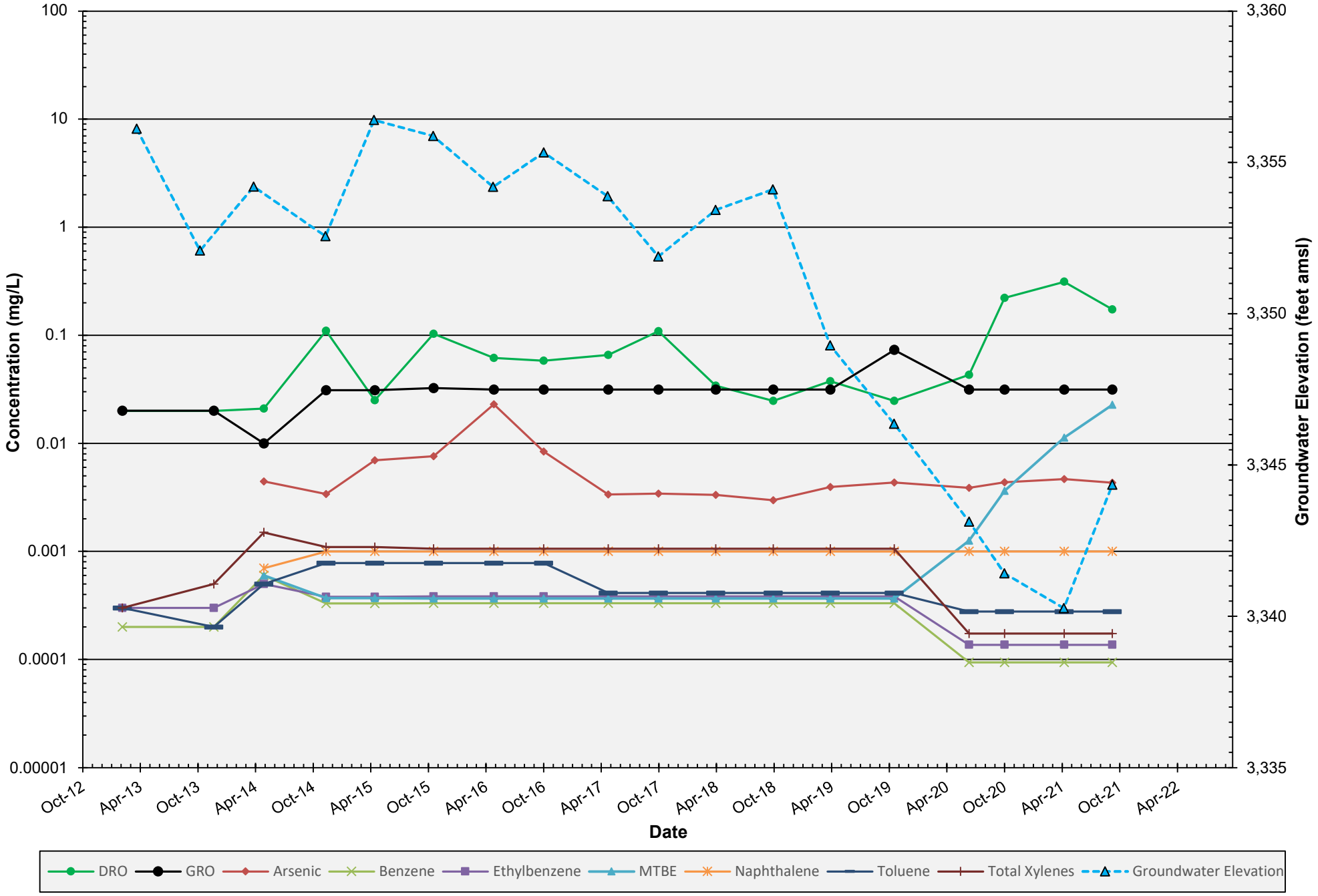
South Reverse Osmosis Reject Field



MW-115: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

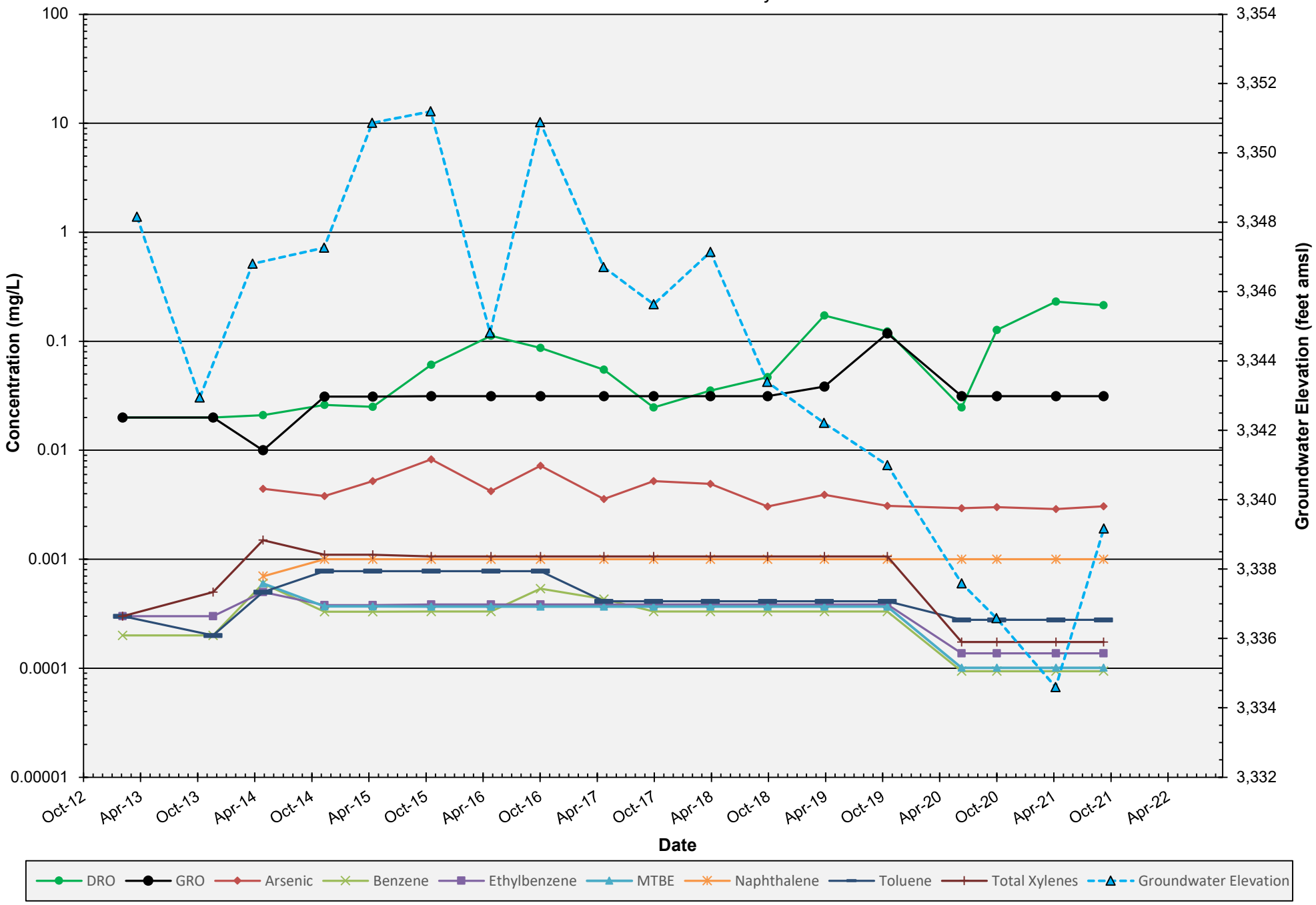
South Reverse Osmosis Reject Fields



MW-116: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

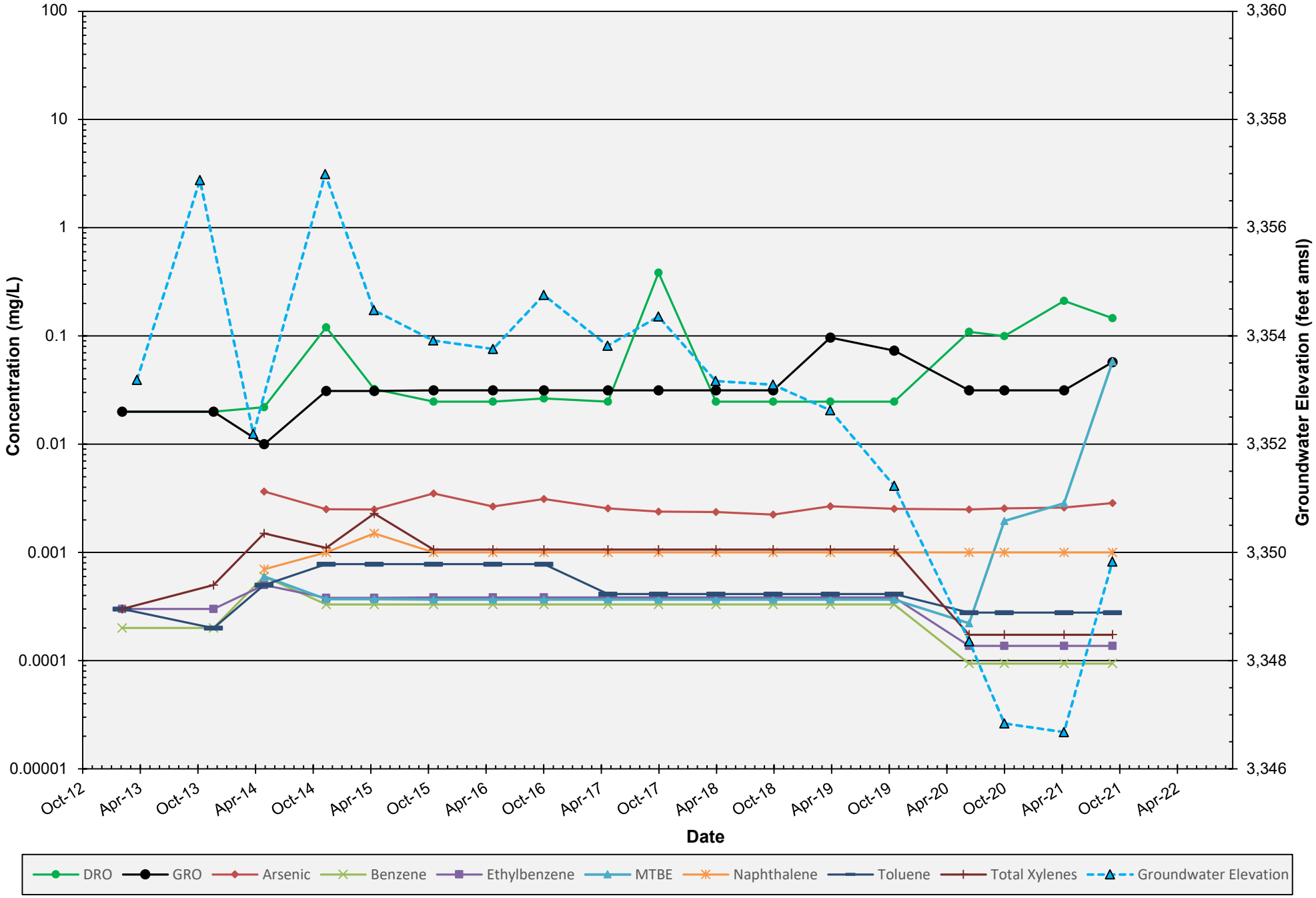
South Reverse Osmosis Reject Field



MW-117: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

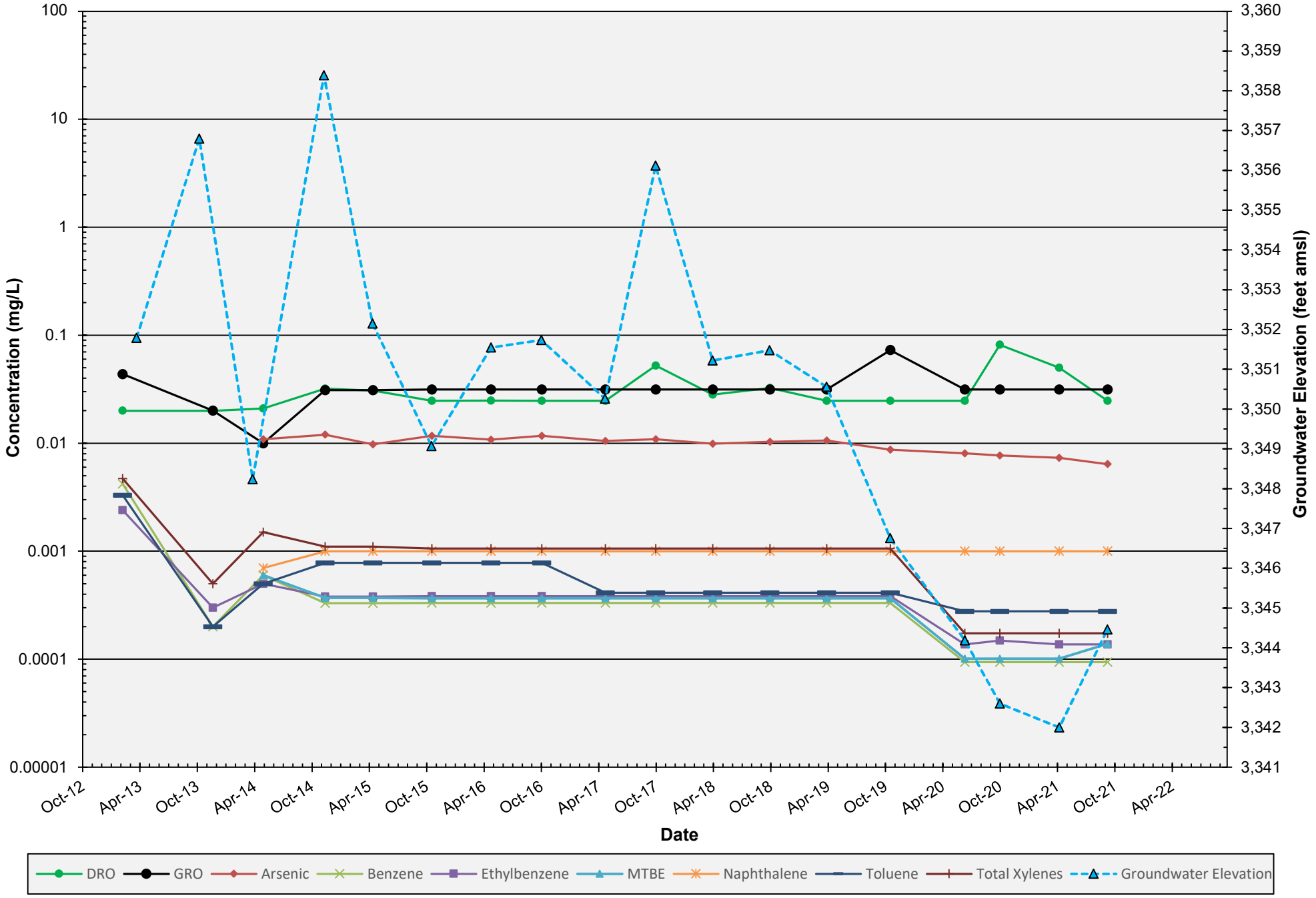
North Reverse Osmosis Reject Fields



MW-118: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

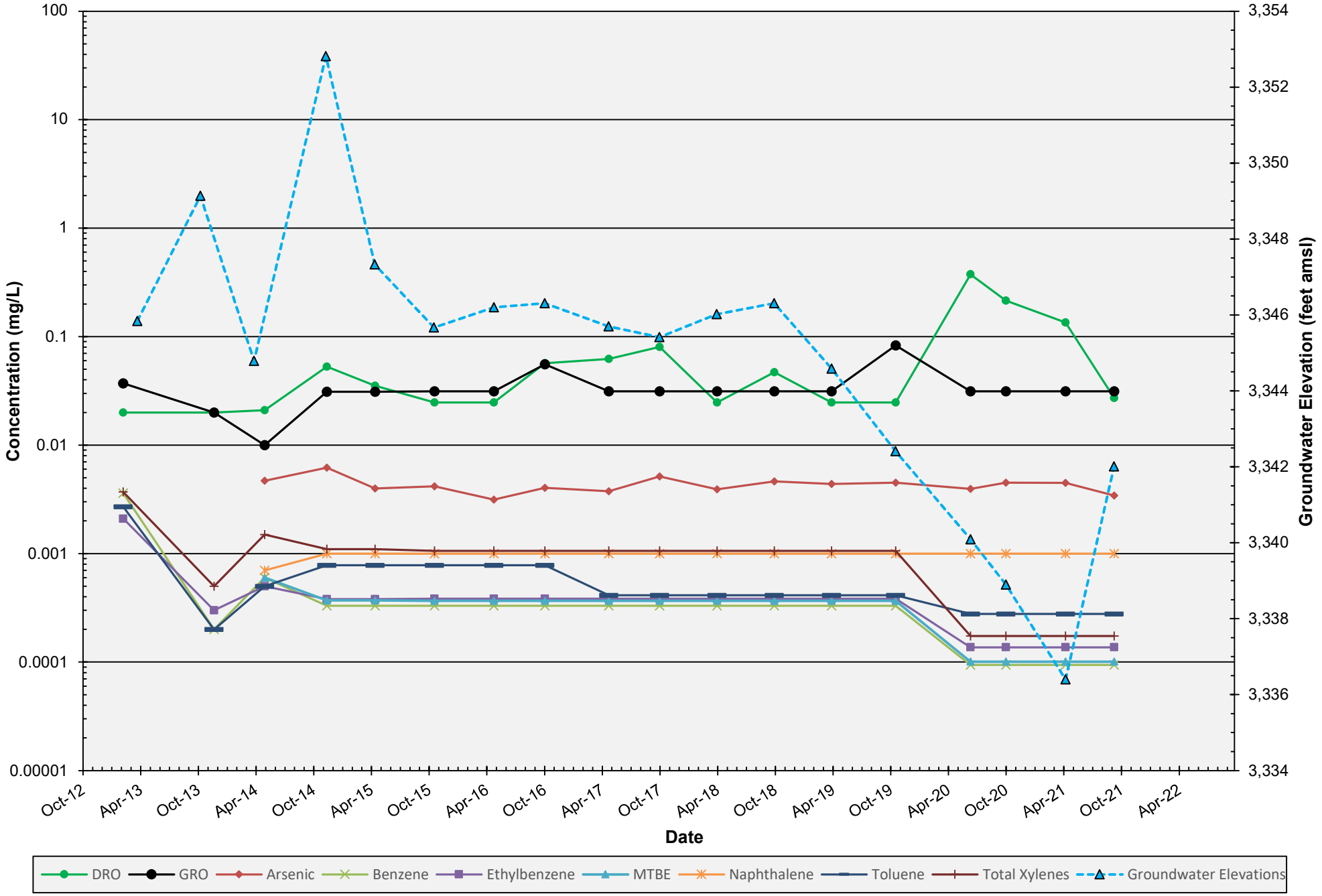
North Reverse Osmosis Reject Fields



MW-119: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

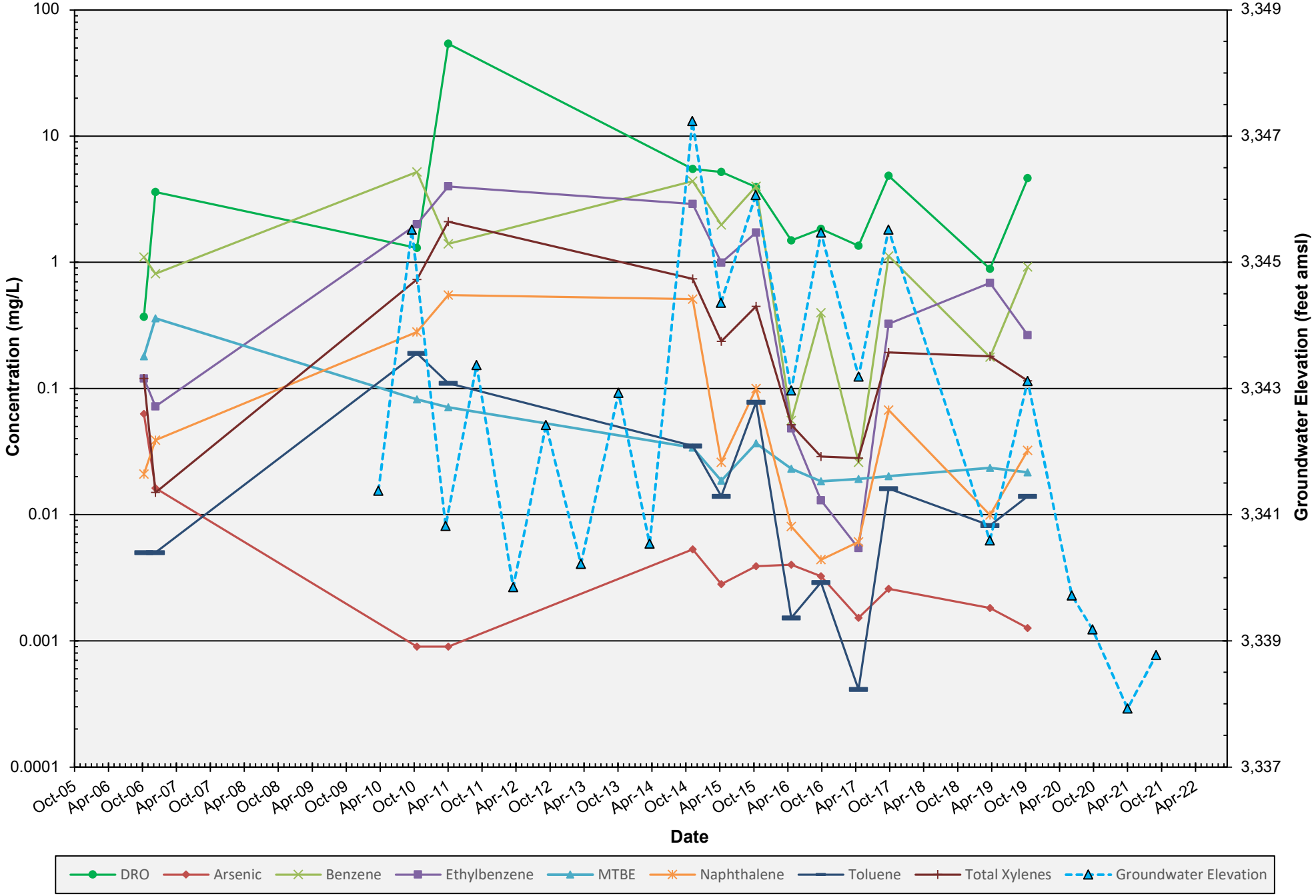
North Reverse Osmosis Reject Fields



KWB-2R: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

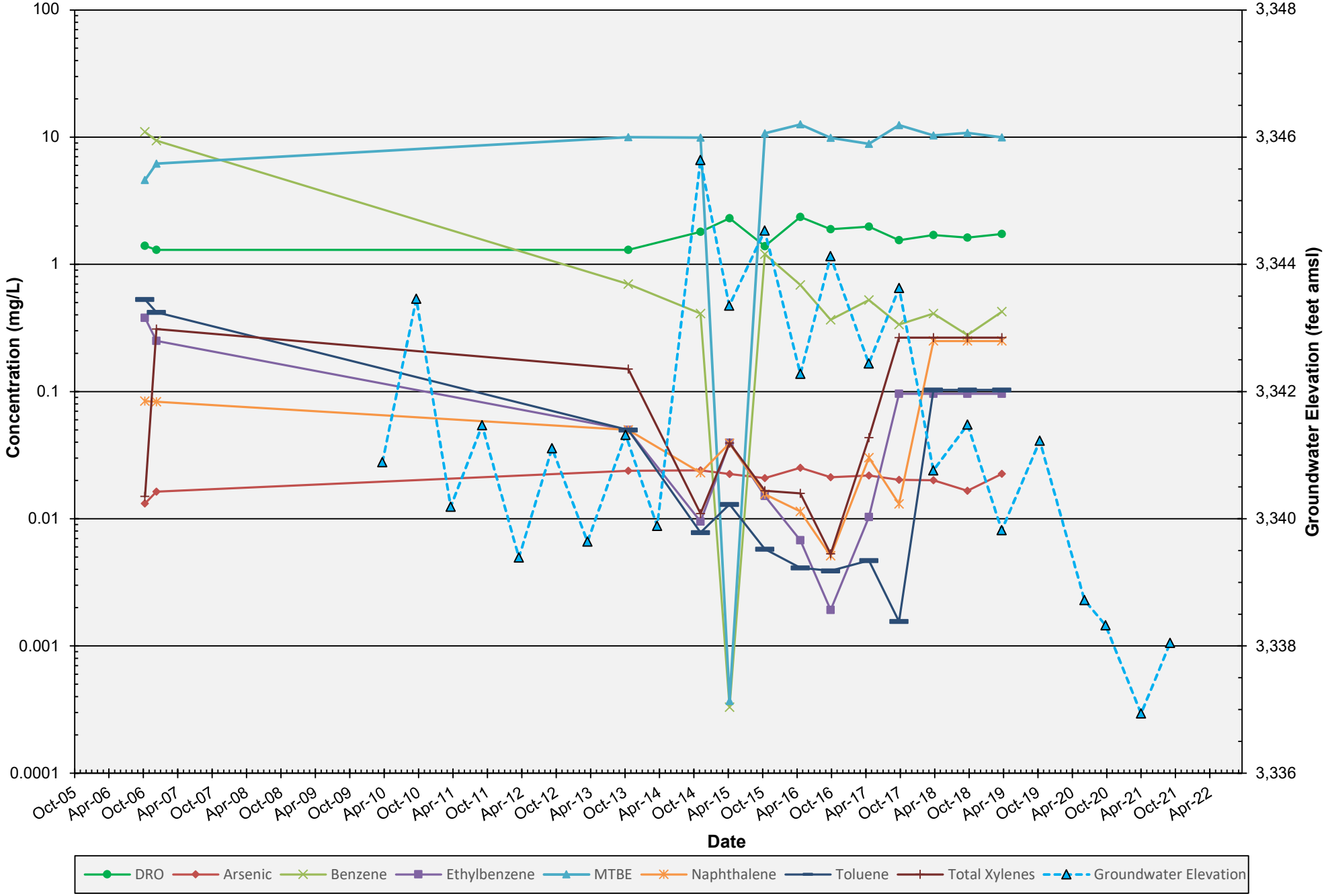
South Refinery Area



KWB-5: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

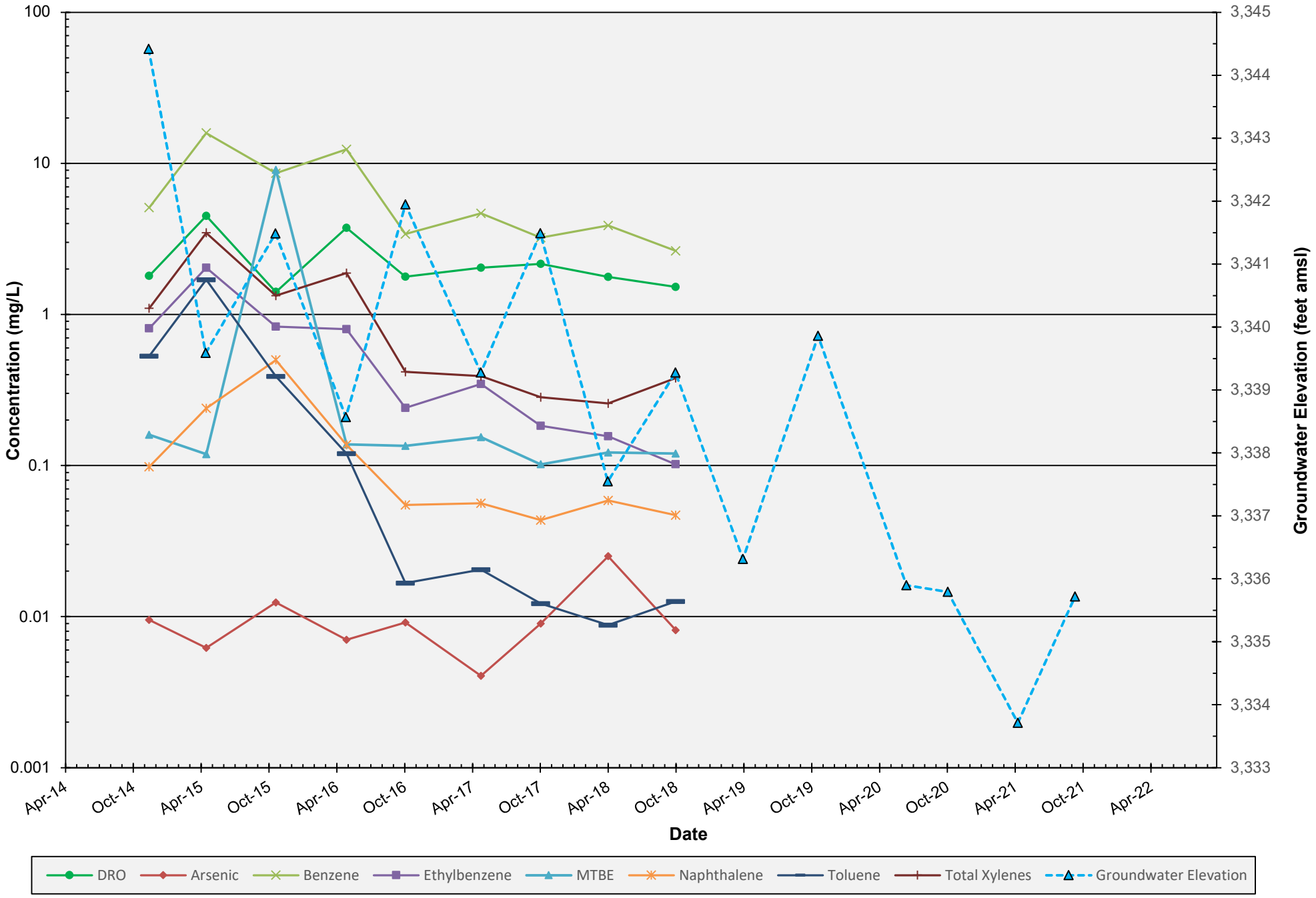
South Refinery Area



KWB-6: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

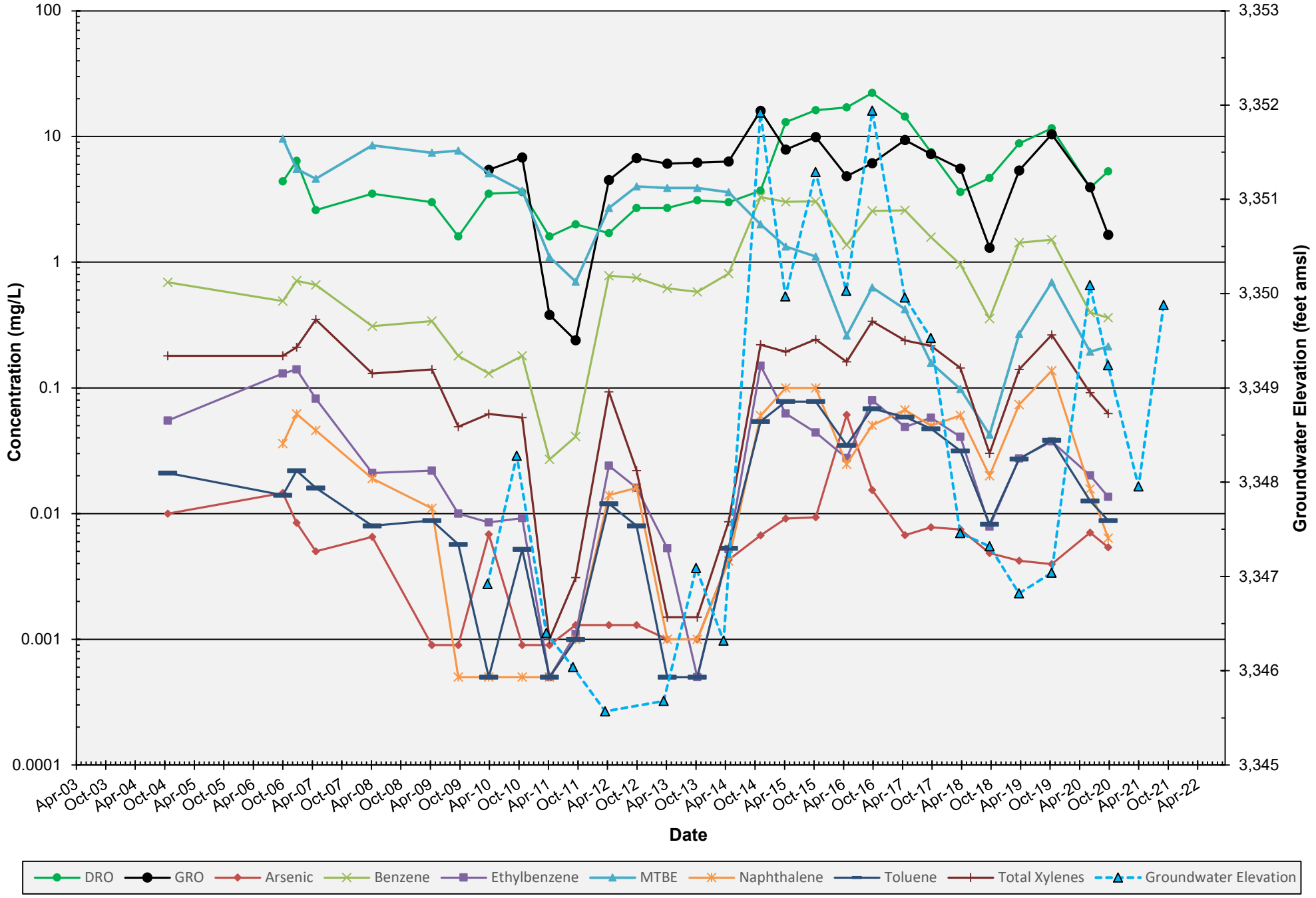
South Refinery Area



MW-28: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

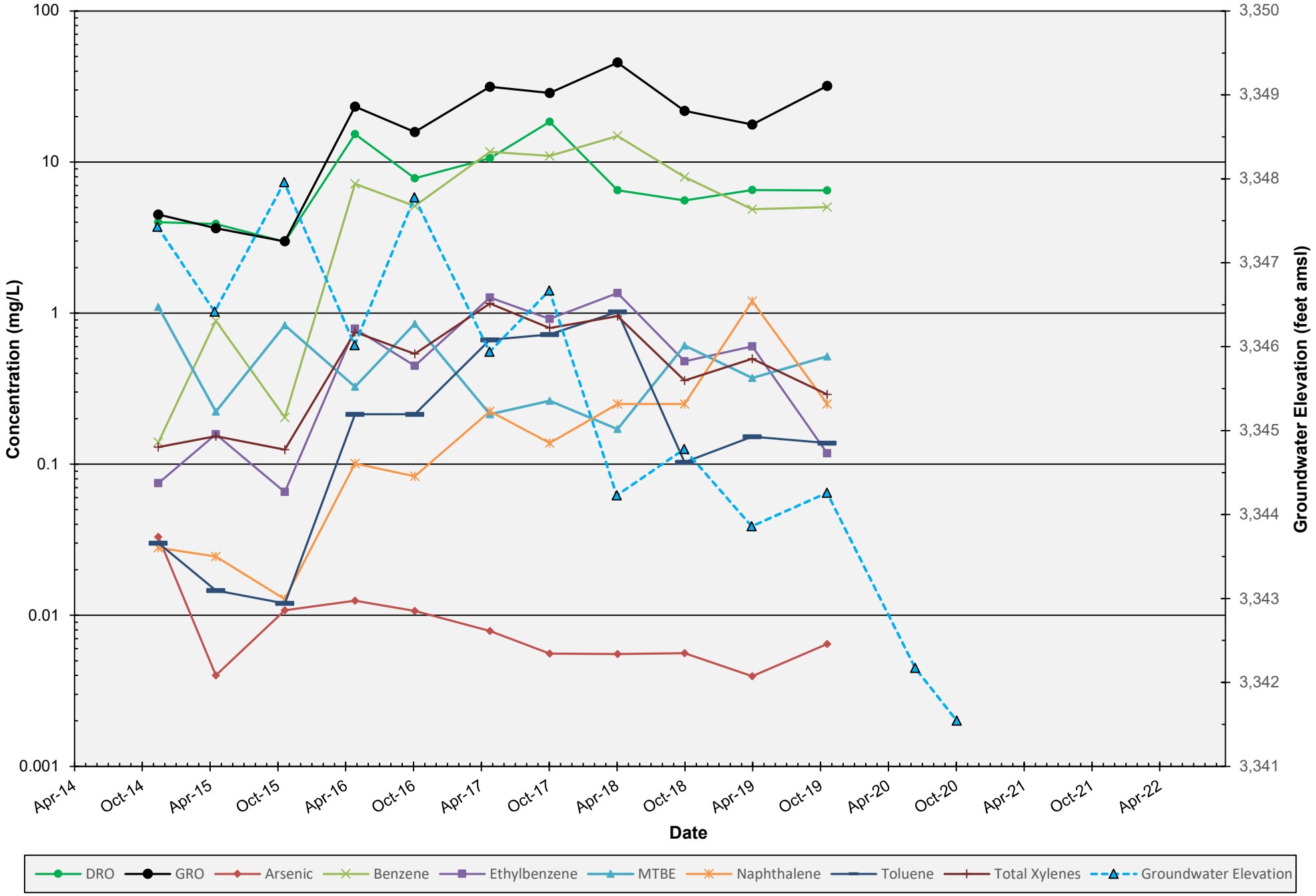
South Refinery Area



MW-48: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

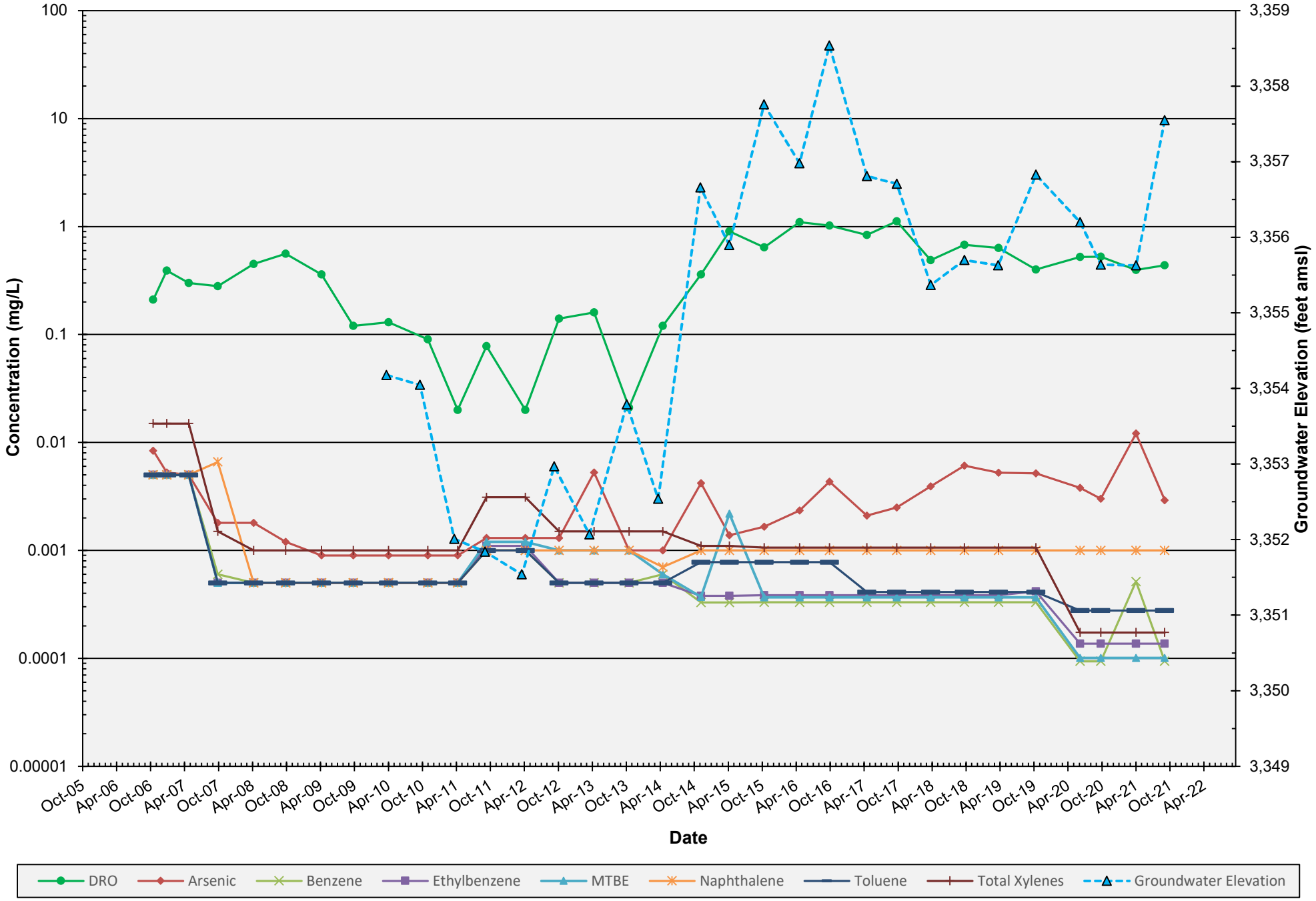
South Refinery Area



MW-50: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

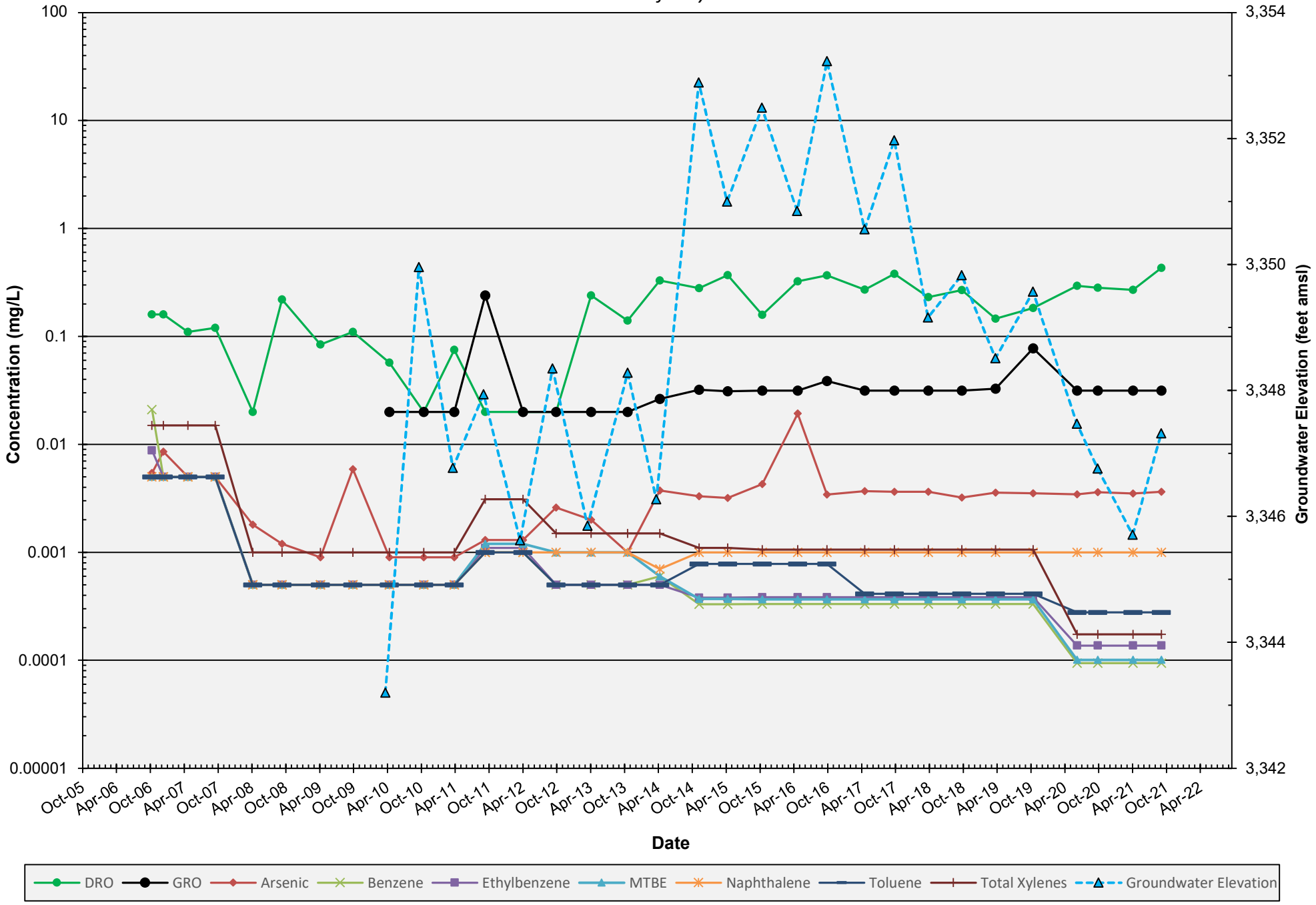
South Refinery Area



MW-52: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

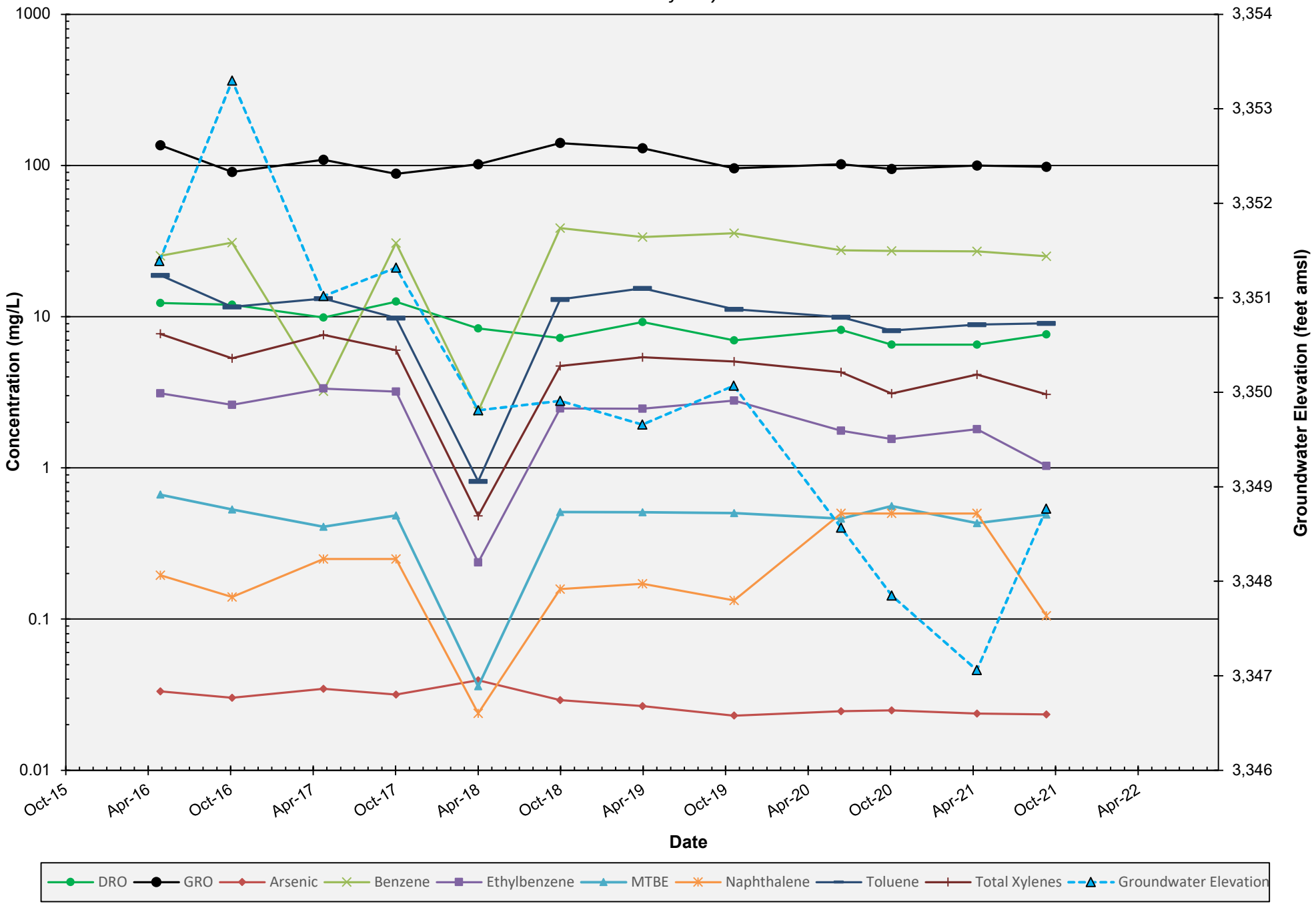
South Refinery Area



MW-64: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

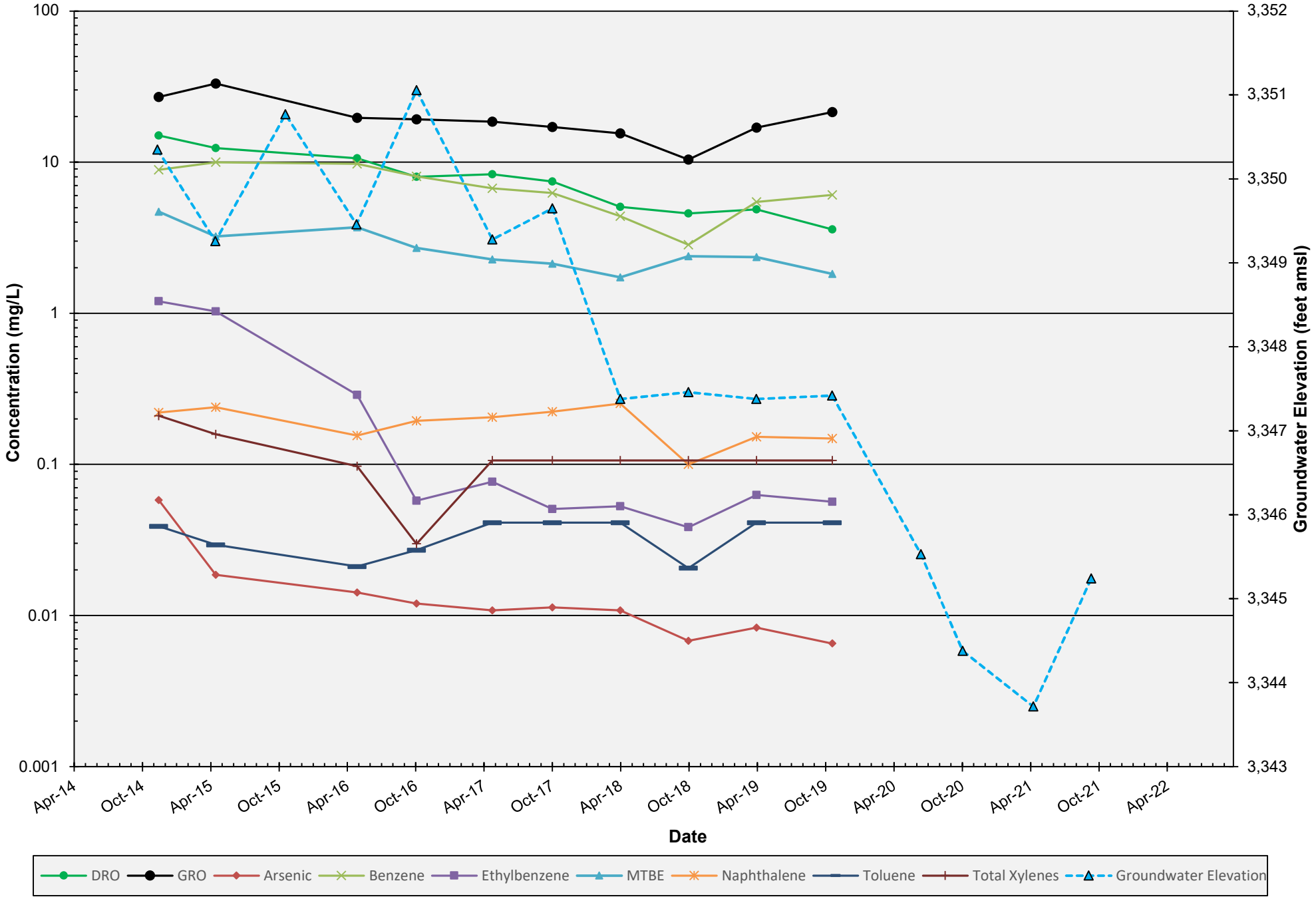
South Refinery Area



MW-65: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

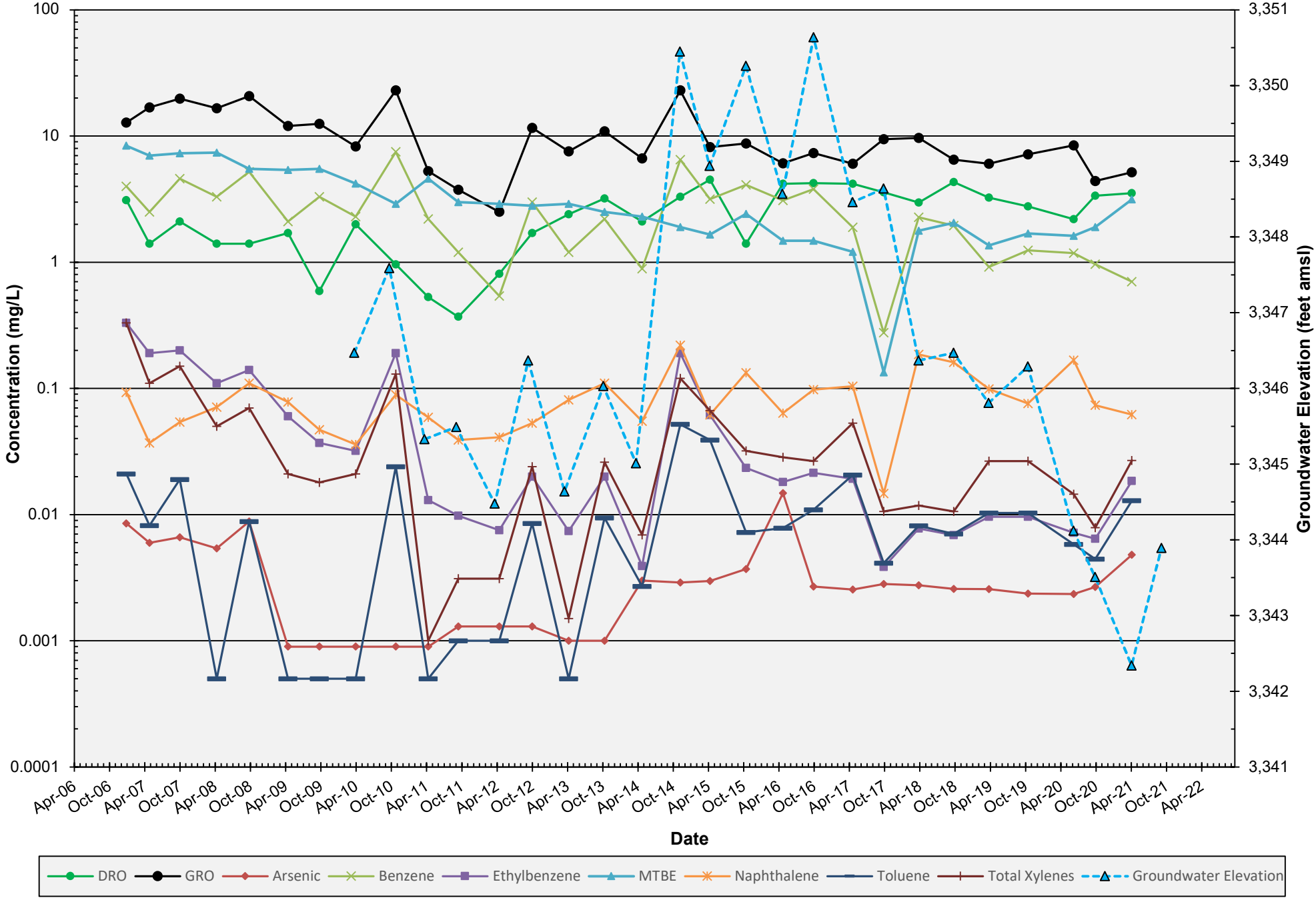
South Refinery Area



MW-66: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

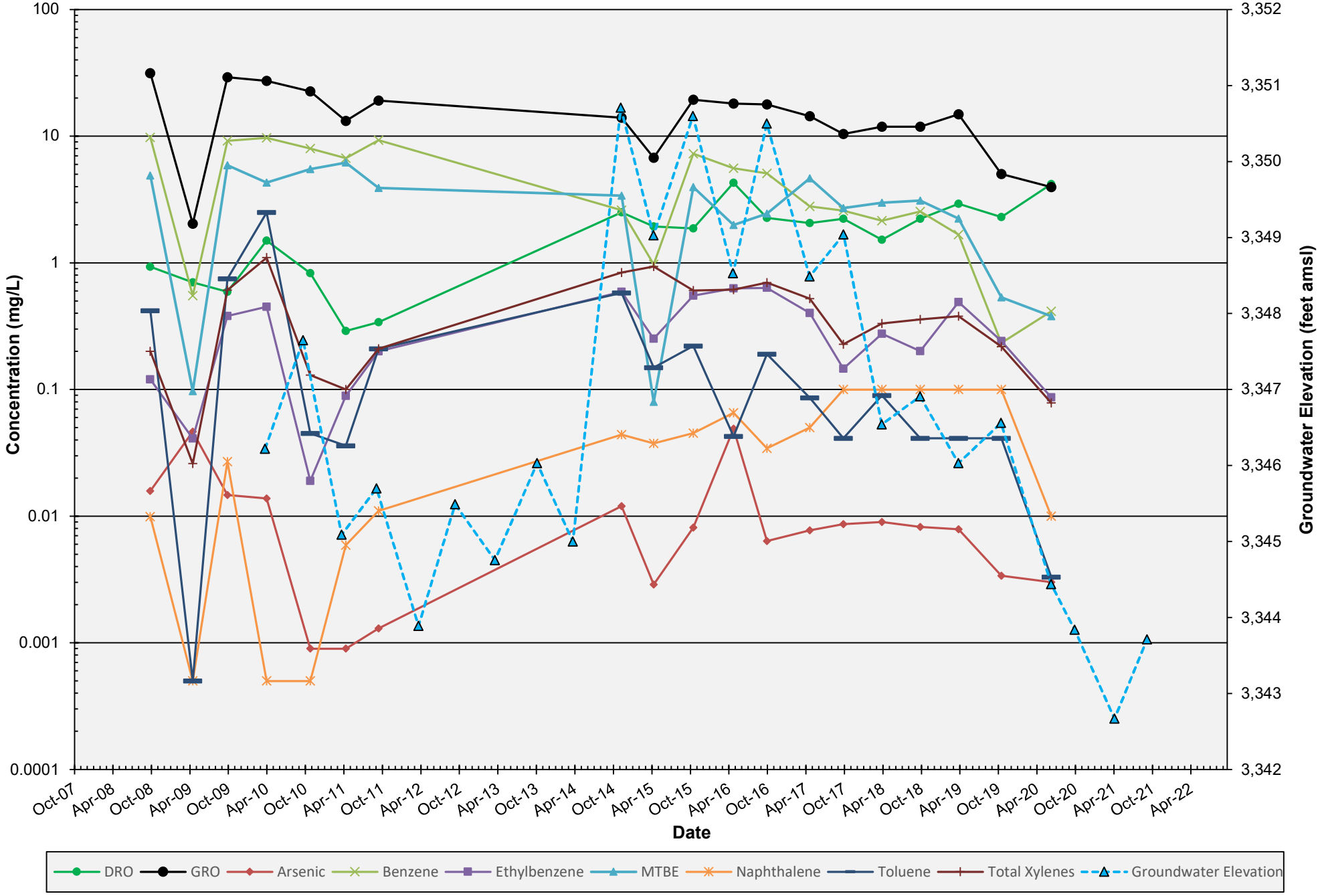
South Refinery Area



MW-99: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

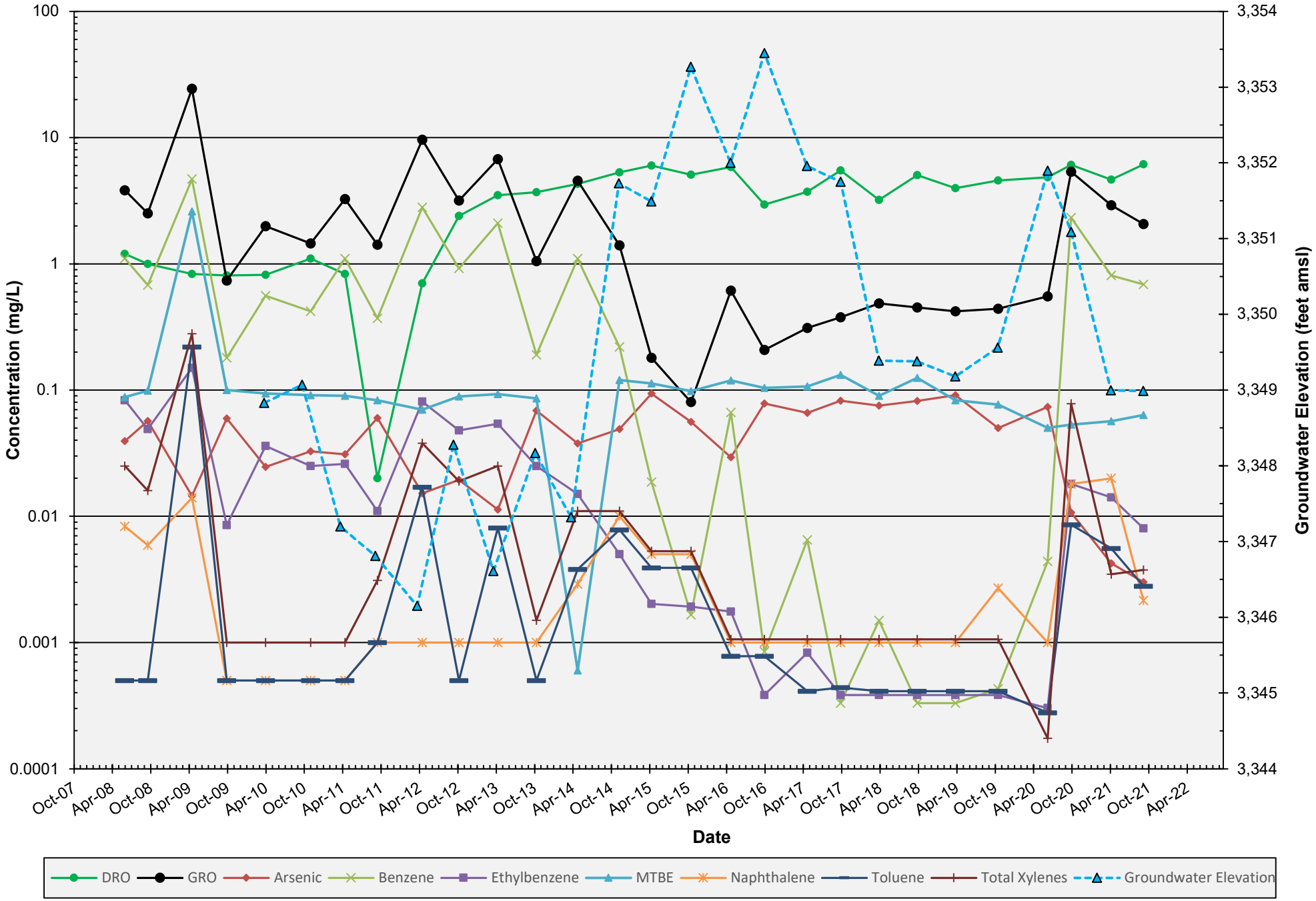
South Refinery Area



MW-101: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

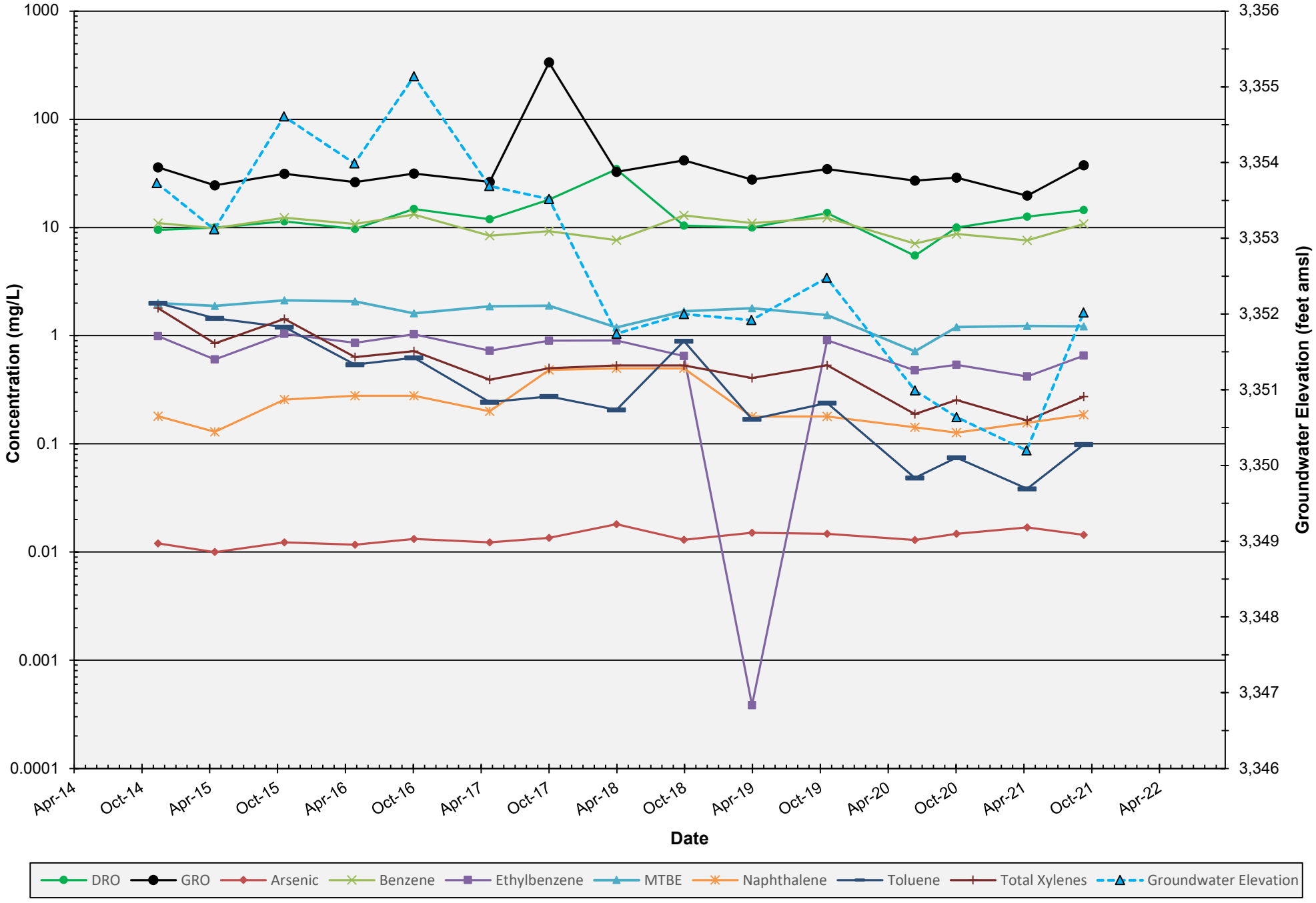
South Refinery Area



MW-102: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

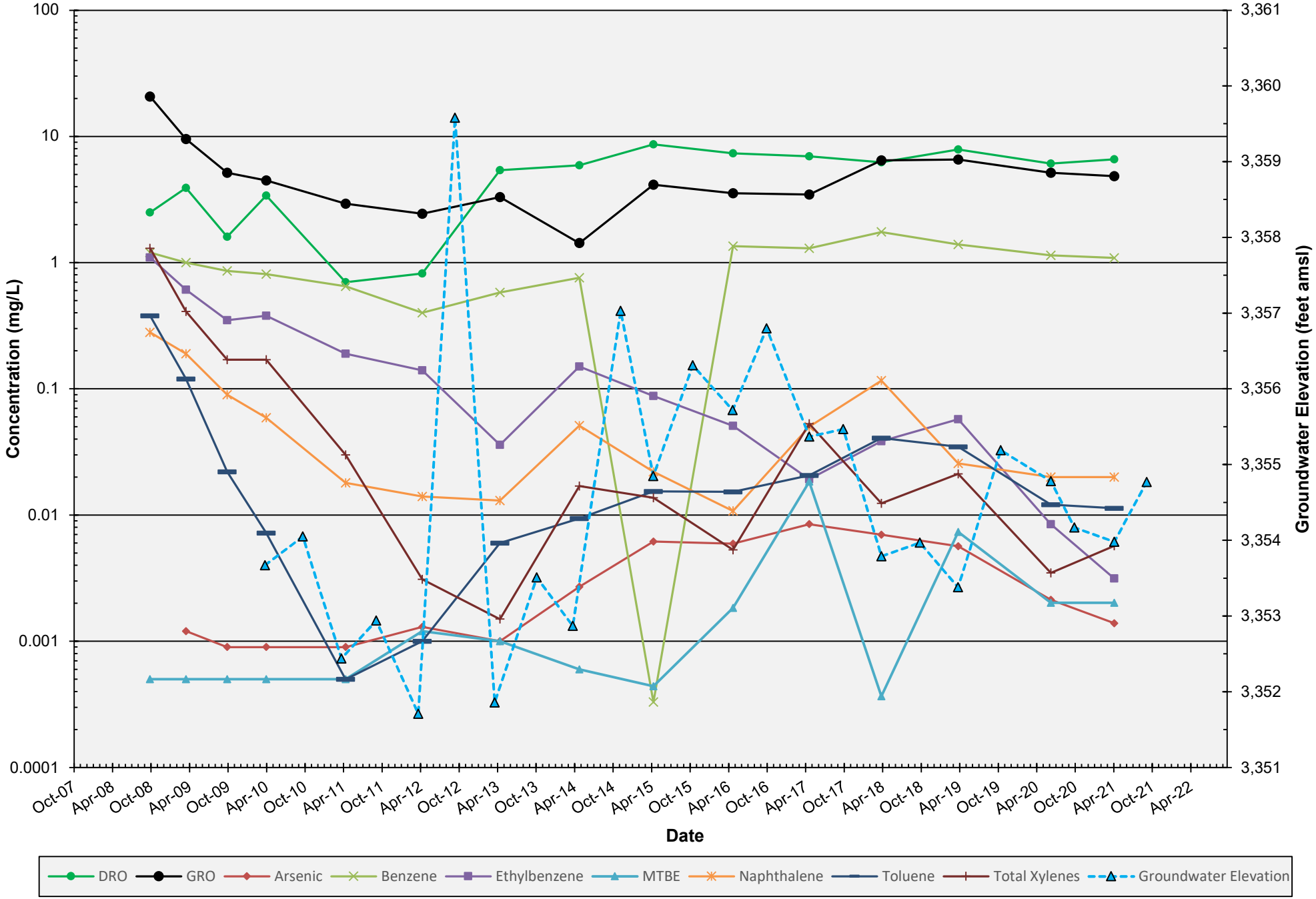
South Refinery Area



MW-103: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

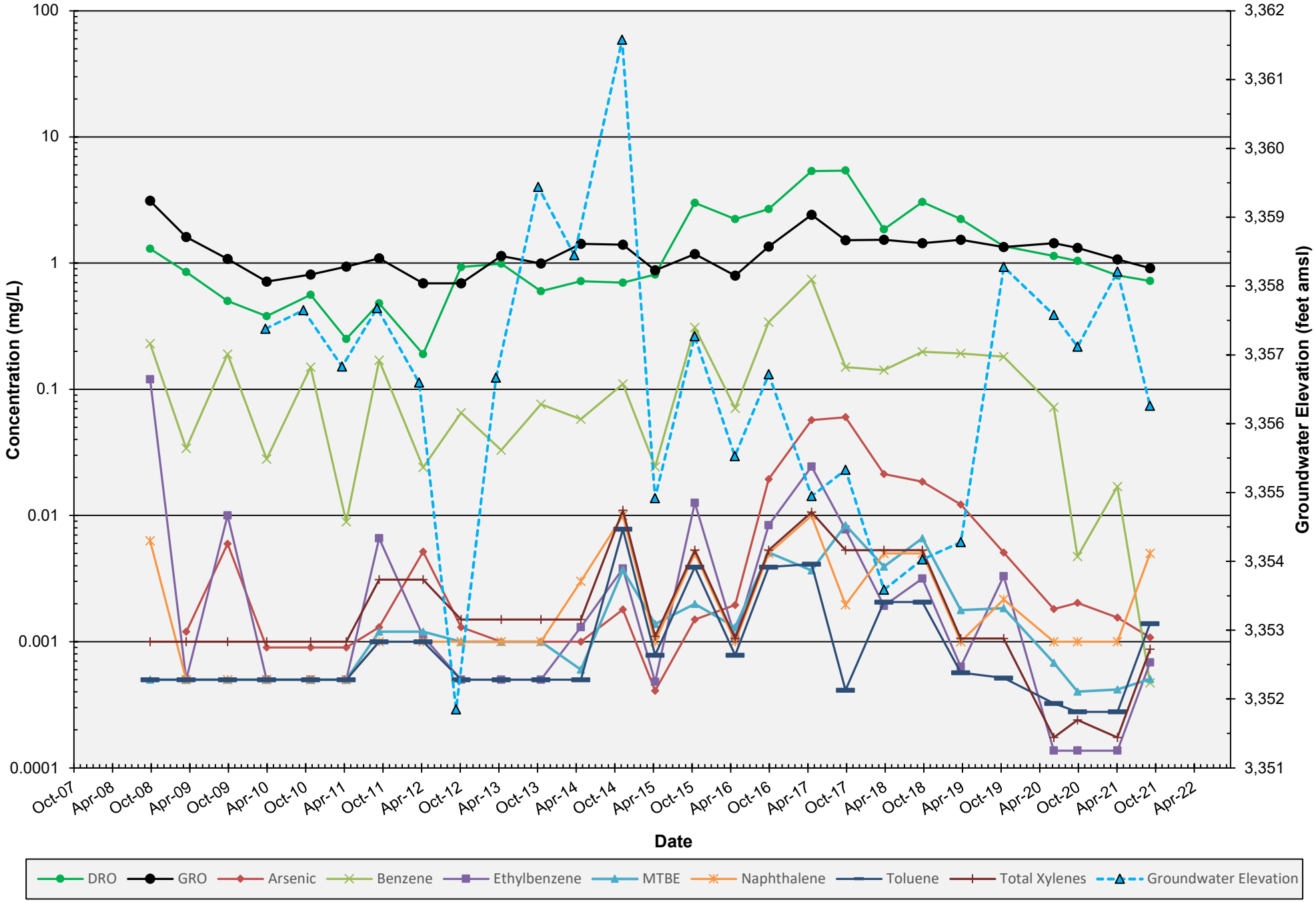
South Refinery Area



MW-104: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

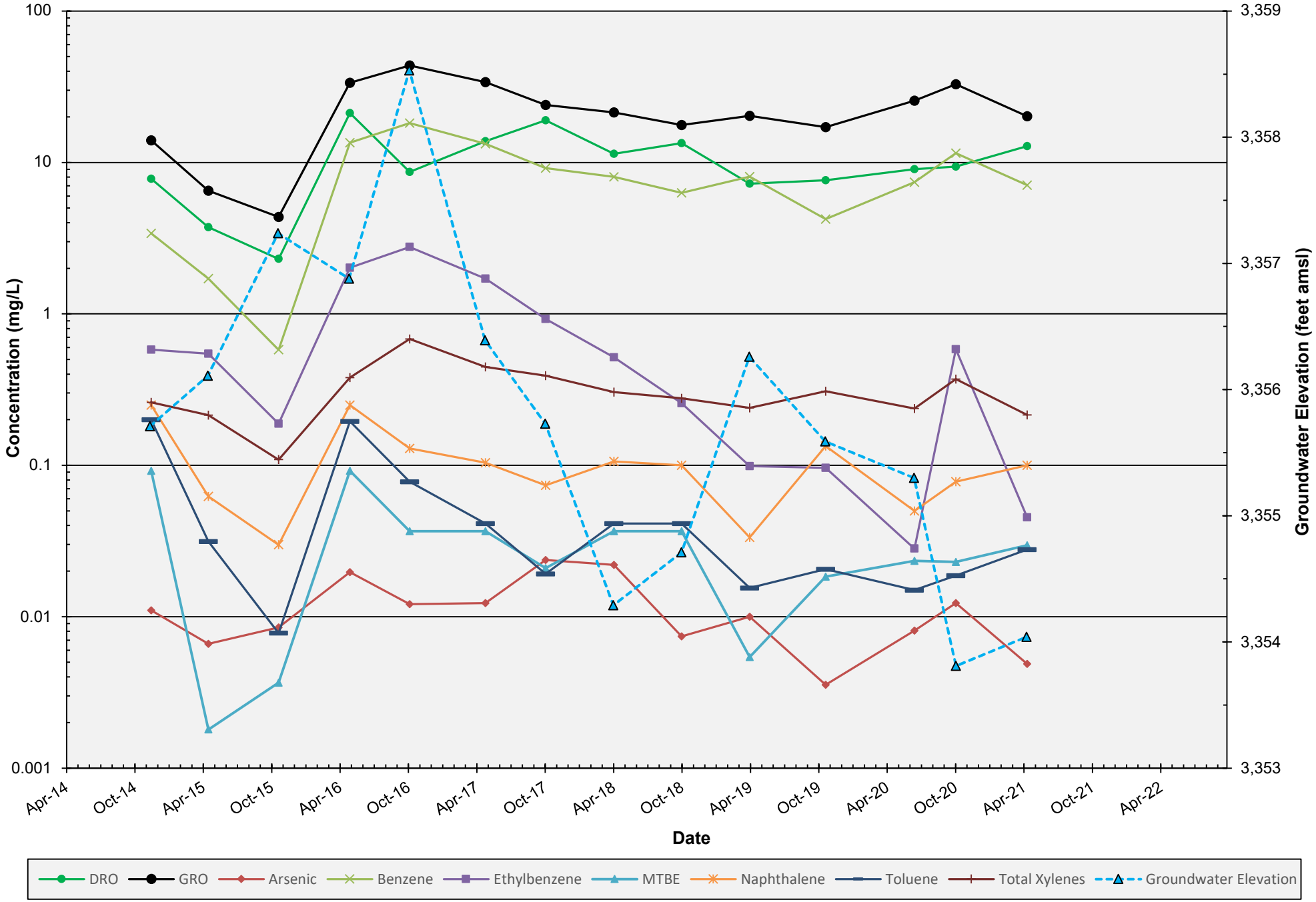
South Refinery Area



MW-105: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

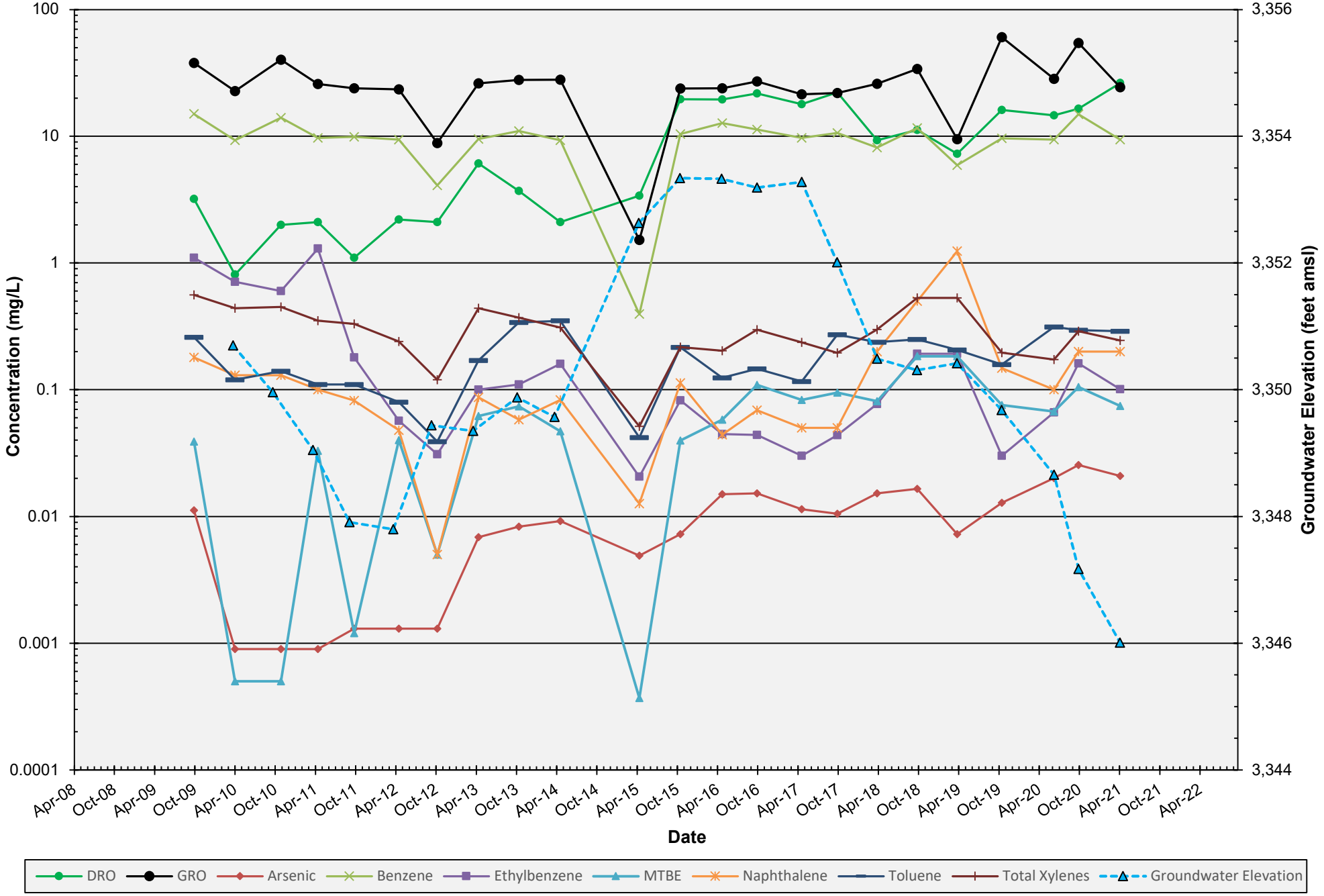
South Refinery Area



MW-106: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

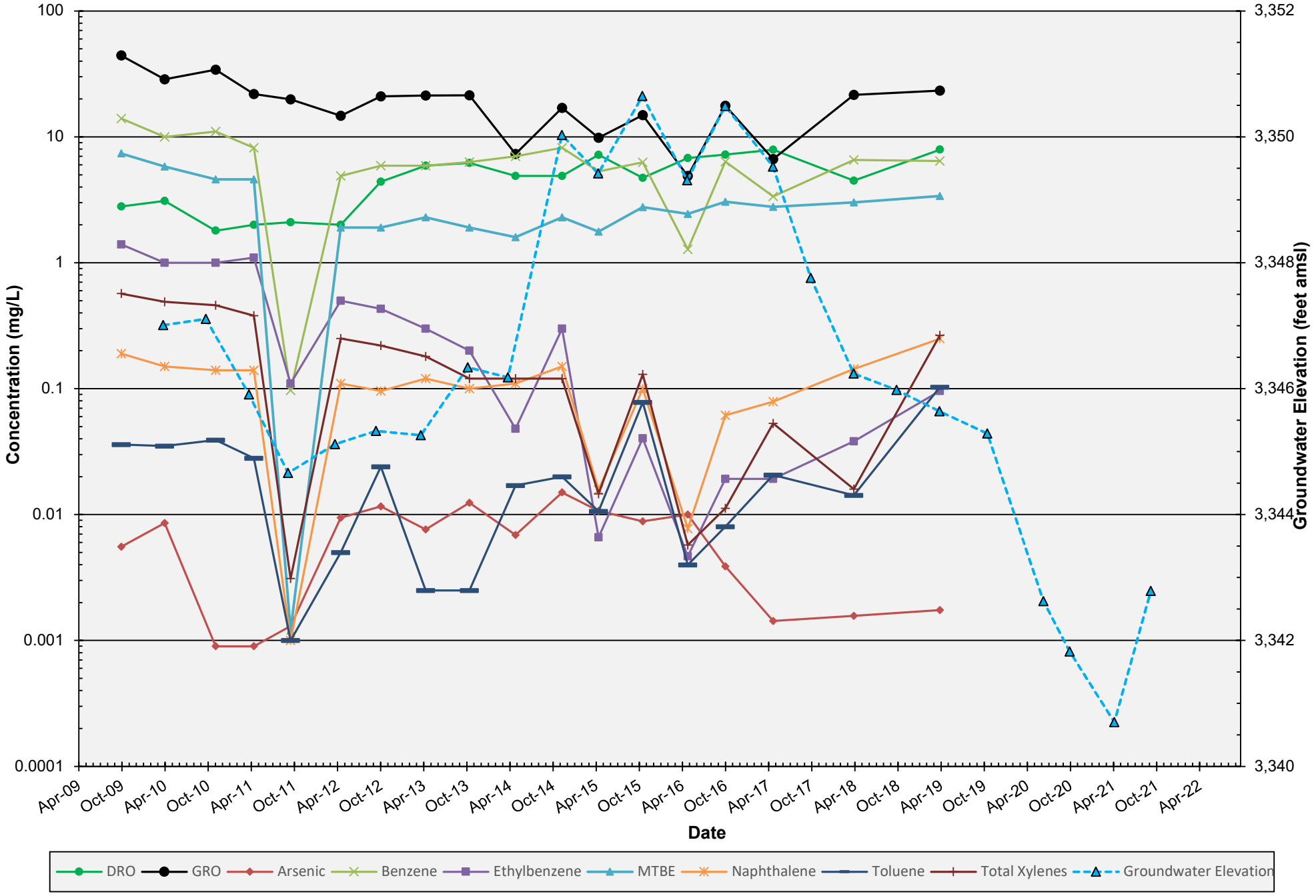
South Refinery Area



MW-107: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

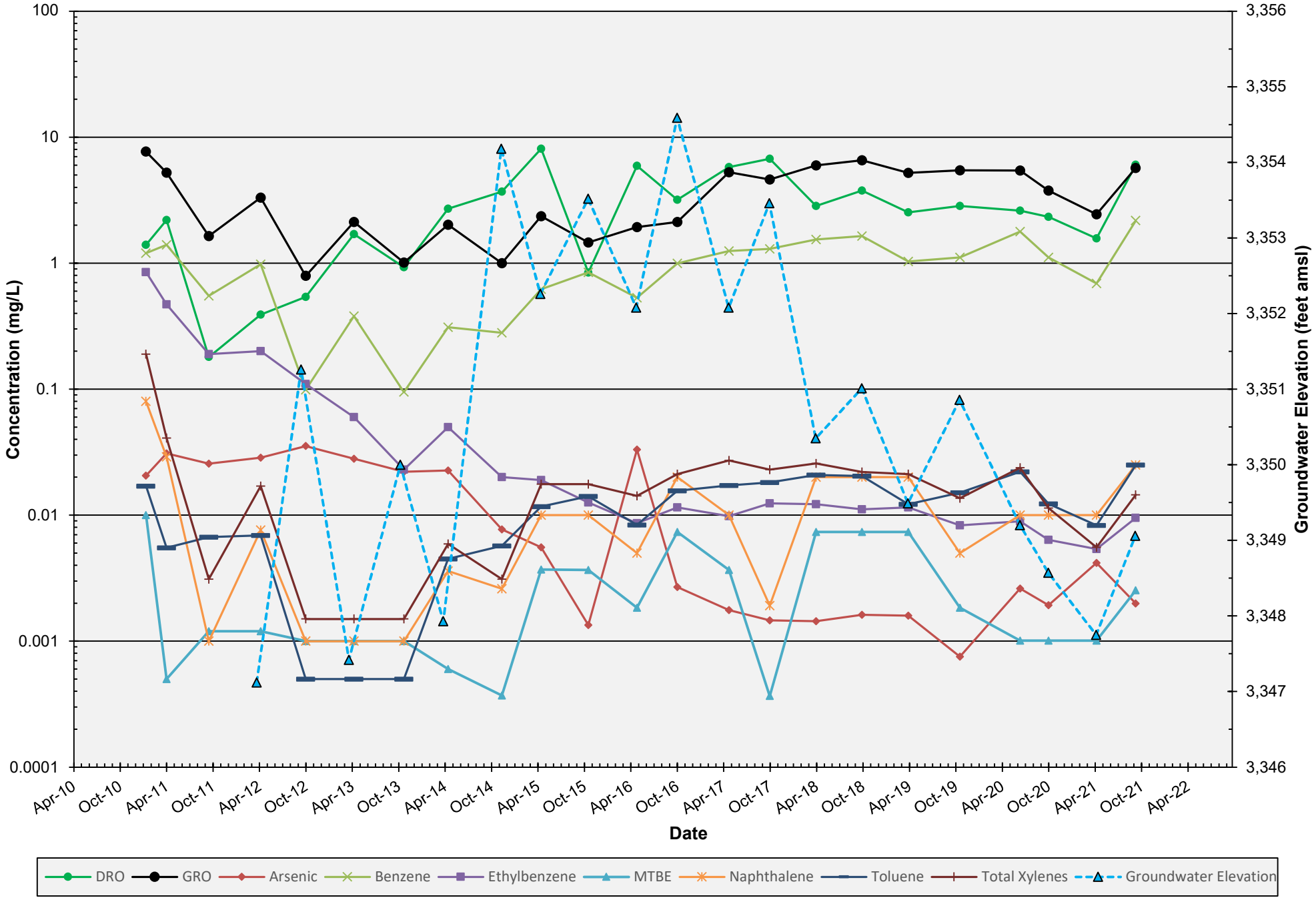
South Refinery Area



MW-109: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

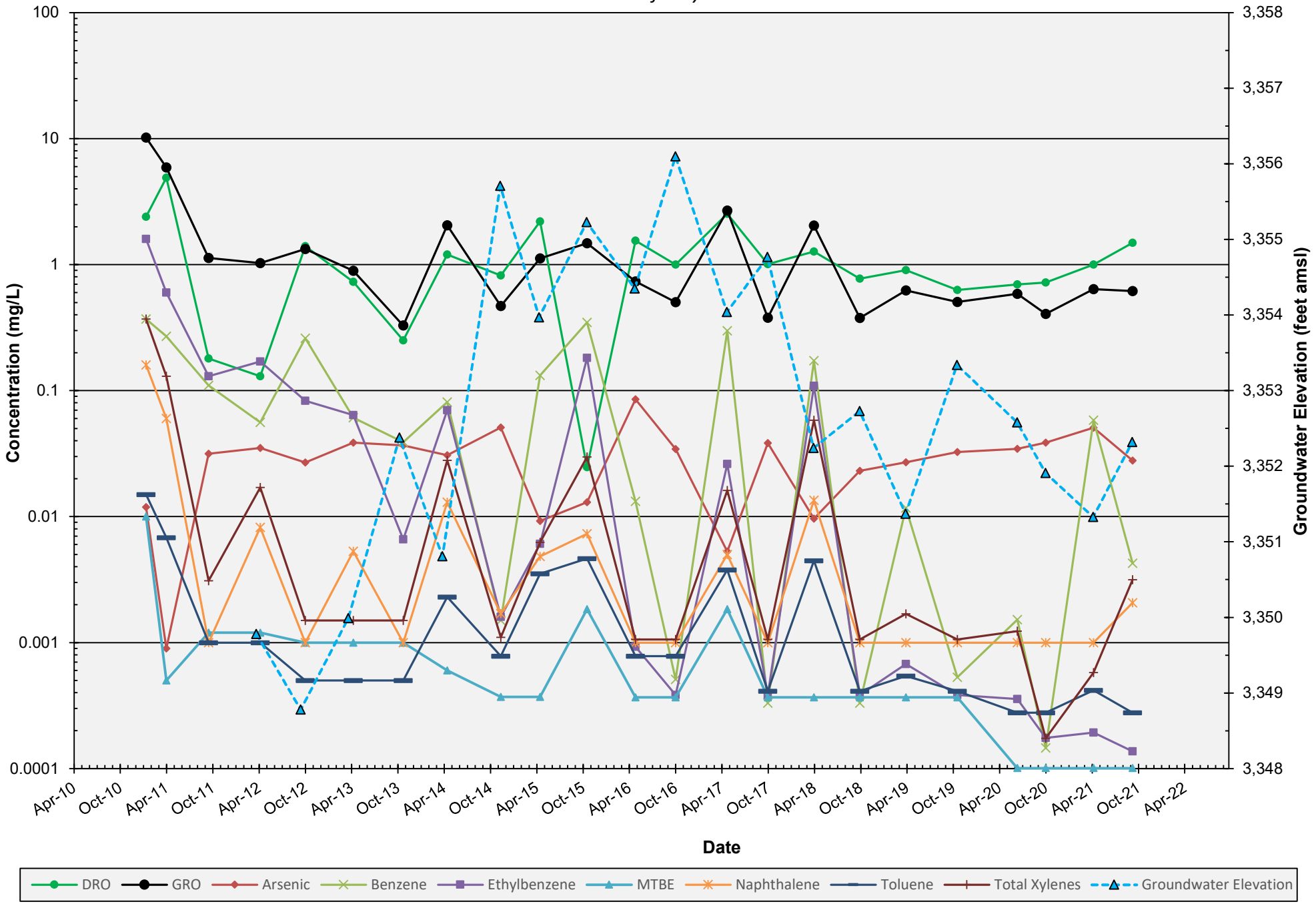
South Refinery Area



MW-110: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

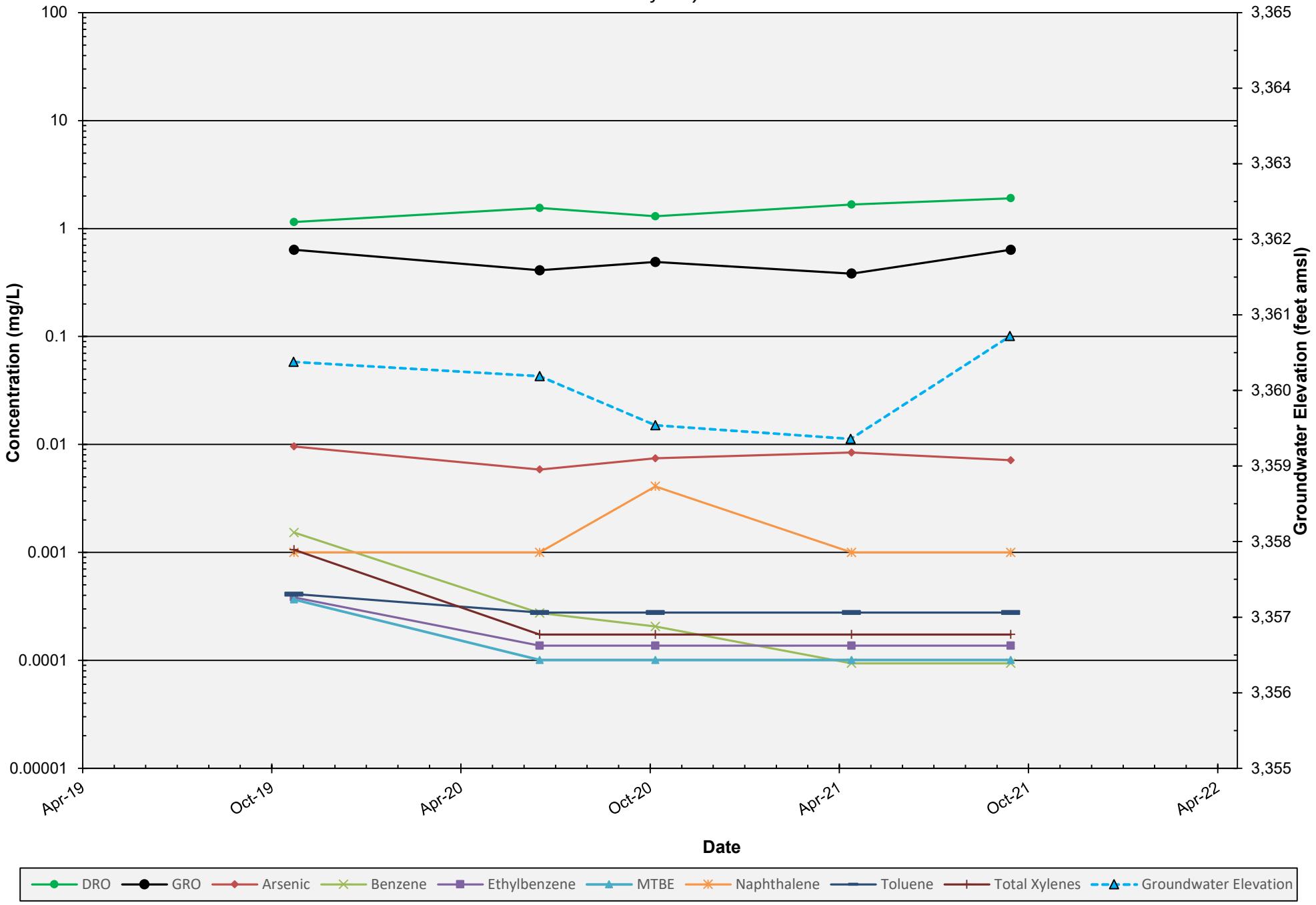
South Refinery Area



MW-139: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

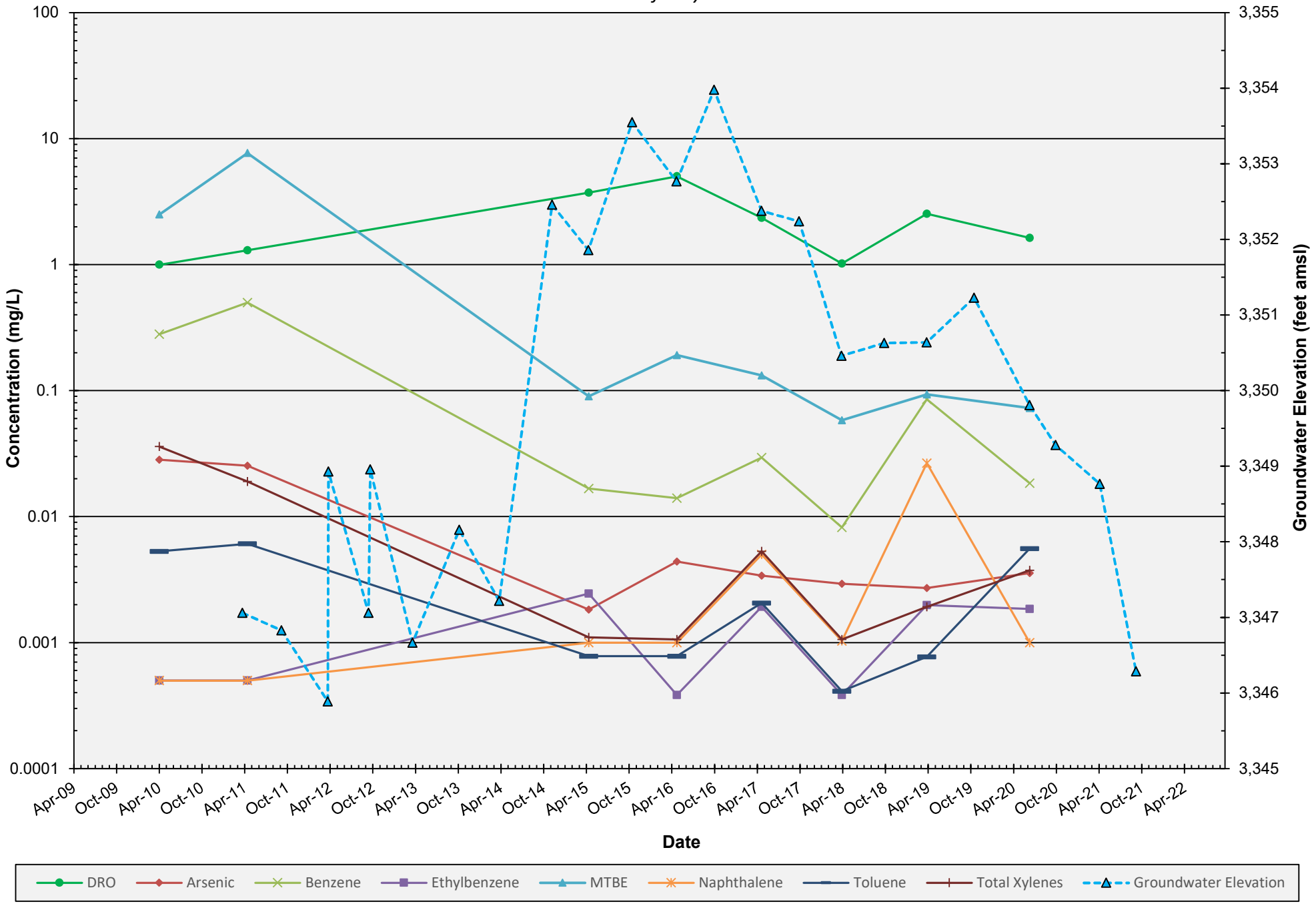
South Refinery Area



RW-4: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

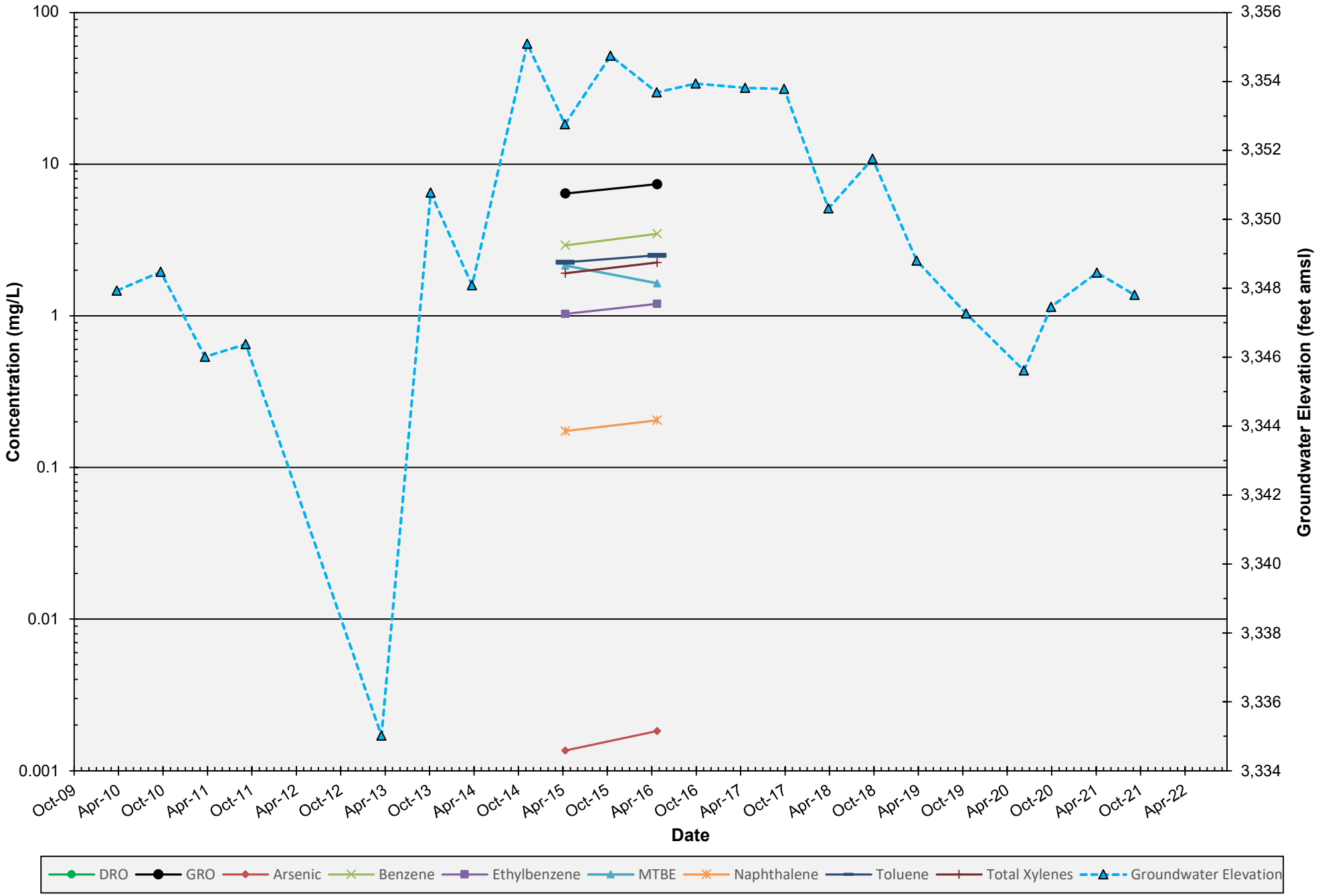
South Refinery Area



RW-5 and RW-5R: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

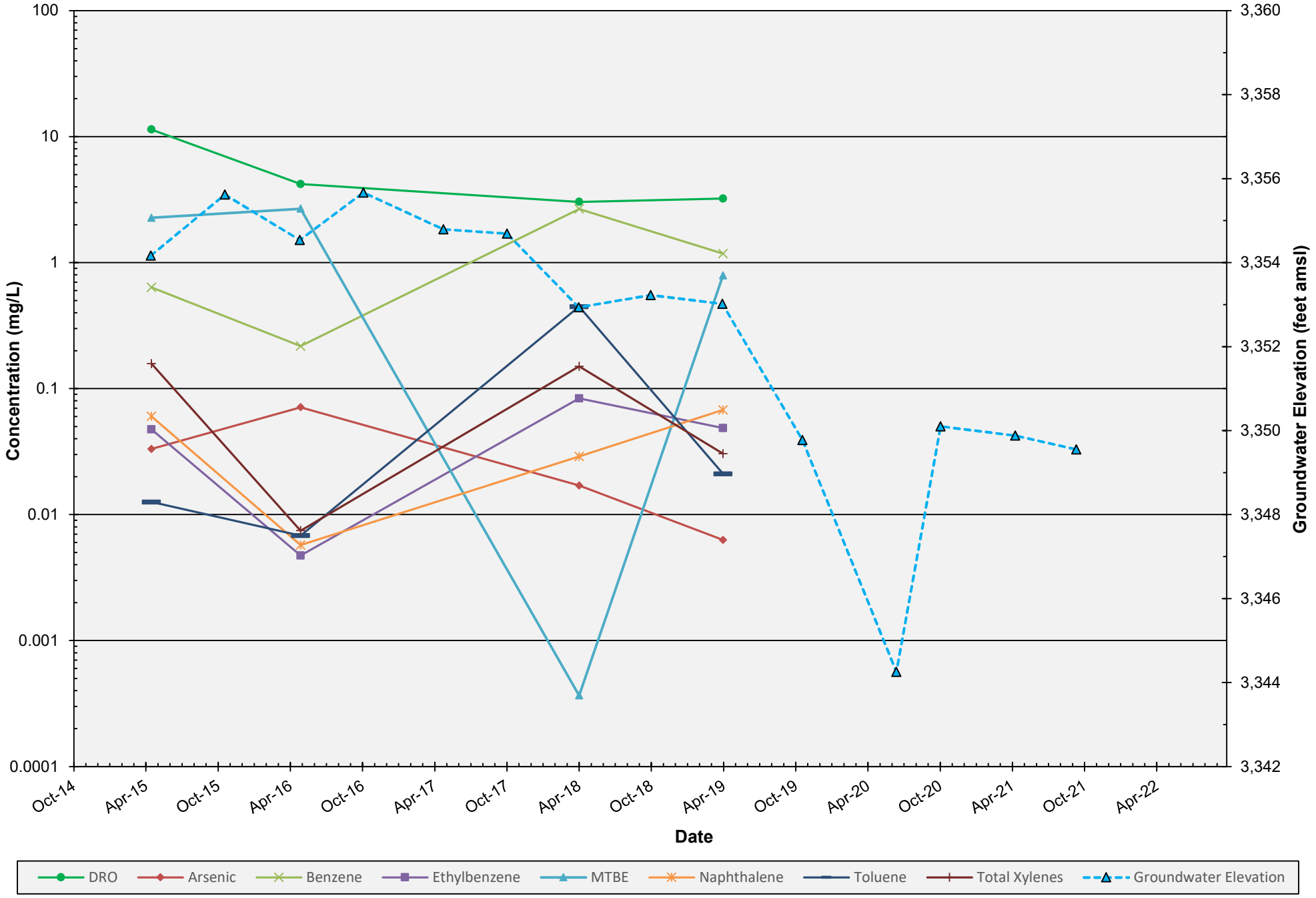
South Refinery Area



RW-6: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

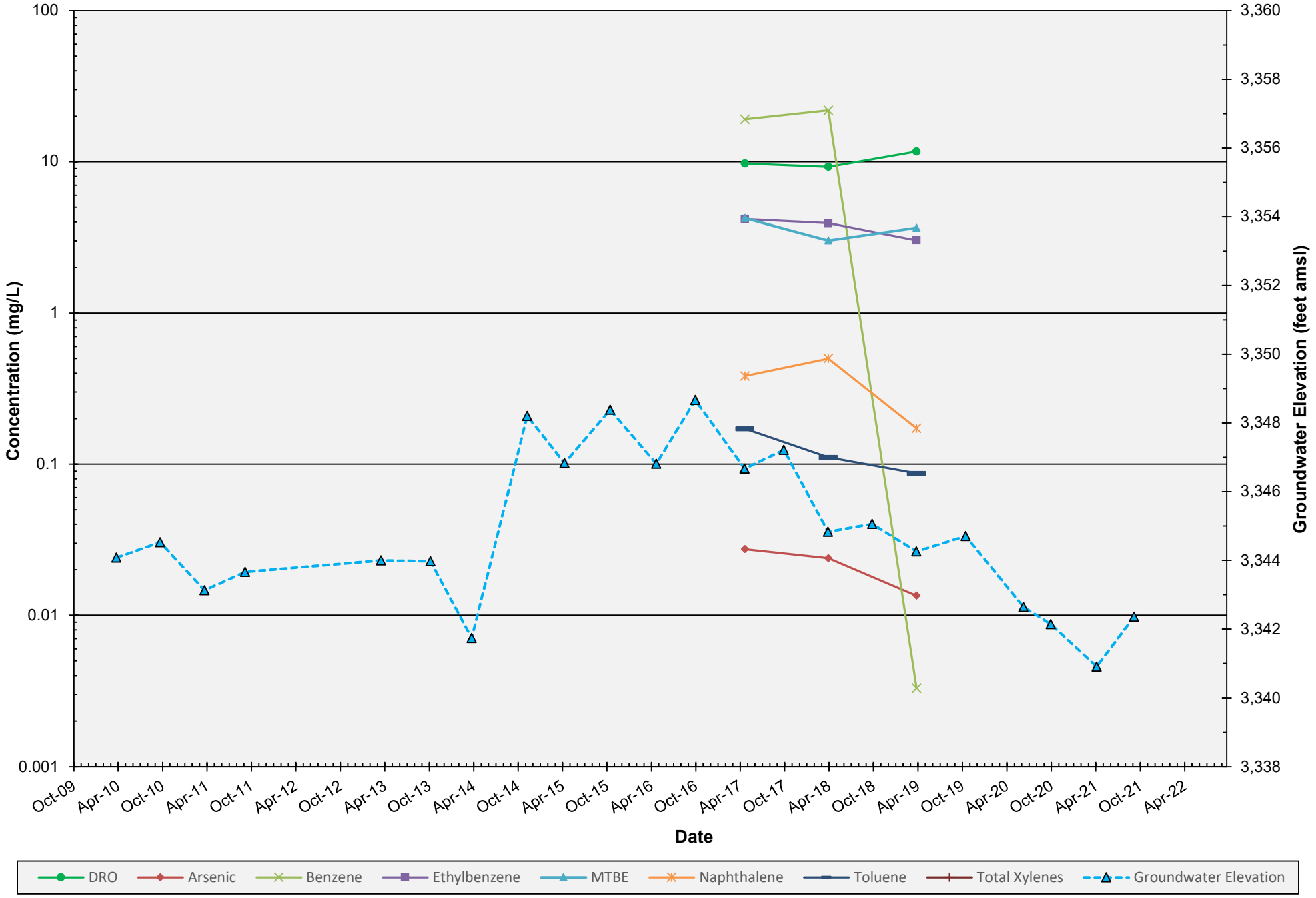
South Refinery Area



RW-15C: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

South Refinery Area

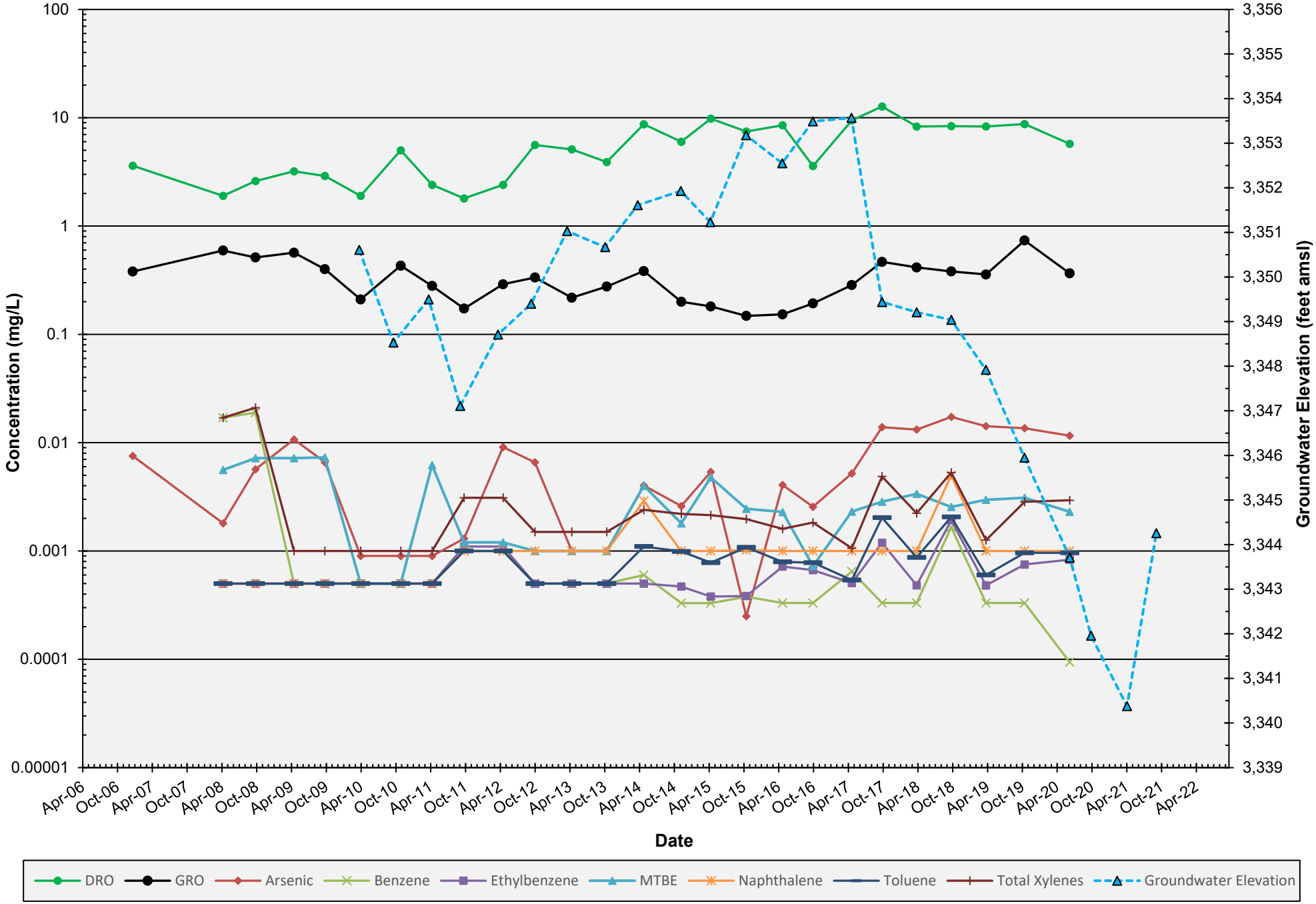


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TEL-1: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

Tetra Ethyl Lead Impoundment

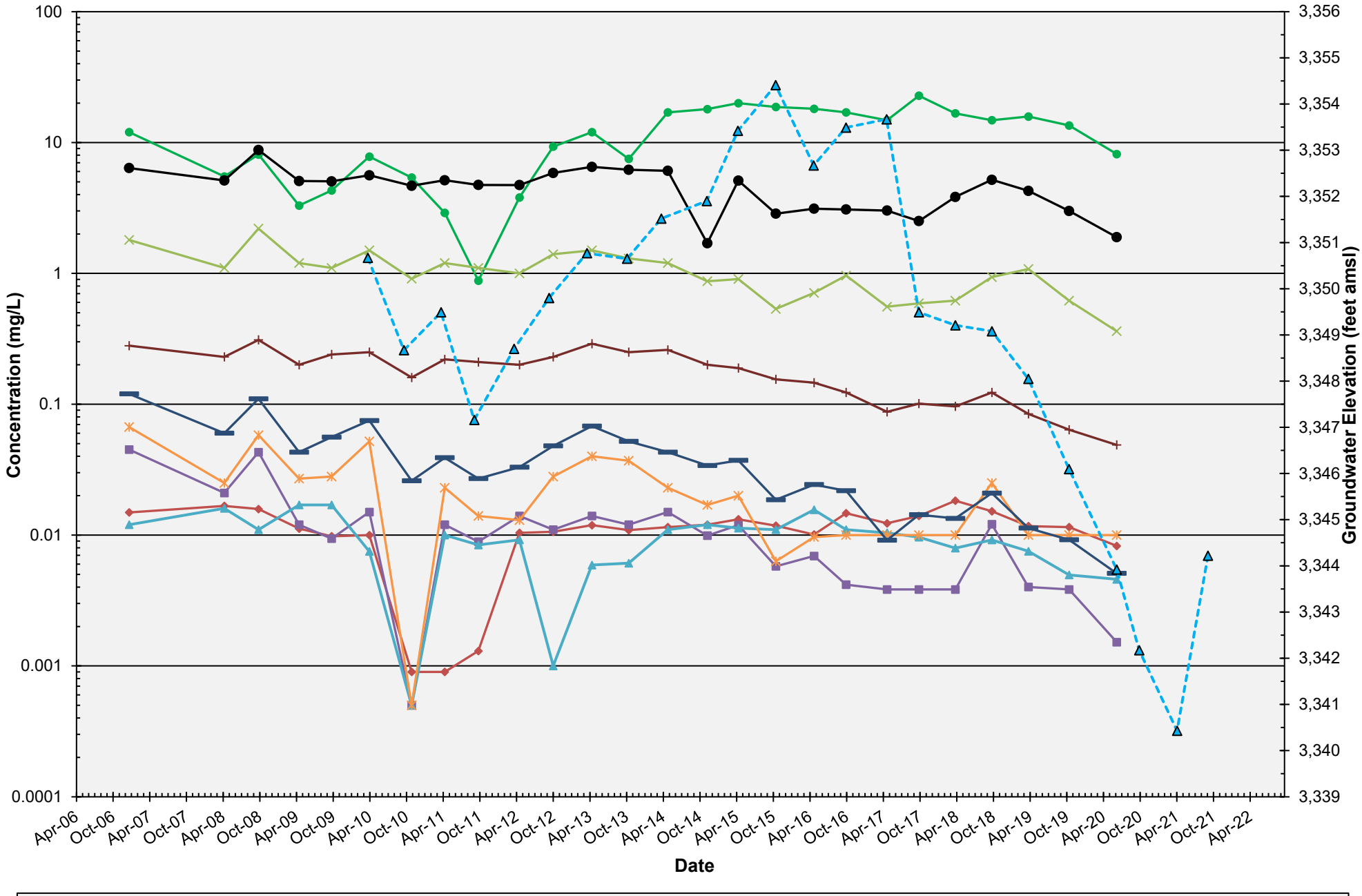


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TEL-2: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

Tetra Ethyl Lead Impoundment

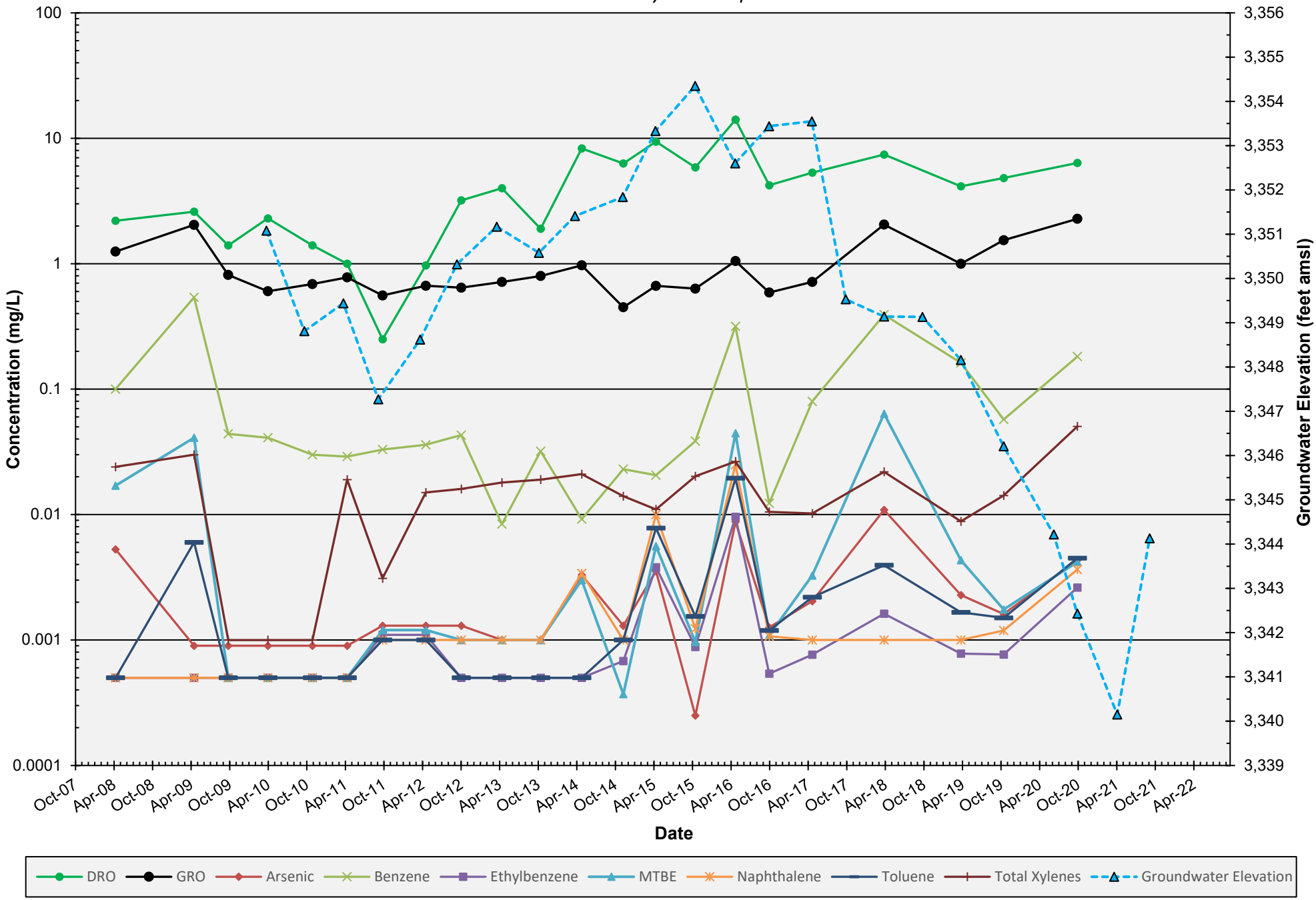


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TEL-3: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

Tetra Ethyl Lead Impoundment

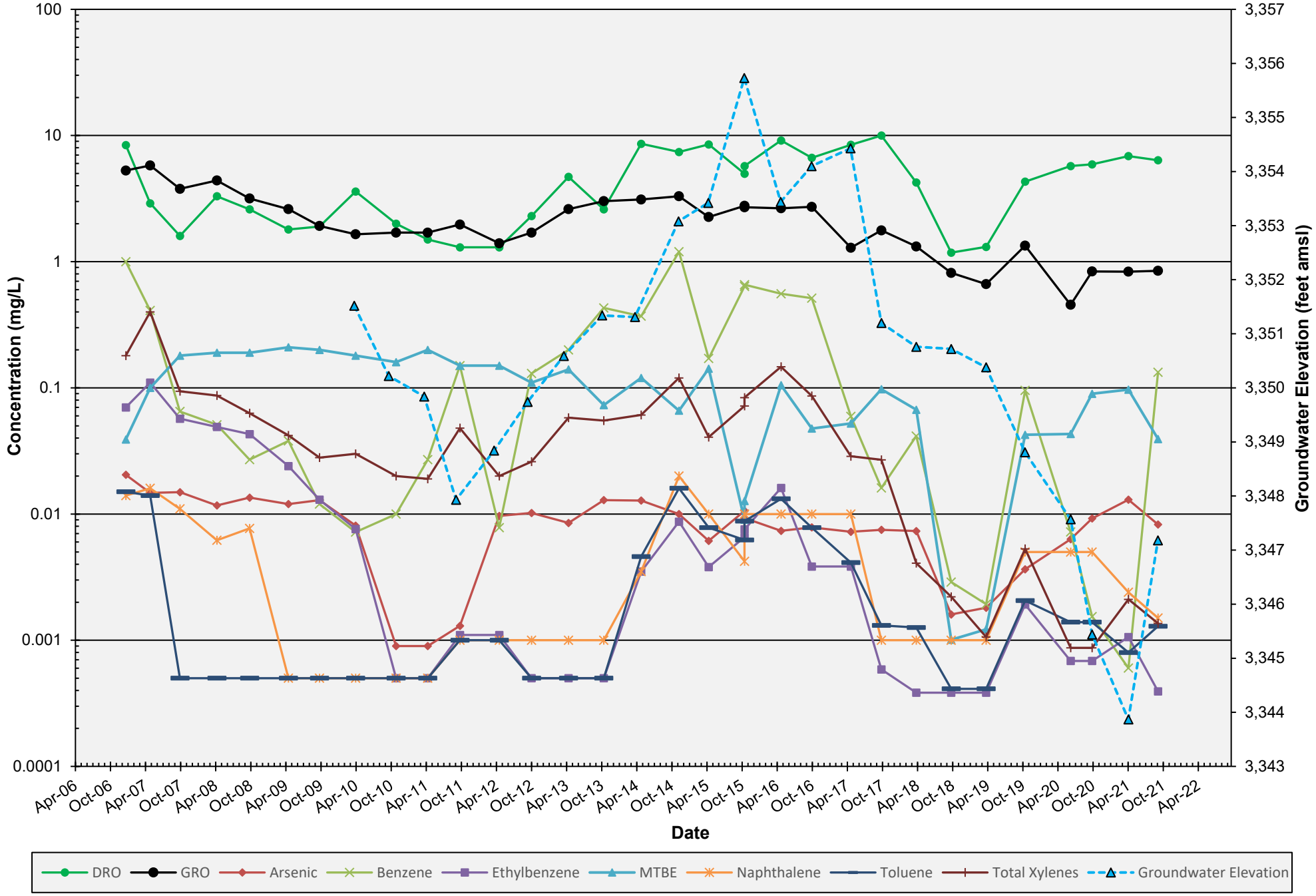


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TEL-4: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

Tetra Ethyl Lead Impoundment

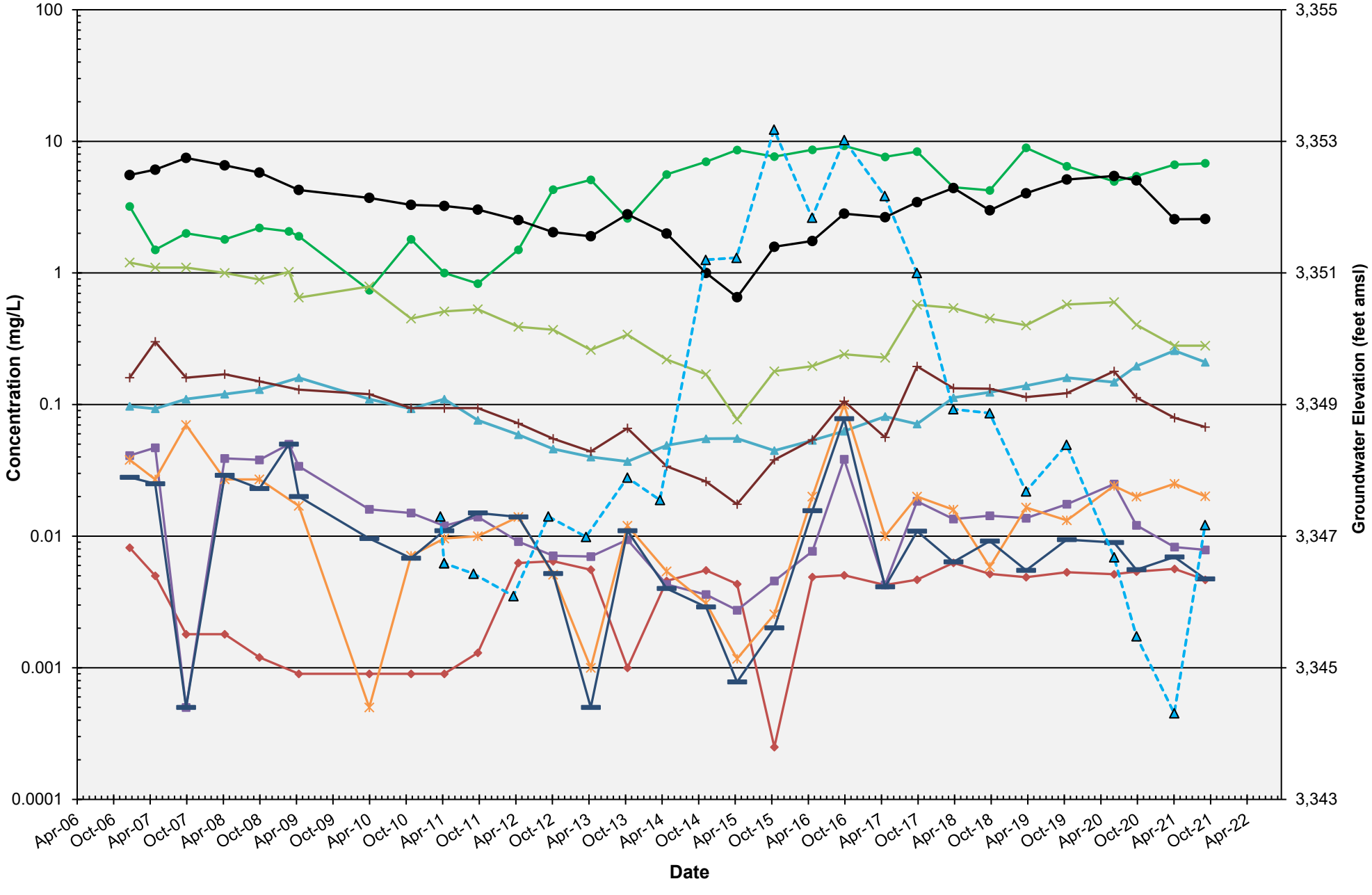


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MW-49: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

Tetra Ethyl Lead Impoundment

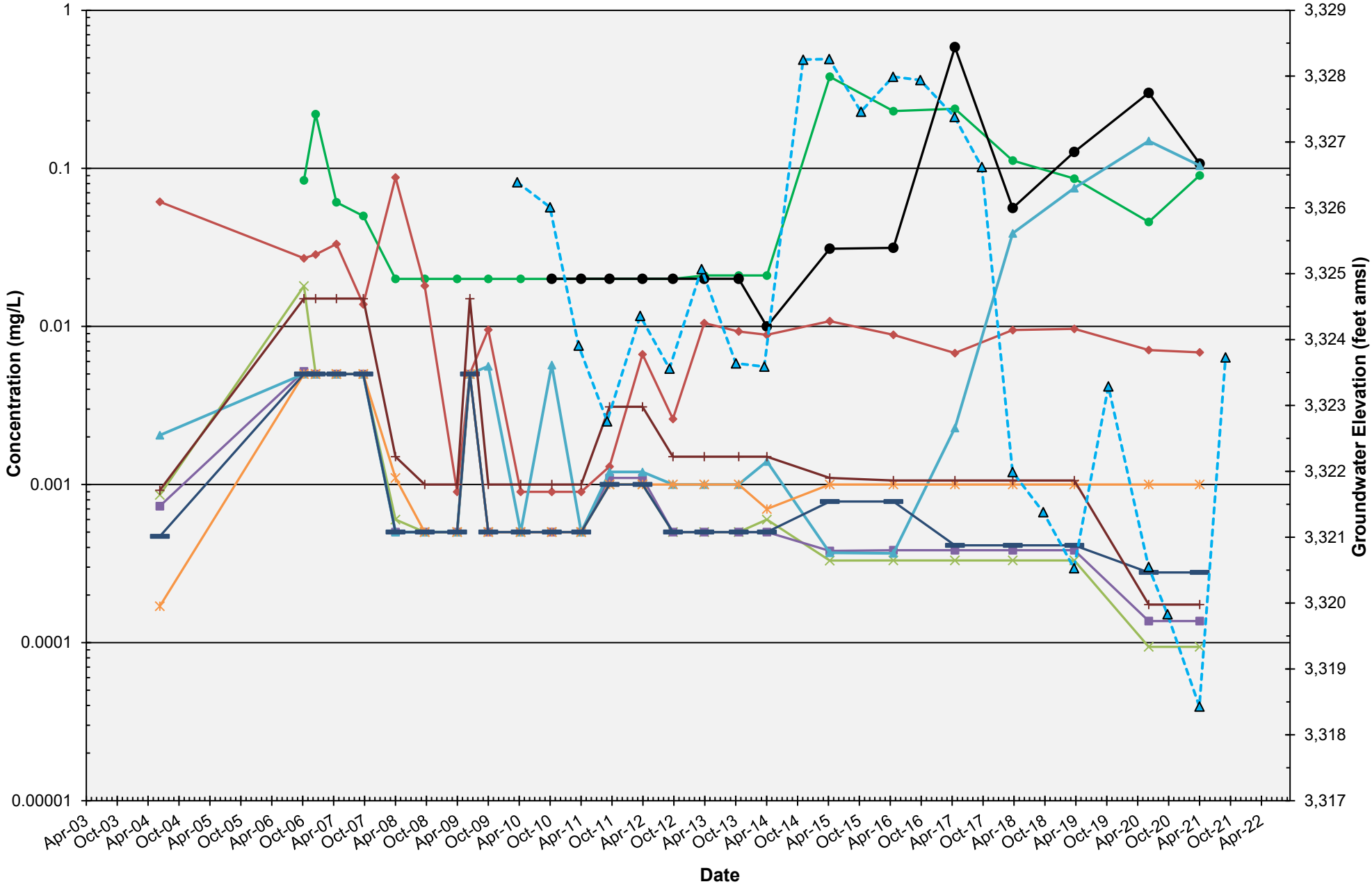


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MW-8: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

Three Mile Ditch

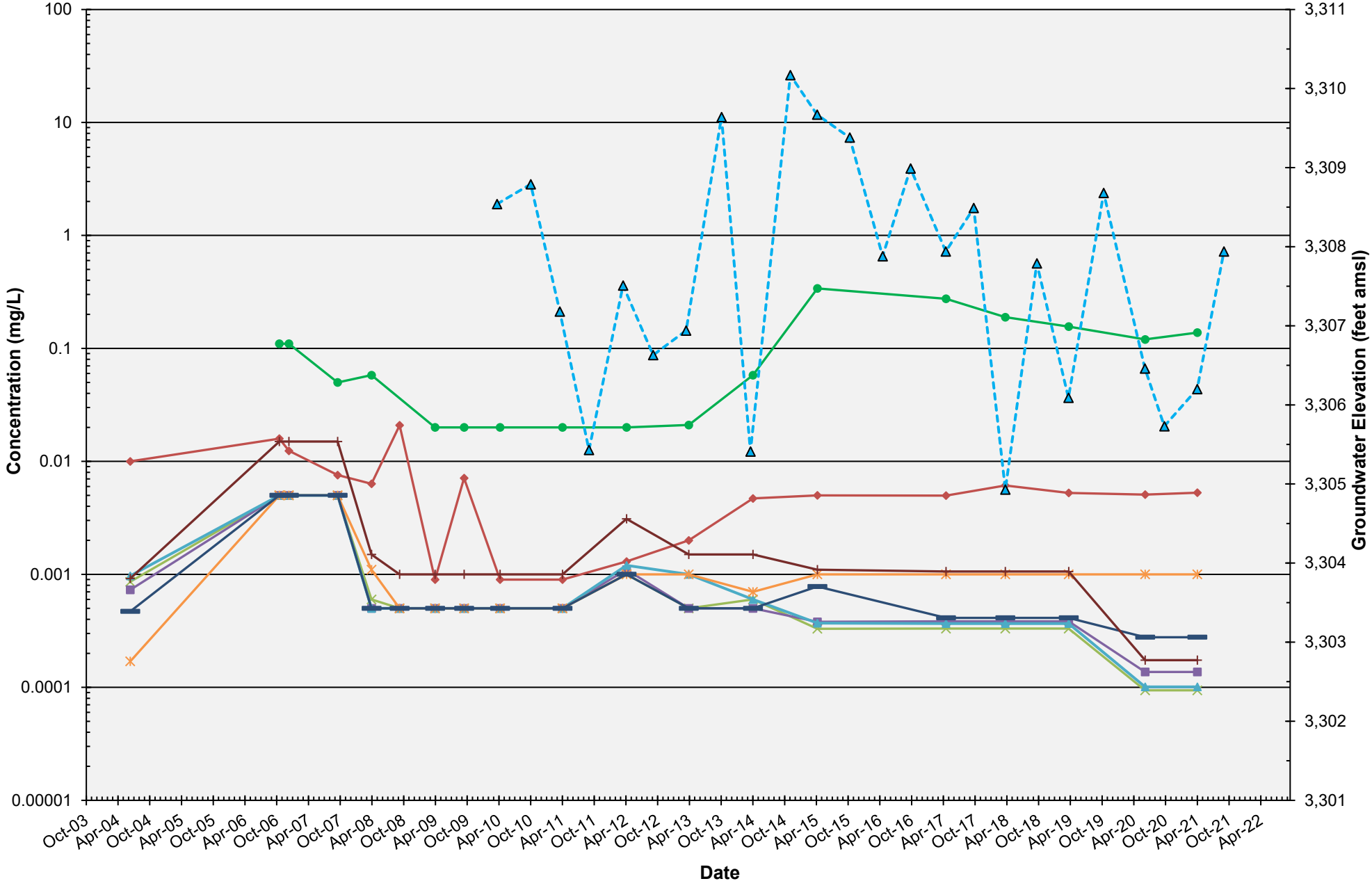


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MW-16: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

Three Mile Ditch

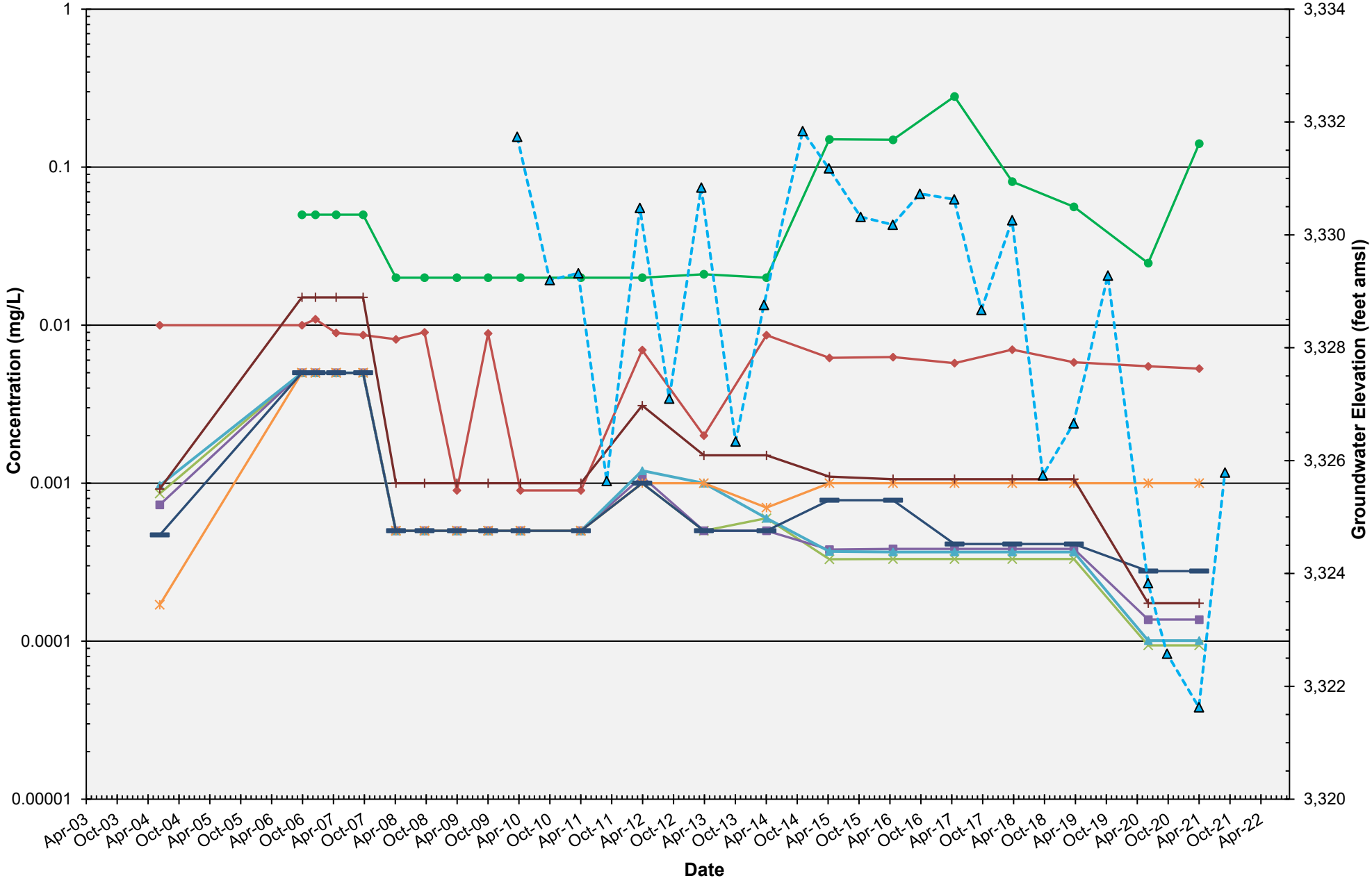


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MW-20: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

Three Mile Ditch

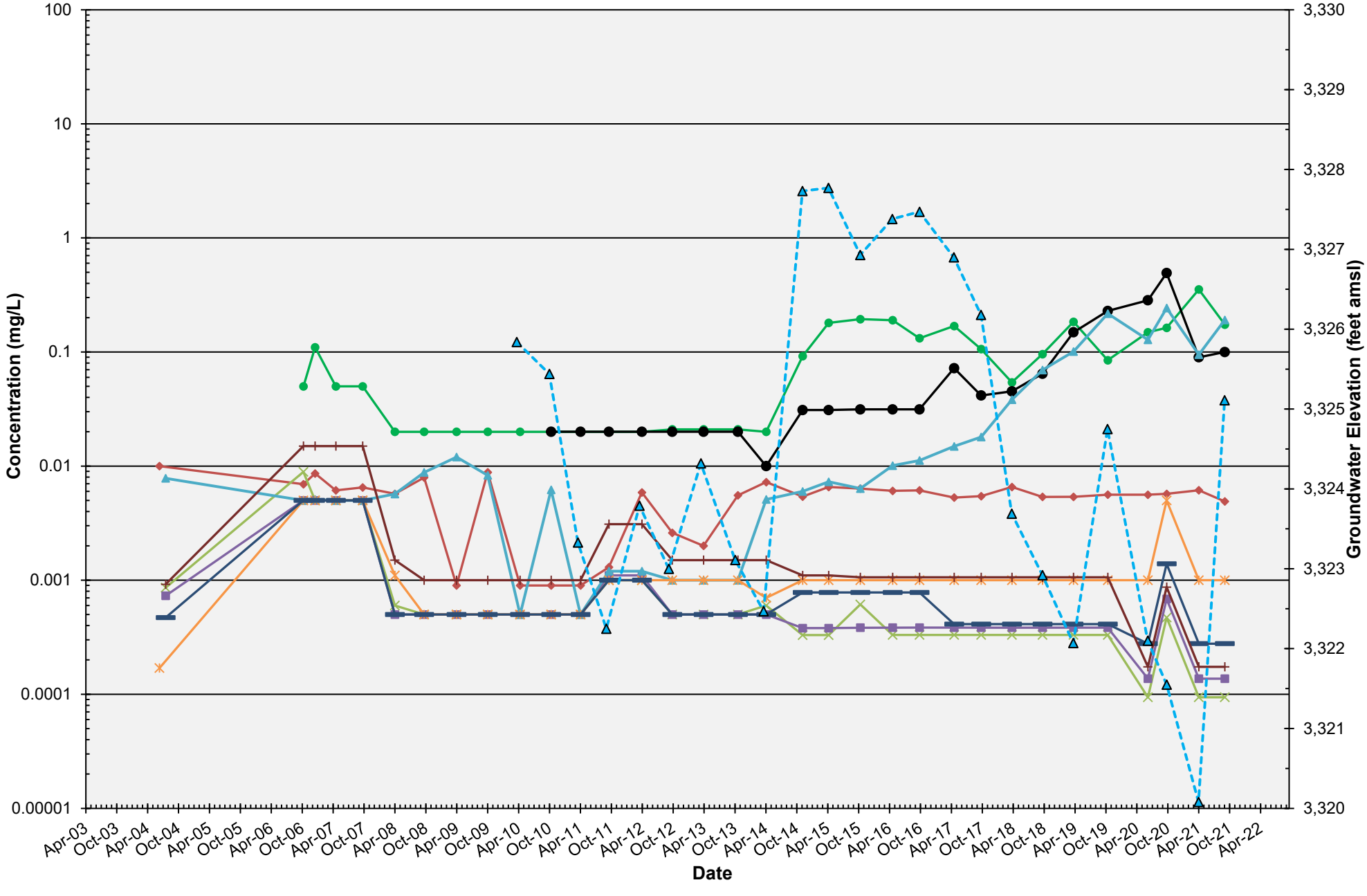


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MW-21: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

Three Mile Ditch

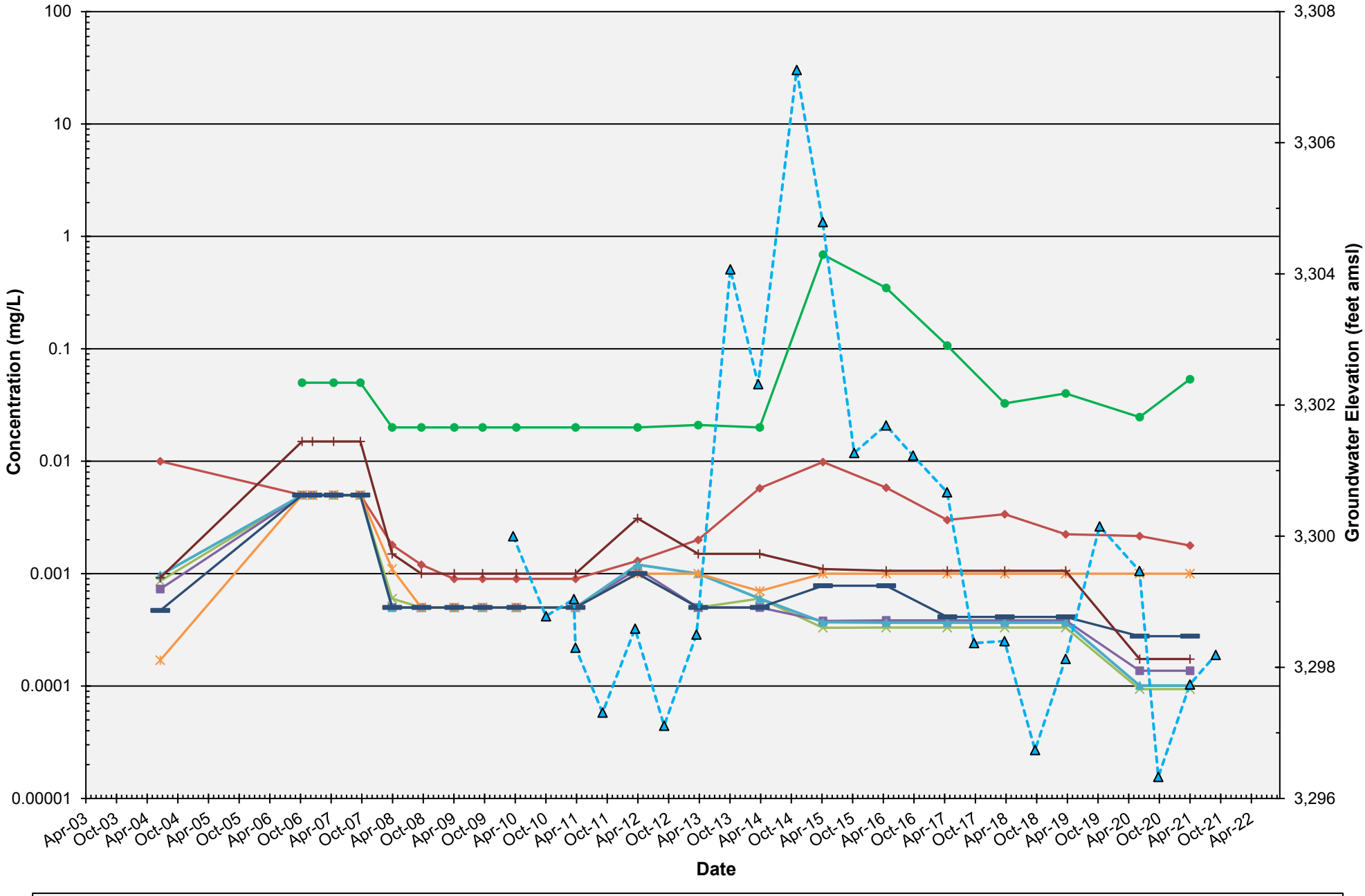


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MW-25: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

Three Mile Ditch

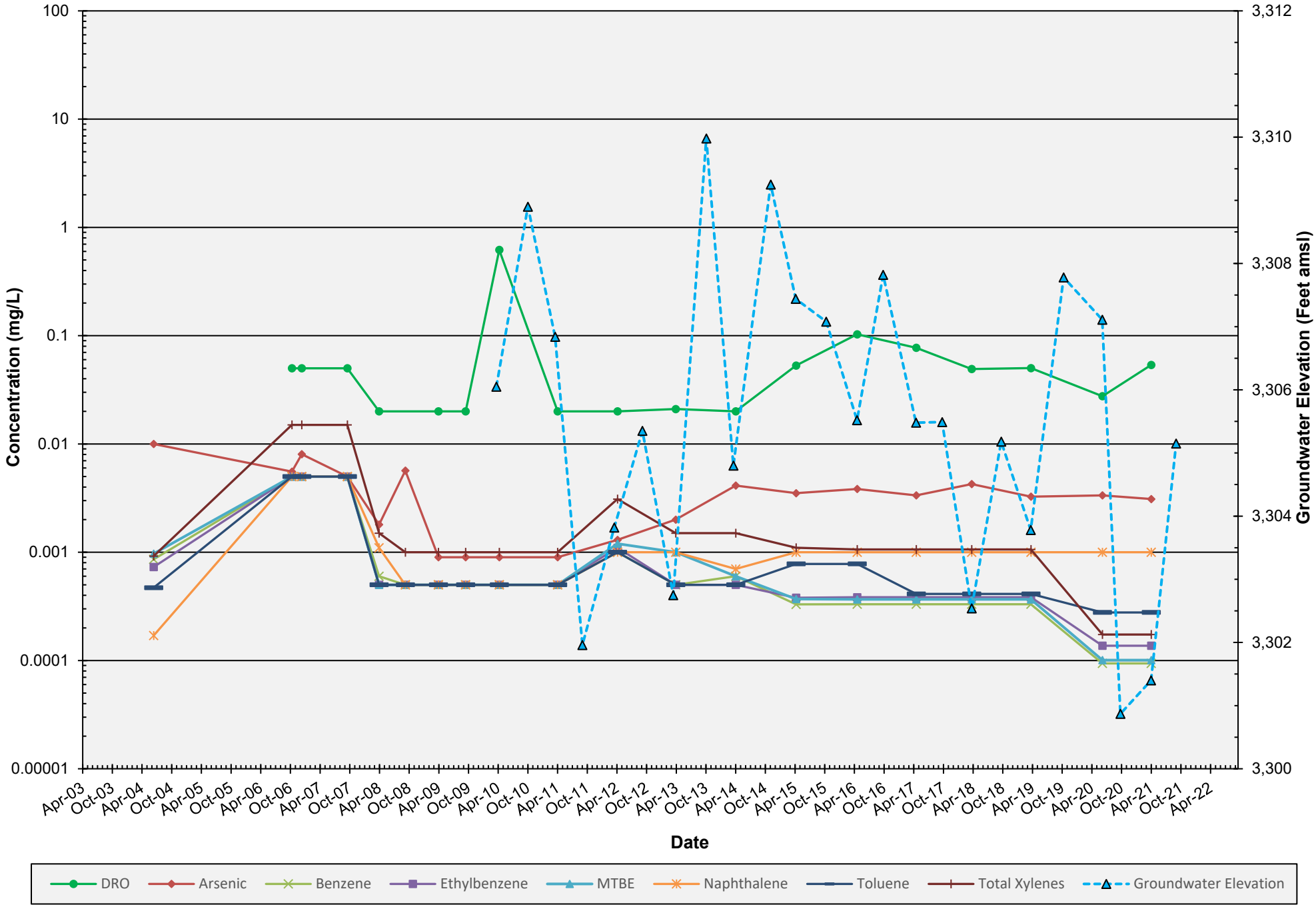


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Received by OCD: 1/9/2025 2:41:44 PM

MW-26: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

Three Mile Ditch

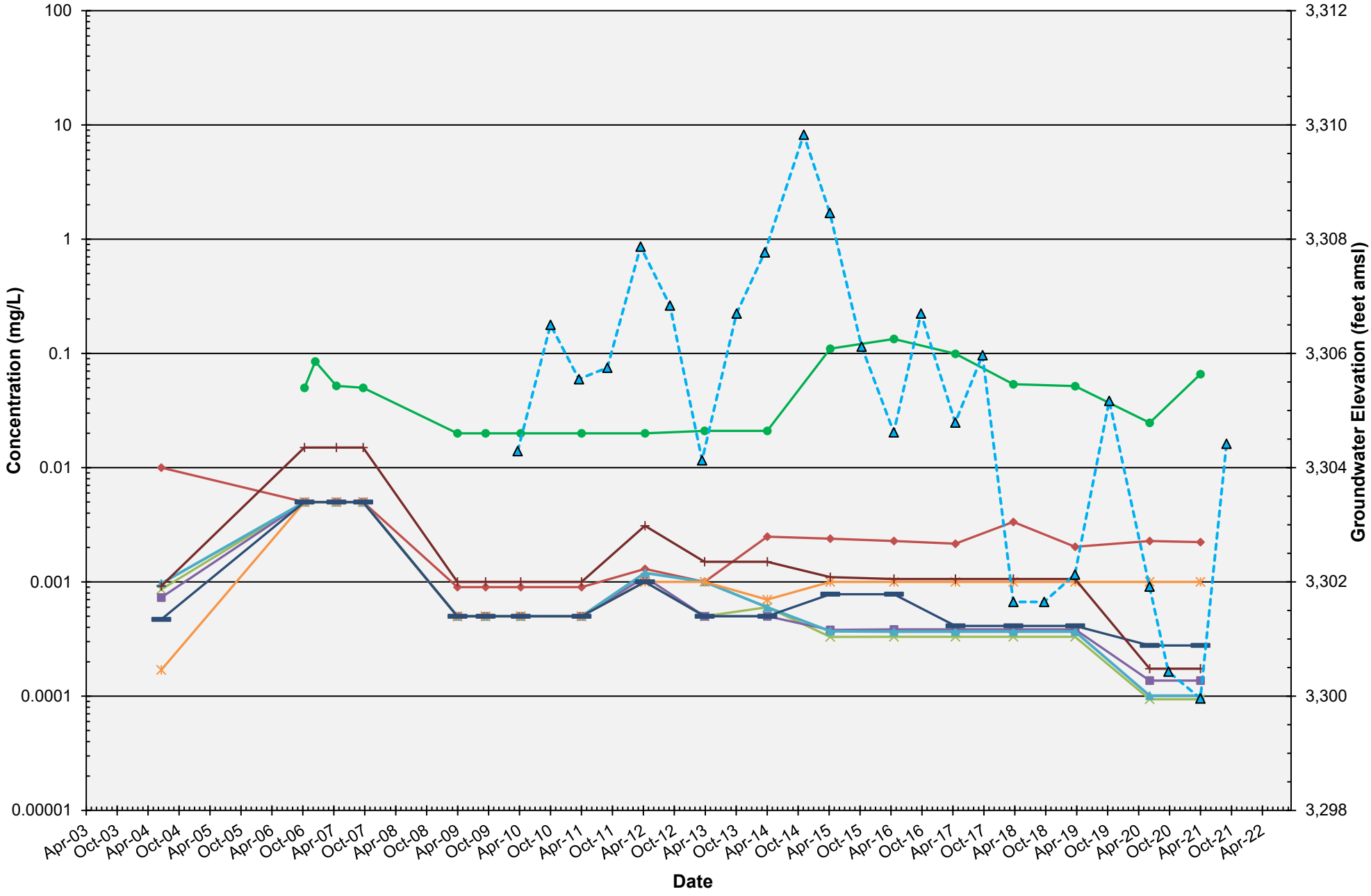


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MW-27: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

Three Mile Ditch

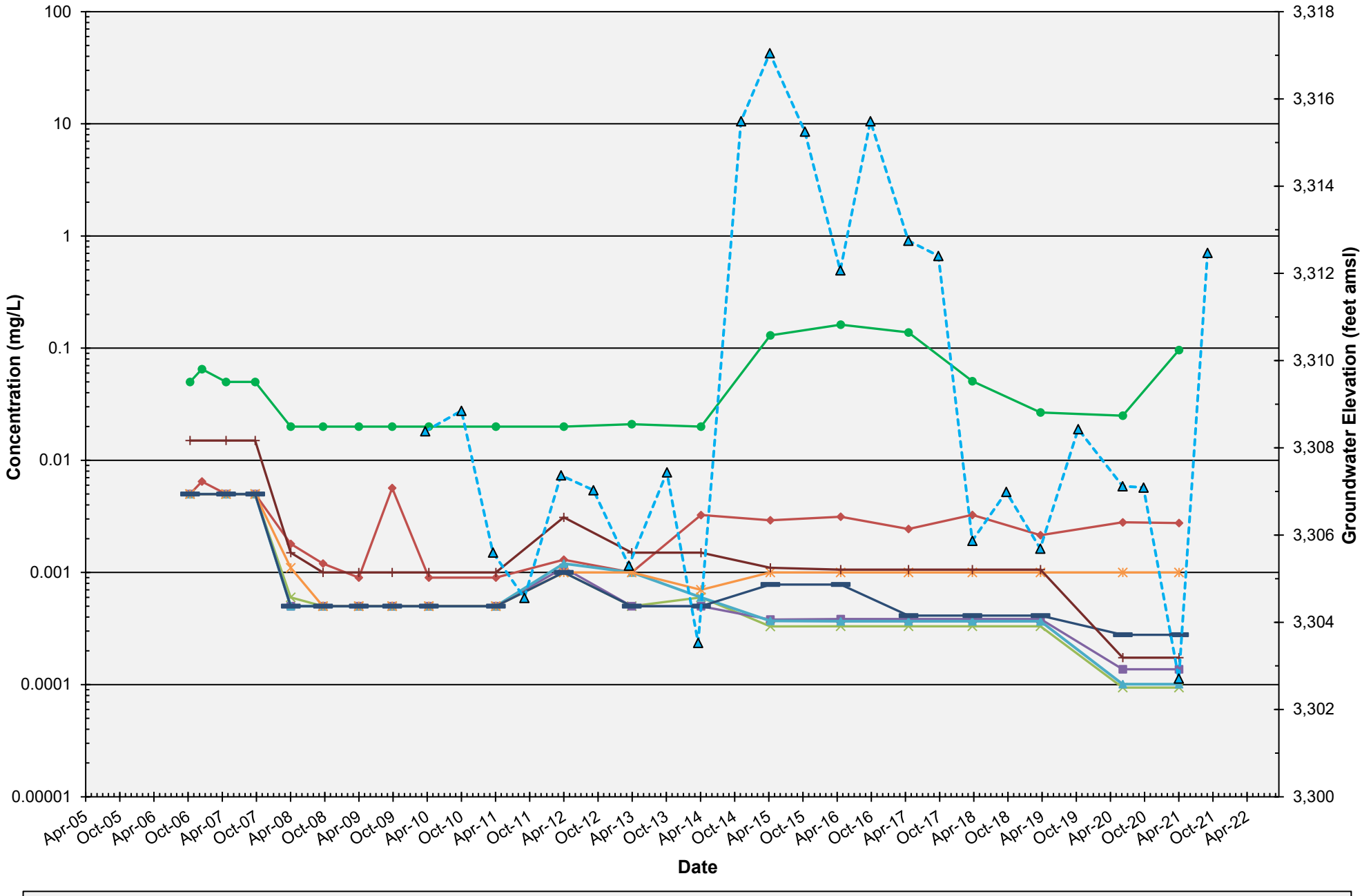


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Received by OCD: 1/9/2025 2:41:44 PM

MW-68: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

Three Mile Ditch

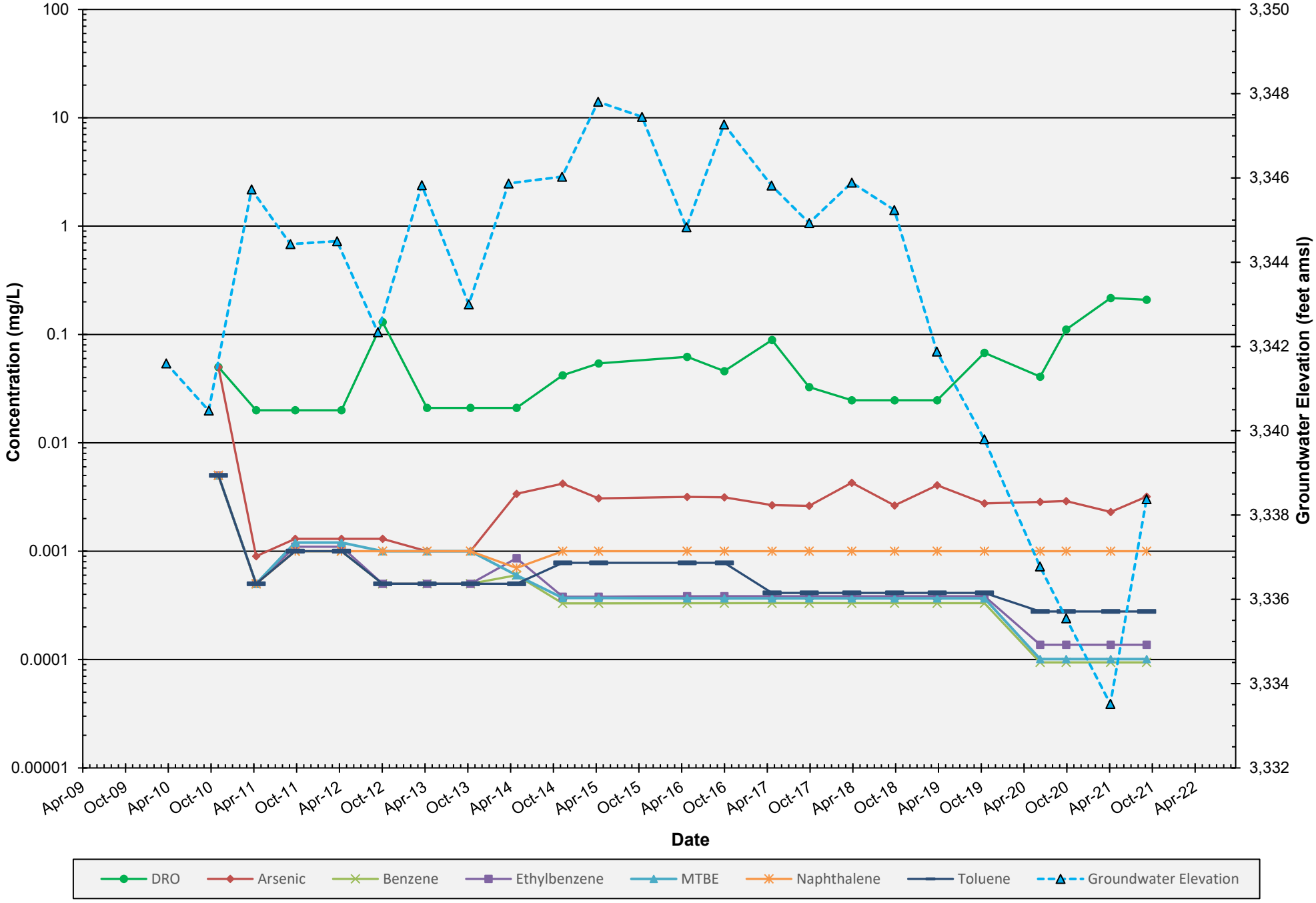


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MW-46 & MW-46R: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

Three Mile Ditch

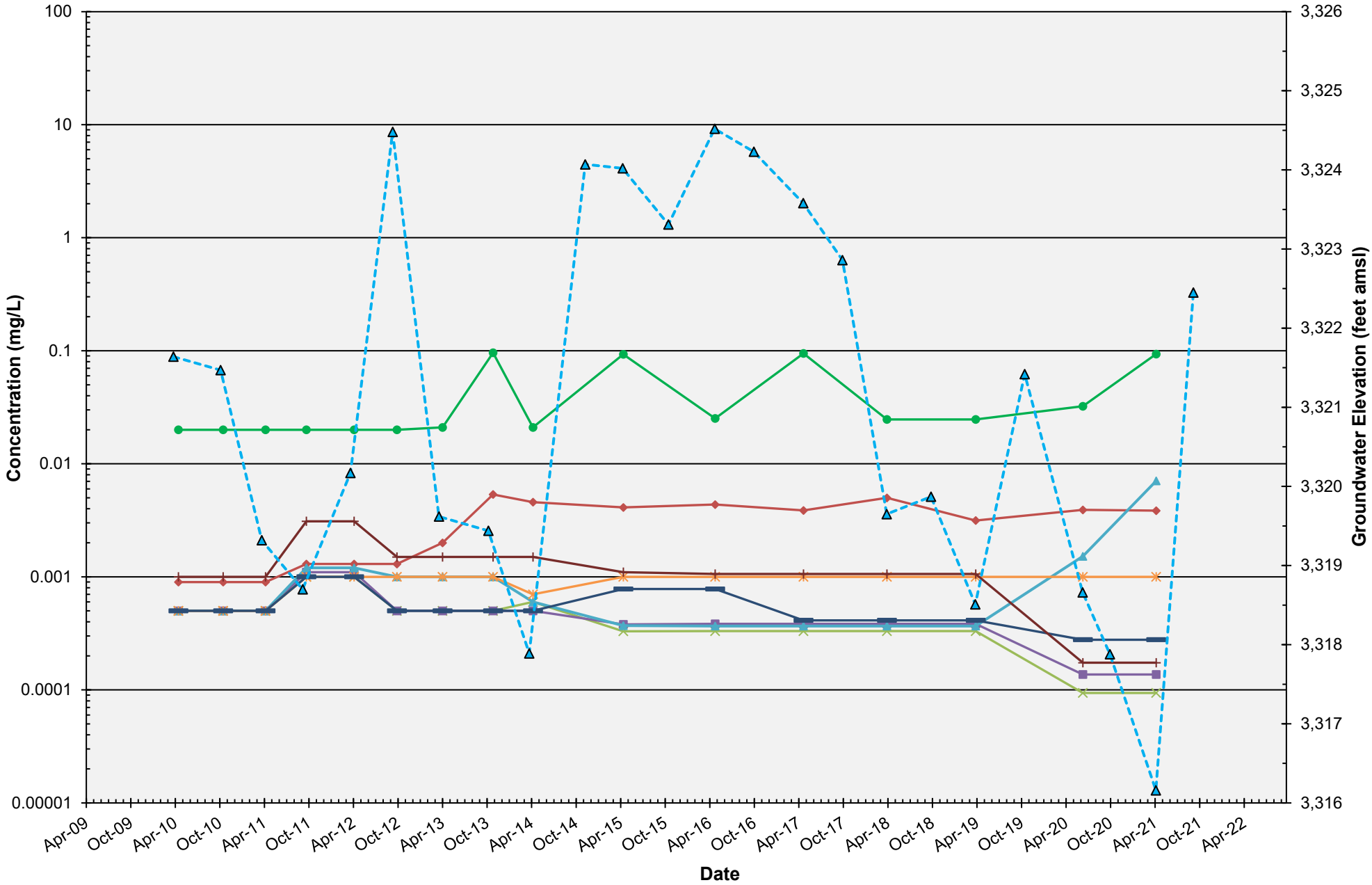


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Received by OCD: 1/9/2025 2:41:44 PM

MW-71: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

Three Mile Ditch

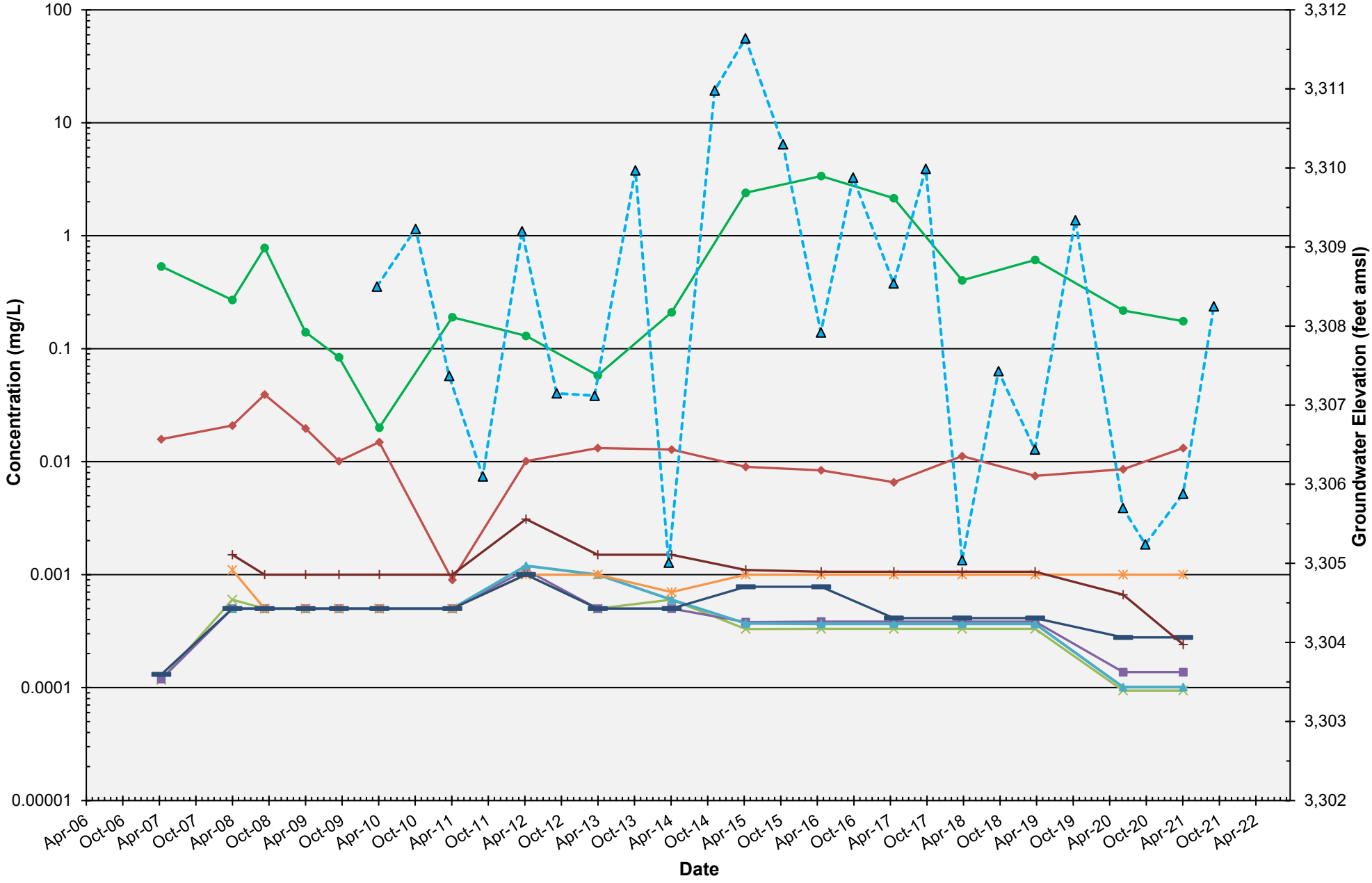


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Received by OCD: 1/9/2025 2:41:44 PM

MW-89: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

Three Mile Ditch

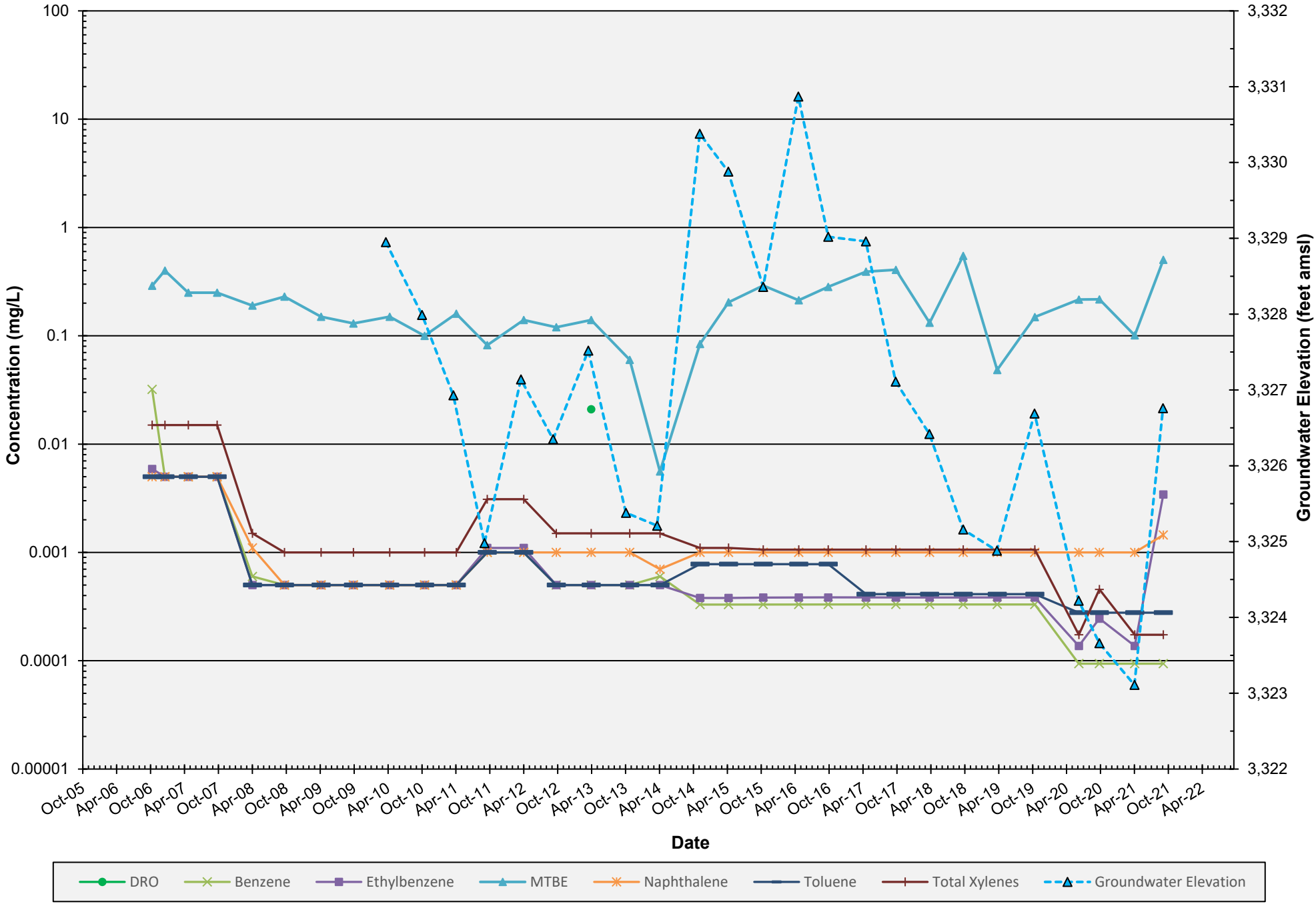


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Received by OCD: 1/9/2025 2:41:44 PM

NP-1: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

Three Mile Ditch

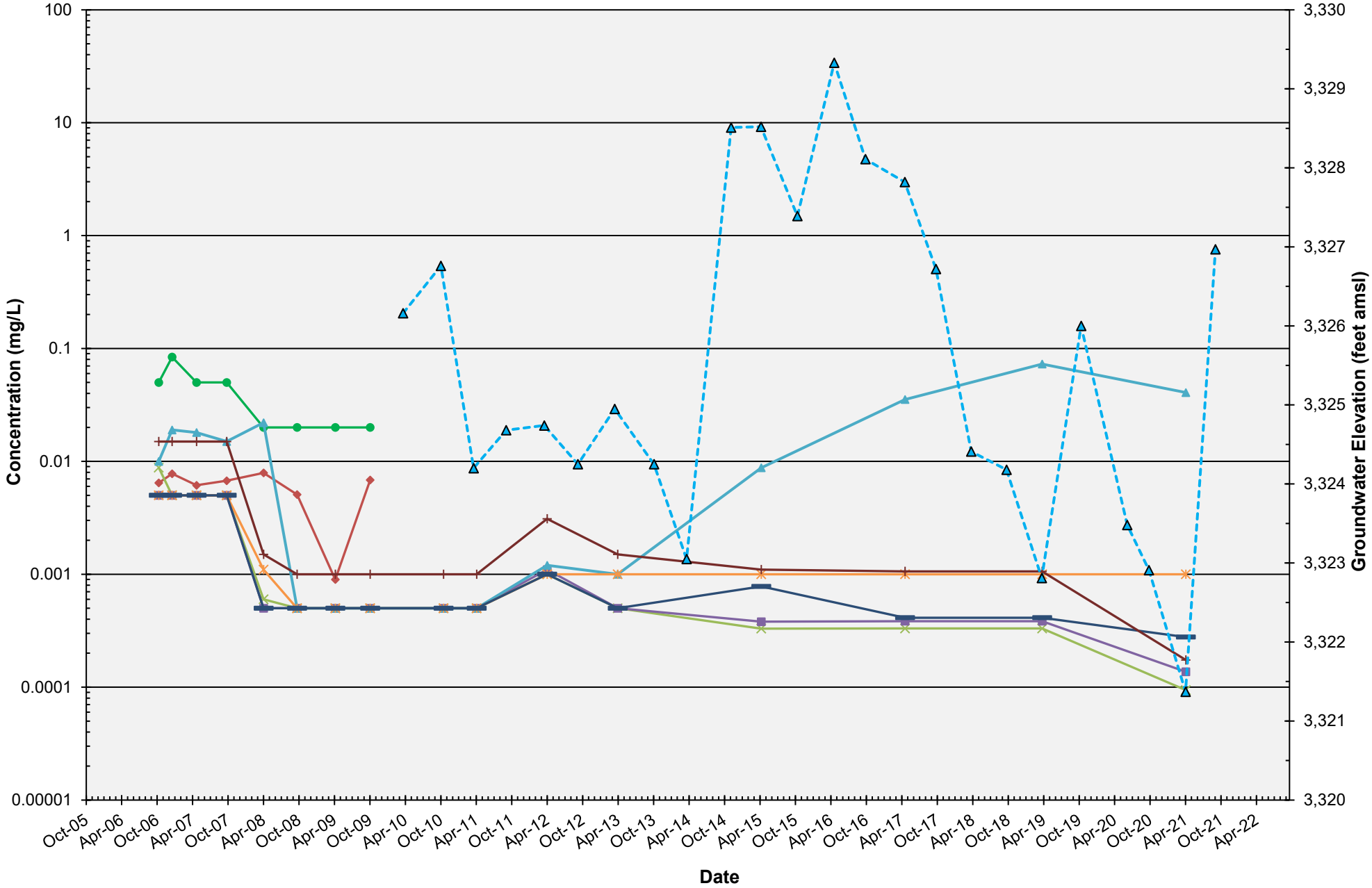


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NP-6: COC Concentrations and Groundwater Elevations

HollyFrontier Navajo Refining LLC - Artesia Refinery

Three Mile Ditch



Appendix D: Data Validation

Data reported by Pace Analytical in Mount Juliet, Tennessee, for the groundwater samples collected in April and September 2021 were reviewed to ensure that reported analytical results met the data quality requirements contained in the United States Environmental Protection Agency (USEPA) *National Functional Guidelines for Organic Superfund Methods Data Review* (USEPA, November 2020), *National Functional Guidelines for Inorganic Superfund Methods Data Review* (USEPA, November 2020), and the individual methods, as applicable. Quality control (QC) data indicate that measurement data are sufficient to meet method quality objectives, reported data are defensible, and QC mechanisms were generally effective in ensuring measurement data reliability within the expected limits of sampling and analytical error.

The following significant issue was identified. Due to lack of or inadequate preservation, the nondetect results for nitrate-nitrite in samples collected on April 13, 2021 (MW-4A, MW-4B, MW-5A, MW-5B, MW-5C, MW-7B, MW-10, MW-18A, MW-18B, MW-70, MW-87, MW-88, OCD-7B, OCD-8A, OCD-8B, DUP-EP-01, EB-EP-01, EB-EP-02 EB-EP-03, MW-64, MW-90, MW-106, MW-139, DUP-REST-02, EB-REST-02, EB-REST-05) and April 14, 2021 (MW-120, MW-84, MW-76, MW-77, MW-22A, MW-22B, MW-123, MW-11B, OCD-5, DUP-EP-02, EB-EP-04, DUP-REST-01, EB-REST-01, EB-REST-03, and MW-62R) are not useable for project objectives.

The following sections discuss the QC issues identified during the data review for each of the data reports listed below.

April 2021 Data Packages	September 2021 Data Package
L1338279	L1404404 (Revised 1/11/22)
L1339352	
L1339378	
L1339412	
L1339469	
L1339491	
L1340036	
L1340040	
L1340049	
L1340062	
L1340127	

Analytes that were detected in the both the associated blank and sample were evaluated as follows: Corresponding samples at concentrations within five times the maximum blank concentration for inorganic analytes and within 10 times the maximum blank concentrations for organic analytes may include measurement contributions from the laboratory (for method blanks) and/or field (for equipment and trip blanks).

The following criteria were used in evaluation of the field duplicates: When both results are ≥ five times the reporting limit (RL), relative percent differences (RPDs) must be <30%. When one or both results are < five times the RL, the absolute difference must be < the RL.

The following criteria were used in evaluation of laboratory duplicates: When both results are ≥ five times the RL, RPDs must be <20%.

Lab Report L1338279

Sample identifiers cross-referenced to laboratory identifications are presented below.

Sample ID	Lab ID
L1338279-01	UG-3R
L1338279-02	UG-4
L1338279-03	UG-1
L1338279-04	UG-2

Data Review Checklist	Yes	No	Not applicable
Did all samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X		
All samples within holding times?	X		
Any detection in method blanks?	X		
Any detection in equipment blanks?	X*		
Any detection in trip blanks?			X
Any LCS or LCS duplicates (LCSD) percent recoveries (%R) out of laboratory defined limits?	X		
Any LCS/LCSD RPD above laboratory defined limits?		X	
Any matrix spike (MS) or MS duplicate (MSD) %R outside of laboratory defined limits?		X	
Any MS/MSD RPD above laboratory defined limits?		X	
Any surrogate %R outside of laboratory defined limits?		X	
Any laboratory duplicate RPD above laboratory defined limits?		X	
Any field duplicate data additionally flagged as estimated?			X
Any analyte analyzed by a nonequivalent method than planned?		X	

Other

RLs for dissolved solids were 5 times higher than the associated method blank but the laboratory did not include a sample narrative explaining the elevated RLs. The samples were likely prepared at a reduced volume due to the elevated concentrations of dissolved solids. There is no impact on data usability since dissolved solids results were detected above the RLs in the affected samples.

Select samples were analyzed at dilutions for nitrate-nitrite, chloride, fluoride, and/or sulfate but the laboratory did not include a sample narrative explaining the dilutions. The samples were likely diluted due to the presence of these target and/or non-target analytes which would have exceeded the calibration range if undiluted. There is no impact on data usability since these analytes were detected in the diluted samples.

Laboratory Method Blanks

The following analytes were detected in the method blanks: cyanide, total chromium, total potassium, dissolved nickel, dissolved chromium, dissolved barium, and dissolved lead. The

analytes listed below were detected in the corresponding samples at concentrations within five times the method blank concentration. Therefore, these samples may include measurement contributions from the laboratory.

- Total chromium: UG-3R, UG-1, UG-2
- Dissolved nickel: UG-3R, UG-1, UG-2
- Dissolved chromium: UG-1

Equipment Blanks

Although an equipment blank was not submitted in this laboratory report, the equipment blank submitted with laboratory report L1339469 was evaluated with the samples in this laboratory report (L1338279) since they were collected within one day of each other and were from a similar location at the site. The following analytes were detected in one or both equipment blanks submitted with the data set in laboratory report L1339469, EB-REST-02 and/or EB-REST-05*: total barium, dissolved barium, total calcium, fluoride, total lead, total manganese, dissolved manganese, total sodium, and TPH (GC/FID) high fraction. The analytes listed below were detected in the corresponding samples at concentrations within five times the maximum equipment blank concentration for inorganic analytes and within 10 times the equipment blank concentrations for organic analytes. Therefore, these samples may include measurement contributions from the field.

- Dissolved barium: UG-1, UG-2, UG-3R, UG-4
- Fluoride: UG-4
- Total lead: UG-3R
- Total manganese: UG-1, UG-2, UG-3R, UG-4
- Dissolved manganese: UG-1, UG-3R, UG-4
- TPH (GC/FID) high fraction: UG-1, UG-2, UG-3R, UG-4

*The results for dissolved manganese in equipment blank sample EB-REST-02 and total barium in sample EB-REST-05 were less than five times the associated method blank concentrations in laboratory report L1339469 and were likely the result of laboratory contamination; therefore, these results did not likely impact any field sample results.

LCS/LCSD

The LCS/LCSD %Rs for bromodichloromethane (123%/121%), chloroform (122%/121%), and 1,1,1-trichloroethane (127%/125%) were above the laboratory-defined limits (75-120%, 73-120%, and 73-124%, respectively) in QC batch WG1652593. However, since these compounds were not detected in the samples from this this QC batch, UG-1, UG-2, UG-3R, and UG-4, there is no impact on data usability.

MS/MSDs

MS/MSD analyses were performed on sample UG-1 for total boron. All criteria were met.

Laboratory Duplicates

Laboratory duplicate analysis was performed on sample UG-4 for cyanide. All criteria were met.

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Lab Report L1339352

Sample identifiers cross-referenced to laboratory identifications are presented below.

Lab ID	Sample ID
L1339352-01	MW-6A
L1339352-02	MW-6B
L1339352-03	MW-122
L1339352-04	MW-74
L1339352-05	MW-73
L1339352-06	MW-2A
L1339352-07	MW-72
L1339352-08	OCD-6
L1339352-09	OCD-7AR
L1339352-10	OCD-7B
L1339352-11	MW-88
L1339352-12	MW-10
L1339352-13	MW-4A
L1339352-14	MW-4B
L1339352-15	MW-5A
L1339352-16	MW-5B
L1339352-17	MW-5C
L1339352-18	MW-7A
L1339352-19	MW-7B
L1339352-20	OCD-8A
L1339352-21	OCD-8B
L1339352-22	MW-87
L1339352-23	MW-18A
L1339352-24	MW-18B
L1339352-25	MW-70
L1339352-26	MW-124
L1339352-27	DUP-EP-01
L1339352-28	EB-EP-01
L1339352-29	EB-EP-02
L1339352-30	EB-EP-03
L1339352-31	TRIP BLANK-EP-01
L1339352-32	TRIP BLANK-EP-02

*Field duplicate of MW-7A

Items	Yes	No	Not applicable
Did all samples meet the laboratory's standard conditions of sample acceptability upon receipt?		X	
All samples within holding times?	X		
Any detection in method blanks?	X		
Any detection in equipment blanks?	X		

Items	Yes	No	Not applicable
Any detection in trip blanks?		X	
Any LCS/LCSD %R out of laboratory defined limits?	X		
Any LCS/LCSD RPD above laboratory defined limits?		X	
Any MS/MSD %R outside of laboratory defined limits?	X		
Any MS/MSD RPD above laboratory defined limits?		X	
Any surrogate %R outside of laboratory defined limits?		X	
Any laboratory duplicate RPD above laboratory defined limits?		X	
Any field duplicate data additionally flagged as estimated?	X		
Any analyte analyzed by a nonequivalent method than planned?		X	

Other

RLs for dissolved solids in all samples except the equipment blank were two to 40 times higher than the associated method blank but the laboratory did not include a sample narrative explaining the elevated RLs. The samples were likely prepared at a reduced volume due to the elevated concentrations of dissolved solids. There is no impact on data usability since dissolved solids results were detected above the RLs in the affected samples.

The laboratory noted that the VOC analysis of sample MW-6A was diluted 5-fold due to elevated concentrations of non-target analytes. Therefore, the RLs for VOCs in this sample were elevated accordingly.

Several samples were analyzed at dilutions for nitrate-nitrite, total sodium, total lead, dissolved manganese, chloride, fluoride, sulfate, and/or TPH (GC/FID) high fraction but the laboratory did not include a sample narrative explaining the dilutions. The samples were likely diluted either due to matrix interference and/or the presence of target and/or non-target analytes which would have exceeded the calibration range if undiluted. There is no impact on data usability for nitrate-nitrite, total sodium, dissolved manganese, chloride, fluoride, sulfate, and/or TPH (GC/FID) high fraction since these analytes were detected above the RLs in the diluted samples. The nondetect RLs for total lead in several samples were elevated accordingly.

The results for total and dissolved manganese in samples MW-73 and MW-122 may be considered estimated since the dissolved result exceeded the total result by greater than 20% and both results were greater than 5x the RL.

Standard Conditions

The laboratory noted that several sample analyses were performed from an unpreserved, insufficiently or inadequately preserved sample container for nitrate-nitrite. Thus,

- **The nondetect results for nitrate-nitrite in samples OCD-7B, MW-88, MW-10, MW-4A, MW-4B, MW-5A, MW-5B, MW-5C, MW-7B, OCD-8A, OCD-8B, MW-87, MW-18A, MW-18B, MW-70, DUP-EP-01, EB-EP-01, EB-EP-02 and EB-EP-03 are not useable for project objectives.**
- The positive results for nitrate-nitrite in samples MW-122, MW-74, MW-73, MW-2A, MW-72, OCD-6, OCD-7AR, MW-7A, and MW-124 may be biased low.

Laboratory Method Blanks

The following analytes were detected in the method blanks: dissolved boron, dissolved barium, dissolved chromium, total iron, total chromium, and TPH (GC/FID) low fraction. The analytes listed below were detected in the corresponding samples at concentrations within five times the method blank concentration for inorganic analytes and within 10 times the method blank concentration for organic analytes. Therefore, these samples may include measurement contributions from the laboratory.

- Dissolved barium: EB-EP-01, EB-EP-02, EB-EP-03
- Total iron: MW-88, MW-7B, OCD-8B, MW-18A, MW-18B
- Dissolved chromium: MW-6A, MW-74
- Total chromium: MW-18A, DUP-EP-01
- TPH (GC/FID) low fraction: MW-6A, MW-6B, MW-72, OCD-6, OCD-7B, MW-88, MW-4B, MW-5B, MW-7A

Equipment Blanks

The following analytes were detected in one or more of the equipment blank samples, EB-EP-01*, EB-EP-2*, and/or EB-EP-03*: total barium, dissolved barium, total calcium, chloride, dissolved chromium, fluoride, and total potassium. The analytes listed below were detected in the corresponding samples at concentrations within five times the maximum equipment blank concentrations for inorganic analytes. Therefore, these samples may include measurement contributions from the field.

- Dissolved chromium: MW-5B, MW-6A**, MW-7A, MW-70, MW-74**

*The results for dissolved barium in these samples were also less than five times the associated method blank concentration as noted above.

** The results for dissolved chromium in these samples were also less than five times the associated method blank concentration as noted above.

LCS/LCSD

The LCS/LCSD %Rs for chloromethane (202%/202%) and the LCSD %R for naphthalene (VOC) (138%) were above the laboratory-defined limits (41-142% and 54-135%, respectively) in QC batch WG1653529. However, since these compounds were not detected in the samples from this this QC batch, MW-2A, MW-4A, MW-4B, MW-5A, MW-5B, MW-6A, MW-6B, MW-10, MW-72, MW-73, MW-74, MW-88, MW-122, OCD-6, OCD-7AR, and OCD-7B, there is no impact on data usability.

The LCS %R for chloromethane (158%) was above the laboratory-defined limits (41-142%) in QC batch WG1653772. However, since this compound was not detected in the samples from this this QC batch, TRIP BLANK-EP-01 and TRIP BLANK-EP-02, there is no impact on data usability.

MS/MSDs

MS and/or MS/MSD analyses were performed on the following samples:

- MW-5A, MW-73, MW-10, EB-EP-03: Nitrate-nitrite
- MW-5C, MW-6B: Chloride, fluoride, sulfate
- MW-2A, MW-124: Dissolved metals
- OCD-7AR: Total metals

The %R of nitrate-nitrite in the MS (111%) performed on sample MW-5A was outside of the laboratory-defined recovery limits (90-110%); although nitrate-nitrite was not reported from this same QC batch in the parent sample, this result indicates a potential high bias for nitrate-nitrite in the other project samples from this QC batch. Therefore, the positive result for nitrate-nitrite in samples MW-6A and MW-6B may be biased high.

The %Rs of nitrate-nitrite in the MS (85.6%) and MSD (87.2%) performed on sample MW-10 were below the laboratory-defined recovery limits (90-110%); therefore, the positive and nondetect results for nitrate-nitrite in samples MW-4A, MW-4B, MW-5A, MW-5B, MW-5C, MW-7A, MW-7B, MW-10, MW-18A, MW-18B, MW-70, MW-87, MW-88, MW-124, OCD-8A, OCD-8B, and DUP-EP-01 may be biased low.

The %Rs of chloride and sulfate in the MS and/or MSD performed on samples MW-6B and MW-5C were outside of the laboratory-defined recovery limits (80-120%). However, the concentrations of these analytes in the unspiked sample were greater than four times the spiked concentrations; thus, the %Rs of chloride and sulfate were not used to evaluate potential matrix effects.

The %Rs of dissolved manganese in the MS and MSD performed on sample MW-2A were outside of the laboratory-defined recovery limits (75-125%). However, the concentration of dissolved manganese in the unspiked sample was greater than four times the spiked concentration; thus, the %Rs of dissolved manganese were not used to evaluate potential matrix effects.

The %Rs of total calcium, total manganese, and total sodium in the MS and/or MSD performed on sample OCD-7AR were outside of the laboratory-defined recovery limits (75-125%). However, the concentrations of these analytes in the unspiked sample were greater than four times the spiked concentrations; thus, the %Rs of total calcium, total manganese, and total sodium were not used to evaluate potential matrix effects.

Laboratory Duplicates

Laboratory duplicate analyses were performed on the following samples:

- MW-4B, MW-5B, MW-18B: Dissolved solids
- MW-4B, MW-122, MW-88, EB-EP-02: Nitrate-nitrite
- MW-6A, MW-4A: Chloride, fluoride, sulfate

All criteria were met.

Field Duplicates

Samples MW-7A/DUP-EP-01 were submitted as the field duplicate pair. The RPDs for total arsenic (68.9%), chloride (51.8%), total chromium (100.9%), total iron (93.3%), and sulfate (48.9%) were above the acceptance criteria (30%) in field duplicate pair MW-7A/ DUP-EP-01.

Therefore, the positive results for total arsenic, chloride, total chromium, total iron, and sulfate in samples MW-7A and DUP-EP-01 may be considered estimated.

Lab Report L1339378

Sample identifiers cross-referenced to laboratory identifications are presented below.

Lab ID	Sample ID
L1339378-01	MW-55
L1339378-02	NCL-33
L1339378-03	NCL-44
L1339378-04	NCL-32
L1339378-05	MW-108
L1339378-06	NCL-31
L1339378-07	MW-18
L1339378-08	MW-54A
L1339378-09	MW-54B
L1339378-10	NCL-49
L1339378-11	MW-53R
L1339378-12	DUP-NCL-01*
L1339378-13	EB-NCL-01
L1339378-14	TRIP BLANK-NCL-01

*Field duplicate of NCL-49

Items	Yes	No	Not applicable
Did all samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X		
All samples within holding times?	X		
Any detection in method blanks?	X		
Any detection in equipment blanks?	X		
Any detection in trip blanks?		X	
Any LCS/LCSD %R out of laboratory defined limits?	X		
Any LCS/LCSD RPD above laboratory defined limits?		X	
Any MS/MSD %R outside of laboratory defined limits?	X		
Any MS/MSD RPD above laboratory defined limits?		X	
Any surrogate %R outside of laboratory defined limits?		X	
Any laboratory duplicate RPD above laboratory defined limits?		X	
Any field duplicate data additionally flagged as estimated?		X	
Any analyte analyzed by a nonequivalent method than planned?		X	

Other

RLs for dissolved solids in all samples except the equipment blank were 2.5-5 times higher than the associated method blank but the laboratory did not include a sample narrative explaining the elevated RLs. The samples were likely prepared at a reduced volume due to the elevated concentrations of dissolved solids. There is no impact on data usability since dissolved solids results were above the RLs in the affected samples.

Several samples were analyzed at dilutions for nitrate-nitrite, chloride, sulfate, VOCs, and/or TPH (GC/FID) high fraction but the laboratory did not include a sample narrative explaining the dilutions. The samples were likely diluted either due to matrix interference and/or the presence of target and/or non-target analytes which would have exceeded the calibration range if undiluted. There is no impact on data usability for nitrate/nitrite, chloride, sulfate, select VOCs, and TPH (GC/FID) high fraction since these analytes were detected above the RLs in the diluted samples. The nondetect RLs for select VOCs in select samples were elevated accordingly.

Laboratory Method Blanks

The following analytes were detected in the method blanks: dissolved barium, total iron, and total chromium. The analytes listed below were detected in the corresponding samples at concentrations within five times the method blank concentration for inorganic analytes. Therefore, these samples may include measurement contributions from the laboratory.

- Total iron: MW-53R
- Total chromium: MW-54A MW-108, NCL-32, NCL-31, NCL-44

Equipment Blanks

The following analytes were detected in the equipment blank sample, EB-NCL-01: nitrate-nitrite, total and dissolved barium, and TPH (GC/FID) high fraction. The analytes listed below were detected in the corresponding samples at concentrations within five times the maximum equipment blank concentration for inorganic analytes and within 10 times the equipment blank concentrations for organic analytes. Therefore, these samples may include measurement contributions from the field.

- Nitrate-nitrite: MW-53R, MW-54A, MW-54B, MW-55, NCL-33, NCL-44, NCL-31
- TPH (GC/FID) high fraction: NCL-49, MW-53R, DUP-NCL-01

LCS/LCSD

The LCS %R for chloromethane (158%) was above the laboratory-defined limits (41-142%) in QC batch WG1653772. However, since this compound was not detected in the samples from this QC batch, all samples in this lab report, there is no impact on data usability.

MS/MSD

MS and/or MS/MSD analyses were performed on the following samples:

- MW-18: Nitrate-nitrite
- MW-54B, EB-NCL-01: Chloride, fluoride, sulfate
- DUP-NCL-01, EB-NCL-01: Total metals

The %R of nitrate-nitrite in the MS (79.6%) performed on sample MW-18 was below the laboratory-defined recovery limits (90-110%); therefore, the positive and nondetect results for nitrate-nitrite in all samples from this lab report except EB-NCL-01 and TRIP BLANK-NCL-01 may be biased low.

The %R of sulfate in the MS performed on sample MW-54B was below the laboratory-defined recovery limits (80-120%). However, the concentration of sulfate in the unspiked sample was greater than four times the spiked concentration; thus, the %R of sulfate was not used to evaluate potential matrix effects.

The %Rs of total calcium and sodium in the MS and/or MSD performed on sample DUP-NCL-01 were outside of the laboratory-defined recovery limits (75-125%). However, the concentrations of these analytes in the unspiked sample were greater than four times the spiked concentration; thus, the %Rs of total calcium and sodium were not used to evaluate potential matrix effects.

Laboratory Duplicates

Laboratory duplicate analyses were performed on the following samples:

- MW-53R, MW-108, NCL-31: Dissolved solids
- NCL-33, NCL-32: Nitrate-nitrite
- MW-108, EB-NCL-01: Chloride, fluoride, sulfate

The RPD (6.87%) for dissolved solids in the duplicate analysis performed on sample MW-55 exceeded the laboratory's acceptance criteria (5%). However, there was no impact on the data usability since the RPD was within the acceptance criteria used in this evaluation (20%).

Field Duplicates

Samples NCL-49 and DUP-NCL-01 were submitted as the field duplicate pair. All criteria were met.

Lab Report L1339412

Sample identifiers cross-referenced to laboratory identifications are presented below.

Lab ID	Sample ID
L1339412-01	TEL-4
L1339412-02	DUP-TEL-01*
L1339412-03	EB-TEL-01
L1339412-04	TRIP BLANK-TEL-01

*Field duplicate of TEL-4

Items	Yes	No	Not applicable
Did all samples meet the laboratory's standard conditions of sample acceptability upon receipt?		X	
All samples within holding times?		X	
Any detection in method blanks?		X	
Any detection in equipment blanks?	X		
Any detection in trip blanks?		X	
Any LCS/LCSD %R out of laboratory defined limits?	X		
Any LCS/LCSD RPD above laboratory defined limits?		X	
Any MS/MSD %R outside of laboratory defined limits?		X	
Any MS/MSD RPD above laboratory defined limits?		X	
Any surrogate %R outside of laboratory defined limits?		X	
Any laboratory duplicate RPD above laboratory defined limits?		X	
Any field duplicate data additionally flagged as estimated?		X	
Any analyte analyzed by a nonequivalent method than planned?		X	

Other

RLs for dissolved solids in samples TEL-4 and DUP-TEL-01 were 2 times higher than the associated method blank but the laboratory did not include a sample narrative explaining the elevated RLs. The samples were likely prepared at a reduced volume due to the elevated concentration of dissolved solids. There is no impact on data usability since dissolved solids results were above the RLs in the affected samples.

Samples TEL-4 and DUP-TEL-01 were analyzed at dilutions for chloride and sulfate but the laboratory did not include a sample narrative explaining the dilutions. The samples were likely diluted due to the presence of target analytes which would have exceeded the calibration range if undiluted. There is no impact on data usability for chloride and sulfate since these analytes were detected above the RLs in the diluted samples.

Standard Conditions/Holding Times

The laboratory noted that the TPH (GC/FID) high fraction analysis of sample DUP-TEL-01 was performed using a container with a pH outside of the method requirement (≤2). This pH issue shortens the extraction holding time to seven days and this sample was extracted for TPH

(GC/FID) high fraction after seven days of collection. Therefore, the positive result for TPH (GC/FID) high fraction in sample DUP-TEL-01 may be biased low.

Equipment Blanks

The following analytes were detected in the equipment blank sample, EB-TEL-01: total barium, dissolved barium, total calcium, total lead, total manganese, dissolved manganese, and nitrate-nitrite. The analytes listed below were detected in the corresponding samples at concentrations within five times the equipment blank concentration for inorganic analytes. Therefore, these samples may include measurement contributions from the field.

- Total lead and nitrate-nitrite: TEL-4, DUP-TEL-01

LCS/LCSD

The LCS %R for chloromethane (158%) was above the laboratory-defined limits (41-142%) in QC batch WG1653772. However, since this compound was not detected in the samples from this this QC batch, all samples in this lab report, there is no impact on data usability.

MS/MSDs

MS analysis was performed on sample EB-TEL-01 for chloride, fluoride, and sulfate. All criteria were met.

Laboratory Duplicates

Laboratory duplicate analyses were performed on the following samples:

- TEL-4: Dissolved solids
- EB-TEL-01: Chloride, fluoride, sulfate

All criteria were met.

Field Duplicates

Samples TEL-4 and DUP-TEL-01 were submitted as the field duplicate pair. All criteria were met.

Lab Report L1339469

Sample identifiers cross-referenced to laboratory identifications are presented below.

Lab ID	Sample ID
L1339469-01	MW-135
L1339469-02	MW-117
L1339469-03	MW-118
L1339469-04	MW-119
L1339469-05	NP-5
L1339469-06	MW-136
L1339469-07	MW-126B
L1339469-08	KWB-1C
L1339469-09	MW-57
L1339469-10	KWB-12B
L1339469-11	KWB-13
L1339469-12	MW-104
L1339469-13	MW-98
L1339469-14	RW-10
L1339469-15	MW-106
L1339469-16	MW-50
L1339469-17	MW-90
L1339469-18	DUP-REST-02*
L1339469-19	DUP-REST-05**
L1339469-20	EB-REST-05
L1339469-21	TRIP BLANK-REST-02
L1339469-22	MW-139
L1339469-23	MW-145
L1339469-24	MW-146
L1339469-25	MW-148
L1339469-26	KWB-11B
L1339469-27	MW-103
L1339469-28	MW-64
L1339469-29	EB-REST-02
L1339469-30	MW-147

*Field duplicate of MW-104
** Field duplicate of KWB-12B

Items	Yes	No	Not applicable
Did all samples meet the laboratory's standard conditions of sample acceptability upon receipt?		X	
All samples within holding times?		X	
Any detection in method blanks?	X		
Any detection in equipment blanks?	X		
Any detection in trip blanks?	X		

Items	Yes	No	Not applicable
Any LCS/LCSD %R out of laboratory defined limits?	X		
Any LCS/LCSD RPD above laboratory defined limits?		X	
Any MS/MSD %R outside of laboratory defined limits?	X		
Any MS/MSD RPD above laboratory defined limits?		X	
Any surrogate %R outside of laboratory defined limits?	X		
Any laboratory duplicate RPD above laboratory defined limits?		X	
Any field duplicate data additionally flagged as estimated?		X	
Any analyte analyzed by a nonequivalent method than planned?		X	

Other

RLs for dissolved solids in all samples except samples MW-64, MW-104, DUP-REST-02, EB-REST-05, and EB-REST-02 were 2-10 times higher than the associated method blank but the laboratory did not include a sample narrative explaining the elevated RLs. The samples were likely prepared at a reduced volume due to the elevated concentration of dissolved solids. There is no impact on data usability since dissolved solids results were above the RLs in the affected samples.

Several samples were analyzed at dilutions for select metals, nitrate-nitrite, chloride, fluoride, sulfate, TPH (GC/FID) low fraction, TPH (GC/FID) high fraction, and/or VOCs but the laboratory did not include a sample narrative explaining the dilutions. The samples were likely diluted either due to matrix interference and/or the presence of target and/or non-target analytes which would have exceeded the calibration range if undiluted. There is no impact on data usability for select metals, nitrate-nitrite (except samples MW-98 and MW-103 as noted below), chloride, fluoride, sulfate, TPH (GC/FID) low fraction, TPH (GC/FID) high fraction, and select VOCs since these analytes were detected above the MDLs and/or RLs in the diluted samples. The nondetect RLs for nitrate-nitrite and select VOCs in samples MW-98 and MW-103 were elevated accordingly.

The results for total and dissolved arsenic in sample MW-90, and total and dissolved manganese in samples MW-64 and MW-139 may be considered estimated since the dissolved result exceeded the total result by greater than 20% and both results were greater than 5x the RL.

Standard Conditions

The laboratory noted that the TPH (GC/FID) high fraction analyses of samples MW-64, MW-98, MW-103, MW-106, and KWB-13 were performed using a container with a pH outside of the method requirement (≤2). This pH issue shortens the extraction holding time to seven days and these samples were extracted for TPH (GC/FID) high fraction after seven days of collection. Therefore, the positive results for TPH (GC/FID) high fraction in samples MW-64, MW-98, MW-103, MW-106, and KWB-13 may be biased low.

The laboratory noted that the TPH (GC/FID) low fraction analysis of sample MW-64 was performed using a vial with a pH outside of the method requirement (≤2). This pH issue shortens the holding time to seven days and this sample was analyzed for TPH (GC/FID) low fraction after seven days of collection. Therefore, the positive result for TPH (GC/FID) low fraction in sample MW-64 may be biased low.

The laboratory noted that several sample analyses were performed from an unpreserved, insufficiently or inadequately preserved sample container for nitrate-nitrite. Thus, **the nondetect results for nitrate-nitrite in samples MW-64, MW-90, MW-106, MW-139, DUP-REST-02, EB-REST-02, and EB-REST-05 are not useable for project objectives** and the positive result for nitrate-nitrite in sample DUP-REST-05 may be biased low.

Laboratory Method Blanks

The following analytes were detected in the method blanks: dissolved manganese, total barium, and TPH (GC/FID) high fraction. The analytes listed below were detected in the corresponding samples at concentrations within five times the method blank concentration for inorganic analytes. Therefore, these samples may include measurement contributions from the laboratory. Associated sample results for TPH (GC/FID) high fraction were greater than 10 times the method blank concentration.

- Dissolved manganese: MW-103, MW-147, KWB-11B, EB-REST-02
- Total barium: EB-REST-05

Equipment Blanks

The following analytes were detected in the equipment blank samples, EB-REST-02** and/or EB-REST-05**: total barium, dissolved barium, total calcium, fluoride, total lead, total manganese, dissolved manganese, total sodium, and TPH (GC/FID) high fraction. The analytes listed below were detected in the corresponding samples at concentrations within five times the maximum equipment blank concentration for inorganic analytes and within 10 times the equipment blank concentrations for organic analytes. Therefore, these samples may include measurement contributions from the field.

- Dissolved barium: KWB-1C, KWB-11B, KWB-12B, KWB-13, MW-50, MW-57, MW-90, MW-98, MW-104, MW-106, MW-117, MW-118, MW-119, MW-126B, MW-135, MW-136, MW-139, MW-145, MW-146, MW-147, MW-148, NP-5,RW-10, DUP-REST-02, DUP-REST-05
- Fluoride: NP-5, MW-57
- Total lead: KWB-12B, MW-50, MW-57, MW-64, MW-103, MW-104, MW-106, MW-117, MW-136, MW-148
- Total manganese: KWB-11B, KWB-12B, MW-117, MW-146, NP-5, DUP-REST-05
- Dissolved manganese: DUP-REST-05, KWB-11B*, KWB-12B, KWB-13, MW-103*, MW-117, MW-119, MW-135, MW-136, MW-146, MW-147*, MW-148, NP-5
- TPH (GC/FID) high fraction: KWB-1C, KWB-11B, KWB-12B, KWB-13, MW-57, MW-117, MW-118, MW-119, MW-126B, MW-135, MW-136, MW-146, MW-148, NP-5, DUP-REST-05

*The results for dissolved manganese in these samples were also less than five times the associated method blank concentration as noted above.

**The results for dissolved manganese in equipment blank sample EB-REST-02 and total barium in sample EB-REST-05 were less than five times the associated method blank concentrations and

were likely the result of laboratory contamination; therefore, these results did not likely impact and field sample results.

Trip Blanks

Carbon disulfide was detected in the trip blank sample, TRIP BLANK-REST-02. Therefore, potential high bias exists for the positive results for carbon disulfide in samples MW-104, MW-90, and DUP-REST-02 since the sample results were less than 10 times the concentration detected in the associated trip blank. There was no impact on data usability for nondetect results.

LCS/LCSDs

The LCS %R for cis-1,3-dichloropropene (77.2%) was below the laboratory-defined limits (80-123%) in QC batch WG1653793. Therefore, the nondetect results for cis-1,3-dichloropropene in the samples from this QC batch, KWB-1C, KWB-12B, KWB-13, NP-5, MW-50, MW-57, MW-90, MW-98, MW-104, MW-106, MW-119, MW-126B, MW-136, MW-139, MW-145, RW-10, DUP-REST-02, DUP-REST-05, EB-REST-05, and TRIP BLANK-REST-02, may be biased low.

The LCS %R for 1,1,2-trichloroethane (79.8%) was below the laboratory-defined limits (80-120%) in QC batch WG1653797. Therefore, the nondetect results for 1,1,2-trichloroethane in the samples from this QC batch, MW-146 and MW-148, may be biased low.

MS/MSDs

MS and/or MS/MSD analyses were performed on the following samples:

- MW-98, MW-106, KWB-13: Nitrate-nitrite
- EB-REST-05: Chloride, fluoride, sulfate
- MW-119, MW-148: Total metals
- KWB-1C: Dissolved metals

The %R of nitrate-nitrite in the MS performed on sample KWB-13 was outside of the laboratory-defined recovery limits (90-110%). However, the concentration of this analyte in the unspiked sample was greater than four times the spiked concentration; thus, the recovery of nitrate-nitrite was not used to evaluate potential matrix effects.

The %Rs of total calcium and total sodium in the MS and MSD performed on samples MW-119 and MW-148 were outside of the laboratory-defined recovery limits (75-125%). However, the concentrations of these analytes in the unspiked samples were greater than four times the spiked concentrations; thus, the recoveries of total calcium and total sodium were not used to evaluate potential matrix effects.

The %R of total uranium in the MSD (130%) performed on sample MW-119 was outside of the laboratory-defined recovery limits (75-125%). Although uranium was not reported in this sample, this result is indicative of a potential high bias for total uranium in the samples in the same preparation batch, WG1656889, MW-136, KWB-12B, KWB-13, and DUP-REST-05. There was no impact on data usability for nondetect results for total uranium.

Surrogate Recoveries

One of the VOC surrogates (toluene-d8) recovered above the laboratory control limits (80-120%) in the VOC analyses of samples MW-104 (121%) and DUP-REST-02 (122%). Therefore, the positive VOC results in samples MW-104 and DUP-REST-02 may be biased high. There is no impact on data usability due to this issue for nondetect VOC results in these samples.

The surrogate (o-terphenyl) recovered above the laboratory control limits (31.0-160%) in the TPH (GC/FID) high fraction analysis of sample MW-106 (218%). The laboratory noted that this surrogate issue was due to matrix interference. Therefore, the positive result for TPH (GC/FID) high fraction in sample MW-106 may be biased high.

Laboratory Duplicates

Laboratory duplicate analyses were performed on the following samples:

- MW-50, MW-106: Dissolved solids
- MW-104, KWB-12B: Nitrate-nitrite
- EB-REST-02, EB-REST-05: Chloride, fluoride, sulfate

The RPD for chloride in the duplicate analysis performed on sample EB-REST-05 exceeded the laboratory-defined control limit (15%). However, the results in the parent and duplicate samples were less than 5x the RL so the laboratory duplicate RPD was not applicable.

Field Duplicates

Samples MW-104/DUP-REST-02 and KWB-12B/DUP-REST-05 were submitted as the field duplicate pairs. All criteria were met.

Lab Report L1339491

Sample identifiers cross-referenced to laboratory identifications are presented below.

Lab ID	Sample ID
L1339491-01	MW-25
L1339491-02	MW-27
L1339491-03	MW-89
L1339491-04	MW-16
L1339491-05	MW-26

Items	Yes	No	Not applicable
Did all samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X		
All samples within holding times?	X		
Any detection in method blanks?	X		
Any detection in equipment blanks?			X
Any detection in trip blanks?			X
Any LCS/LCSD %R out of laboratory defined limits?		X	
Any LCS/LCSD RPD above laboratory defined limits?		X	
Any MS/MSD %R outside of laboratory defined limits?	X		
Any MS/MSD RPD above laboratory defined limits?		X	
Any surrogate %R outside of laboratory defined limits?		X	
Any laboratory duplicate RPD above laboratory defined limits?		X	
Any field duplicate data additionally flagged as estimated?			X
Any analyte analyzed by a nonequivalent method than planned?		X	

Other

RLs for dissolved solids in all samples except MW-27 were 2-5 times higher than the associated method blank but the laboratory did not include a sample narrative explaining the elevated RLs. The samples were likely prepared at a reduced volume due to the elevated concentration of dissolved solids. There is no impact on data usability since dissolved solids results were above the RLs in the affected samples.

All samples were analyzed at dilutions for chloride and/or sulfate but the laboratory did not include a sample narrative explaining the dilutions. The samples were likely diluted either due to matrix interference and/or the presence of target and/or non-target analytes which would have exceeded the calibration range if undiluted. There is no impact on data usability since these analytes were detected above the RLs in the diluted samples.

Laboratory Method Blanks

The following analyte was detected in the metals method blank: dissolved manganese. Dissolved manganese was detected in sample MW-16 at a concentration less than 5 times the associated method blank concentration. Therefore, this result may include measurement contributions from laboratory sources.

Laboratory Duplicates

Laboratory duplicate analysis was performed on sample MW-16 for nitrate-nitrite. All criteria were met.

MS/MSDs

MS and/or MS/MSD analyses were performed on the following samples:

- MW-26: Nitrate-nitrite
- MW-89: Total metals

The %Rs for total calcium, total manganese, and total sodium in the MS and/or MSD performed on sample MW-89 were outside of the laboratory-defined recovery limits (75-125%). However, the concentrations of these analytes in the unspiked sample were greater than four times the spiked concentration; thus, the recoveries of total calcium, total manganese, and total sodium were not used to evaluate potential matrix effects.

Lab Report L1340036

Sample identifiers cross-referenced to laboratory identifications are presented below.

Lab ID	Sample ID
L1340036 -01	MW-49

Items	Yes	No	Not applicable
Did all samples meet the laboratory's standard conditions of sample acceptability upon receipt?		X	
All samples within holding times?		X	
Any detection in method blanks?	X		
Any detection in equipment blanks?	X*		
Any detection in trip blanks?			X
Any LCS/LCSD %R out of laboratory defined limits?		X	
Any LCS/LCSD RPD above laboratory defined limits?		X	
Any MS/MSD %R outside of laboratory defined limits?	X		
Any MS/MSD RPD above laboratory defined limits?		X	
Any surrogate %R outside of laboratory defined limits?		X	
Any laboratory duplicate RPD above laboratory defined limits?		X	
Any field duplicate data additionally flagged as estimated?			X
Any analyte analyzed by a nonequivalent method than planned?		X	

Other

The RL for dissolved solids in sample MW-49 was 5 times higher than the associated method blank but the laboratory did not include a sample narrative explaining the elevated RL. The sample was likely prepared at a reduced volume due to the elevated concentration of dissolved solids. There is no impact on data usability since the dissolved solids result was above the RL in the affected sample.

Sample MW-49 was analyzed at dilutions for nitrate-nitrite, cyanide, chloride, and sulfate but the laboratory did not include a sample narrative explaining the dilutions. The samples were likely diluted either due to matrix interference and/or the presence of target and/or non-target analytes which would have exceeded the calibration range if undiluted. There is no impact on data usability for cyanide, chloride, and sulfate since these analytes were detected above the RLs and/or method detection limits (MDLs) in the diluted samples. The RL was elevated for nitrate-nitrite in sample MW-49.

The laboratory noted that the VOC analysis of sample MW-49 was diluted 25-fold due to elevated concentrations of target and non-target analytes. Therefore, the RLs for VOCs in this sample were elevated accordingly.

Standard Conditions/Holding Times

The laboratory noted that the TPH (GC/FID) high fraction analysis of sample MW-49 was performed using a container with a pH outside of the method requirement (≤2). This pH issue shortens the extraction holding time to seven days and this sample was extracted for TPH (GC/FID) high fraction after seven days of collection. Therefore, the positive result for TPH (GC/FID) high fraction in sample MW-49 may be biased low.

Laboratory Method Blanks

TPH (GC/FID) High Fraction was detected in the method blank. This analyte was detected in sample MW-49 at a concentration greater than 10 times the method blank concentration. Therefore, no data interpretation issues were identified.

Equipment Blanks

*Although an equipment blank was not submitted in this laboratory report, the equipment blank submitted with laboratory report L1339412 was evaluated with the sample in this laboratory report (L1340036) since they were collected within one day of each other and were from a similar location at the site. The following analytes were detected in the equipment blank submitted with the data set in laboratory report L1339412: total barium, dissolved barium, total calcium, total lead, total manganese, dissolved manganese, and nitrate-nitrite. These analytes were either not detected or detected in sample MW-49 at concentrations greater than five times the equipment blank concentrations; therefore, there is no impact on data usability.

MS/MSDs

MS and/or MS/MSD analyses were performed on sample MW-49 for chloride, fluoride, sulfate, and total boron. The %Rs of chloride and sulfate in the MS performed on sample MW-49 were below the laboratory-defined recovery limits (80-120%). However, the concentrations of these analytes in the unspiked sample were greater than four times the spiked concentrations; thus, the recoveries of chloride and sulfate were not used to evaluate potential matrix effects.

Laboratory Duplicates

Laboratory duplicate analyses were performed on sample MW-49 for dissolved solids, chloride, fluoride, and sulfate. All criteria were met.

Lab Report L1340040

Sample identifiers cross-referenced to laboratory identifications are presented below.

Lab ID	Sample ID
L1340040-01	MW-45
L1340040-02	MW-56

Items	Yes	No	Not applicable
Did all samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X		
All samples within holding times?	X		
Any detection in method blanks?		X	
Any detection in equipment blanks?	X*		
Any detection in trip blanks?			X
Any LCS/LCSD %R out of laboratory defined limits?		X	
Any LCS/LCSD RPD above laboratory defined limits?		X	
Any MS/MSD %R outside of laboratory defined limits?		X	
Any MS/MSD RPD above laboratory defined limits?		X	
Any surrogate %R outside of laboratory defined limits?		X	
Any laboratory duplicate RPD above laboratory defined limits?		X	
Any field duplicate data additionally flagged as estimated?			X
Any analyte analyzed by a nonequivalent method than planned?		X	

Other

The RLs for dissolved solids in samples MW-45 and MW-56 were 10 and 5 times higher, respectively, than the associated method blank but the laboratory did not include a sample narrative explaining the elevated RL. The samples were likely prepared at a reduced volume due to the elevated concentrations of dissolved solids. There is no impact on data usability since dissolved solids results were above the RL in the affected samples.

Samples MW-45 and MW-56 were analyzed at dilutions for cyanide, chloride, fluoride, and/or sulfate but the laboratory did not include a sample narrative explaining the dilutions. The samples were likely diluted either due to matrix interference and/or the presence of target and/or non-target analytes which would have exceeded the calibration range if undiluted. There is no impact on data usability for chloride, fluoride, and sulfate since these analytes were detected above the RLs in the diluted samples. The nondetect RL was elevated for cyanide in sample MW-45.

Equipment Blanks

*Although an equipment blank was not submitted in this laboratory report, the equipment blank submitted with laboratory report L1339378 was evaluated with the samples in this laboratory report (L1340040) since they were collected within one day of each other and were from a similar location at the site. The following analytes were detected in the equipment blank submitted with the data set in laboratory report L1339378: nitrate-nitrite, total and dissolved barium, and TPH

(GC/FID) high fraction. The analytes listed below were detected in the corresponding samples at concentrations within five times the maximum equipment blank concentration for inorganic analytes and within 10 times the equipment blank concentrations for organic analytes. Therefore, these samples may include measurement contributions from the field.

- Nitrate-nitrite: MW-45, MW-56
- TPH (GC/FID) high fraction: MW-56

MS/MSDs

MS/MSD analyses were performed on sample MW-56 for nitrate-nitrite. All criteria were met.

Laboratory Duplicates

Laboratory duplicate analyses were performed on sample MW-56 for dissolved solids, and sample MW-45 for nitrate-nitrite. All criteria were met.

Lab Report L1340049

Sample identifiers cross-referenced to laboratory identifications are presented below.

Lab ID	Sample ID
L1340049-01	MW-120
L1340049-02	MW-121
L1340049-03	MW-84
L1340049-04	MW-81
L1340049-05	MW-80
L1340049-06	MW-79
L1340049-07	MW-82
L1340049-08	MW-76
L1340049-09	MW-77
L1340049-10	MW-78
L1340049-11	MW-75
L1340049-12	MW-83
L1340049-13	MW-3
L1340049-14	MW-22A
L1340049-15	MW-22B
L1340049-16	MW-123
L1340049-17	MW-1R
L1340049-18	MW-15
L1340049-19	OCD-1R
L1340049-20	OCD-2A
L1340049-21	OCD-3
L1340049-22	OCD-4
L1340049-23	MW-11A
L1340049-24	MW-11B
L1340049-25	OCD-5
L1340049-26	DUP-EP-02*
L1340049-27	DUP-EP-03**
L1340049-28	EB-EP-04
L1340049-29	TRIP BLANK-EP-03

*Field duplicate of MW-22A
**Field duplicate of MW-3

Items	Yes	No	Not applicable
Did all samples meet the laboratory's standard conditions of sample acceptability upon receipt?		X	
All samples within holding times?		X	
Any detection in method blanks?	X		
Any detection in equipment blanks?	X		
Any detection in trip blanks?		X	
Any LCS/LCSD %R out of laboratory defined limits?		X	

Items	Yes	No	Not applicable
Any LCS/LCSD RPD above laboratory defined limits?		X	
Any MS/MSD %R outside of laboratory defined limits?	X		
Any MS/MSD RPD above laboratory defined limits?		X	
Any surrogate %R outside of laboratory defined limits?	X		
Any laboratory duplicate RPD above laboratory defined limits?	X		
Any field duplicate data additionally flagged as estimated?	X		
Any analyte analyzed by a nonequivalent method than planned?		X	

Other

RLs for dissolved solids in all samples except the equipment blank were 5-40 times higher than the associated method blank but the laboratory did not include a sample narrative explaining the elevated RLs. The samples were likely prepared at a reduced volume due to the elevated concentration of dissolved solids. There is no impact on data usability since dissolved solids results were above the RLs in the affected samples.

The laboratory noted that the following sample analyses were diluted due to due to foaming at the time of analysis. Therefore, the RLs for analytes listed below in the corresponding sample were elevated accordingly.

- MW-120: VOCs (5-fold)
- MW-84: VOCs (10-fold)
- MW-3, MW-75, MW-77: VOCs (25-fold)

Several samples were analyzed at dilutions for nitrate-nitrite, select total and/or dissolved metals, TPH (GC/FID) low fraction, TPH (GC/FID) high fraction, chloride, fluoride, and/or sulfate but the laboratory did not include a sample narrative explaining the dilutions. The samples were likely diluted either due to matrix interference and/or the presence of target and/or non-target analytes which would have exceeded the calibration range if undiluted. There is no impact on data usability for nitrate-nitrite, sodium, TPH (GC/FID) low fraction, TPH (GC/FID) high fraction, chloride, fluoride, and sulfate since these analytes were detected above the RLs in the diluted samples. The nondetect RLs for select total and/or dissolved metals in several samples were elevated accordingly.

The results for total and dissolved manganese in samples OCD-2A, OCD-4, and MW-11A may be considered estimated since the dissolved result exceeded the total result by greater than 20% and both results were greater than 5x the RL.

Standard Conditions

The laboratory noted that several sample analyses were performed from an unpreserved, insufficiently or inadequately preserved sample container for nitrate-nitrite. Thus,

- **The nondetect results for nitrate-nitrite in samples MW-120, MW-84, MW-76, MW-77, MW-22A, MW-22B, MW-123, MW-11B, OCD-5, DUP-EP-02, and EB-EP-04 are not useable for project objectives.**

- The positive results for nitrate-nitrite in the remaining samples in this lab report may be biased low.

Holding Times

The laboratory noted that the TPH (GC/FID) high fraction analysis of sample MW-77 was performed using a container with a pH outside of the method requirement (≤2). This pH issue shortens the extraction holding time to seven days and this sample was extracted for TPH (GC/FID) high fraction after seven days of collection. Therefore, the positive result for TPH (GC/FID) high fraction in sample MW-77 may be biased low.

Laboratory Method Blanks

TPH (GC/FID) high fraction was detected in one of the method blanks. The results for TPH (GC/FID) high fraction in samples MW-120, MW-121*, MW-79*, MW-80*, and MW-81 were less than 10 times the method blank concentration. Therefore, these results may include measurement contributions from laboratory sources.

*These sample results were also <10x the associated equipment blank concentrations as indicated below.

Equipment Blanks

The following analytes were detected in the equipment blank**, EB-EP-04: TPH (GC/FID) High Fraction, chloride, total calcium, total and dissolved manganese, total and dissolved selenium, and total sodium. The analytes listed below were detected in the corresponding samples at concentrations within five times the method blank concentration for inorganic analytes and within 10 times the method blank concentration for organic analytes. Therefore, these samples may include measurement contributions from the field.

- Total selenium: MW-80, MW-79, MW-82, MW-76, MW-22A, MW-22B, MW-123, MW-15, OCD-1R, OCD-2A, DUP-EP-03
- Dissolved selenium: MW-80, MW-79, MW-82, MW-76, MW-22A, MW-22B, MW-123, MW-1R, MW-15, OCD-1R, OCD-2A, OCD-4, MW-11A, MW-11B, DUP-EP-02
- TPH (GC/FID) High Fraction: MW-121*, MW-80*, MW-79*, MW-1R, MW-15, OCD-1R, OCD-2A, OCD-3, OCD-4, MW-11A, MW-11B, OCD-5

*These sample results were also <10x the associated method blank concentrations as indicated above.

**The equipment blank sample was diluted 5-fold for total metals; the laboratory did not provide an explanation for this dilution. Therefore, sample results for total metals could only be evaluated using the diluted equipment blank results with elevated RLs.

MS/MSDs

MS and/or MS/MSD analyses were performed on the following samples:

- MW-22A, MW-121, OCD-4: Nitrate-Nitrite

- MW-120: Fluoride
- OCD-2A, EB-EP-04: Chloride, fluoride, sulfate
- MW-22A: Dissolved metals
- MW-81: Total metals

The %Rs of chloride and sulfate in the MS performed on sample OCD-2A were outside of the laboratory-defined recovery limits (80-120%). However, the concentrations of these analytes in the unspiked sample were greater than four times the spiked concentrations; thus, the recoveries of chloride and sulfate were not used to evaluate potential matrix effects.

The %Rs of dissolved manganese in the MS and MSD performed on sample MW-22A were outside of the laboratory-defined recovery limits (75-125%). However, the concentration of this analyte in the unspiked sample was greater than four times the spiked concentration; thus, the recoveries of total manganese were not used to evaluate potential matrix effects.

The %Rs of total calcium and sodium in the MS and MSD performed on sample MW-81 were outside of the laboratory-defined recovery limits (75-125%). However, the concentrations of these analytes in the unspiked samples were greater than four times the spiked concentrations; thus, the recoveries of total calcium and sodium were not used to evaluate potential matrix effects.

Surrogate Recoveries

The surrogates recovered below the laboratory control limits in the diluted TPH (GC/FID) high fraction analyses of samples MW-77 (20-fold), MW-78 (200-fold), and MW-84 (20-fold). However, there is no impact on data usability due to this issue since the samples were diluted ≥10-fold.

Laboratory Duplicates

Laboratory duplicate analyses were performed on the following samples:

- MW-78, MW-121: Dissolved solids
- MW-3, MW-120, OCD-3: Nitrate-Nitrite
- MW-120, OCD-2A, EB-EP-04: Chloride, fluoride, sulfate

The RPD (8.14%) for dissolved solids in the duplicate analysis performed on sample MW-121 exceeded the laboratory's acceptance criteria (5%) but did not exceed the acceptance criteria used in this evaluation (20%). Therefore, no data interpretation issues were identified.

Field Duplicates

Samples MW-22A/DUP-EP-02 and MW-3/DUP-EP-03 were submitted as the field duplicate pairs. All criteria were met in samples MW-22A/DUP-EP-02.

The RPD for total chromium (102%) was above the acceptance criteria in the field duplicate pair MW-3 and DUP-EP-03. Further, the results for total iron and dissolved selenium were <5x the RL in one or both samples in this field duplicate pair and the absolute differences were greater than the RL. Therefore, the positive results for total chromium, total iron, and dissolved selenium in samples MW-3 and DUP-EP-03 may be considered estimated.

Lab Report L1340062

Sample identifiers cross-referenced to laboratory identifications are presented below.

Lab ID	Sample ID
L1340062-01	MW-20
L1340062-02	NP-1
L1340062-03	NP-6
L1340062-04	MW-8
L1340062-05	MW-21
L1340062-06	MW-71
L1340062-07	MW-68
L1340062-08	MW-46R
L1340062-09	TRIP BLANK-TMD-01

Items	Yes	No	Not applicable
Did all samples meet the laboratory's standard conditions of sample acceptability upon receipt?		X	
All samples within holding times?	X		
Any detection in method blanks?		X	
Any detection in equipment blanks?			X
Any detection in trip blanks?		X	
Any LCS/LCSD %R out of laboratory defined limits?	X		
Any LCS/LCSD RPD above laboratory defined limits?	X		
Any MS/MSD %R outside of laboratory defined limits?		X	
Any MS/MSD RPD above laboratory defined limits?		X	
Any surrogate %R outside of laboratory defined limits?		X	
Any laboratory duplicate RPD above laboratory defined limits?		X	
Any field duplicate data additionally flagged as estimated?			X
Any analyte analyzed by a nonequivalent method than planned?		X	

Other

RLs for dissolved solids in all samples were 2-5 times higher than the associated method blank but the laboratory did not include a sample narrative explaining the elevated RLs. The samples were likely prepared at a reduced volume due to the elevated concentration of dissolved solids. There is no impact on data usability since dissolved solids results were detected above the RLs in the affected samples.

Several samples were analyzed at dilutions for nitrate-nitrite, chloride, and/or sulfate but the laboratory did not include a sample narrative explaining the dilutions. The samples were likely diluted either due to matrix interference and/or the presence of target and/or non-target analytes which would have exceeded the calibration range if undiluted. There is no impact on data usability for nitrate-nitrite, chloride, and sulfate since these analytes were detected above the RLs in the diluted samples.

The laboratory noted that the cyanide analysis of sample MW-71 was diluted 25-fold due to nitrate interference. Therefore, the RL for cyanide in this sample was elevated accordingly.

Standard Conditions

The laboratory noted that one vial for sample NP-6 was received broken; however, sufficient volume was received for the VOC analysis of this sample. Therefore, there was no impact on data usability due to this issue.

LCS/LCSD

The %R in the LCSD and RPD in the LCS/LCSD for acetone (162% and 33%, respectively) were above the laboratory-defined limits (19-160% and 27%, respectively) in QC batch WG1654494. Acetone was not detected in the associated samples, MW-21, MW-46R, MW-68, MW-71, and TRIP BLANK-TMD-01; therefore, there is no impact on data usability.

MS/MSDs

MS/MSD analyses were performed on sample MW-20 for dissolved metals. All criteria were met.

Laboratory Duplicates

Laboratory duplicate analysis was performed on sample MW-20 for nitrate-nitrite. All criteria were met.

Lab Report L1340127

Sample identifiers cross-referenced to laboratory identifications are presented below.

Lab ID	Sample ID
L1340127-01	MW-130
L1340127-02	KWB-P4
L1340127-03	MW-52
L1340127-04	MW-109
L1340127-05	MW-110
L1340127-06	MW-113
L1340127-07	MW-134
L1340127-08	RA-4798
L1340127-09	RA-3156
L1340127-10	RA-313
L1340127-11	KWB-7
L1340127-12	MW-115
L1340127-13	MW-114
L1340127-14	MW-102
L1340127-15	MW-66
L1340127-16	MW-125
L1340127-17	MW-116
L1340127-18	MW-101
L1340127-19	MW-105
L1340127-20	MW-61
L1340127-21	MW-41
L1340127-22	RW-9
L1340127-23	MW-42
L1340127-24	MW-29
L1340127-25	DUP-REST-01*
L1340127-26	DUP-REST-03**
L1340127-27	EB-REST-01
L1340127-28	EB-REST-03
L1340127-29	TRIP BLANK-REST-01
L1340127-30	TRIP BLANK-REST-03
L1340127-31	TRIP BLANK-REST-04
L1340127-32	MW-62R

*Field duplicate of MW-113

** Field duplicate of MW-134

Items	Yes	No	Not applicable
Did all samples meet the laboratory's standard conditions of sample acceptability upon receipt?		X	
All samples within holding times?		X	
Any detection in method blanks?	X		

Items	Yes	No	Not applicable
Any detection in equipment blanks?	X		
Any detection in trip blanks?		X	
Any LCS/LCSD %R out of laboratory defined limits?	X		
Any LCS/LCSD RPD above laboratory defined limits?		X	
Any MS/MSD %R outside of laboratory defined limits?	X		
Any MS/MSD RPD above laboratory defined limits?		X	
Any surrogate %R outside of laboratory defined limits?		X	
Any laboratory duplicate RPD above laboratory defined limits?		X	
Any field duplicate data additionally flagged as estimated?	X		
Any analyte analyzed by a nonequivalent method than planned?		X	

Other

RLs for dissolved solids in several samples were 1.33-5 times higher than the associated method blank but the laboratory did not include a sample narrative explaining the elevated RLs. The samples were likely prepared at a reduced volume due to elevated concentrations of dissolved solids. There is no impact on data usability since dissolved solids results were above the RLs in the affected samples.

Several samples were analyzed at dilutions for nitrate-nitrite, TPH (GC/FID) high fraction, TPH (GC/FID) low fraction, select VOCs, select metals, chloride, sulfate, fluoride, and/or nitrate-nitrite but the laboratory did not include a sample narrative explaining the dilutions. The samples were likely diluted due to the presence of the target and/or non-target analytes which would have exceeded the calibration range if undiluted or due to matrix interferences. There is no impact on data usability for select VOCs, TPH (GC/FID) high fraction, TPH (GC/FID) low fraction, chloride, sulfate, and fluoride since these analytes were detected above the MDLs and/or RLs in the diluted samples. The nondetect RLs for select VOCs in several samples, nitrate-nitrite in samples MW-61, and RW-9, and total iron in sample MW-115 were elevated accordingly.

The laboratory noted that the VOC analysis of sample MW-113 was diluted 5-fold due to elevated concentrations of non-target compounds. Therefore, the RLs for VOCs in this sample were elevated accordingly.

The laboratory noted that the VOC analysis of sample MW-42 was diluted 5-fold due to foam. Therefore, the RLs for VOCs in this sample were elevated accordingly.

The laboratory noted that the cyanide analysis of sample KWB-7 was diluted 25-fold due to nitrate interference; the laboratory also noted that only 2 mL of sample could be prepared. Therefore, the RL for cyanide in this sample was elevated accordingly.

The results for total and dissolved arsenic in sample MW-62R may be considered estimated since the dissolved result exceeded the total result by greater than 20% and both results were greater than 5x the RL.

Standard Conditions

The laboratory noted that several sample analyses were performed from an unpreserved, insufficiently or inadequately preserved sample container for nitrate-nitrite. Thus, **the nondetect results for nitrate-nitrite in samples DUP-REST-01, EB-REST-01, EB-REST-03, and MW-62R are not useable for project objectives** and the positive result for nitrate-nitrite in sample DUP-REST-03 may be biased low.

Holding Times

The laboratory noted that the TPH (GC/FID) high fraction analyses of samples KWB-7, MW-41, MW-42, MW-61, MW-66, MW-102, MW-109, MW-130, and RW-9 were performed using a container with a pH outside of the method requirement (≤2). This pH issue shortens the extraction holding time to seven days and these samples were extracted for TPH (GC/FID) high fraction after seven days of collection. Therefore, the positive results for TPH (GC/FID) high fraction in samples KWB-7, MW-41, MW-42, MW-61, MW-66, MW-102, MW-109, MW-130, and RW-9 may be biased low.

Laboratory Method Blanks

The following analytes were detected in the method blanks: chloride, dissolved barium, dissolved chromium, and dissolved lead. The analytes listed below were detected in the corresponding samples at concentrations within five times the maximum method blank concentration for inorganic analytes. Therefore, these results may include measurement contributions from laboratory sources.

- Chloride: MW-52, MW-105, MW-113, MW-114, MW-130
- Dissolved lead: MW-66 and MW-102
- Dissolved barium: EB-REST-01
- Dissolved chromium: MW-105

Equipment Blanks

Total and/or dissolved barium*, total calcium, and TPH (GC/FID) low fraction were detected in one or both of the equipment blanks, EB-REST-01 and EB-REST-03. Total barium and total calcium were detected in the corresponding samples at concentrations greater than five times the equipment blank concentration so there is no impact on data usability. The analyte listed below was detected in the corresponding samples at concentrations within 10 times the equipment blank concentration for organic analytes. Therefore, these samples may include measurement contributions from the field.

- TPH (GC/FID) low fraction: MW-29, MW-41, MW-61, MW-102, MW-109, MW-134, DUP-REST-03

*Dissolved barium was detected in the equipment blank sample EB-REST-01 at a concentration less than five times the associated method blank concentration; therefore, the equipment blank result for dissolved barium was probably the result of laboratory method blank contamination and did not affect any associated field samples.

LCS/LCSD

The LCS %Rs for bromoform (64.0%), 2-hexanone (66.4%), and 1,1,1,2-tetrachloroethane (73.8%) were below the laboratory-defined limits (68.0-132%, 67.0-149%, and 75.0-125%, respectively) in QC batch WG1654740. Therefore, potential low bias exists for the nondetect results for bromoform, 2-hexanone, and 1,1,1,2-tetrachloroethane in the samples associated with this QC batch, MW-29, MW-41, MW-42, RW-9, DUP-REST-01, DUP-REST-03, EB-REST-01, and EB-REST-03.

The LCS/LCSD %Rs for chloroethane (177%/183%) were outside of the laboratory-defined limits (47.0-150%) in QC batch WG1654740. However, since this compound was not detected in the samples associated with this QC batch, there is no impact on data usability.

MS/MSDs

MS and/or MS/MSD analyses were performed on the following samples:

- MW-62R, MW-101: Nitrate-nitrite
- MW-52: Cyanide
- MW-66, RA-4798, DUP-REST-01: Chloride, fluoride, sulfate
- RA-313: Total metals

The %R of nitrate-nitrite in the MS performed on sample MW-62R (112%) in QC batch WG1657027 was above the laboratory-defined recovery limits (90-110%); a second MS was performed on this sample in QC batch WG1661755 and the %R of nitrate-nitrite was acceptable. Although nitrate-nitrite was not reported from QC batch WG1657027 in the parent sample, this result indicates a potential high bias for nitrate-nitrite in the other project samples from this QC batch. Therefore, the positive result for total nitrate-nitrite in samples MW-29, MW-41, and MW-42 may be biased high. There was no impact on data usability for the nondetect results for nitrate-nitrite in the samples from this QC batch, MW-61, MW-105, and RW-9.

The %Rs of sulfate in the MS/MSDs performed on samples RA-4798 and DUP-REST-01, and the %R of chloride in the MS performed on sample MW-66 were outside of the laboratory-defined recovery limits (80-120%). However, the concentrations of these analytes in the unspiked samples were greater than four times the spiked concentrations; thus, the recoveries of sulfate and chloride were not used to evaluate potential matrix effects.

The %Rs of total calcium in the MS/MSD and total sodium in the MSD performed on sample RA-313 were outside of the laboratory-defined recovery limits (75-125%). However, the concentrations of these analytes in the unspiked samples were greater than four times the spiked concentrations; thus, the recoveries of total calcium and sodium were not used to evaluate potential matrix effects.

Laboratory Duplicates

Laboratory duplicate analyses were performed on the following samples:

- MW-52, MW-114, RW-9: Dissolved solids
- MW-116, EB-REST-03: Nitrate-nitrite

- MW-61, RA-3156, DUP-REST-01: Chloride, fluoride, sulfate

All criteria were met.

Field Duplicates

Samples MW-113/DUP-REST-01 and MW-134/DUP-REST-03 were submitted as field duplicate pairs.

Sample MW-113 was diluted 5-fold for VOC analysis while the field duplicate sample, DUP-REST-01, was not diluted for VOC analysis. Therefore, the absolute differences were evaluated using the parent sample RLs. The RPDs for benzene (42.1%) and total xylenes (35.7%) were above the acceptance criteria (30%). Further, the absolute differences for ethylbenzene and m&p-xylene were greater than the parent sample RL. Therefore, potential uncertainty exists for the results for benzene, total xylenes, ethylbenzene and m&p-xylene in samples MW-113 and DUP-REST-01.

Sample MW-134 was not diluted for fluoride analysis while the field duplicate sample, DUP-REST-03, was diluted 10-fold for fluoride analysis. Therefore, the absolute difference was evaluated using the parent sample RL. The absolute difference for fluoride was greater than the parent sample RL. Therefore, potential uncertainty exists for the results for fluoride in samples MW-134 and DUP-REST-03.

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Sample identifiers cross-referenced to laboratory identifications are presented below.

Lab ID	Sample ID
L1404404-01	MW-120
L1404404-02	MW-121
L1404404-03	MW-84
L1404404-04	MW-122
L1404404-05	MW-79
L1404404-06	MW-74
L1404404-07	MW-2A
L1404404-08	OCD-6
L1404404-09	OCD-7AR
L1404404-10	MW-130
L1404404-11	EB-EP-01
L1404404-12	EB-EP-04
L1404404-13	TRIP BLANK-EP-01
L1404404-14	MW-76
L1404404-15	MW-75
L1404404-16	MW-83
L1404404-17	MW-3
L1404404-18	MW-88
L1404404-19	MW-22A
L1404404-20	MW-10
L1404404-21	MW-123
L1404404-22	MW-4A
L1404404-23	MW-5A
L1404404-24	MW-7A
L1404404-25	OCD-8A
L1404404-26	DUP-EP-01[1]
L1404404-27	DUP-EP-02[2]
L1404404-28	DUP-EP-03[3]
L1404404-29	EB-EP-03
L1404404-30	TRIP BLANK-EP-02
L1404404-31	OCD-1R
L1404404-32	OCD-2A
L1404404-33	OCD-3
L1404404-34	OCD-4
L1404404-35	MW-11A
L1404404-36	OCD-5
L1404404-37	MW-87
L1404404-38	MW-18A
L1404404-39	MW-70
L1404404-40	MW-124
L1404404-41	MW-52

Lab ID	Sample ID
L1404404-42	MW-109
L1404404-43	MW-110
L1404404-44	EB-EP-02
L1404404-45	TRIP BLANK-EP-03
L1404404-46	MW-113
L1404404-47	MW-134
L1404404-48	RA-4798
L1404404-49	KWB-7
L1404404-50	MW-135
L1404404-51	NP-1
L1404404-52	MW-21
L1404404-53	KWB-11A
L1404404-54	KWB-11B
L1404404-55	MW-115
L1404404-56	MW-114
L1404404-57	MW-125
L1404404-58	DUP-REST-01[6]
L1404404-59	EB-REST-01
L1404404-60	DUP-REST-03[8]
L1404404-61	EB-REST-03
L1404404-62	TRIP BLANK-REST-01
L1404404-63	TRIP BLANK-TMD-01
L1404404-64	MW-117
L1404404-65	MW-118
L1404404-66	MW-119
L1404404-67	MW-136
L1404404-68	MW-126B
L1404404-69	MW-57
L1404404-70	KWB-12A
L1404404-71	KWB-12B
L1404404-72	DUP-REST-05[10]
L1404404-73	EB-REST-05
L1404404-74	TRIP BLANK-REST-02
L1404404-75	MW-104
L1404404-76	MW-64
L1404404-77	MW-102
L1404404-78	MW-116
L1404404-79	MW-46R
L1404404-80	MW-145
L1404404-81	MW-146
L1404404-82	MW-147
L1404404-83	MW-148
L1404404-84	DUP-REST-02[7]
L1404404-85	EB-REST-02

Lab ID	Sample ID
L1404404-86	DUP-REST-04[9]
L1404404-87	EB-REST-04
L1404404-88	TRIP BLANK-REST-03
L1404404-89	MW-101
L1404404-90	MW-61
L1404404-91	MW-62
L1404404-93	TEL-4
L1404404-94	MW-98
L1404404-95	MW-49
L1404404-96	MW-45
L1404404-97	MW-29
L1404404-98	DUP-TEL-01[5]
L1404404-99	EB-TEL-01
L1404404-100	TRIP BLANK-REST-04
L1404404-101	TRIP BLANK-TEL-01
L1404404-102	MW-139
L1404404-103	MW-50
L1404404-104	MW-90
L1404404-105	MW-96
L1404404-106	MW-55
L1404404-107	NCL-33
L1404404-108	NCL-44
L1404404-109	NCL-32
L1404404-110	MW-108
L1404404-111	NCL-31
L1404404-112	MW-54A
L1404404-113	NCL-49
L1404404-114	DUP-NCL-01[4]
L1404404-115	EB-NCL-01
L1404404-116	TRIP BLANK-NCL-01

[1]Field duplicate of MW-7A
[2]Field duplicate of MW-22A
[3]Field duplicate of MW-3
[4]Field duplicate of NCL-49
[5]Field duplicate of TEL-4
[6]Field duplicate of MW-113
[7]Field duplicate of MW-102
[8]Field duplicate of MW-134
[9]Field duplicate of MW-146
[10]Field duplicate of KWB-12B

Items	Yes	No	Not applicable
Did all samples meet the laboratory's standard conditions of sample acceptability upon receipt?		X	
All samples within holding times?		X	
Any detection in method blanks?	X		
Any detection in equipment blanks?	X		
Any detection in trip blanks?	X		
Any LCS/LCSD %R out of laboratory defined limits?	X		
Any LCS/LCSD RPD above laboratory defined limits?	X		
Any MS/MSD %R outside of laboratory defined limits?	X		
Any MS/MSD RPD above laboratory defined limits?	X		
Any surrogate %R outside of laboratory defined limits?	X		
Any laboratory duplicate RPD above laboratory defined limits?	X		
Any field duplicate data additionally flagged as estimated?	X		
Any analyte analyzed by a nonequivalent method than planned?		X	

Other

RLs for dissolved solids in several samples were 2-100 times higher than the associated method blank but the laboratory did not include a sample narrative explaining the elevated RLs. The samples were likely prepared at a reduced volume due to the elevated concentration of dissolved solids. There is no impact on data usability since dissolved solids results were above the RLs in the affected samples.

The laboratory noted that samples MW-75 and MW-76 were diluted 10-fold, and sample MW-5A was diluted 5-fold for TPH (GC/FID) low fraction due to foaming at the time of analysis. Therefore, the RLs for TPH (GC/FID) low fraction in these samples were elevated accordingly.

The laboratory noted that sample MW-104 was diluted 5-fold for VOCs due to foaming at the time of analysis. Therefore, the RLs for VOCs in this sample were elevated accordingly.

The laboratory noted that sample MW-62 was diluted 5-fold for SVOCs due to the sample matrix. Therefore, the RLs for SVOCs in this sample were elevated accordingly.

Several samples were analyzed at dilutions for nitrate-nitrite, select VOCs, TPH (GC/FID) low fraction, TPH (GC/FID) high fraction, cyanide, select metals, chloride, fluoride, and/or sulfate but the laboratory did not include a sample narrative explaining the dilutions. The samples were likely diluted either due to matrix interference and/or the presence of target and/or non-target analytes which would have exceeded the calibration range if undiluted. There is no impact on data usability for nitrate-nitrite in select samples, select VOCs, TPH (GC/FID) low fraction, TPH (GC/FID) high fraction, select metals, chloride, fluoride, and sulfate since these analytes were detected above the RLs and/or MDLs in the diluted samples. The RLs for nitrate-nitrite, select VOCs, cyanide, and lead were elevated accordingly in select samples.

Samples MW-60 and MW-61 were analyzed for a long list of SVOCs per project requirements although only 1,4-dioxane was requested on the chain-of-custody.

Sample MW-62R was inadvertently submitted to the laboratory; per project requirements, no results were reported for this sample.

The laboratory flagged the result for total manganese in sample MW-120 with an "O1" qualifier indicating that either a serial dilution or post-digestion spike result was outside of the acceptance criteria. The laboratory was contacted during this review and specified that the serial dilution performed on this sample was outside of the acceptance criteria (10 percent difference [%D]) for total manganese (11.2%D). Thus, potential uncertainty exists for the total manganese result in sample MW-120; this uncertainty may extend to other positive results for total manganese in samples collected during the September 2021 sampling event.

Standard Conditions/Holding Times

The laboratory noted that the TPH (GC/FID) high fraction analyses of samples MW-62, MW-101, MW-109, MW-113, TEL-4, DUP-REST-01, and DUP-REST-02 were performed using a container with a pH outside of the method requirement (≤2). This pH issue shortens the extraction holding time to seven days and these samples were extracted for TPH (GC/FID) high fraction after seven days of collection. Therefore, the positive results for TPH (GC/FID) high fraction in samples MW-62, MW-101, MW-109, MW-113, TEL-4, DUP-REST-01, and DUP-REST-02 may be biased low.

The laboratory noted that the TPH (GC/FID) low fraction analyses of samples MW-109 and MW-113 were performed using a container with a pH outside of the method requirement (≤2). This pH issue shortens the analysis holding time to seven days and these samples were analyzed for TPH (GC/FID) low fraction after seven days of collection. Therefore, the positive results for TPH (GC/FID) low fraction in samples MW-109 and MW-113 may be biased low.

Holding Times

Select samples were prepared for TPH (GC/FID) high fraction slightly outside of the 14-day holding time. However, since the affected samples were prepared for TPH (GC/FID) high fraction analysis on the 14th day after collection, there is no adverse impact on the data usability.

Select samples were prepared slightly outside of the 7-day holding time for dissolved solids. However, since the affected samples were prepared on the 7th day after collection, there is no adverse impact on the data usability.

Laboratory Method Blanks

The following analytes were detected in the method blanks: chloride, total sodium, n-butylbenzene, sec-butylbenzene, cis-1,2-dichloroethene, p-isopropyltoluene, and TPH (GC/FID) high fraction. The analytes listed below were detected in the corresponding samples at concentrations within five times the maximum method blank concentration for inorganic analytes and within 10 times the method blank concentrations for organic analytes. Therefore, these results may include measurement contributions from laboratory sources.

- Chloride: KWB-12A, KWB-12B, DUP-REST-05, MW-102, MW-46R, EB-REST-01, EB-REST-03, EB-REST-05
- Total sodium: EB-EP-01, EB-EP-04

- n-Butylbenzene: MW-96, MW-139
- sec-Butylbenzene: MW-50, MW-55, MW-96
- cis-1,2-Dichloroethene: MW-120, MW-139, TRIP BLANK-REST-04, TRIP BLANK-TEL-01
- TPH (GC/FID) high fraction: DUP-NCL-01, EB-EP-01, EB-NCL-01, EB-EP-04

Equipment Blanks

The following table summarizes the analytes were detected in the equipment blank samples and the associated samples based on the location at the site. The analytes listed in the table below were detected in the corresponding samples at concentrations within five times the maximum equipment blank concentration, where applicable, for inorganic analytes and within 10 times the maximum equipment blank concentration for organic analytes. Therefore, the analytes for the impacted samples listed in the table below may include measurement contributions from the field.

Blank ID(s)	Analyte	Impacted Sample Results*
EB-EP-01	Total barium	None
	Dissolved solids	
EB-EP-01, EB-EP-04	Total calcium	
EB-EP-01**, EB-EP-03, EB-EP-04**	Total sodium	
EB-EP-01, EB-EP-02, EB-EP-03	Sulfate	
EB-EP-02, EB-EP-03, EB-EP-04	Chloride	MW-83
EB-EP-02	Fluoride	MW-11A
	Total Manganese	None
EB-EP-01**, EB-EP-03, EB-EP-04**	TPH (GC/FID) High Fraction	MW-2A, MW-3, MW-18A, MW-70, MW-79, MW-87, MW-88, MW-120, MW-121, MW-122, MW-124,OCD-1R, OCD-2A, OCD-3,OCD-4, OCD-6, DUP-EP-01
Associated samples (EP Area of the site): MW-2A, MW-3, MW-4A, MW-5A, MW-7A, MW-10, MW-11A, MW-18A, MW-22A, MW-70, MW-74, MW-75, MW-76, MW-79, MW-83, MW-84, MW-87, MW-88, MW-120, MW-121, MW-122, MW-123, MW-124, OCD-1R, OCD-2A, OCD-3, OCD-4, OCD-5, OCD-6, OCD-7AR, OCD-8A, DUP-EP-01, DUP-EP-02, DUP-EP-03		
EB-TEL-01	1,4-Dioxane	MW-49, TEL-4, DUP-TEL-01
	Total calcium	None
	Total chromium	
	Chloride	
Associated samples (TEL Area of the site): MW-49, TEL-4, DUP-TEL-01		
EB-NCL-01	Total barium	None
	Total calcium	
	TPH (GC/FID) High Fraction**	
Associated samples (NCL Area of the site): MW-45, MW-54A, MW-55, MW-108, NCL-31, NCL-32, NCL-33, NCL-44, NCL-49, DUP-NCL-01		
EB-REST-01, EB-REST-02, EB-REST-03, EB-REST-04, EB-REST-05	Total barium	None

Blank ID(s)	Analyte	Impacted Sample Results*
EB-REST-01**, EB-REST-03**, EB-REST-05**	Total calcium	None
	Chloride	
EB-REST-01, EB-REST-02, EB-REST-03, EB-REST-04	Dissolved solids	
EB-REST-02	Total chromium	KWB-12A, MW-57, MW-98, MW-116, MW-118, MW-119, MW-130, MW-145, MW-147, MW-148, DUP-REST-02
	Total iron	KWB-12A, MW-50, MW-61, MW-64, MW-98, MW-101, MW-102, MW-109, MW-116, MW-117, MW-118, MW-119, MW-134, MW-136, MW-145, DUP-REST-01, DUP-REST-02, DUP-REST-03, DUP-REST-05
	Total lead	MW-46R, KWB-7, KWB-11A, MW-29, MW-57, MW-61, MW-98, MW-102, MW-110, MW-113, MW-117, MW-130, MW-145, MW-147, MW-148, DUP-REST-01, DUP-REST-02, DUP-REST-05
EB-REST-01, EB-REST-02, EB-REST-03	Total Manganese	KWB-11B, KWB-12A, KWB-12B, MW-117, MW-118, MW-119, DUP-REST-05
EB-REST-02, EB-REST-03, EB-REST-04	TPH (GC/FID) High Fraction	MW-21, MW-46R, KWB-11B, MW-50, MW-52, MW-101, MW-114, MW-115, MW-116, MW-117, MW-119, MW-125, MW-126B, MW-130, MW-134, MW-136, MW-145, MW-146, MW-147, MW-148, DUP-REST-03, DUP-REST-04
Associated samples (the remaining Areas of the site. i.e., REST and TMD): **TMD:** NP-1, MW-21, MW-46R **REST:** KWB-7, KWB-11A, KWB-11B, KWB-12A, KWB-12B, MW-29, MW-50, MW-52, MW-57, MW-61, MW-62, MW-64, MW-90, MW-96, MW-98, MW-101, MW-102, MW-104, MW-109, MW-110, MW-113, MW-114, MW-115, MW-116, MW-117, MW-118, MW-119, MW-125, MW-126B, MW-130, MW-134, MW-135, MW-136, MW-139, MW-145, MW-146, MW-147, MW-148, RA-4798, DUP-REST-01, DUP-REST-02, DUP-REST-03, DUP-REST-04, DUP-REST-05		
*Impacted sample results are those that were detected at concentrations within five times the maximum associated equipment blank concentration for inorganic analytes and within 10 times the maximum associated equipment blank concentration for organic analytes.		

**Note that these asterisked results in the equipment blank samples noted in the table above were less than 10 times the concentration detected in the associated method blank for organic analytes and less than five times the concentration detected in the associated method blank for inorganic analytes; therefore, the results for the asterisked results in the equipment blank samples noted in the table above were probably the result of laboratory method blank contamination and did not affect any associated field samples.

Trip Blanks

Toluene was detected in one of the trip blank samples, TRIP BLANK-NCL-01. However, toluene was not detected in the associated samples and there is no impact on data usability due to this issue; refer to Analytical Summary Table for samples collected in September 2021 from the NCL Area of the site.

cis-1,2-Dichloroethene was detected in two of the trip blanks samples, TRIP BLANK-REST-04 and TRIP BLANK-TEL-01. However, the results for cis-1,2-dichloroethene in samples TRIP BLANK-REST-04 and TRIP BLANK-TEL-01 were less than 10 times the associated method blank and were probably the result of laboratory method blank contamination and did not affect any associated field samples.

Carbon disulfide was detected in two of the trip blanks samples, TRIP BLANK-REST-01 and TRIP BLANK-TMD-01. The positive results for carbon disulfide in the following samples are potentially biased high since the results for carbon disulfide were less than 10 times the associated trip blank results as summarized below. There was no impact on data usability for nondetect results.

- Samples associated with TRIP BLANK-REST-01: KWB-7, KWB-11A, KWB-11B, MW-104, MW-114, MW-115, MW-119, MW-125, MW-135
- Samples associated with TRIP BLANK-TMD-01: NP-1, MW-21

LCS/LCSD

The LCS/LCSD RPDs for 2-butanone (20.1%) and tert-butyl alcohol (31.0%) were above the laboratory-defined limits (20% and 30%, respectively) in QC batch WG1743286. However, since these compounds were either not detected in the samples in this QC batch, MW-90, MW-96, and MW-55, or were reported from a different QC batch with acceptable RPDs, there is no impact on data usability.

The LCSD %Rs for p-isopropyltoluene (129%), 1,2,4-trimethylbenzene (125%), and1,3,5-trimethylbenzene (124%), and the LCS/LCSD RPD for naphthalene (21.1%) were above the laboratory-defined limits (76-125%, 76-121%, 76-122%, and 20%, respectively) in QC batch WG1745631. However, since these compounds were not detected in the sample associated with this QC batch, MW-104, there is no impact on data usability.

The LCS %R for benzaldehyde (172%) was above the laboratory-defined limits (10-160%) in QC batch WG1743177. However, since this compound was not detected in the samples associated with this QC batch, MW-61 and MW-62, there is no impact on data usability.

MS/MSDs

MS and/or MS/MSD analyses were performed on the following samples:

- KWB-7, KWB-12A, MW-10, MW-46R, MW-123, OCD-5: Nitrate-nitrite
- KWB-11B: Cyanide
- MW-96, MW-110, MW-130, EB-EP-03, EB-EP-04, EB-NCL-01, EB-REST-01, EB-REST-04, EB-REST-05, EB-TEL-01: Chloride, fluoride, sulfate
- MW-55: Total boron
- MW-4A, MW-110, MW-120, MW-136, MW-139: Total metals
- MW-109: TPH (GC/FID) low fraction

The %Rs of nitrate-nitrite in the MS/MSD performed on sample KWB-12A were outside of the laboratory-defined recovery limits (90-110%). However, the concentration of nitrate-nitrite

in the unspiked sample was greater than four times the concentration spiked; thus, the recoveries of nitrate-nitrite were not used to evaluate potential matrix effects.

The %Rs of sulfate in the MS/MSDs performed on samples MW-96 and MW-130 were outside of the laboratory-defined recovery limits (80-120%). However, the concentrations of sulfate in the unspiked samples were greater than four times the concentration spiked; thus, the recoveries of sulfate were not used to evaluate potential matrix effects.

The %Rs of cyanide in the MS and MSD performed on sample KWB-11B (83.1%/82.5%) were outside of the laboratory-defined limits (90-110%); therefore, the positive and nondetect results for cyanide in samples DUP-REST-05, KWB-11A, KWB-11B, KWB-12A, KWB-12B, KWB-7, MW-18A, MW-45, MW-49, MW-52, MW-55, MW-136, and OCD-8A may be biased low.

The %Rs of total calcium, manganese, and sodium in the MS and/or MSD performed on samples MW-4A, MW-110, MW-120, and MW-139 were outside of the laboratory-defined recovery limits (75-125%). However, the concentrations of total calcium, manganese, and sodium in the unspiked samples were greater than four times the concentration spiked; thus, the recoveries of these metals were not used to evaluate potential matrix effects.

The %Rs of total calcium and sodium in the MS and/or MSD performed on sample MW-136 were outside of the laboratory-defined recovery limits (75-125%). However, the concentrations of total calcium and sodium in the unspiked sample were greater than four times the concentration spiked; thus, the recoveries of these metals were not used to evaluate potential matrix effects.

The RPD of TPH (GC/FID) low fraction in the MS and MSD performed on sample MW-109 (27.3%) was outside of the laboratory-defined limits (22%); therefore, the positive result for TPH (GC/FID) low fraction in sample MW-109 may be uncertain.

Surrogate Recoveries

The surrogate o-terphenyl recovered above the laboratory control limits (31-160%) in the TPH (GC/FID) high fraction analyses of samples MW-102 (164%), MW-109 (216%), and MW-113 (257%) due to matrix interference according to the laboratory. Therefore, potential high bias exists for the positive results for TPH (GC/FID) high fraction in samples MW-102, MW-109, and MW-113.

The surrogate 1,2-dichloroethane-d4 recovered above of the laboratory control limits (70-130%) in the VOC analysis of sample TRIP BLANK-REST-01 (134%). Therefore, potential high bias exists for the positive result for carbon disulfide in this sample.

The surrogate o-terphenyl recovered outside of the laboratory control limits in the 20-fold diluted TPH (GC/FID) high fraction analysis of sample MW-84. However, there is no impact on data usability due to this issue since the sample was diluted $\geq$10-fold.

Laboratory Duplicates

Laboratory duplicate analysis was performed on the following samples:

- MW-10, MW-115, MW-122, DUP-REST-05, DUP-TEL-01, EB-REST-05, EB-TEL-01: Dissolved solids
- MW-4A, MW-11A, MW-22A, MW-57, MW-116, RA-4798, EB-NCL-01, EB-TEL-01: Nitrate-nitrite
- MW-45, MW-52: Cyanide
- MW-96, MW-120, DUP-EP-03, EB-EP-01, EB-EP-02, EB-NCL-01, EB-REST-01, EB-REST-02, EB-REST-05, EB-TEL-01: Chloride, fluoride, sulfate
- MW-108: Ethylene dibromide

The RPDs for chloride in the duplicate analysis performed on samples EB-REST-05 and EB-TEL-01, sulfate in the duplicate analysis performed on sample EB-EP-01, and fluoride and sulfate in the duplicate analysis performed on sample EB-EP-02 exceeded the laboratory-defined control limit (15%). However, the results in the parent and duplicate samples were less than 5x the RL so the laboratory duplicate RPD was not applicable.

Field Duplicates

The following samples were submitted as the field duplicate pairs.

- DUP-EP-01/MW-7A
- DUP-EP-02/MW-22A
- DUP-EP-03/MW-3
- DUP-NCL-01/NCL-49
- DUP-TEL-01/TEL-4
- DUP-REST-01/MW-113
- DUP-REST-02/MW-102
- DUP-REST-03/MW-134
- DUP-REST-04/MW-146
- DUP-REST-05/KWB-12B

All criteria were met in samples DUP-EP-01/MW-7A, DUP-EP-02/MW-22A, DUP-EP-03/MW-3*, DUP-NCL-01/NCL-49, DUP-TEL-01/TEL-4, DUP-REST-02/MW-102, DUP-REST-04/MW-146, and DUP-REST-05/KWB-12B.

*Cations (calcium, potassium, and sodium) were only reported in the parent sample (MW-3) in the original report. The laboratory was contacted during this review and provide a revised report with cation results for the field duplicate sample, DUP-EP-03.

The results for TPH (GC/FID) high fraction in samples DUP-REST-01 and MW-113 were >5x the RL and the RPD (55.8%) was >30%. Therefore, the positive results for TPH (GC/FID) high fraction in samples MW-113 and DUP-REST-01 may be considered estimated.

The results for nitrate-nitrite in samples MW-134 and DUP-REST-03 were >5x the RL and the RPD (164%) was >30%. Therefore, the positive results for nitrate-nitrite in samples MW-134 and DUP-REST-03 may be considered estimated.

Appendix E.1 - Summary of Production from Recovery Trenches and Wells

2021 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

Recovery Well	Recovery Method	Volume of Water Recovered [1] (gallons)					Volume of PSH Recovered [1] (gallons)				
		1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total 2021	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total 2021
RW-1R	Automated Pump	0	0	0	1	1	17,710	11,237	18,633	0	47,580
RW-2R	Automated Pump	225,697	263,284	550,894	232,062	1,271,937	6,025	2,498	5,232	428	14,183
RW-4R	Automated Pump	0	5,947	2,061,766	1,017,867	3,085,580	0	0	13,850	0	13,850
RW-5R	Automated Pump	11,848	5,481	29,110	5,298	51,737	19	63	0	0	82
RW-6R	Automated Pump	83,790	150,712	9,355	0	243,857	13,231	20,904	16,722	0	50,857
RW-7R	Automated Pump	649,845	493,404	847,641	576,289	2,567,179	8,431	12,709	10,436	392	31,968
RW-8R	Automated Pump	83,293	2,740	0	0	86,033	15,654	448	0	0	16,102
RW-12R	Automated Pump	0	0	0	0	0	0	0	0	0	0
RW-13R	Automated Pump	91	93,894	81,112	0	175,097	677	5,186	2,076	0	7,939
RW-14R	Automated Pump	143,477	418,228	542,548	0	1,104,253	7,383	32,314	28,171	0	67,868
RW-15	Automated Pump	0	0	0	0	0	0	0	0	0	0
RW-19	Automated Pump	14	0	0	0	14	0	0	0	0	0
RW-20	Automated Pump	0	0	0	0	0	0	0	0	0	0
RW-22 [2]	Automated Pump	11,170	5	75	0	11,250	18,014	14,113	13,492	0	45,619
TOTAL VOLUME RECOVERED:		1,209,225	1,433,695	4,122,501	1,831,517	**8,596,938**	87,144	99,472	108,612	820	**296,048**

[1] Volumes of recovered water and PSH are based on automated system readings, rounded to the nearest gallon

[2] The automated system associated with RW-22 is malfunctioning. Volume of water recovered is based off local totalizer readings.

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Automated Fluid Readings - Skid Area T-9012

	Total Fluids Readings				PSH Readings				Tank Reading
Date	RW-1R	RW-2R	RW-7R	RW-8R	RW-1R	RW-2R	RW-7R	RW-8R	T-9012
12/16/2020	502,786	1,340,839	737,628	3,606,614	13,511	21,083	17,691	58,615	209,618
1/4/2021	502,786	1,396,438	826,502	3,608,131	17,037	21,338	18,296	59,295	217,766
1/11/2021	502,786	1,412,836	870,030	3,608,131	17,717	21,339	18,305	59,774	219,654
1/18/2021	502,786	1,430,099	919,610	3,608,131	18,334	21,341	18,308	60,007	221,242
1/25/2021	502,786	1,430,099	967,761	3,608,131	18,350	21,341	18,381	61,274	223,304
2/1/2021	502,786	1,430,162	1,011,068	3,608,145	20,735	23,170	19,036	63,926	234,517
2/8/2021	502,786	1,449,113	1,057,297	3,617,991	21,891	24,113	19,996	66,559	241,812
2/15/2021	502,786	1,471,958	1,118,683	3,620,450	22,796	24,437	20,268	67,236	243,494
2/22/2021	502,786	1,471,958	1,159,600	3,620,450	23,263	24,965	20,501	67,689	243,951
3/1/2021	502,786	1,486,163	1,200,712	3,630,871	24,438	25,608	21,101	68,719	245,512
3/8/2021	502,786	1,505,272	1,249,111	3,646,954	24,789	25,716	21,275	68,811	245,833
3/15/2021	502,786	1,524,388	1,295,242	3,661,602	26,244	26,060	22,214	69,887	246,875
3/22/2021	502,786	1,548,602	1,347,762	3,678,017	28,986	26,659	24,738	72,289	246,875
3/29/2021	502,786	1,566,536	1,387,473	3,689,907	31,221	27,108	26,122	74,269	248,127
1Q Totals:	**-**	**225,697**	**649,845**	**83,293**	**17,710**	**6,025**	**8,431**	**15,654**	**38,509**
4/5/2021	502,786	1,585,580	1,434,492	3,692,647	31,738	27,233	26,729	74,717	248,127
4/12/2021	502,786	1,606,040	1,481,291	3,692,647	34,665	27,728	29,803	74,717	253,808
4/19/2021	502,786	1,634,182	1,547,014	3,692,647	36,482	28,092	31,690	74,717	253,808
4/26/2021	502,786	1,647,569	1,577,986	3,692,647	37,019	28,193	32,205	74,717	255,175
5/3/2021	502,786	1,667,184	1,619,334	3,692,647	38,608	28,450	33,658	74,717	255,708
5/10/2021	502,786	1,689,953	1,661,296	3,692,647	39,308	28,627	34,364	74,717	261,856
5/17/2021	502,786	1,714,339	1,706,022	3,692,647	40,358	28,844	35,494	74,717	264,233
5/24/2021	502,786	1,714,339	1,706,022	3,692,647	40,358	28,844	35,494	74,717	264,233
5/31/2021	502,786	1,783,482	1,813,814	3,692,647	42,029	29,480	38,279	74,717	269,143
6/7/2021	502,786	1,783,482	1,813,814	3,692,647	42,029	29,480	38,279	74,717	269,143
6/14/2021	502,786	1,829,820	1,880,877	3,692,647	42,458	29,606	38,831	74,717	269,722
6/21/2021	502,786	1,829,820	1,880,877	3,692,647	42,458	29,606	38,831	74,717	269,722
6/28/2021	502,786	1,829,820	1,880,877	3,692,647	42,458	29,606	38,831	74,717	269,722
2Q Totals:	**-**	**263,284**	**493,404**	**2,740**	**11,237**	**2,498**	**12,709**	**448**	**21,595**
7/5/2021	502,786	1,952,081	1,928,259	3,692,647	49,612	34,825	47,850	74,717	295,447
7/12/2021	502,786	2,012,073	1,957,667	3,692,647	50,891	34,825	48,338	74,717	304,526
7/19/2021	502,786	2,012,073	1,957,667	3,692,647	50,891	34,825	48,338	74,717	304,526
7/26/2021	502,786	2,097,982	2,085,438	3,692,647	53,419	34,836	48,704	74,717	311,403
8/2/2021	502,786	2,133,865	2,157,698	3,692,647	54,534	34,838	48,850	74,717	312,140
8/9/2021	502,786	2,172,642	2,231,076	3,692,647	55,803	34,838	48,979	74,717	313,450
8/16/2021	502,786	2,172,642	2,231,076	3,692,647	55,803	34,838	48,979	74,717	313,450
8/23/2021	502,786	2,254,760	2,391,664	3,692,647	57,945	34,838	49,101	74,717	316,807
8/30/2021	502,786	2,278,527	2,454,628	3,692,647	59,335	34,838	49,134	74,717	318,329
9/6/2021	502,786	2,306,345	2,536,278	3,692,647	60,991	34,838	49,160	74,717	320,342
9/13/2021	502,786	2,345,297	2,621,157	3,692,647	61,087	34,838	49,183	74,717	320,978
9/20/2021	502,786	2,345,297	2,621,157	3,692,647	61,087	34,838	49,183	74,717	320,978
9/27/2021	502,786	2,380,714	2,728,518	3,692,647	61,091	34,838	49,267	74,717	321,312
3Q Totals:	**-**	**550,894**	**847,641**	**-**	**18,633**	**5,232**	**10,436**	**-**	**51,590**
10/4/2021	502,786	2,380,714	2,728,518	3,692,647	61,091	34,838	49,267	74,717	321,312
10/11/2021	502,786	2,380,714	2,728,518	3,692,647	61,091	34,838	49,267	74,717	321,312
10/18/2021	502,786	2,438,864	2,912,732	3,692,647	61,091	34,838	49,377	74,717	321,472
10/25/2021	502,786	2,438,864	2,912,732	3,692,647	61,091	34,838	49,377	74,717	321,472
11/1/2021	502,786	2,477,069	3,018,020	3,692,647	61,091	34,838	49,452	74,717	321,647
11/8/2021	502,786	2,494,353	3,076,848	3,692,647	61,091	34,838	49,503	74,717	321,779
11/15/2021	502,786	2,518,247	3,126,973	3,692,647	61,091	34,838	49,516	74,717	321,917
11/22/2021	502,786	2,536,141	3,174,460	3,692,647	61,091	34,838	49,563	74,717	322,015
11/29/2021	502,786	2,555,515	3,223,691	3,692,647	61,091	34,838	49,618	74,717	322,029
12/6/2021	502,786	2,555,515	3,223,691	3,692,647	61,091	34,838	49,618	74,717	322,029
12/13/2021	502,787	2,612,776	3,304,807	3,692,647	61,091	35,266	49,659	74,717	322,360
12/20/2021	502,787	2,612,776	3,304,807	3,692,647	61,091	35,266	49,659	74,717	322,360
12/27/2021	502,787	2,612,776	3,304,807	3,692,647	61,091	35,266	49,659	74,717	322,360
4Q Totals:	**1**	**232,062**	**576,289**	**-**	**-**	**428**	**392**	**-**	**1,048**

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Automated Fluid Readings - Skid Area T-9003

	Total Fluids Readings		PSH Readings		Tank Reading
Date	RW-4R	RW-6R	RW-4R	RW-6R	T-9003
12/16/2020	17,256	2,697,922	1	22,191	30,400
1/4/2021	17,256	2,767,399	1	24,379	32,756
1/11/2021	17,256	2,781,712	1	25,715	34,195
1/18/2021	17,256	2,781,712	1	26,683	35,217
1/25/2021	17,256	2,781,712	1	28,912	37,457
2/1/2021	17,256	2,781,712	1	29,167	37,661
2/8/2021	17,256	2,781,712	1	31,042	39,688
2/15/2021	17,256	2,781,712	1	32,016	40,558
2/22/2021	17,256	2,781,712	1	32,016	40,559
3/1/2021	17,256	2,781,712	1	32,843	40,689
3/8/2021	17,256	2,781,712	1	34,668	40,698
3/15/2021	17,256	2,781,712	1	35,422	40,706
3/22/2021	17,256	2,781,712	1	35,422	40,706
3/29/2021	17,256	2,781,712	1	35,422	40,707
1Q Totals:	**-**	**83,790**	**-**	**13,231**	**10,307**
4/5/2021	17,256	2,781,712	1	35,422	40,707
4/12/2021	17,256	2,787,754	1	36,560	40,707
4/19/2021	17,256	2,808,733	1	39,997	40,707
4/26/2021	23,203	2,820,565	1	41,206	40,707
5/3/2021	23,203	2,833,784	1	43,524	40,707
5/10/2021	23,203	2,849,697	1	45,272	40,707
5/17/2021	23,203	2,865,592	1	47,938	40,707
5/24/2021	23,203	2,865,592	1	47,938	40,707
5/31/2021	23,203	2,907,550	1	54,066	40,707
6/7/2021	23,203	2,907,550	1	54,066	40,707
6/14/2021	23,203	2,932,424	1	56,326	40,709
6/21/2021	23,203	2,932,424	1	56,326	40,709
6/28/2021	23,203	2,932,424	1	56,326	40,709
2Q Totals:	**5,947**	**150,712**	**-**	**20,904**	**2**
7/5/2021	656,538	2,938,836	8,503	63,956	43,139
7/12/2021	738,010	2,938,836	10,349	64,580	43,452
7/19/2021	738,010	2,938,836	10,349	64,580	43,452
7/26/2021	976,450	2,938,836	13,398	65,044	45,863
8/2/2021	1,109,675	2,938,836	13,581	67,191	45,863
8/9/2021	1,253,423	2,938,836	13,581	69,209	45,863
8/16/2021	1,253,423	2,938,836	13,581	69,209	45,863
8/23/2021	1,552,177	2,938,836	13,591	72,631	45,864
8/30/2021	1,679,824	2,941,779	13,720	73,048	45,951
9/6/2021	1,887,693	2,941,779	13,850	73,048	45,963
9/13/2021	2,084,969	2,941,779	13,851	73,048	45,969
9/20/2021	2,084,969	2,941,779	13,851	73,048	45,969
9/27/2021	2,084,969	2,941,779	13,851	73,048	45,976
3Q Totals:	**2,061,766**	**9,355**	**13,850**	**16,722**	**5,267**
10/4/2021	2,084,969	2,941,779	13,851	73,048	45,976
10/11/2021	2,084,969	2,941,779	13,851	73,048	45,976
10/18/2021	2,084,969	2,941,779	13,851	73,048	45,976
10/25/2021	2,084,969	2,941,779	13,851	73,048	45,976
11/1/2021	2,084,969	2,941,779	13,851	73,048	45,976
11/8/2021	2,218,415	2,941,779	13,851	73,048	45,976
11/15/2021	2,390,242	2,941,779	13,851	73,048	45,976
11/22/2021	2,559,129	2,941,779	13,851	73,048	45,976
11/29/2021	2,753,709	2,941,779	13,851	73,048	45,976
12/6/2021	2,753,709	2,941,779	13,851	73,048	45,976
12/13/2021	3,102,836	2,941,779	13,851	73,048	45,977
12/20/2021	3,102,836	2,941,779	13,851	73,048	45,977
12/27/2021	3,102,836	2,941,779	13,851	73,048	45,977
4Q Totals:	**1,017,867**	**-**	**-**	**-**	**1**

Automated Fluid Readings - Skid Area T-9021

	Total Fluids Readings			PSH Readings			Tank Reading
Date	RW-5R	RW-15	RW-19	RW-5R	RW-15	RW-19	T-9021
12/16/2020	611,945	2,559	391,034	28,778	13,070	10,505	545,594
1/4/2021	619,299	2,559	391,034	28,779	13,070	10,505	550,109
1/11/2021	622,075	2,559	391,034	28,788	13,070	10,505	551,367
1/18/2021	622,196	2,559	391,034	28,789	13,070	10,505	552,309
1/25/2021	622,921	2,559	391,034	28,792	13,070	10,505	553,981
2/1/2021	622,921	2,559	391,034	28,792	13,070	10,505	555,830
2/8/2021	622,921	2,559	391,034	28,792	13,070	10,505	559,814
2/15/2021	622,921	2,559	391,034	28,792	13,070	10,505	561,059
2/22/2021	622,921	2,559	391,034	28,792	13,070	10,505	561,593
3/1/2021	622,921	2,559	391,034	28,792	13,070	10,505	563,826
3/8/2021	622,921	2,559	391,034	28,792	13,070	10,505	566,086
3/15/2021	623,764	2,559	391,048	28,795	13,070	10,505	567,735
3/22/2021	623,793	2,559	391,048	28,797	13,070	10,505	568,354
3/29/2021	623,793	2,559	391,048	28,797	13,070	10,505	569,552
1Q Totals:	**11,848**	**-**	**14**	**19**	**-**	**-**	**23,958**
4/5/2021	623,793	2,559	391,048	28,797	13,070	10,505	571,393
4/12/2021	623,793	2,559	391,048	28,797	13,070	10,505	571,635
4/19/2021	623,793	2,559	391,048	28,797	13,070	10,505	579,769
4/26/2021	623,793	2,559	391,048	28,797	13,070	10,505	584,054
5/3/2021	623,832	2,559	391,048	28,797	13,070	10,505	587,060
5/10/2021	625,560	2,559	391,048	28,836	13,070	10,505	594,148
5/17/2021	627,388	2,559	391,048	28,842	13,070	10,505	597,709
5/24/2021	627,388	2,559	391,048	28,842	13,070	10,505	597,709
5/31/2021	628,754	2,559	391,048	28,858	13,070	10,505	599,985
6/7/2021	628,754	2,559	391,048	28,858	13,070	10,505	599,985
6/14/2021	629,274	2,559	391,048	28,860	13,070	10,505	619,725
6/21/2021	629,274	2,559	391,048	28,860	13,070	10,505	619,725
6/28/2021	629,274	2,559	391,048	28,860	13,070	10,505	619,725
2Q Totals:	**5,481**	**-**	**-**	**63**	**-**	**-**	**50,173**
7/5/2021	629,489	2,559	391,048	28,860	13,070	10,505	649,898
7/12/2021	629,502	2,559	391,048	28,860	13,070	10,505	653,805
7/19/2021	629,502	2,559	391,048	28,860	13,070	10,505	653,805
7/26/2021	629,618	2,559	391,048	28,860	13,070	10,505	653,831
8/2/2021	631,292	2,559	391,048	28,860	13,070	10,505	663,408
8/9/2021	633,506	2,559	391,048	28,860	13,070	10,505	663,745
8/16/2021	633,506	2,559	391,048	28,860	13,070	10,505	663,745
8/23/2021	639,039	2,559	391,048	28,860	13,070	10,505	664,131
8/30/2021	640,792	2,559	391,048	28,860	13,070	10,505	664,134
9/6/2021	645,936	2,559	391,048	28,860	13,070	10,505	664,134
9/13/2021	651,202	2,559	391,048	28,860	13,070	10,505	664,304
9/20/2021	651,202	2,559	391,048	28,860	13,070	10,505	664,304
9/27/2021	658,384	2,559	391,048	28,860	13,070	10,505	664,304
3Q Totals:	**29,110**	**-**	**-**	**-**	**-**	**-**	**44,579**
10/4/2021	658,384	2,559	391,048	28,860	13,070	10,505	664,304
10/11/2021	658,384	2,559	391,048	28,860	13,070	10,505	664,304
10/18/2021	663,682	2,559	391,048	28,860	13,070	10,505	664,304
10/25/2021	663,682	2,559	391,048	28,860	13,070	10,505	664,304
11/1/2021	663,682	2,559	391,048	28,860	13,070	10,505	664,304
11/8/2021	663,682	2,559	391,048	28,860	13,070	10,505	664,304
11/15/2021	663,682	2,559	391,048	28,860	13,070	10,505	664,304
11/22/2021	663,682	2,559	391,048	28,860	13,070	10,505	664,304
11/29/2021	663,682	2,559	391,048	28,860	13,070	10,505	664,304
12/6/2021	663,682	2,559	391,048	28,860	13,070	10,505	664,304
12/13/2021	663,682	2,559	391,048	28,860	13,070	10,505	664,304
12/20/2021	663,682	2,559	391,048	28,860	13,070	10,505	664,304
12/27/2021	663,682	2,559	391,048	28,860	13,070	10,505	664,304
4Q Totals:	**5,298**	**-**	**-**	**-**	**-**	**-**	**-**

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Appendix E.1 - Recovery System Gauging Data
2021 Annual Groundwater Monitoring Report
HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, NM

Automated Fluid Readings - Skid Area T-9020

	Total Fluids Readings					PSH Readings					Tank Reading
Date	RW-12R	RW-13R	RW-14R	RW-20	RW-22	RW-12R	RW-13R	RW-14R	RW-20	RW-22	T-9020
12/16/2020	234	1,859,343	2,938,795	1,767,306	381,377	4,755	4,892	283,159	48,816	83,802	384,963
1/4/2021	234	1,859,343	2,938,975	1,767,306	--	4,755	5,112	283,159	48,816	87,854	390,968
1/6/2021	--	--	--	--	382,465	--	--	--	--	--	--
1/11/2021	234	1,859,343	2,938,975	1,767,306	--	4,755	5,112	283,159	48,816	89,207	393,558
1/12/2021	--	--	--	--	382,465	--	--	--	--	--	--
1/18/2021	234	1,859,343	2,938,975	1,767,306	--	4,755	5,112	283,159	48,816	89,345	393,668
1/19/2021	--	--	--	--	382,465	--	--	--	--	--	--
1/25/2021	234	1,859,343	2,938,975	1,767,306	--	4,755	5,112	283,159	48,816	90,012	394,046
1/26/2021	--	--	--	--	382,465	--	--	--	--	--	--
2/1/2021	234	1,859,343	2,947,758	1,767,306	386,851	4,755	5,112	283,159	48,816	91,162	394,595
2/8/2021	234	1,859,343	2,967,954	1,767,306	392,547	4,755	5,112	284,315	48,816	93,994	396,930
2/15/2021	234	1,859,343	3,006,053	1,767,306	--	4,755	5,112	284,320	48,816	95,408	397,688
2/17/2021	--	--	--	--	392,547	--	--	--	--	--	--
2/22/2021	234	1,859,343	3,020,778	1,767,306	--	4,755	5,112	284,704	48,816	95,813	398,300
2/23/2021	--	--	--	--	392,547	--	--	--	--	--	--
3/1/2021	234	1,859,343	3,034,619	1,767,306	392,547	4,755	5,112	286,482	48,816	97,833	400,333
3/8/2021	234	1,859,343	3,049,171	1,767,306	392,547	4,755	5,112	288,424	48,816	99,907	402,570
3/15/2021	234	1,859,426	3,056,482	1,767,306	392,547	4,755	5,139	289,460	48,816	101,131	403,815
3/22/2021	234	1,859,433	3,070,005	1,767,306	--	4,755	5,185	289,785	48,816	101,232	404,108
3/23/2021	--	--	--	--	392,547	--	--	--	--	--	--
3/29/2021	234	1,859,434	3,082,272	1,767,306	392,547	4,755	5,569	290,542	48,816	101,816	405,110
1Q Totals:	**-**	**91**	**143,477**	**-**	**11,170**	**-**	**677**	**7,383**	**-**	**18,014**	**20,147**
4/5/2021	234	1,859,434	3,094,800	1,767,306	392,547	4,755	6,222	291,649	48,816	102,802	406,594
4/12/2021	234	1,859,434	3,108,737	1,767,306	392,547	4,755	6,303	291,856	48,816	102,921	406,807
4/19/2021	234	1,880,876	3,169,395	1,767,306	--	4,755	8,157	292,537	48,816	106,415	420,336
4/22/2021	--	--	--	--	392,547	--	--	--	--	--	--
4/26/2021	234	1,922,127	3,214,651	1,767,306	392,547	4,755	9,630	292,540	48,816	109,420	432,233
5/3/2021	234	1,944,547	3,292,064	1,767,306	392,547	4,755	10,601	292,540	48,816	112,005	436,193
5/10/2021	234	1,953,328	3,318,546	1,767,306	392,551	4,755	10,755	295,109	48,816	114,905	446,675
5/17/2021	234	1,953,328	3,355,476	1,767,306	392,551	4,755	10,755	295,615	48,816	115,929	450,738
5/24/2021	234	1,953,328	3,355,476	1,767,306	--	4,755	10,755	295,615	48,816	115,929	450,738
5/31/2021	234	1,953,328	3,463,132	1,767,306	--	4,755	10,755	296,353	48,816	115,929	452,956
6/3/2021	--	--	--	--	392,552	--	--	--	--	--	--
6/7/2021	234	1,953,328	3,463,132	1,767,306	392,552	4,755	10,755	296,353	48,816	115,929	452,956
6/14/2021	234	1,953,328	3,500,500	1,767,306	--	4,755	10,755	322,856	48,816	115,929	473,597
6/21/2021	234	1,953,328	3,500,500	1,767,306	--	4,755	10,755	322,856	48,816	115,929	473,597
6/28/2021	234	1,953,328	3,500,500	1,767,306	--	4,755	10,755	322,856	48,816	115,929	473,597
2Q Totals:	**-**	**93,894**	**418,228**	**-**	**5**	**-**	**5,186**	**32,314**	**-**	**14,113**	**68,487**
7/5/2021	234	2,034,440	3,640,332	1,767,306	--	4,755	12,831	350,370	48,816	123,153	508,182
7/7/2021	--	--	--	--	392,627	--	--	--	--	--	--
7/12/2021	234	2,034,440	3,692,729	1,767,306	392,627	4,755	12,831	350,372	48,816	124,883	511,509
7/19/2021	234	2,034,440	3,692,729	1,767,306	--	4,755	12,831	350,372	48,816	124,883	511,509
7/26/2021	234	2,034,440	3,840,555	1,767,306	392,627	4,755	12,831	350,377	48,816	128,788	517,644
8/2/2021	234	2,034,440	3,913,920	1,767,306	392,627	4,755	12,831	350,407	48,816	128,993	517,992
8/9/2021	234	2,034,440	3,986,055	1,767,306	392,627	4,755	12,831	350,964	48,816	129,085	518,750
8/16/2021	234	2,034,440	3,986,055	1,767,306	--	4,755	12,831	350,964	48,816	129,085	518,750
8/23/2021	234	2,034,440	4,035,497	1,767,306	--	4,755	12,831	351,027	48,816	129,421	519,013
8/24/2021	--	--	--	--	392,627	--	--	--	--	--	--
8/30/2021	234	2,034,440	4,039,198	1,767,306	392,627	4,755	12,831	351,027	48,816	129,421	519,013
9/6/2021	234	2,034,440	4,043,045	1,767,306	--	4,755	12,831	351,027	48,816	129,421	519,013
9/7/2021	--	--	--	--	392,627	--	--	--	--	--	--
9/13/2021	234	2,034,440	4,043,048	1,767,306	--	4,755	12,831	351,027	48,816	129,421	519,013
9/16/2021	--	--	--	--	392,627	--	--	--	--	--	--
9/20/2021	234	2,034,440	4,043,048	1,767,306	--	4,755	12,831	351,027	48,816	129,421	519,013
9/27/2021	234	2,034,440	4,043,048	1,767,306	--	4,755	12,831	351,027	48,816	129,421	519,013
9/28/2021	--	--	--	--	392,627	--	--	--	--	--	--
3Q Totals:	**-**	**81,112**	**542,548**	**-**	**75**	**-**	**2,076**	**28,171**	**-**	**13,492**	**45,416**
10/4/2021	234	2,034,440	4,043,048	1,767,306	--	4,755	12,831	351,027	48,816	129,421	519,013
10/11/2021	234	2,034,440	4,043,048	1,767,306	--	4,755	12,831	351,027	48,816	129,421	519,013
10/18/2021	234	2,034,440	4,043,048	1,767,306	392,627	4,755	12,831	351,027	48,816	129,421	519,013
10/25/2021	234	2,034,440	4,043,048	1,767,306	--	4,755	12,831	351,027	48,816	129,421	519,013
11/1/2021	234	2,034,440	4,043,048	1,767,306	--	4,755	12,831	351,027	48,816	129,421	519,013
11/8/2021	234	2,034,440	4,043,048	1,767,306	392,627	4,755	12,831	351,027	48,816	129,421	519,013
11/15/2021	234	2,034,440	4,043,048	1,767,306	392,627	4,755	12,831	351,027	48,816	129,421	519,013
11/22/2021	234	2,034,440	4,043,048	1,767,306	392,627	4,755	12,831	351,027	48,816	129,421	519,022
11/29/2021	234	2,034,440	4,043,048	1,767,306	--	4,755	12,831	351,027	48,816	129,421	519,030
11/30/2021	--	--	--	--	392,627	--	--	--	--	--	--
12/6/2021	234	2,034,440	4,043,048	1,767,306	--	4,755	12,831	351,027	48,816	129,421	519,030
12/13/2021	234	2,034,440	4,043,048	1,767,306	--	4,755	12,831	351,027	48,816	129,421	519,044
12/14/2021	--	--	--	--	392,627	--	--	--	--	--	--
12/20/2021	234	2,034,440	4,043,048	1,767,306	--	4,755	12,831	351,027	48,816	129,421	519,044
12/27/2021	234	2,034,440	4,043,048	1,767,306	--	4,755	12,831	351,027	48,816	129,421	519,044
4Q Totals:	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**31**

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Appendix E.2 - Recovery System Gauging Data
2021 Annual Groundwater Monitoring Report
HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, NM

Well	RW-1R							RW-2R							RW-4R						
Date	Depth to PSH (feet btoc)	Depth to Water (feet btoc)	Product Pump (feet btoc)	PSH Thickness (feet)	TOC Elevation (feet)	PSH Elevation (feet)	Water Elevation (feet)	Depth to PSH (feet btoc)	Depth to Water (feet btoc)	Product Pump (feet btoc)	PSH Thickness (feet)	TOC Elevation (feet)	PSH Elevation (feet)	Water Elevation (feet)	Depth to PSH (feet btoc)	Depth to Water (feet btoc)	Product Pump (feet btoc)	PSH Thickness (feet)	TOC Elevation (feet)	PSH Elevation (feet)	Water Elevation (feet)
12/16/20	17.85	19.10	17	1.25	3384.03	3366.18	3364.93	16.05	19.14	20	3.09	3385.17	3369.12	3366.03	0	16.00	Out	0.00	3381.86	--	3365.86
1/6/21	18.00	18.60	17	0.60	3384.03	3366.03	3365.43	18.40	28.70	20	10.30	3385.17	3366.77	3356.47	0	16.10	Out	0.00	3381.86	--	3365.76
1/12/21	17.95	18.40	17	0.45	3384.03	3366.08	3365.63	16.75	25.90	20	9.15	3385.17	3368.42	3359.27	0	16.00	Out	0.00	3381.86	--	3365.86
1/19/21	17.60	20.70	16.5	3.10	3384.03	3366.43	3363.33	17.80	30.00	20	12.20	3385.17	3367.37	3355.17	16.10	16.60	Out	0.50	3381.86	3365.76	3365.26
1/26/21	17.90	19.89	16.5	1.99	3384.03	3366.13	3364.14	16.60	17.60	20	1.00	3385.17	3368.57	3367.57	15.85	16.30	Out	0.45	3381.86	3366.01	3365.56
2/1/21	17.70	19.75	17.5	2.05	3384.03	3366.33	3364.28	17.90	19.80	20	1.90	3385.17	3367.27	3365.37	15.80	16.30	Out	0.50	3381.86	3366.06	3365.56
2/8/21	17.60	26.00	17.5	8.40	3384.03	3366.43	3358.03	20.30	20.80	20	0.50	3385.17	3364.87	3364.37	15.70	16.15	Out	0.45	3381.86	3366.16	3365.71
2/17/21	17.25	28.55	17.5	11.30	3384.03	3366.78	3355.48	16.70	27.05	20	10.35	3385.17	3368.47	3358.12	15.65	16.05	Out	0.40	3381.86	3366.21	3365.81
2/23/21	18.55	19.70	17.5	1.15	3384.03	3365.48	3364.33	16.60	17.85	20	1.25	3385.17	3368.57	3367.32	15.65	15.95	Out	0.30	3381.86	3366.21	3365.91
3/1/21	18.45	19.55	17.5	1.10	3384.03	3365.58	3364.48	20.15	20.65	20	0.50	3385.17	3365.02	3364.52	15.65	16.05	Out	0.40	3381.86	3366.21	3365.81
3/8/21	18.20	21.90	17.5	3.70	3384.03	3365.83	3362.13	17.85	24.85	20	7.00	3385.17	3367.32	3360.32	15.75	16.25	Out	0.50	3381.86	3366.11	3365.61
3/15/21	18.45	19.60	17.5	1.15	3384.03	3365.58	3364.43	20.20	20.75	20	0.55	3385.17	3364.97	3364.42	15.82	16.40	Out	0.58	3381.86	3366.04	3365.46
3/23/21	18.35	20.30	17.5	1.95	3384.03	3365.68	3363.73	17.20	25.55	20	8.35	3385.17	3367.97	3359.62	16.00	16.45	Out	0.45	3381.86	3365.86	3365.41
3/29/21	18.50	19.75	17.5	1.25	3384.03	3365.53	3364.28	19.30	20.75	20	1.45	3385.17	3365.87	3364.42	15.90	16.95	Out	1.05	3381.86	3365.96	3364.91
4/5/21	18.45	20.20	17.5	1.75	3384.03	3365.58	3363.83	19.80	22.15	20	2.35	3385.17	3365.37	3363.02	15.95	16.45	Out	0.50	3381.86	3365.91	3365.41
4/12/21	18.60	19.70	17.5	1.10	3384.03	3365.43	3364.33	20.40	20.80	20	0.40	3385.17	3364.77	3364.37	16.00	16.60	Out	0.60	3381.86	3365.86	3365.26
4/22/21	18.35	18.85	17.5	0.50	3384.03	3365.68	3365.18	20.15	20.65	20	0.50	3385.17	3365.02	3364.52	15.80	16.30	Out	0.50	3381.86	3366.06	3365.56
4/26/21	18.50	20.15	17.5	1.65	3384.03	3365.53	3363.88	20.30	20.85	20	0.55	3385.17	3364.87	3364.32	17.85	18.80	Out	0.95	3381.86	3364.01	3363.06
5/3/21	18.40	19.70	17.5	1.30	3384.03	3365.63	3364.33	20.30	20.88	20	0.58	3385.17	3364.87	3364.29	16.85	17.55	Out	0.70	3381.86	3365.01	3364.31
5/10/21	18.35	19.35	17.5	1.00	3384.03	3365.68	3364.68	20.30	20.80	20	0.50	3385.17	3364.87	3364.37	18.80	19.15	Out	0.35	3381.86	3363.06	3362.71
5/17/21	18.20	19.70	17.5	1.50	3384.03	3365.83	3364.33	20.32	20.90	20	0.58	3385.17	3364.85	3364.27	18.85	20.40	Out	1.55	3381.86	3363.01	3361.46
6/3/21	18.18	19.12	17.5	0.94	3384.03	3365.85	3364.91	20.30	21.67	20	1.37	3385.17	3364.87	3363.50	18.16	18.65	Out	0.49	3381.86	3363.70	3363.21
6/14/21	18.40	19.35	17.5	0.95	3384.03	3365.63	3364.68	29.75	29.76	20	0.01	3385.17	3355.42	3355.41	18.70	19.60	Out	0.90	3381.86	3363.16	3362.26
7/7/21	18.30	19.20	17.5	0.90	3384.03	3365.73	3364.83	0.00	29.35	20	0.00	3385.17	--	3355.82	17.10	18.60	Out	1.50	3381.86	3364.76	3363.26
7/12/21	0.00	18.15	17.5	0.00	3384.03	--	3365.88	0.00	29.20	20	0.00	3385.17	--	3355.97	18.25	18.80	Out	0.55	3381.86	3363.61	3363.06
7/26/21	17.45	20.25	17.5	2.80	3384.03	3366.58	3363.78	17.35	17.40	20	0.05	3385.17	3367.82	3367.77	18.55	19.15	Out	0.60	3381.86	3363.31	3362.71
8/2/21	17.25	19.80	17.5	2.55	3384.03	3366.78	3364.23	0.00	19.00	20	0.00	3385.17	--	3366.17	18.30	18.80	Out	0.50	3381.86	3363.56	3363.06
8/9/21	17.25	19.80	17.5	2.55	3384.03	3366.78	3364.23	17.90	18.00	20	0.10	3385.17	3367.27	3367.17	18.35	18.95	Out	0.60	3381.86	3363.51	3362.91
8/24/21	17.05	17.75	17.5	0.70	3384.03	3366.98	3366.28	17.70	18.00	20	0.30	3385.17	3367.47	3367.17	18.20	18.75	Out	0.55	3381.86	3363.66	3363.11
8/30/21	17.00	17.50	17.5	0.50	3384.03	3367.03	3366.53	17.50	17.85	20	0.35	3385.17	3367.67	3367.32	18.51	19.10	20.1	0.59	3381.86	3363.35	3362.76
9/7/21	15.60	18.20	17.5	2.60	3384.03	3368.43	3365.83	17.30	17.50	20	0.20	3385.17	3367.87	3367.67	18.65	19.20	20.1	0.55	3381.86	3363.21	3362.66
9/16/21	15.20	17.80	17.5	2.60	3384.03	3368.83	3366.23	18.20	18.60	20	0.40	3385.17	3366.97	3366.57	18.55	19.00	20.1	0.45	3381.86	3363.31	3362.86
9/28/21	14.50	17.45	17.5	2.95	3384.03	3369.53	3366.58	16.80	20.75	20	3.95	3385.17	3368.37	3364.42	18.45	19.00	20.1	0.55	3381.86	3363.41	3362.86
10/18/21	14.10	17.05	17.5	2.95	3384.03	3369.93	3366.98	16.20	22.00	20	5.80	3385.17	3368.97	3363.17	18.55	19.15	20.1	0.60	3381.86	3363.31	3362.71
11/8/21	14.90	17.65	17.5	2.75	3384.03	3369.13	3366.38	15.90	23.20	20	7.30	3385.17	3369.27	3361.97	19.05	19.65	20.1	0.60	3381.86	3362.81	3362.21
11/15/21	14.85	17.50	17.5	2.65	3384.03	3369.18	3366.53	18.05	26.40	20	8.35	3385.17	3367.12	3358.77	19.50	19.95	20.1	0.45	3381.86	3362.36	3361.91
11/22/21	14.65	17.80	17.5	3.15	3384.03	3369.38	3366.23	16.20	25.60	20	9.40	3385.17	3368.97	3359.57	19.95	20.30	20.1	0.35	3381.86	3361.91	3361.56
11/30/21	15.55	17.60	17.5	2.05	3384.03	3368.48	3366.43	16.05	25.60	20	9.55	3385.17	3369.12	3359.57	20.20	20.60	20.1	0.40	3381.86	3361.66	3361.26
12/14/21	14.80	17.80	17.5	3.00	3384.03	3369.23	3366.23	18.90	27.70	20	8.80	3385.17	3366.27	3357.47	20.10	20.25	20.1	0.15	3381.86	3361.76	3361.61

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Appendix E.2 - Recovery System Gauging Data
2021 Annual Groundwater Monitoring Report
HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, NM

Well	RW-5R							RW-6R							RW-7R						
Date	Depth to PSH (feet btoc)	Depth to Water (feet btoc)	Product Pump (feet btoc)	PSH Thickness (feet)	TOC Elevation (feet)	PSH Elevation (feet)	Water Elevation (feet)	Depth to PSH (feet btoc)	Depth to Water (feet btoc)	Product Pump (feet btoc)	PSH Thickness (feet)	TOC Elevation (feet)	PSH Elevation (feet)	Water Elevation (feet)	Depth to PSH (feet btoc)	Depth to Water (feet btoc)	Product Pump (feet btoc)	PSH Thickness (feet)	TOC Elevation (feet)	PSH Elevation (feet)	Water Elevation (feet)
12/16/20	21.95	22.45	21.5	0.50	3385.56	3363.61	3363.11	23.20	24.20	21.5	1.00	3385.36	3362.16	3361.16	20.10	21.70	18	1.60	3384.09	3363.99	3362.39
1/6/21	21.59	23.95	21	2.36	3385.56	3363.97	3361.61	19.00	23.25	20.5	4.25	3385.36	3366.36	3362.11	20.75	23.45	17	2.70	3384.09	3363.34	3360.64
1/12/21	20.89	22.20	21	1.31	3385.56	3364.67	3363.36	17.35	26.00	20.5	8.65	3385.36	3368.01	3359.36	20.85	24.00	17	3.15	3384.09	3363.24	3360.09
1/19/21	22.70	24.42	21	1.72	3385.56	3362.86	3361.14	17.05	24.40	20.5	7.35	3385.36	3368.31	3360.96	21.20	23.80	17	2.60	3384.09	3362.89	3360.29
1/26/21	20.80	22.60	21	1.80	3385.56	3364.76	3362.96	16.90	22.20	20.5	5.30	3385.36	3368.46	3363.16	21.20	23.80	17	2.60	3384.09	3362.89	3360.29
2/1/21	20.75	22.90	21	2.15	3385.56	3364.81	3362.66	16.55	26.55	20.5	10.00	3385.36	3368.81	3358.81	21.40	22.25	21	0.85	3384.09	3362.69	3361.84
2/8/21	20.70	23.20	21	2.50	3385.56	3364.86	3362.36	16.60	18.65	20.5	2.05	3385.36	3368.76	3366.71	21.40	22.30	21	0.90	3384.09	3362.69	3361.79
2/17/21	20.60	23.54	21	2.94	3385.56	3364.96	3362.02	16.45	17.50	20.5	1.05	3385.36	3368.91	3367.86	21.70	23.00	21	1.30	3384.09	3362.39	3361.09
2/23/21	20.55	23.80	21	3.25	3385.56	3365.01	3361.76	16.40	17.55	20.5	1.15	3385.36	3368.96	3367.81	21.15	22.35	21	1.20	3384.09	3362.94	3361.74
3/1/21	20.05	23.40	21	3.35	3385.56	3365.51	3362.16	17.50	24.55	20.5	7.05	3385.36	3367.86	3360.81	21.35	22.50	21	1.15	3384.09	3362.74	3361.59
3/8/21	19.89	23.60	21	3.71	3385.56	3365.67	3361.96	17.80	23.50	20.5	5.70	3385.36	3367.56	3361.86	21.20	22.70	21	1.50	3384.09	3362.89	3361.39
3/15/21	20.79	23.92	21	3.13	3385.56	3364.77	3361.64	16.35	18.10	20.5	1.75	3385.36	3369.01	3367.26	20.91	22.00	21	1.09	3384.09	3363.18	3362.09
3/23/21	20.50	23.60	21	3.10	3385.56	3365.06	3361.96	16.30	17.70	20.5	1.40	3385.36	3369.06	3367.66	21.00	21.10	21	0.10	3384.09	3363.09	3362.99
3/29/21	19.95	23.00	21	3.05	3385.56	3365.61	3362.56	16.40	17.70	20.5	1.30	3385.36	3368.96	3367.66	20.90	21.60	21	0.70	3384.09	3363.19	3362.49
4/5/21	20.00	20.75	21	0.75	3385.56	3365.56	3364.81	16.35	18.00	20.5	1.65	3385.36	3369.01	3367.36	20.50	20.75	21	0.25	3384.09	3363.59	3363.34
4/12/21	21.10	23.25	21	2.15	3385.56	3364.46	3362.31	17.30	24.00	20.5	6.70	3385.36	3368.06	3361.36	20.80	22.20	21	1.40	3384.09	3363.29	3361.89
4/22/21	20.13	23.20	21	3.07	3385.56	3365.43	3362.36	17.13	23.20	22	6.07	3385.36	3368.23	3362.16	20.45	21.23	21	0.78	3384.09	3363.64	3362.86
4/26/21	20.07	26.42	21	6.35	3385.56	3365.49	3359.14	17.45	22.00	22	4.55	3385.36	3367.91	3363.36	20.70	22.10	21	1.40	3384.09	3363.39	3361.99
5/3/21	20.75	23.78	21	3.03	3385.56	3364.81	3361.78	17.20	22.20	22	5.00	3385.36	3368.16	3363.16	20.10	20.90	21	0.80	3384.09	3363.99	3363.19
5/10/21	21.85	22.65	21	0.80	3385.56	3363.71	3362.91	18.53	23.44	22.5	4.91	3385.36	3366.83	3361.92	19.90	20.90	21	1.00	3384.09	3364.19	3363.19
5/17/21	21.80	23.25	21	1.45	3385.56	3363.76	3362.31	17.30	23.00	22.5	5.70	3385.36	3368.06	3362.36	19.60	20.20	21	0.60	3384.09	3364.49	3363.89
6/3/21	21.63	24.76	21	3.13	3385.56	3363.93	3360.80	17.22	22.70	22.5	5.48	3385.36	3368.14	3362.66	18.93	19.31	21	0.38	3384.09	3365.16	3364.78
6/14/21	21.45	25.45	21	4.00	3385.56	3364.11	3360.11	17.20	23.20	22.5	6.00	3385.36	3368.16	3362.16	19.00	19.15	21	0.15	3384.09	3365.09	3364.94
7/7/21	21.60	25.50	21	3.90	3385.56	3363.96	3360.06	19.65	21.20	22.5	1.55	3385.36	3365.71	3364.16	14.50	16.35	21	1.85	3384.09	3369.59	3367.74
7/12/21	21.50	26.05	21	4.55	3385.56	3364.06	3359.51	18.93	19.50	22.5	0.57	3385.36	3366.43	3365.86	14.95	16.35	21	1.40	3384.09	3369.14	3367.74
7/26/21	21.00	28.40	21	7.40	3385.56	3364.56	3357.16	17.35	20.35	22.5	3.00	3385.36	3368.01	3365.01	16.57	17.25	15.55	0.68	3384.09	3367.52	3366.84
8/2/21	20.00	25.95	21	5.95	3385.56	3365.56	3359.61	16.50	23.55	22.5	7.05	3385.36	3368.86	3361.81	16.47	17.45	15.55	0.98	3384.09	3367.62	3366.64
8/9/21	19.85	26.15	21	6.30	3385.56	3365.71	3359.41	16.75	22.45	22.5	5.70	3385.36	3368.61	3362.91	16.65	17.50	15.55	0.85	3384.09	3367.44	3366.59
8/24/21	21.55	25.93	21	4.38	3385.56	3364.01	3359.63	17.40	21.00	22.5	3.60	3385.36	3367.96	3364.36	16.34	16.45	15.55	0.11	3384.09	3367.75	3367.64
8/30/21	20.35	25.69	21	5.34	3385.56	3365.21	3359.87	22.50	23.00	19.6	0.50	3385.36	3362.86	3362.36	16.45	16.95	15.55	0.50	3384.09	3367.64	3367.14
9/7/21	19.78	26.15	21	6.37	3385.56	3365.78	3359.41	20.85	21.55	19.6	0.70	3385.36	3364.51	3363.81	16.55	16.90	15.55	0.35	3384.09	3367.54	3367.19
9/16/21	19.65	25.65	21	6.00	3385.56	3365.91	3359.91	19.25	21.60	19.6	2.35	3385.36	3366.11	3363.76	16.25	17.75	15.55	1.50	3384.09	3367.84	3366.34
9/28/21	19.20	27.70	21	8.50	3385.56	3366.36	3357.86	20.10	21.35	19.6	1.25	3385.36	3365.26	3364.01	16.55	16.95	15.55	0.40	3384.09	3367.54	3367.14
10/18/21	17.78	21.12	21	3.34	3385.56	3367.78	3364.44	19.90	20.95	19.6	1.05	3385.36	3365.46	3364.41	16.75	17.10	15.55	0.35	3384.09	3367.34	3366.99
11/8/21	18.10	20.49	21	2.39	3385.56	3367.46	3365.07	19.80	21.90	19.6	2.10	3385.36	3365.56	3363.46	16.85	17.15	15.55	0.30	3384.09	3367.24	3366.94
11/15/21	18.10	20.38	21	2.28	3385.56	3367.46	3365.18	19.50	21.65	19.6	2.15	3385.36	3365.86	3363.71	16.50	18.00	15.55	1.50	3384.09	3367.59	3366.09
11/22/21	18.19	20.22	21	2.03	3385.56	3367.37	3365.34	20.65	21.30	19.6	0.65	3385.36	3364.71	3364.06	16.85	17.40	15.55	0.55	3384.09	3367.24	3366.69
11/30/21	18.10	20.09	21	1.99	3385.56	3367.46	3365.47	21.20	21.30	19.6	0.10	3385.36	3364.16	3364.06	16.82	17.40	15.55	0.58	3384.09	3367.27	3366.69
12/14/21	18.17	19.96	21	1.79	3385.56	3367.39	3365.60	18.20	21.40	19.6	3.20	3385.36	3367.16	3363.96	16.50	17.55	15.55	1.05	3384.09	3367.59	3366.54

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Appendix E.2 - Recovery System Gauging Data
2021 Annual Groundwater Monitoring Report
HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, NM

Well	RW-8R							RW-12R							RW-13R						
Date	Depth to PSH (feet btoc)	Depth to Water (feet btoc)	Product Pump (feet btoc)	PSH Thickness (feet)	TOC Elevation (feet)	PSH Elevation (feet)	Water Elevation (feet)	Depth to PSH (feet btoc)	Depth to Water (feet btoc)	Product Pump (feet btoc)	PSH Thickness (feet)	TOC Elevation (feet)	PSH Elevation (feet)	Water Elevation (feet)	Depth to PSH (feet btoc)	Depth to Water (feet btoc)	Product Pump (feet btoc)	PSH Thickness (feet)	TOC Elevation (feet)	PSH Elevation (feet)	Water Elevation (feet)
12/16/20	18.00	20.20	18.5	2.20	3385.10	3367.10	3364.90	0	25.25	Out	0.00	3368.54	--	3343.29	23.82	24.95	23.75	1.13	3368.54	3344.72	3343.59
1/6/21	17.50	19.43	18.5	1.93	3385.10	3367.60	3365.67	0	27.00	Out	0.00	3368.54	--	3341.54	24.10	25.00	23.25	0.90	3368.54	3344.44	3343.54
1/12/21	17.30	19.00	18.5	1.70	3385.10	3367.80	3366.10	0	27.00	Out	0.00	3368.54	--	3341.54	24.13	26.25	23.25	2.12	3368.54	3344.41	3342.29
1/19/21	17.60	19.30	18.5	1.70	3385.10	3367.50	3365.80	0	27.00	Out	0.00	3368.54	--	3341.54	24.25	26.50	23.25	2.25	3368.54	3344.29	3342.04
1/26/21	17.70	19.65	18.5	1.95	3385.10	3367.40	3365.45	0	27.00	Out	0.00	3368.54	--	3341.54	24.30	26.75	23.25	2.45	3368.54	3344.24	3341.79
2/1/21	17.60	19.85	18.5	2.25	3385.10	3367.50	3365.25	0	27.54	Out	0.00	3368.54	--	3341.00	24.45	26.90	23.25	2.45	3368.54	3344.09	3341.64
2/8/21	18.50	21.70	18.5	3.20	3385.10	3366.60	3363.40	0	27.50	Out	0.00	3368.54	--	3341.04	24.55	27.10	23.25	2.55	3368.54	3343.99	3341.44
2/17/21	17.65	19.05	18.5	1.40	3385.10	3367.45	3366.05	0	27.83	Out	0.00	3368.54	--	3340.71	24.75	27.35	23.25	2.60	3368.54	3343.79	3341.19
2/23/21	17.25	19.25	18.5	2.00	3385.10	3367.85	3365.85	0	27.80	Out	0.00	3368.54	--	3340.74	24.80	27.45	23.25	2.65	3368.54	3343.74	3341.09
3/1/21	18.60	21.70	18.5	3.10	3385.10	3366.50	3363.40	0	27.87	Out	0.00	3368.54	--	3340.67	24.90	27.55	23.25	2.65	3368.54	3343.64	3340.99
3/8/21	17.90	22.85	18.5	4.95	3385.10	3367.20	3362.25	0	27.95	Out	0.00	3368.54	--	3340.59	25.00	27.80	23.25	2.80	3368.54	3343.54	3340.74
3/15/21	18.50	21.80	18.5	3.30	3385.10	3366.60	3363.30	0	28.00	Out	0.00	3368.54	--	3340.54	25.05	27.80	23.25	2.75	3368.54	3343.49	3340.74
3/23/21	19.20	22.25	18.5	3.05	3385.10	3365.90	3362.85	0	28.30	Out	0.00	3368.54	--	3340.24	25.80	27.40	24.75	1.60	3368.54	3342.74	3341.14
3/29/21	18.55	21.80	18.5	3.25	3385.10	3366.55	3363.30	0	28.30	Out	0.00	3368.54	--	3340.24	25.70	27.87	24.75	2.17	3368.54	3342.84	3340.67
4/5/21	19.25	21.65	18.5	2.40	3385.10	3365.85	3363.45	0	28.30	Out	0.00	3368.54	--	3340.24	26.10	27.50	24.75	1.40	3368.54	3342.44	3341.04
4/12/21	17.30	22.20	18.5	4.90	3385.10	3367.80	3362.90	0	28.30	Out	0.00	3368.54	--	3340.24	25.33	27.93	24.75	2.60	3368.54	3343.21	3340.61
4/22/21	17.67	22.25	18.5	4.58	3385.10	3367.43	3362.85	0	22.47	Out	0.00	3368.54	--	3346.07	23.18	24.37	24.75	1.19	3368.54	3345.36	3344.17
4/26/21	17.45	22.60	18.5	5.15	3385.10	3367.65	3362.50	0	23.00	Out	0.00	3368.54	--	3345.54	23.35	27.63	24.75	4.28	3368.54	3345.19	3340.91
5/3/21	18.75	22.85	18.5	4.10	3385.10	3366.35	3362.25	0	23.00	Out	0.00	3368.54	--	3345.54	23.35	26.45	24.75	3.10	3368.54	3345.19	3342.09
5/10/21	18.60	21.05	18.5	2.45	3385.10	3366.50	3364.05	0	24.63	Out	0.00	3368.54	--	3343.91	24.64	29.87	24.75	5.23	3368.54	3343.90	3338.67
5/17/21	17.80	20.45	18.5	2.65	3385.10	3367.30	3364.65	0	24.65	Out	0.00	3368.54	--	3343.89	25.22	30.53	24.75	5.31	3368.54	3343.32	3338.01
6/3/21	18.97	20.13	18.5	1.16	3385.10	3366.13	3364.97	0	22.80	Out	0.00	3368.54	--	3345.74	24.14	24.18	24.75	0.04	3368.54	3344.40	3344.36
6/14/21	18.35	18.85	18.5	0.50	3385.10	3366.75	3366.25	0	23.47	Out	0.00	3368.54	--	3345.07	25.25	30.93	24.75	5.68	3368.54	3343.29	3337.61
7/7/21	13.80	14.60	18.5	0.80	3385.10	3371.30	3370.50	0	19.73	Out	0.00	3368.54	--	3348.81	18.72	21.33	24.75	2.61	3368.54	3349.82	3347.21
7/12/21	14.00	14.80	18.5	0.80	3385.10	3371.10	3370.30	0	20.90	Out	0.00	3368.54	--	3347.64	20.46	22.98	24.75	2.52	3368.54	3348.08	3345.56
7/26/21	14.20	15.00	18.5	0.80	3385.10	3370.90	3370.10	0	22.35	Out	0.00	3368.54	--	3346.19	19.80	22.40	24.75	2.60	3368.54	3348.74	3346.14
8/2/21	14.10	15.35	18.5	1.25	3385.10	3371.00	3369.75	0	22.30	Out	0.00	3368.54	--	3346.24	21.85	24.65	24.75	2.80	3368.54	3346.69	3343.89
8/9/21	14.15	15.25	18.5	1.10	3385.10	3370.95	3369.85	0	19.69	Out	0.00	3368.54	--	3348.85	18.59	21.64	24.75	3.05	3368.54	3349.95	3346.90
8/24/21	13.85	14.50	18.5	0.65	3385.10	3371.25	3370.60	0	18.45	Out	0.00	3368.54	--	3350.09	17.45	19.67	24.75	2.22	3368.54	3351.09	3348.87
8/30/21	13.85	15.00	18.5	1.15	3385.10	3371.25	3370.10	0	19.30	Out	0.00	3368.54	--	3349.24	19.40	20.98	24.75	1.58	3368.54	3349.14	3347.56
9/7/21	14.50	15.25	18.5	0.75	3385.10	3370.60	3369.85	0	19.00	Out	0.00	3368.54	--	3349.54	18.20	20.65	24.75	2.45	3368.54	3350.34	3347.89
9/16/21	14.30	15.80	18.5	1.50	3385.10	3370.80	3369.30	0	19.00	Out	0.00	3368.54	--	3349.54	17.10	19.70	24.75	2.60	3368.54	3351.44	3348.84
9/28/21	14.50	16.45	18.5	1.95	3385.10	3370.60	3368.65	0	19.73	Out	0.00	3368.54	--	3348.81	18.87	21.42	24.75	2.55	3368.54	3349.67	3347.12
10/18/21	14.45	16.50	18.5	2.05	3385.10	3370.65	3368.60	0	17.62	Out	0.00	3368.54	--	3350.92	15.97	17.78	24.75	1.81	3368.54	3352.57	3350.76
11/8/21	14.75	16.90	18.5	2.15	3385.10	3370.35	3368.20	0	22.22	Out	0.00	3368.54	--	3346.32	20.84	21.00	24.75	0.16	3368.54	3347.70	3347.54
11/15/21	14.80	16.90	18.5	2.10	3385.10	3370.30	3368.20	0	22.20	Out	0.00	3368.54	--	3346.34	21.70	21.73	24.75	0.03	3368.54	3346.84	3346.81
11/22/21	14.95	17.15	18.5	2.20	3385.10	3370.15	3367.95	0	23.90	Out	0.00	3368.54	--	3344.64	22.00	22.08	24.75	0.08	3368.54	3346.54	3346.46
11/30/21	14.85	17.00	18.5	2.15	3385.10	3370.25	3368.10	0	24.52	Out	0.00	3368.54	--	3344.02	22.19	22.89	24.75	0.70	3368.54	3346.35	3345.65
12/14/21	15.00	17.25	18.5	2.25	3385.10	3370.10	3367.85	0	24.50	Out	0.00	3368.54	--	3344.04	22.60	22.69	24.75	0.09	3368.54	3345.94	3345.85

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Appendix E.2 - Recovery System Gauging Data
2021 Annual Groundwater Monitoring Report
HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, NM

Well	RW-14R							RW-15							RW-19						
Date	Depth to PSH (feet btoc)	Depth to Water (feet btoc)	Product Pump (feet btoc)	PSH Thickness (feet)	TOC Elevation (feet)	PSH Elevation (feet)	Water Elevation (feet)	Depth to PSH (feet btoc)	Depth to Water (feet btoc)	Product Pump (feet btoc)	PSH Thickness (feet)	TOC Elevation (feet)	PSH Elevation (feet)	Water Elevation (feet)	Depth to PSH (feet btoc)	Depth to Water (feet btoc)	Product Pump (feet btoc)	PSH Thickness (feet)	TOC Elevation (feet)	PSH Elevation (feet)	Water Elevation (feet)
12/16/20	20.80	23.70	20.50	2.90	3366.37	3345.57	3342.67	16.80	16.81	Out	0.01	3382.30	3365.50	3365.49	26.95	27.08	32	0.13	3386.11	3359.16	3359.03
1/6/21	21.20	24.25	20.50	3.05	3366.37	3345.17	3342.12	16.80	16.81	Out	0.01	3382.30	3365.50	3365.49	27.13	27.25	32	0.12	3386.11	3358.98	3358.86
1/12/21	21.30	24.33	20.50	3.03	3366.37	3345.07	3342.04	16.80	16.81	Out	0.01	3382.30	3365.50	3365.49	27.21	27.30	32	0.09	3386.11	3358.90	3358.81
1/19/21	21.35	24.75	20.50	3.40	3366.37	3345.02	3341.62	16.80	16.81	Out	0.01	3382.30	3365.50	3365.49	27.33	27.40	32	0.07	3386.11	3358.78	3358.71
1/26/21	21.42	25.15	20.50	3.73	3366.37	3344.95	3341.22	16.80	16.81	Out	0.01	3382.30	3365.50	3365.49	27.28	27.37	32	0.09	3386.11	3358.83	3358.74
2/1/21	22.45	30.92	20.50	8.47	3366.37	3343.92	3335.45	16.80	16.81	Out	0.01	3382.30	3365.50	3365.49	27.30	27.35	32	0.05	3386.11	3358.81	3358.76
2/8/21	24.10	31.64	23.50	7.54	3366.37	3342.27	3334.73	16.80	16.81	Out	0.01	3382.30	3365.50	3365.49	27.30	27.40	32	0.10	3386.11	3358.81	3358.71
2/17/21	22.32	31.55	23.50	9.23	3366.37	3344.05	3334.82	16.80	16.81	Out	0.01	3382.30	3365.50	3365.49	27.38	27.38	32	0.00	3386.11	3358.73	3358.73
2/23/21	23.62	27.55	23.50	3.93	3366.37	3342.75	3338.82	16.80	16.81	Out	0.01	3382.30	3365.50	3365.49	27.40	27.52	32	0.12	3386.11	3358.71	3358.59
3/1/21	23.95	29.00	23.50	5.05	3366.37	3342.42	3337.37	16.80	16.81	Out	0.01	3382.30	3365.50	3365.49	27.40	27.52	32	0.12	3386.11	3358.71	3358.59
3/8/21	23.90	27.30	23.50	3.40	3366.37	3342.47	3339.07	16.80	16.81	Out	0.01	3382.30	3365.50	3365.49	27.50	27.60	32	0.10	3386.11	3358.61	3358.51
3/15/21	22.95	30.90	24.50	7.95	3366.37	3343.42	3335.47	16.80	16.81	Out	0.01	3382.30	3365.50	3365.49	28.49	28.60	32	0.11	3386.11	3357.62	3357.51
3/23/21	26.95	27.40	24.50	0.45	3366.37	3339.42	3338.97	16.80	16.81	Out	0.01	3382.30	3365.50	3365.49	28.43	28.64	32	0.21	3386.11	3357.68	3357.47
3/29/21	24.00	29.50	24.50	5.50	3366.37	3342.37	3336.87	16.80	16.81	Out	0.01	3382.30	3365.50	3365.49	28.55	28.80	32	0.25	3386.11	3357.56	3357.31
4/5/21	24.60	26.90	24.50	2.30	3366.37	3341.77	3339.47	16.80	16.81	Out	0.01	3382.30	3365.50	3365.49	28.66	28.75	32	0.09	3386.11	3357.45	3357.36
4/12/21	23.00	31.40	24.50	8.40	3366.37	3343.37	3334.97	16.80	16.81	Out	0.01	3382.30	3365.50	3365.49	28.74	28.95	32	0.21	3386.11	3357.37	3357.16
4/22/21	23.85	23.85	22.95	0.00	3366.37	3342.52	3342.52	16.80	16.81	Out	0.01	3382.30	3365.50	3365.49	28.74	28.89	32	0.15	3386.11	3357.37	3357.22
4/26/21	23.60	29.10	22.95	5.50	3366.37	3342.77	3337.27	16.80	16.81	Out	0.01	3382.30	3365.50	3365.49	28.85	29.00	32	0.15	3386.11	3357.26	3357.11
5/3/21	24.15	30.60	22.95	6.45	3366.37	3342.22	3335.77	16.80	16.81	Out	0.01	3382.30	3365.50	3365.49	28.88	29.10	32	0.22	3386.11	3357.23	3357.01
5/10/21	23.36	23.50	22.95	0.14	3366.37	3343.01	3342.87	16.80	16.81	Out	0.01	3382.30	3365.50	3365.49	28.92	29.05	32	0.13	3386.11	3357.19	3357.06
5/17/21	23.35	23.40	22.95	0.05	3366.37	3343.02	3342.97	16.80	16.81	Out	0.01	3382.30	3365.50	3365.49	28.92	29.12	32	0.20	3386.11	3357.19	3356.99
6/3/21	20.34	23.82	22.95	3.48	3366.37	3346.03	3342.55	16.80	16.81	Out	0.01	3382.30	3365.50	3365.49	28.90	29.20	32	0.30	3386.11	3357.21	3356.91
6/14/21	21.67	23.10	22.95	1.44	3366.37	3344.71	3343.27	16.80	16.81	Out	0.01	3382.30	3365.50	3365.49	28.88	29.30	32	0.42	3386.11	3357.23	3356.81
7/7/21	18.65	18.78	22.95	0.13	3366.37	3347.72	3347.59	16.80	16.81	Out	0.01	3382.30	3365.50	3365.49	28.80	29.02	32	0.22	3386.11	3357.31	3357.09
7/12/21	19.60	19.61	22.95	0.01	3366.37	3346.77	3346.76	16.80	16.81	Out	0.01	3382.30	3365.50	3365.49	28.48	28.93	32	0.45	3386.11	3357.63	3357.18
7/26/21	18.85	20.25	22.95	1.40	3366.37	3347.52	3346.12	16.80	16.81	Out	0.01	3382.30	3365.50	3365.49	28.15	28.60	32	0.45	3386.11	3357.96	3357.51
8/2/21	19.63	19.90	19.92	0.27	3366.37	3346.74	3346.47	16.80	16.81	Out	0.01	3382.30	3365.50	3365.49	28.05	28.50	32	0.45	3386.11	3358.06	3357.61
8/9/21	18.70	19.10	19.92	0.40	3366.37	3347.67	3347.27	16.80	16.81	Out	0.01	3382.30	3365.50	3365.49	27.96	28.57	32	0.61	3386.11	3358.15	3357.54
8/24/21	15.88	16.28	19.92	0.40	3366.37	3350.49	3350.09	16.80	16.81	Out	0.01	3382.30	3365.50	3365.49	27.91	27.99	32	0.08	3386.11	3358.20	3358.12
8/30/21	16.15	16.60	19.92	0.45	3366.37	3350.22	3349.77	16.80	16.81	Out	0.01	3382.30	3365.50	3365.49	27.91	27.99	32	0.08	3386.11	3358.20	3358.12
9/7/21	15.92	16.15	19.92	0.23	3366.37	3350.45	3350.22	16.80	16.81	Out	0.01	3382.30	3365.50	3365.49	29.62	30.00	32	0.38	3386.11	3356.49	3356.11
9/16/21	15.34	15.74	19.92	0.40	3366.37	3351.03	3350.63	16.80	16.81	Out	0.01	3382.30	3365.50	3365.49	27.57	28.12	32	0.55	3386.11	3358.54	3357.99
9/28/21	16.43	16.57	19.92	0.14	3366.37	3349.94	3349.80	16.80	16.81	Out	0.01	3382.30	3365.50	3365.49	27.57	28.12	32	0.55	3386.11	3358.54	3357.99
10/18/21	15.15	15.47	19.92	0.32	3366.37	3351.22	3350.90	16.80	16.81	Out	0.01	3382.30	3365.50	3365.49	26.95	28.88	32	1.93	3386.11	3359.16	3357.23
11/8/21	17.35	17.62	19.92	0.27	3366.37	3349.02	3348.75	16.80	16.81	Out	0.01	3382.30	3365.50	3365.49	26.79	28.65	32	1.86	3386.11	3359.32	3357.46
11/15/21	17.92	18.32	19.92	0.40	3366.37	3348.45	3348.05	16.80	16.81	Out	0.01	3382.30	3365.50	3365.49	26.70	28.62	32	1.92	3386.11	3359.41	3357.49
11/22/21	18.37	18.70	19.92	0.33	3366.37	3348.00	3347.67	16.80	16.81	Out	0.01	3382.30	3365.50	3365.49	26.80	28.65	32	1.85	3386.11	3359.31	3357.46
11/30/21	18.89	19.18	19.92	0.29	3366.37	3347.48	3347.19	16.80	16.81	Out	0.01	3382.30	3365.50	3365.49	26.65	28.50	32	1.85	3386.11	3359.46	3357.61
12/14/21	19.41	19.48	19.92	0.07	3366.37	3346.96	3346.89	16.80	16.81	Out	0.01	3382.30	3365.50	3365.49	25.55	27.40	32	1.85	3386.11	3360.56	3358.71

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Appendix E.2 - Recovery System Gauging Data
2021 Annual Groundwater Monitoring Report
HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, NM

Well	RW-20							RW-22						
Date	Depth to PSH (feet btoc)	Depth to Water (feet btoc)	Product Pump (feet btoc)	PSH Thickness (feet)	TOC Elevation (feet)	PSH Elevation (feet)	Water Elevation (feet)	Depth to PSH (feet btoc)	Depth to Water (feet btoc)	Product Pump (feet btoc)	PSH Thickness (feet)	TOC Elevation (feet)	PSH Elevation (feet)	Water Elevation (feet)
12/16/20	0.00	20.30	16	0.00	3365.44	--	3345.14	26.10	27.10	25.5	1.00	3366.21	3340.11	3339.11
1/6/21	20.95	21.00	16	0.05	3365.44	3344.49	3344.44	25.07	25.09	25	0.02	3366.21	3341.14	3341.12
1/12/21	20.90	20.95	16	0.05	3365.44	3344.54	3344.49	25.26	28.74	25	3.48	3366.21	3340.95	3337.47
1/19/21	20.90	20.96	16	0.06	3365.44	3344.54	3344.48	25.40	29.10	25	3.70	3366.21	3340.81	3337.11
1/26/21	20.89	20.91	16	0.02	3365.44	3344.55	3344.53	26.35	26.40	25	0.05	3366.21	3339.86	3339.81
2/1/21	21.00	21.00	16	0.00	3365.44	3344.44	3344.44	27.57	33.35	27	5.78	3366.21	3338.64	3332.86
2/8/21	21.00	21.00	16	0.00	3365.44	3344.44	3344.44	28.49	28.95	28	0.46	3366.21	3337.72	3337.26
2/17/21	21.00	21.00	16	0.00	3365.44	3344.44	3344.44	27.86	33.35	28	5.49	3366.21	3338.35	3332.86
2/23/21	21.00	21.00	16	0.00	3365.44	3344.44	3344.44	28.80	28.86	28	0.06	3366.21	3337.41	3337.35
3/1/21	21.00	21.00	16	0.00	3365.44	3344.44	3344.44	29.38	29.45	28	0.07	3366.21	3336.83	3336.76
3/8/21	21.00	21.00	16	0.00	3365.44	3344.44	3344.44	29.57	29.60	28	0.03	3366.21	3336.64	3336.61
3/15/21	21.00	21.00	16	0.00	3365.44	3344.44	3344.44	27.60	33.14	28	5.54	3366.21	3338.61	3333.07
3/23/21	21.00	21.00	16	0.00	3365.44	3344.44	3344.44	27.90	31.35	28	3.45	3366.21	3338.31	3334.86
3/29/21	21.00	21.00	16	0.00	3365.44	3344.44	3344.44	28.20	32.50	28	4.30	3366.21	3338.01	3333.71
4/5/21	21.00	21.00	16	0.00	3365.44	3344.44	3344.44	28.45	29.10	28	0.65	3366.21	3337.76	3337.11
4/12/21	21.00	21.00	16	0.00	3365.44	3344.44	3344.44	27.87	33.59	28	5.72	3366.21	3338.34	3332.62
4/22/21	19.20	19.20	16	0.00	3365.44	3346.24	3346.24	22.65	22.92	19.6	0.27	3366.21	3343.56	3343.29
4/26/21	19.20	19.30	16	0.10	3365.44	3346.24	3346.14	21.35	21.60	19.6	0.25	3366.21	3344.86	3344.61
5/3/21	19.20	19.25	16	0.05	3365.44	3346.24	3346.19	23.97	24.29	19.6	0.32	3366.21	3342.24	3341.92
5/10/21	19.20	19.25	16	0.05	3365.44	3346.24	3346.19	27.25	27.50	19.6	0.25	3366.21	3338.96	3338.71
5/17/21	19.20	19.25	16	0.05	3365.44	3346.24	3346.19	25.99	26.14	19.6	0.15	3366.21	3340.22	3340.07
6/3/21	17.03	17.08	16	0.05	3365.44	3348.41	3348.36	22.18	22.27	19.6	0.09	3366.21	3344.03	3343.94
6/14/21	0.00	18.10	16	0.00	3365.44	--	3347.34	22.18	22.27	19.6	0.09	3366.21	3344.03	3343.94
7/7/21	0.00	13.90	16	0.00	3365.44	--	3351.54	20.00	20.12	19.6	0.12	3366.21	3346.21	3346.09
7/12/21	0.00	15.45	16	0.00	3365.44	--	3349.99	21.87	22.00	19.6	0.13	3366.21	3344.34	3344.21
7/26/21	0.00	14.95	16	0.00	3365.44	--	3350.49	0.00	21.67	19.6	0.00	3366.21	--	3344.54
8/2/21	16.30	16.32	16	0.02	3365.44	3349.14	3349.12	21.85	21.95	19.6	0.10	3366.21	3344.36	3344.26
8/9/21	13.92	13.95	16	0.03	3365.44	3351.52	3351.49	19.90	19.91	19.6	0.01	3366.21	3346.31	3346.30
8/24/21	0.00	20.45	16	0.00	3365.44	--	3344.99	0.00	23.20	19.6	0.00	3366.21	--	3343.01
8/30/21	0.00	20.35	16	0.00	3365.44	--	3345.09	0.00	23.20	19.6	0.00	3366.21	--	3343.01
9/7/21	19.05	19.10	16	0.05	3365.44	3346.39	3346.34	15.52	15.55	19.6	0.03	3366.21	3350.69	3350.66
9/16/21	18.99	19.00	16	0.01	3365.44	3346.45	3346.44	0.00	13.25	19.6	0.00	3366.21	--	3352.96
9/28/21	0.00	20.70	16	0.00	3365.44	--	3344.74	0.00	13.25	19.6	0.00	3366.21	--	3352.96
10/18/21	0.00	19.80	16	0.00	3365.44	--	3345.64	13.83	13.84	19.6	0.01	3366.21	3352.38	3352.37
11/8/21	0.00	19.50	16	0.00	3365.44	--	3345.94	19.19	19.20	19.6	0.01	3366.21	3347.02	3347.01
11/15/21	0.00	20.35	16	0.00	3365.44	--	3345.09	20.20	20.22	19.6	0.02	3366.21	3346.01	3345.99
11/22/21	0.00	19.30	16	0.00	3365.44	--	3346.14	21.03	21.06	19.6	0.03	3366.21	3345.18	3345.15
11/30/21	0.00	19.30	16	0.00	3365.44	--	3346.14	21.80	21.85	19.6	0.05	3366.21	3344.41	3344.36
12/14/21	0.00	19.25	16	0.00	3365.44	--	3346.19	22.75	22.80	19.6	0.05	3366.21	3343.46	3343.41

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 419191

CONDITIONS

Operator: HF Sinclair Navajo Refining LLC ATTN: GENERAL COUNSEL Dallas, TX 75201	OGRID: 15694
	Action Number: 419191
	Action Type: [UF-DP] Discharge Permit (DISCHARGE PERMIT)

CONDITIONS

Created By	Condition	Condition Date
joel.stone	None	2/7/2025