Appendix B, Table B.1 - Summary of Groundwater Analytical Data - Total Petroleum Hydrocarbons

2023 Annual Groundwater Monitoring Report
HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

Area	Well ID	Date	Dup	Analyte Group: TPH		
				Analyte: GRO	DRO	DRO - EP
				CAS: TPH-GRO	TPH-DRO	TPH-DRO
				Units: mg/L	mg/L	mg/L
				CGWSL: 0.0101	0.0858	0.0167
				CGWSL Source: NMED TPH		
Cross-Gradient	KWB-13	Jun-20			0.0396 J	
	KWB-13	Apr-21			0.0527 J	
	KWB-13	Apr-22			<0.0247	
	KWB-13	Mar-23			0.0486 JB	
	MW-136	Apr-21		**<0.0314**	**0.110**	
	MW-136	Sep-21		**<0.0314**	0.0432 J	
	MW-136	Apr-22		**<0.0314**	0.0485 J	
	MW-136	Oct-22		**0.0314 J**	**0.124**	
	MW-136	Mar-23		**0.0334 JB**	**0.181 B**	
	MW-136	Oct-23		**<0.0314**	<0.0247	
	MW-149	Oct-23			**0.0999 J**	
	MW-150	Oct-23			**0.0971 J**	
	NP-5	Apr-17			<0.0247	
	NP-5	Apr-19			<0.0247	
	NP-5	Apr-21			0.0663 J	
	NP-5	Mar-23			**0.207 B**	
	RA-3156	Apr-19				
	RA-3156	Jun-20				
	RA-3156	Apr-21				
	RA-3156	Apr-22				
Evaporation Ponds	MW-1R	Jun-20				**<0.0247**
	MW-1R	Apr-21				**0.124**
	MW-1R	Apr-22				**0.0957 J**
	MW-1R	Mar-23				**0.0483 J**
	MW-2A	Apr-21		**<0.0314**		**1.25**
	MW-2A	Sep-21		**0.0423 J**		**0.181**
	MW-2A	Apr-22		**0.0387 JB**		**0.0837 JB**
	MW-2A	Oct-22		**<0.0314**		**0.151**
	MW-2A	Mar-23		**0.115 B**		**8.94**
	MW-2A	Oct-23		**<0.0314**		**0.112 B**
	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-3	Apr-22		**0.446**		**6.46**
	MW-3	Apr-22	FD	**<0.157**		**6.38**
	MW-3	Oct-22		**0.394 B**		**8.39**
	MW-3	Oct-22	FD	**0.398**		**8.21**
	MW-3	Mar-23		**1.00 JB**		**5.02**
	MW-3	Mar-23	FD	**1.30 JB**		**4.95**
	MW-3	Oct-23		**0.302**		**6.85**
	MW-3	Oct-23	FD	**0.401**		**7.24**
	MW-4A	Apr-21		**0.620**		**5.71**
	MW-4A	Sep-21		**0.291**		**4.50**
	MW-4A	Apr-22		**0.605**		**5.86**
	MW-4A	Oct-22		**0.507 Q**		**6.46**
	MW-4A	Mar-23		**1.58 JB**		**5.62**
	MW-4A	Oct-23		**0.726 J**		**5.80**
	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-4B	Mar-23		**0.159 B**		**1.66**
	MW-5A	Apr-21		**2.56**		**7.21**
	MW-5A	Sep-21		**1.31**		**3.76**
	MW-5A	Apr-22		**1.75**		**5.82**
	MW-5A	Oct-22		**0.887**		**1.92**
	MW-5A	Mar-23		**1.60**		**0.145 B**
	MW-5A	Oct-23		**1.34**		**5.28**
	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-5B	Mar-23		**1.67**		**1.13**
	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-5C	Mar-23		**0.109 B**		**0.281**
	MW-6A	Jun-20		**0.192**		**4.86**
	MW-6A	Apr-21		**0.356 B**		**6.04**
	MW-6A	Apr-22		**0.421**		**8.03**
	MW-6A	Mar-23		**0.599 B**		**0.167 B**
	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-6B	Mar-23		**0.0964 JB**		**0.301 B**
	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-7A	Apr-22		**0.263**		**0.870**
	MW-7A	Apr-22	FD	**0.254**		**0.873**
	MW-7A	Oct-22		**0.285**		**0.842**
	MW-7A	Oct-22	FD	**0.280**		**1.39**
	MW-7A	Mar-23		**0.325 B**		**0.702**
	MW-7A	Mar-23	FD	**0.242**		**0.734**
	MW-7A	Oct-23		**0.279**		**0.904**
	MW-7A	Oct-23	FD	**0.299**		**0.735**
	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-7B	Mar-23		**0.0911 JB**		**<0.0247**
	MW-10	Apr-21		**0.712**		**2.00**
	MW-10	Sep-21		**0.849**		**1.81**
	MW-10	Apr-22		**0.426**		**1.67**
	MW-10	Oct-22		**1.11**		**1.73**
	MW-10	Mar-23		**1.43 JB**		**1.27**
	MW-10	Oct-23		**0.342**		**1.88**
	MW-11A	Apr-21		**<0.0314**		**0.0459 J**
	MW-11A	Sep-21				
	MW-11A	Apr-22		**<0.0314**		**0.0464 J**
	MW-11A	Oct-22				
	MW-11A	Mar-23		**<0.0314**		**0.108**
	MW-11A	Oct-23				
	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-11B	Mar-23		**<0.0314**		**0.0926 J**
	MW-15	Jun-20		**<0.0314**		**<0.0247**
	MW-15	Apr-21		**0.0455 J**		**0.358**
	MW-15	Apr-22		**0.0437 J**		**0.719**
	MW-15	Mar-23		**<0.0314**		**0.377**

Area	Well ID	Date	Dup	Analyte Group: TPH		
				Analyte: GRO	DRO	DRO - EP
				CAS: TPH-GRO	TPH-DRO	TPH-DRO
				Units: mg/L	mg/L	mg/L
				CGWSL: 0.0101	0.0858	0.0167
				CGWSL Source: NMED TPH		
	MW-18A	Apr-21				**0.518**
	MW-18A	Sep-21				**0.491**
	MW-18A	Apr-22				**0.495**
	MW-18A	Oct-22				**0.417**
	MW-18A	Mar-23				**0.331**
	MW-18A	Oct-23				**0.382**
	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-18B	Mar-23		**<0.0314**		**0.310**
	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-22A	Apr-22		**0.955**		**3.11**
	MW-22A	Apr-22	FD	**0.989**		**3.11**
	MW-22A	Oct-22		**0.824**		**1.36**
	MW-22A	Oct-22	FD	**0.750 Q**		**0.839**
	MW-22A	Mar-23		**2.45 B**		**1.50**
	MW-22A	Mar-23	FD	**3.11 B**		**1.42**
	MW-22A	Oct-23		**2.11**		**4.34**
	MW-22A	Oct-23	FD	**2.13**		**3.99**
	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-22B	Mar-23		**2.97 B**		**4.57**
	MW-70	Apr-21		**1.57**		**1.05**
	MW-70	Sep-21		**1.81**		**0.860**
	MW-70	Apr-22		**1.18**		**1.10**
	MW-70	Oct-22		**2.10**		**1.04**
	MW-70	Mar-23		**1.54**		**0.816**
	MW-70	Oct-23		**2.47**		**0.857**
	MW-72	Jun-20		**0.0544 J**		**0.303**
	MW-72	Apr-21		**0.0371 JB**		**0.362**
	MW-72	Apr-22		**0.0505 JB**		**0.281 B**
	MW-72	Mar-23		**0.149 B**		**0.110 B**
	MW-73	Jun-20		**0.408**		**2.86**
	MW-73	Apr-21		**0.426**		**3.48**
	MW-73	Apr-22		**0.363 B**		**2.17**
	MW-73	Mar-23		**1.39 JB**		**2.39**
	MW-74	Apr-21		**1.47**		**15.9**
	MW-74	Sep-21		**3.56**		**8.38**
	MW-74	Apr-22		**1.66**		**17.4**
	MW-74	Oct-22		**2.16**		**15.6**
	MW-74	Mar-23		**0.603**		**13.4**
	MW-74	Oct-23		**2.13**		**9.63**
	MW-75	Apr-21		**2.15**		**13.8**
	MW-75	Sep-21		**2.89**		**13.3**
	MW-75	Apr-22		**1.07**		**14.6**
	MW-75	Oct-22		**3.34**		**18.8**
	MW-75	Mar-23		**2.39 B**		**12.9**
	MW-75	Oct-23		**3.31**		**13.7**
	MW-76	Apr-21		**0.902**		**12.2**
	MW-76	Sep-21		**0.790 J**		**11.1**
	MW-76	Apr-22		**0.890**		**8.17**
	MW-76	Oct-22		**0.537**		**7.14**
	MW-76	Mar-23		**1.69 JB**		**7.16**
	MW-76	Oct-23		**0.663**		**8.79**
	MW-77	Jun-20		**2.88 J**		**53.1**
	MW-77	Apr-21		**0.649**		**68.5**
	MW-77	Apr-22		**0.193**		**69.0**
	MW-77	Mar-23		**1.73 JB**		**40.9**
	MW-78	Jun-20		**<1.57**		**38.5**
	MW-78	Apr-21		**0.0950 J**		**385**
	MW-78	Apr-22		**<0.157**		**32.5**
	MW-78	Mar-23		**<0.628**		**29.1**
	MW-79	Apr-21		**<0.0314**		**0.331 B**
	MW-79	Sep-21		**0.0338 J**		**0.255**
	MW-79	Apr-22		**0.0515 JB**		**0.351**
	MW-79	Oct-22		**<0.0314**		**0.333**
	MW-79	Mar-23		**0.0550 JB**		**0.177**
	MW-79	Oct-23		**<0.0314**		**0.415**
	MW-80	Jun-20		**<0.0314**		**<0.0247**
	MW-80	Apr-21		**<0.0314**		**0.254 B**
	MW-80	Apr-22		**0.0418 JB**		**0.0947 JB**
	MW-80	Mar-23		**0.0461 JB**		**0.0890 J**
	MW-81	Jun-20		**0.0978 J**		**0.269**
	MW-81	Apr-21		**<0.0314**		**0.866 B**
	MW-81	Apr-22		**0.0517 JB**		**0.596**
	MW-81	Mar-23		**0.0464 JB**		**0.606**
	MW-82	Jun-20		**0.689**		**2.58**
	MW-82	Apr-21		**0.216**		**1.75**
	MW-82	Apr-22		**0.257 B**		**3.71**
	MW-82	Mar-23		**0.211 B**		**3.95**
	MW-83	Apr-21		**0.904**		**7.60**
	MW-83	Sep-21		**0.288**		**23.0**
	MW-83	Apr-22		**0.312**		**13.7**
	MW-83	Oct-22		**0.149**		**16.6**
	MW-83	Mar-23		**0.683 JB**		**13.2**
	MW-83	Oct-23		**0.447**		**12.9**
	MW-84	Apr-21		**0.537**		**62.9**
	MW-84	Sep-21		**1.37**		**74.6**
	MW-84	Apr-22		**0.279**		**79.4**
	MW-84	Oct-22		**0.855**		**42.2**
	MW-84	Mar-23		**1.07 JB**		**70.5**
	MW-84	Oct-23		**1.05**		**66.8**
	MW-86	Jun-20		**1.77 J**		**93.9**
	MW-86	Oct-20		**<6.28**		**80.2**
	MW-87	Apr-21		**<0.0314**		**0.371**
	MW-87	Sep-21		**<0.0314**		**0.386**
	MW-87	Apr-22		**<0.0314**		**0.386**
	MW-87	Oct-22		**<0.0314**		**0.282**
	MW-87	Mar-23		**<0.0314**		**0.363**
	MW-87	Oct-23		**0.0389 J**		**0.328**
	MW-88	Apr-21		**0.0750 JB**		**0.410**
	MW-88	Sep-21		**0.0602 J**		**0.421**
	MW-88	Apr-22		**<0.0314**		**0.458**
	MW-88	Oct-22		**0.0489 J**		**0.460**
	MW-88	Mar-23		**0.115 B**		**0.421**
	MW-88	Oct-23		**0.109**		**0.292 Q**

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Appendix B, Table B.1 - Summary of Groundwater Analytical Data - Total Petroleum Hydrocarbons

2023 Annual Groundwater Monitoring Report
HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	TPH		
				Analyte	GRO	DRO	DRO - EP
				CAS	TPH-GRO	TPH-DRO	TPH-DRO
				Units	mg/L	mg/L	mg/L
				CGWSL	0.0101	0.0858	0.0167
				CGWSL Source	NMED TPH		
Area	Well ID	Date	Dup				
Evaporation Ponds	MW-120	Apr-21		0.0797 J		0.614 B	
	MW-120	Sep-21		0.0867 J		0.346	
	MW-120	Apr-22		0.0765 JB		0.240	
	MW-120	Oct-22		0.0449 J		0.640	
	MW-120	Mar-23		0.106 B		0.274 B	
	MW-120	Oct-23		<0.0314		0.353	
	MW-121	Apr-21		<0.0314		0.368 B	
	MW-121	Sep-21		<0.0314		0.212	
	MW-121	Apr-22		<0.0314		0.115	
	MW-121	Oct-22		<0.0314		0.245	
	MW-121	Mar-23		0.0790 JB		0.706	
	MW-121	Oct-23		<0.0314		0.182	
	MW-122	Apr-21		<0.0314		0.0845 J	
	MW-122	Sep-21		<0.0314		0.0810 J	
	MW-122	Apr-22		0.0541 JB		0.202 B	
	MW-122	Oct-22		<0.0314		0.165	
	MW-122	Mar-23		0.0871 JB		0.282 B	
	MW-122	Oct-23		<0.0314		0.0858 J	
	MW-123	Apr-21		1.24		2.51	
	MW-123	Sep-21		0.989		2.35	
	MW-123	Apr-22		0.956		2.14	
	MW-123	Oct-22		0.793		2.09	
	MW-123	Mar-23		0.858		1.82	
	MW-123	Oct-23		0.536		1.60	
	MW-124	Apr-21		<0.0314		0.0508 J	
	MW-124	Sep-21		<0.0314		0.0518 J	
	MW-124	Apr-22		<0.0314		0.0566 J	
	MW-124	Oct-22		<0.0314		0.0283 J	
	MW-124	Mar-23		<0.0314		0.0813 J	
	MW-124	Oct-23		<0.0314		<0.0247	
	OCD-1R	Apr-21		<0.0314		0.174	
	OCD-1R	Sep-21		<0.0314		0.184	
	OCD-1R	Apr-22		0.0387 JB		0.176	
	OCD-1R	Oct-22		<0.0314		0.227	
	OCD-1R	Mar-23		0.0680 JB		0.283	
	OCD-1R	Oct-23		0.0441 J		<0.0247	
	OCD-2A	Apr-21		<0.0314		0.0839 J	
	OCD-2A	Sep-21		<0.0314		0.0849 J	
	OCD-2A	Apr-22		0.0328 JB		0.0656 J	
	OCD-2A	Oct-22		<0.0314		0.0796 J	
	OCD-2A	Mar-23		0.0579 JB		0.166	
	OCD-2A	Oct-23		<0.0314		<0.0247	
	OCD-3	Apr-21		<0.0314		0.0580 J	
	OCD-3	Sep-21		<0.0314		0.0529 J	
	OCD-3	Apr-22		<0.0314		0.0720 J	
	OCD-3	Oct-22		<0.0314		<0.0247	
	OCD-3	Mar-23		<0.0314		0.126	
	OCD-3	Oct-23		<0.0314		<0.0247	
	OCD-4	Apr-21		<0.0314		0.0556 J	
	OCD-4	Sep-21		<0.0314		0.0605 J	
	OCD-4	Apr-22		<0.0314		0.0558 J	
	OCD-4	Oct-22		<0.0314		<0.0247	
	OCD-4	Mar-23		<0.0314		0.113	
	OCD-4	Oct-23		<0.0314		<0.0247	
	OCD-5	Apr-21		0.337		0.467	
	OCD-5	Sep-21		0.845		1.08	
	OCD-5	Apr-22		0.428		0.954	
	OCD-5	Oct-22		0.794		1.03	
	OCD-5	Mar-23		<0.628		0.988	
	OCD-5	Oct-23		0.535		0.625	
	OCD-6	Apr-21		0.186 B		0.666	
	OCD-6	Sep-21		0.361		0.677	
	OCD-6	Apr-22		0.256 B		0.686	
	OCD-6	Oct-22		0.230		0.744	
	OCD-6	Mar-23		0.294 B		0.0767 JB	
	OCD-6	Oct-23		0.350		0.788	
	OCD-7AR	Apr-21		1.38		4.76	
	OCD-7AR	Sep-21		1.72		4.00	
	OCD-7AR	Apr-22		1.43		3.79	
	OCD-7AR	Oct-22		1.24		4.06	
	OCD-7AR	Mar-23		1.16 B		0.137 B	
	OCD-7AR	Oct-23		1.56 J		3.08	
	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-7B	Mar-23		0.119 B		5.46	
	OCD-8A	Apr-21		1.04		2.86	
	OCD-8A	Sep-21		0.373		1.57	
	OCD-8A	Apr-22		0.524		1.75	
	OCD-8A	Oct-22		0.255 B		0.816	
	OCD-8A	Mar-23		0.274		1.33	
	OCD-8A	Oct-23		1.40		2.60	
	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	
	OCD-8B	Mar-23		<0.0314		0.581	
Field East of Refinery	KWB-1A	Oct-20			0.0960 JB		
	KWB-1A	Oct-22			0.182		
	KWB-1A	Mar-23			0.356 B		
	KWB-1A	Oct-23			0.109		
	KWB-1C	Apr-17			0.140		
	KWB-1C	Apr-19			0.0921 J		
	KWB-1C	Apr-21			0.0847 J		
	KWB-1C	Mar-23			0.143 B		
	KWB-7	Apr-21			1.94		
	KWB-7	Sep-21			1.37		
	KWB-7	Apr-22			1.07		
	KWB-7	Oct-22			2.14		
	KWB-7	Mar-23			1.27		
	KWB-7	Oct-23			0.605		
	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		

				Analyte Group	TPH		
				Analyte	GRO	DRO	DRO - EP
				CAS	TPH-GRO	TPH-DRO	TPH-DRO
				Units	mg/L	mg/L	mg/L
				CGWSL	0.0101	0.0858	0.0167
				CGWSL Source	NMED TPH		
Area	Well ID	Date	Dup				
Field East of Refinery	KWB-11A	Sep-21		0.994	1.35		
	KWB-11A	Oct-22		0.153	0.341		
	KWB-11A	Mar-23		0.335 B	1.70		
	KWB-11A	Oct-23		0.0683 J	<0.0247		
	KWB-11B	Apr-21		<0.0314	0.0356 J		
	KWB-11B	Sep-21		<0.0314	0.0363 J		
	KWB-11B	Apr-22		<0.0314	0.0827 J		
	KWB-11B	Oct-22		<0.0314	0.0733 J		
	KWB-11B	Mar-23		<0.0314	0.109 B		
	KWB-11B	Oct-23		<0.0314	<0.0247		
	KWB-12A	Oct-20		0.0364 J	<0.0247		
	KWB-12A	Sep-21		<0.0314	<0.0247		
	KWB-12A	Oct-22		<0.0314	0.0451 J		
	KWB-12A	Oct-23		<0.0314	<0.0247		
	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-12B	Apr-22		<0.0314	<0.0247		
	KWB-12B	Apr-22	FD	<0.0314	<0.0247		
	KWB-12B	Oct-22		<0.0314	<0.0247		
	KWB-12B	Oct-22	FD	<0.0314	<0.0247		
	KWB-12B	Mar-23		<0.0314	0.0702 JB		
	KWB-12B	Mar-23	FD	<0.0314	0.129 B		
	KWB-12B	Oct-23		<0.0314	<0.0247		
	KWB-12B	Oct-23	FD	<0.0314	<0.0247		
	KWB-P4	Apr-17			0.0526 J		
	KWB-P4	Apr-19			0.0361 J		
	KWB-P4	Apr-21			0.0330 J		
	KWB-P4	Mar-23			0.0962 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-57	Apr-22		<0.0314	0.0636 J		
	MW-58	Oct-17			9.77		
	MW-58	Apr-18			5.73		
	MW-58	Oct-18			4.86		
	MW-58	Oct-19			12.1		
	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-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-113	Apr-22		1.30	0.328		
	MW-113	Apr-22	FD	1.24	0.334		
	MW-113	Oct-22		22.1	4.82		
	MW-113	Oct-22	FD	24.1	3.86		
	MW-113	Mar-23		1.92	0.612		
	MW-113	Mar-23	FD	1.85	0.729		
	MW-113	Oct-23		25.1	3.81		
	MW-113	Oct-23	FD	24.5	3.88		
	MW-125	Apr-21		<0.0314	0.0654 J		
	MW-125	Sep-21		0.0493 J	0.0250 J		
	MW-125	Apr-22		<0.0314	0.122		
	MW-125	Oct-22		<0.0314	0.0624 J		
	MW-125	Mar-23		<0.0314	0.135 B		
	MW-125	Oct-23		<0.0314	0.0847 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-21		<0.0314	0.250		
	MW-126B	Sep-21		<0.0314	0.181		
	MW-126B	Apr-22		<0.0314	0.214		
	MW-126B	Oct-22		0.0325 JB	0.338		
	MW-126B	Mar-23		<0.0314	0.528 B		
	MW-126B	Oct-23		<0.0314	0.173		
	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-15		3.29	2.45		
	MW-129	Oct-15		4.11 J	1.31		
	MW-129	Apr-17		1.79	2.13		
	MW-129	Apr-18		4.33	1.40		
	MW-130	Apr-21		<0.0314	0.586		
	MW-130	Sep-21		0.0326 J	0.387		
	MW-130	Apr-22		0.0341 JB	0.653		
	MW-130	Oct-22		<0.0314	0.657		
	MW-130	Mar-23		0.0775 JB	0.564		
	MW-130	Oct-23		<0.0314	0.713		
	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		
	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-134	Apr-22		<0.0314	0.0989 J		
	MW-134	Apr-22	FD	<0.0314	0.104		
	MW-134	Oct-22		<0.0314	0.108		
	MW-134	Oct-22	FD	<0.0314	0.117		
	MW-134	Mar-23		<0.0314	0.132 B		
	MW-134	Mar-23	FD	<0.0314	0.137 B		
	MW-134	Oct-23		0.0370 J	<0.0247		
	MW-134	Oct-23	FD	<0.0314	<0.0247		

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Appendix B, Table B.1 - Summary of Groundwater Analytical Data - Total Petroleum Hydrocarbons

2023 Annual Groundwater Monitoring Report
HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	TPH		
				Analyte	GRO	DRO	DRO - EP
				CAS	TPH-GRO	TPH-DRO	TPH-DRO
				Units	mg/L	mg/L	mg/L
				CGWSL	0.0101	0.0858	0.0167
				CGWSL Source	NMED TPH		
Area	Well ID	Date	Dup				
Field East of Refinery	MW-135	Apr-21		**<0.0314**	0.0720 J		
	MW-135	Sep-21		**<0.0314**	<0.0247		
	MW-135	Apr-22		**<0.0314**	<0.0247		
	MW-135	Oct-22		**<0.0314**	0.0437 J		
	MW-135	Mar-23		**0.0336 JB**	0.0386 JB		
	MW-135	Oct-23		**<0.0314**	<0.0247		
	MW-145	Apr-21		**<0.0314**	**0.288**		
	MW-145	Sep-21		**<0.0314**	**0.302**		
	MW-145	Apr-22		**<0.0314**	**0.133**		
	MW-145	Oct-22		**<0.0314**	**0.225**		
	MW-145	Mar-23		**0.0334 JB**	**0.274 B**		
	MW-145	Oct-23		**<0.0314**	**0.403**		
	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-146	Apr-22		**<0.0314**	<0.0247		
	MW-146	Apr-22	FD	**<0.0314**	**0.0918 J**		
	MW-146	Oct-22		**<0.0314**	0.0433 J		
	MW-146	Oct-22	FD	**<0.0314**	0.0341 J		
	MW-146	Mar-23		**0.0328 JB**	0.0756 JB		
	MW-146	Mar-23	FD	**0.0321 JB**	0.0456 JB		
	MW-146	Oct-23		**<0.0314**	0.0247 J		
	MW-146	Oct-23	FD	**<0.0314**	<0.0247		
	MW-147	Apr-21		**<0.0314**	<0.0247		
	MW-147	Sep-21		**<0.0314**	**0.0884 J**		
	MW-147	Apr-22		**<0.0314**	<0.0247		
	MW-147	Oct-22		**<0.0314**	0.0355 J		
	MW-147	Mar-23		**0.0317 JB**	0.0446 JB		
	MW-147	Oct-23		**<0.0314**	<0.0247		
	MW-148	Apr-21		**<0.0314**	**0.102**		
	MW-148	Sep-21		**<0.0314**	**0.212**		
	MW-148	Apr-22		**<0.0314**	<0.0247		
	MW-148	Oct-22		**<0.0314**	0.0760 J		
	MW-148	Mar-23		**<0.0314**	0.0846 JB		
	MW-148	Oct-23		**<0.0314**	0.0397 J		
	RA-4196	Jun-20					
	RA-4196	Oct-20					
	RA-4196R	Mar-23					
	RA-4196R	Oct-23					
	RA-4798	Oct-20					
	RA-4798	Apr-21					
	RA-4798	Sep-21					
	RA-4798	Apr-22					
	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-18			**0.526 B**		
	RW-13R	Mar-23			**4.45**		
	RW-18A	Apr-18					
	RW-18A	Apr-19					
	RW-18A	Jun-20					
	RW-18A	Mar-23					
	RW-20	Apr-15			**2.10**		
	RW-22	Apr-15			**5.40**		
NCL	MW-18	Jun-20			**0.812**		
	MW-18	Apr-21			**1.59**		
	MW-18	Apr-22			**1.54**		
	MW-18	Mar-23			**1.18**		
	MW-45	Apr-21			**0.967**		
	MW-45	Sep-21			**1.98**		
	MW-45	Apr-22			**1.37**		
	MW-45	Oct-22			**1.20**		
	MW-45	Mar-23			**1.11**		
	MW-45	Oct-23			**0.807**		
	MW-53	Apr-15			**0.296**		
	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-53R	Apr-22			**0.136**		
	MW-53R	Mar-23			**0.179 B**		
	MW-54A	Apr-21			**3.49**		
	MW-54A	Sep-21			**3.89**		
	MW-54A	Apr-22			**3.72**		
	MW-54A	Oct-22			**5.32**		
	MW-54A	Mar-23			**2.57**		
	MW-54A	Oct-23			**3.18**		
	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-54B	Mar-23		**<0.0314**	**1.09**		
	MW-55	Apr-21		**0.412**	**1.81**		
	MW-55	Sep-21		**0.187**	**1.41**		
	MW-55	Apr-22		**0.190**	**1.48**		
	MW-55	Oct-22		**0.0658 J**	**0.661**		
	MW-55	Mar-23		**0.479**	**1.05**		
	MW-55	Oct-23		**0.386**	**0.866**		
	MW-56	Jun-20			**0.110**		
	MW-56	Apr-21			**0.175**		
	MW-56	Apr-22			**0.197**		
	MW-56	Mar-23			**0.102**		
	MW-108	Apr-21			**4.44**		
	MW-108	Sep-21			**2.90**		
	MW-108	Apr-22			**2.83**		
	MW-108	Oct-22			**3.10**		
	MW-108	Mar-23			**2.39**		
	MW-108	Oct-23			**1.67**		
	NCL-31	Apr-21			**0.974**		
	NCL-31	Sep-21			**0.720**		
	NCL-31	Apr-22			**0.469**		
	NCL-31	Oct-22			**0.457**		
	NCL-31	Mar-23			**0.337 B**		
	NCL-31	Oct-23			**0.299**		
	NCL-32	Apr-21			**0.984**		
	NCL-32	Sep-21			**1.56**		
	NCL-32	Apr-22			**0.962**		
	NCL-32	Oct-22			**3.46**		
	NCL-32	Mar-23			**2.58**		
	NCL-32	Oct-23			**10.2**		

				Analyte Group	TPH		
				Analyte	GRO	DRO	DRO - EP
				CAS	TPH-GRO	TPH-DRO	TPH-DRO
				Units	mg/L	mg/L	mg/L
				CGWSL	0.0101	0.0858	0.0167
				CGWSL Source	NMED TPH		
Area	Well ID	Date	Dup				
NCL	NCL-33	Apr-21			**17.3**		
	NCL-33	Sep-21			**10.2**		
	NCL-33	Apr-22			**12.6**		
	NCL-33	Oct-22			**13.0**		
	NCL-33	Mar-23			**8.82**		
	NCL-33	Oct-23			**8.48**		
	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-21			**5.52**		
	NCL-44	Sep-21			**3.77**		
	NCL-44	Apr-22			**3.70**		
	NCL-44	Oct-22			**3.07**		
	NCL-44	Mar-23			**3.39**		
	NCL-44	Oct-23			**4.30**		
	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**		
	NCL-49	Apr-22			0.0474 J		
	NCL-49	Apr-22	FD		0.0337 J		
	NCL-49	Oct-22			0.0734 J		
	NCL-49	Oct-22	FD		0.0464 J		
	NCL-49	Mar-23			0.0256 J		
	NCL-49	Mar-23	FD		<0.0247		
	NCL-49	Oct-23			<0.0247		
	NCL-49	Oct-23	FD		<0.0247		
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-21		**0.113**	**3.66**		
	MW-29	Sep-21		**0.0560 J**	**8.12**		
	MW-29	Apr-22		**<0.0314**	**4.53**		
	MW-29	Oct-22		**0.0889 J**	**4.28**		
	MW-29	Mar-23		**0.108**	**3.96**		
	MW-29	Oct-23		**0.335**	**4.17**		
	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-19		**0.822**	**5.48**		
	MW-42	Jun-20		**1.26 J**	**4.95**		
	MW-42	Apr-21		**0.433**	**4.92**		
	MW-42	Apr-22		**0.323**	**3.00**		
	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	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-21		**10.4**	**4.79**		
	MW-61	Sep-21		**11.2**	**6.38**		
	MW-61	Apr-22		**9.90**	**5.57**		
	MW-61	Oct-22		**9.03**	**4.44**		
	MW-61	Mar-23		**7.36**	**3.77**		
	MW-61	Oct-23		**9.33**	**4.63**		
	MW-62	Oct-20		**7.35**	**7.46**		
	MW-62	Sep-21		**21.8**	**11.3**		
	MW-62	Apr-22		**14.9**	**7.53**		
	MW-62	Oct-22		**11.5**	**7.71**		
	MW-62R	Apr-21		**2.40**	**9.88**		
	MW-62R	Apr-22		**9.56**	**9.22**		
	MW-62R	Mar-23		**15.1**	**5.95**		
	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-21		**0.477**	**4.25**		
	MW-90	Sep-21		**0.384**	**3.31**		
	MW-90	Apr-22		**0.399**	**3.92**		
	MW-90	Oct-22		**0.396**	**4.23**		
	MW-90	Mar-23		**0.299**	**3.04**		
	MW-90	Oct-23		**0.278**	**3.36**		
	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-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	Nov-14		**5.50**	**9.40**		
	MW-94	Oct-15		**6.12**	**25.6**		
	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	Sep-21		**14.5**	**8.33**		
	MW-96	Apr-22		**13.8**	**7.75**		
	MW-96	Oct-22		**24.9**	**8.20**		
	MW-96	Mar-23		**34.7**	**4.59**		
	MW-96	Oct-23		**27.6**	**6.69**		

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Appendix B, Table B.1 - Summary of Groundwater Analytical Data - Total Petroleum Hydrocarbons

2023 Annual Groundwater Monitoring Report
HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

Area	Well ID	Date	Dup	Analyte Group: TPH		
				Analyte: GRO	DRO	DRO - EP
				CAS: TPH-GRO	TPH-DRO	TPH-DRO
				Units: mg/L	mg/L	mg/L
				CGWSL: 0.0101	0.0858	0.0167
				CGWSL Source: NMED TPH		
North Refinery	MW-98	Apr-21		**14.4**	**4.89**	
	MW-98	Sep-21		**14.1**	**6.01**	
	MW-98	Apr-22		**16.5**	**5.19**	
	MW-98	Oct-22		**7.46**	**5.13**	
	MW-98	Mar-23		**20.4**	**4.50**	
	MW-98	Oct-23		**11.8**	**5.30**	
	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-1	Apr-15		**2.95 J**	**12.0**	
	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-2	Apr-17		**17.2**	**11.6**	
	RW-2	Apr-18		**20.5**	**8.31**	
	RW-2	Mar-23		**5.56 B**	**5.76**	
	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	Jun-20		**0.821**	**4.02**	
	RW-9	Apr-21		**0.903**	**3.37**	
	RW-9	Apr-22		**1.16**	**3.63**	
	RW-9	Mar-23		**0.921**	**5.19**	
	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-18			**0.350**	
	RW-16B	Apr-19			**0.744**	
	RW-16B	Jun-20			**2.12**	
	RW-16B	Mar-23			**1.43**	
	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**	
	RW-17A	Mar-23		**<0.0314**	**1.59**	
North RO Field	MW-117	Apr-21		**<0.0314**	**0.211**	
	MW-117	Sep-21		**0.0573 J**	**0.146**	
	MW-117	Apr-22		**<0.0314**	**0.247**	
	MW-117	Oct-22		**<0.0314**	**0.248**	
	MW-117	Mar-23		**0.0572 JB**	**0.359 B**	
	MW-117	Oct-23		**0.0607 JB**	**0.325**	
	MW-118	Apr-21		**<0.0314**	0.0499 J	
	MW-118	Sep-21		**<0.0314**	<0.0247	
	MW-118	Apr-22		**<0.0314**	<0.0247	
	MW-118	Oct-22		**<0.0314**	<0.0247	
	MW-118	Mar-23		**0.0319 JB**	0.0763 JB	
	MW-118	Oct-23		**<0.0314**	0.0313 J	
	MW-119	Apr-21		**<0.0314**	**0.135**	
	MW-119	Sep-21		**<0.0314**	0.0272 J	
	MW-119	Apr-22		**<0.0314**	<0.0247	
	MW-119	Oct-22		**<0.0314**	0.0534 J	
	MW-119	Mar-23		**<0.0314**	**0.0922 JB**	
	MW-119	Oct-23		**<0.0314**	**0.106**	
North RO Field	MW-140	Mar-23				
	MW-140	Oct-23				
	MW-141	Mar-23				
	MW-141	Oct-23				
	MW-142	Mar-23				
	MW-142	Oct-23				
	MW-143	Mar-23				
	MW-143	Oct-23				
South Refinery	KWB-2R	Apr-19			**0.887**	
	KWB-2R	Oct-19			**4.64**	
	KWB-2R	Mar-23			**6.39**	
	KWB-2R	Oct-23			**1.65**	
	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-21			**0.396**	
	MW-50	Sep-21			**0.437**	
	MW-50	Apr-22			**0.506**	
	MW-50	Oct-22			**0.373**	
	MW-50	Mar-23			**0.265**	
	MW-50	Oct-23			**0.320**	
	MW-52	Apr-21		**<0.0314**	**0.270**	
	MW-52	Sep-21		**<0.0314**	**0.432**	
	MW-52	Apr-22		**<0.0314**	**0.332**	
	MW-52	Oct-22		**<0.0314**	**0.328**	
	MW-52	Mar-23		**<0.0314**	**0.614**	
	MW-52	Oct-23		**0.0739 J**	**0.589**	
	MW-64	Apr-21		**100**	**6.54**	
	MW-64	Sep-21		**98.2**	**7.63**	
	MW-64	Apr-22		**110**	**5.63**	
	MW-64	Oct-22		**88.0**	**6.84**	
	MW-64	Mar-23		**139**	**5.90**	
	MW-64	Oct-23		**108**	**7.08**	

Area	Well ID	Date	Dup	Analyte Group: TPH		
				Analyte: GRO	DRO	DRO - EP
				CAS: TPH-GRO	TPH-DRO	TPH-DRO
				Units: mg/L	mg/L	mg/L
				CGWSL: 0.0101	0.0858	0.0167
				CGWSL Source: NMED TPH		
South Refinery	MW-65	Apr-19		**16.9**	**4.86**	
	MW-65	Oct-19		**21.4 B**	**3.59**	
	MW-65	Mar-23		**3.90**	**15.7**	
	MW-65	Oct-23		**3.40**	**3.23**	
	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-21		**2.91**	**4.65**	
	MW-101	Sep-21		**2.07**	**6.14**	
	MW-101	Apr-22		**1.08**	**6.81**	
	MW-101	Oct-22		**2.54**	**6.12**	
	MW-101	Mar-23		**13.1**	**9.58**	
	MW-101	Oct-23		**0.565**	**3.36**	
	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-102	Apr-22		**43.0**	**6.24**	
	MW-102	Apr-22	FD	**41.3**	**8.66**	
	MW-102	Oct-22		**44.6**	**4.12**	
	MW-102	Oct-22	FD	**41.4**	**4.66**	
	MW-102	Mar-23		**51.6**	**4.96**	
	MW-102	Mar-23	FD	**46.3**	**5.22**	
	MW-102	Oct-23		**38.3**	**3.49**	
	MW-102	Oct-23	FD	**47.6**	**3.94**	
	MW-103	Jun-20		**5.15**	**6.08**	
	MW-103	Apr-21		**4.84**	**6.58**	
	MW-103	Apr-22		**5.10**	**5.37**	
	MW-103	Mar-23		**5.56**	**4.00**	
	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-104	Apr-22		**0.813**	**0.888**	
	MW-104	Oct-22		**0.999**	**1.12**	
	MW-104	Mar-23		**0.740**	**0.855**	
	MW-104	Oct-23		**0.654**	**1.39**	
	MW-105	Apr-21		**20.2**	**12.8**	
	MW-105	Apr-22		**16.4**	**14.6**	
	MW-105	Oct-22		**5.46**	**2.36**	
	MW-105	Mar-23		**12.8**	**8.45**	
	MW-105	Oct-23		**4.27**	**1.27**	
	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-106	Oct-23		**4.37**	**1.50**	
	MW-107	Oct-15		**14.9 J**	**4.72**	
	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-21		**2.44**	**1.57**	
	MW-109	Sep-21		**5.69 J3**	**6.03**	
	MW-109	Apr-22		**3.31**	**2.47**	
	MW-109	Oct-22		**3.03**	**2.43**	
	MW-109	Mar-23		**3.72**	**2.06**	
	MW-109	Oct-23		**5.34**	**2.48**	
South Refinery	MW-110	Apr-21		**0.639**	**0.999**	
	MW-110	Sep-21		**0.616**	**1.49**	
	MW-110	Apr-22		**1.89**	**1.91**	
	MW-110	Oct-22		**0.554**	**1.06**	
	MW-110	Mar-23		**0.534**	**1.41**	
	MW-110	Oct-23		**0.419**	**0.862**	
	MW-139	Apr-21		**0.383**	**1.67**	
	MW-139	Sep-21		**0.635**	**1.91**	
	MW-139	Apr-22		**0.313**	**0.880**	
	MW-139	Oct-22		**0.311**	**1.39**	
	MW-139	Mar-23		**0.224**	**0.792**	
	MW-139	Oct-23		**0.344**	**0.962**	
	RA-313	Jun-20				
	RA-313	Apr-21				
	RA-313	Apr-22				
	RA-313	Mar-23				
	RW-4	Apr-19			**2.53**	
	RW-4	Jun-20			**1.63**	
	RW-4	Apr-22			**1.42**	
	RW-4	Mar-23			**1.41**	
	RW-5R	Apr-15			**6.42**	
	RW-6R	Apr-16			**4.20**	
	RW-6	Apr-18			**3.04**	
	RW-6	Apr-19			**3.23**	
	RW-6	Mar-23			**7.34**	
	RW-15C	Apr-17			**9.74**	
	RW-15C	Apr-18			**9.27**	
	RW-15C	Apr-19			**11.7**	
South RO Field	MW-114	Apr-21		**<0.0314**	**0.736**	
	MW-114	Sep-21		**0.0655 J**	**0.502**	
	MW-114	Apr-22		**<0.0314**	**0.756**	
	MW-114	Oct-22		**0.0652 J**	**1.85**	
	MW-114	Mar-23		**<0.0314**	**0.335 B**	
	MW-114	Oct-23		**0.0417 JB**	**0.773**	
	MW-115	Apr-21		**<0.0314**	**0.313**	
	MW-115	Sep-21		**<0.0314**	**0.173**	
	MW-115	Apr-22		**0.0420 J**	**0.460**	
	MW-115	Oct-22		**<0.0314**	**0.621**	
	MW-115	Mar-23		**<0.628**	**0.760**	
	MW-115	Oct-23		**0.0609 JB**	**0.811**	
	MW-116	Apr-21		**<0.0314**	**0.231**	
	MW-116	Sep-21		**<0.0314**	**0.214**	
	MW-116	Apr-22		**<0.0314**	0.0610 J	
	MW-116	Oct-22		**<0.0314**	**0.219**	
	MW-116	Mar-23		**<0.0314**	**0.161**	
	MW-144	Mar-23				
	MW-144	Oct-23				

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Appendix B, Table B.1 - Summary of Groundwater Analytical Data - Total Petroleum Hydrocarbons

2023 Annual Groundwater Monitoring Report
HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

Area	Well ID	Date	Dup	Analyte Group: TPH Analyte: GRO	Analyte: DRO	Analyte: DRO - EP
				CAS: TPH-GRO	TPH-DRO	TPH-DRO
				Units: mg/L	mg/L	mg/L
				CGWSL: 0.0101	0.0858	0.0167
				CGWSL Source: NMED TPH		
TEL	MW-49	Apr-21		**2.56**	**6.65**	
	MW-49	Sep-21		**2.57**	**6.81**	
	MW-49	Apr-22		**4.35**	**6.29**	
	MW-49	Oct-22		**2.84**	**4.55**	
	MW-49	Mar-23		**4.68**	**4.60**	
	MW-49	Oct-23		**6.54**	**5.90**	
	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-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**	
	TEL-4	Apr-22		**0.540**	**2.74**	
	TEL-4	Apr-22	FD	**0.292**	**3.82**	
	TEL-4	Oct-22		**0.479**	**3.45**	
	TEL-4	Oct-22	FD	**0.512**	**4.52**	
	TEL-4	Mar-23		**0.964 J**	**3.83**	
	TEL-4	Mar-23	FD	**0.883 J**	**7.46**	
	TEL-4	Oct-23		**0.472**	**2.88**	
	TEL-4	Oct-23	FD	**0.563**	**3.20**	
Three Mile Ditch	MW-8	Jun-20		**0.300**	0.0458 J	
	MW-8	Apr-21		**0.107**	**0.0902 J**	
	MW-8	Apr-22		**0.0546 J**	**0.155**	
	MW-8	Mar-23		**0.246**	**0.190 B**	
	MW-16	Jun-20			**0.120**	
	MW-16	Apr-21			**0.138**	
	MW-16	Apr-22			0.0724 J	
	MW-16	Mar-23			**0.221**	
	MW-20	Jun-20			<0.0247	
	MW-20	Apr-21			**0.141**	
	MW-20	Apr-22			**0.0979 J**	
	MW-20	Mar-23			**0.130 B**	
	MW-21	Apr-21		**0.0899 J**	**0.354**	
	MW-21	Sep-21		**0.100 J**	**0.174**	
	MW-21	Apr-22		**<0.0314**	**0.305**	
	MW-21	Oct-22		**0.180**	0.0743 J	
	MW-21	Mar-23		**0.0551 J**	**0.320 B**	
	MW-21	Oct-23		**0.340**	<0.0247	
	MW-25	Jun-20			<0.0247	
	MW-25	Apr-21			0.0537 J	
	MW-25	Apr-22			**0.233**	
	MW-25	Mar-23			**0.223**	
	MW-26	Jun-20			0.0276 J	
	MW-26	Apr-21			0.0537 J	
	MW-26	Apr-22			<0.0247	
	MW-26	Mar-23			**0.200 B**	
Three Mile Ditch	MW-27	Jun-20			<0.0247	
	MW-27	Apr-21			0.0659 J	
	MW-27	Apr-22			**0.0950 J**	
	MW-27	Mar-23			0.0433 J	
	MW-46R	Apr-21			**0.217**	
	MW-46R	Sep-21			**0.209**	
	MW-46R	Apr-22			0.0424 J	
	MW-46R	Oct-22			**0.157**	
	MW-46R	Mar-23			0.0420 J	
	MW-46R	Oct-23			<0.0247	
	MW-68	Jun-20			0.0250 J	
	MW-68	Apr-21			**0.0962 J**	
	MW-68	Apr-22			**0.0940 J**	
	MW-68	Mar-23			0.0533 J	
	MW-71	Jun-20			0.0323 J	
	MW-71	Apr-21			**0.0936 J**	
	MW-71	Apr-22			**0.0860 J**	
	MW-71	Mar-23			**0.107 B**	
	MW-89	Jun-20			**0.218**	
	MW-89	Apr-21			**0.175**	
	MW-89	Apr-22			**0.248**	
	MW-89	Mar-23			**0.139**	

Area	Well ID	Date	Dup	Analyte Group: TPH Analyte: GRO	Analyte: DRO	Analyte: DRO - EP
				CAS: TPH-GRO	TPH-DRO	TPH-DRO
				Units: mg/L	mg/L	mg/L
				CGWSL: 0.0101	0.0858	0.0167
				CGWSL Source: NMED TPH		
Three Mile Ditch	NP-1	Apr-21				
	NP-1	Sep-21				
	NP-1	Apr-22				
	NP-1	Oct-22				
	NP-1	Mar-23				
	NP-1	Oct-23				
	NP-6	Apr-17				
	NP-6	Apr-19				
	NP-6	Apr-21				
	NP-6	Mar-23				
Upgradient	UG-1	Jun-20		**<0.0314**	<0.0247	
	UG-1	Apr-21		**<0.0314**	0.0579 J	
	UG-1	Apr-22		**<0.0314**	<0.0247	
	UG-1	Mar-23		**0.0326 JB**	<0.0247	
	UG-2	Jun-20		**<0.0314**	<0.0247	
	UG-2	Apr-21		**<0.0314**	0.0316 J	
	UG-2	Apr-22		**<0.0314**	<0.0247	
	UG-2	Mar-23		**<0.0314**	<0.0247	
	UG-3R	Jun-20		**0.0421 J**	0.0478 J	
	UG-3R	Apr-21		**<0.0314**	**0.0931 J**	
	UG-3R	Apr-22		**<0.0314**	0.0857 J	
	UG-3R	Mar-23		**<0.0314**	0.0306 JB	
	UG-4	Jun-20		**<0.0314**	<0.0247	
	UG-4	Apr-21		**<0.0314**	0.0643 J	
	UG-4	Apr-22		**<0.0314**	<0.0247	
	UG-4	Mar-23		**<0.0314**	0.0826 JB	

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)
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, November 2022, 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.

Note - Irrigation well RA-4196R was installed in June 2022 to replace both irrigation wells RA-4196 and RA-4798 which were plugged and abandoned in April 2023.

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Appendix B, Table B.2 - Summary of Groundwater Analytical Data - Total Metals

2023 Annual Groundwater Monitoring Report
HF Sinclair 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	WQCClrr	WQCClrr	WQCC HH	WQCC HH	WQCC Dom	WQCC HH	WQCC Dom	WQCC HH	WQCClrr	WQCC HH	WQCC HH	NMED TW
Area	**Well ID**	**Date**	**Dup**															
Cross-Gradient	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
	KWB-13	Apr-22		0.00263	0.0198	0.308	<0.000150	0.000227 J	0.00217	0.933	0.000921 J	0.0195	<0.000100	<0.000816	0.0109	0.0223	0.0210
	KWB-13	Mar-23		0.00364	0.0195	0.316	0.000163 J	0.000512 J	0.00295	**1.14**	0.00257	0.0466	<0.000100	0.00184 J	0.00982	0.0222	0.0244
	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
	MW-136	Apr-22		0.00250	0.0118	0.486	<0.000150	0.000959 J	0.00402	0.112	<0.000849	0.0166	<0.000100	<0.000816	0.00657	**0.0380**	0.0156
	MW-136	Oct-22		0.00262	0.0111	0.505	<0.000150	0.000968 J	<0.00124	0.0480 J	<0.000849	0.0184	<0.000100	0.00280	0.00649	**0.0368**	0.0155
	MW-136	Mar-23		0.00255	0.0108	0.523	<0.000150	0.000673 J	<0.00124	0.0294 J	<0.000849	0.00709	<0.000100	0.00223	0.00655	**0.0347**	0.0148
	MW-136	Oct-23		0.00243	0.0102	0.538	<0.000150	0.000626 J	<0.00124	<0.0281	<0.000849	0.00636	<0.000100	0.00192 J	0.00689	**0.0325**	0.0143
	MW-149	Oct-23		0.00230	0.0212				0.00227	0.340	<0.000849	0.0174			0.0172		
	MW-150	Oct-23		0.00186 J	0.0154				0.00137 J	0.290	0.00137 J	0.0649			0.00201		
	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		
	NP-5	Mar-23		0.00376	0.00974				<0.00124	0.108	<0.000849	0.00577			0.00777		
	RA-3156	Apr-19															
	RA-3156	Jun-20															
	RA-3156	Apr-21															
	RA-3156	Apr-22															
Evaporation Ponds	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-1R	Apr-22		0.00220	0.0203				<0.00124	**2.95**	<0.000849	**1.26**			<0.000300		
	MW-1R	Mar-23		0.00133 J	0.0184				0.00146 JB	**1.62**	<0.000849	**1.12**			<0.000300		
	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-2A	Apr-22		0.00698	0.0228				0.00163 J	0.185	<0.000849	**0.579**			0.00412		
	MW-2A	Oct-22		**0.0145 J**	0.0295				<0.0124	**1.76**	<0.00849	**0.777**			0.00356 J		
	MW-2A	Mar-23		0.00664	0.0191				<0.00124	**1.29**	<0.000849	**0.557**			0.00490		
	MW-2A	Oct-23		0.00772	0.0347				**0.280**	**1.81**	0.00100 J	**2.17**			0.00275		
	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-3	Apr-22		**0.0505**	0.0151				<0.00124	0.552	<0.000849	**1.96**			0.00370		
	MW-3	Apr-22	FD	**0.0497**	0.0122				<0.00124	0.569	<0.000849	**1.91**			0.00398		
	MW-3	Oct-22		**0.0286**	0.0138				<0.00620	0.191 J	<0.00424	**0.860**			0.0112		
	MW-3	Oct-22	FD	**0.0282**	0.0146				0.0135	0.235 J	<0.00424	**0.856**			0.0108		
	MW-3	Mar-23		**0.0257**	0.0128				<0.00124	0.0422 J	<0.000849	**0.886**			0.0340		
	MW-3	Mar-23	FD	**0.0265**	0.0128				<0.00124	0.0433 J	<0.000849	**0.893**			0.0356		
	MW-3	Oct-23		**0.0378**	0.0157				0.00318	0.291	<0.000849	**1.47**			0.00902		
	MW-3	Oct-23	FD	**0.0360**	0.0154				0.00284	0.236	<0.000849	**1.44**			0.00878		
	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-4A	Apr-22		**0.108**	0.0111				<0.00124	**2.06**	<0.000849	**1.64**			0.000494 J		
	MW-4A	Oct-22		**0.0601**	0.0126				<0.00620	**1.43**	<0.00424	**1.71**			<0.00150		
	MW-4A	Mar-23		**0.138**	0.0114				<0.00124	**2.30**	<0.000849	**1.71**			0.00151 J		
	MW-4A	Oct-23		**0.100**	0.0131				<0.00124	**1.60**	<0.000849	**1.80**			0.000616 J		
	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-4B	Mar-23		**0.0332**	0.0195				<0.00124	**4.39**	<0.000849	**3.30**			<0.000300		
	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-5A	Apr-22		**0.153**	0.0128				<0.00124	**4.54**	<0.000849	**1.03**			0.000863 J		
	MW-5A	Oct-22		**0.0712**	0.0112 J				<0.0124	**4.13**	<0.00849	**1.63**			<0.00300		
	MW-5A	Mar-23		**0.0925**	0.0120				<0.00124	**4.86**	<0.000849	**1.28**			0.000551 J		
	MW-5A	Oct-23		**0.212**	0.0162				<0.00124	**6.43**	<0.000849	**0.855**			0.000984 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-5B	Mar-23		**0.145**	0.0101				<0.00124	**4.41**	<0.000849	**2.75**			0.00141 J		
	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-5C	Mar-23		0.00949	0.0138				<0.00124	0.677	<0.000849	**0.938**			<0.000300		
	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-6A	Apr-22		0.00483	0.0137				<0.00124	0.585	<0.000849	**0.266**			0.000475 J		
	MW-6A	Mar-23		0.00591	0.0131				<0.00124	0.914	<0.000849	**0.643**			0.00134 J		
	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-6B	Mar-23		**0.0367**	0.0149				<0.00124	**1.59**	<0.000849	**2.57**			<0.000300		
	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-7A	Apr-22		**0.0149**	0.0162				0.00180 J	**2.38**	<0.000849	**0.428**			<0.000300		
	MW-7A	Apr-22	FD	**0.0159**	0.0182				0.00414	**2.59**	0.000952 J	**0.444**			0.000360 J		
	MW-7A	Oct-22		**0.0121 J**	0.0178 J				<0.0124	0.864 J	<0.00849	**0.549**			<0.00300		
	MW-7A	Oct-22	FD	**0.0123 J**	0.0182 J				<0.0124	0.884 J	<0.00849	**0.528**			<0.00300		
	MW-7A	Mar-23		**0.0160**	0.0153				<0.00124	**2.73**	<0.000849	**0.373**			0.000338 J		
	MW-7A	Mar-23	FD	**0.0257**	0.0153				<0.00124	**5.93**	<0.000849	**0.393**			0.000828 J		
	MW-7A	Oct-23		**0.0162**	0.0164				<0.00124	**2.30**	<0.000849	**0.451**			<0.000300		
	MW-7A	Oct-23	FD	**0.0159**	0.0167				<0.00124	**2.23**	<0.000849	**0.443**			<0.000300		
	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-7B	Mar-23		0.00441	0.0106				<0.00124	0.150	<0.000849	**0.584**			<0.000300		
	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-10	Apr-22		**0.0429**	0.0176				0.00209	**5.85**	0.00189 J	**2.41**			<0.000300		
	MW-10	Oct-22		**0.0204**	0.0219				<0.0124	**1.17**	<0.00849	**2.27**			<0.00300		
	MW-10	Mar-23		**0.0145**	0.0141				<0.00124	0.338	<0.000849	**1.93**			0.000864 J		
	MW-10	Oct-23		**0.0124**	0.0125				<0.00124	0.204	<0.000849	**2.51**			<0.000300		
	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-11A	Apr-22		0.000586 J	0.0240				0.0183	**1.36**	<0.000849	**0.201**			<0.000300		
	MW-11A	Oct-22															
	MW-11A	Mar-23		<0.00180	0.0244				<0.0124	**1.12**	<0.00849	0.123			<0.00300		
	MW-11A	Oct-23															

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Appendix B, Table B.2 - Summary of Groundwater Analytical Data - Total Metals

2023 Annual Groundwater Monitoring Report
HF Sinclair 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	WQCClrr	WQCClrr	WQCC HH	WQCC HH	WQCC Dom	WQCC HH	WQCC Dom	WQCC HH	WQCClrr	WQCC HH	WQCC HH	NMED TW
Area	**Well ID**	**Date**	**Dup**															
Evaporation Ponds	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		
	MW-11B	Mar-23			0.00352 J	0.0155 J				<0.0124	**3.82**	<0.00849	**0.362**			<0.00300		
	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-15	Apr-22			**0.0249**	0.0149				<0.00124	<0.0281	<0.000849	0.0627			0.000468 J		
	MW-15	Mar-23			**0.0246**	0.0162				<0.00124	0.0656 J	<0.000849	0.0453			0.000963 J		
	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-18A	Apr-22			0.00572	0.0169	**1.87**	<0.000150	0.00446	0.00154 J	0.864	<0.000849	**0.477**	<0.000100	0.0115	0.000709 J	0.0247	0.00196 JB
	MW-18A	Oct-22			0.00472 J	0.0175 J	**2.04**	<0.00150	<0.000596	<0.0124	0.623 J	<0.00849	**1.54**	<0.000100	0.00820 J	<0.00300	0.0222	<0.00664
	MW-18A	Mar-23			0.00461	0.0160	**1.96**	<0.000150	0.000424 J	0.00135 JB	0.0362 J	<0.000849	0.0594	<0.000100	0.00995	0.000796 J	0.0244	<0.000664
	MW-18A	Oct-23			0.00410 J	0.0185	**2.36**	<0.000750	0.000405 J	<0.00620	0.500 JB	<0.00424	**1.34**	<0.000100	0.00907 J	<0.00150	0.0224	<0.00332
	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-18B	Mar-23			0.00844	0.0114				<0.00124	0.0449 J	<0.000849	**1.02**			<0.000300		
	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-22A	Apr-22			**0.0274**	0.0156				<0.00124	0.268	<0.000849	**0.670**			0.00292		
	MW-22A	Apr-22	FD		**0.0264**	0.0136				<0.00124	0.254	<0.000849	**0.657**			0.00304		
	MW-22A	Oct-22			**0.0334**	0.0256				<0.0124	<0.281	<0.00849	**0.311**			0.0274		
	MW-22A	Oct-22	FD		**0.0331**	0.0227				<0.0124	<0.281	<0.00849	**0.326**			0.0319		
	MW-22A	Mar-23			**0.0328**	0.0170				0.00843	0.0686 J	<0.000849	0.116			0.0247		
	MW-22A	Mar-23	FD		**0.0326**	0.0169				0.00760	0.0615 J	<0.000849	0.106			0.0254		
	MW-22A	Oct-23			**0.0240**	0.0160				<0.00124	0.283	<0.000849	**5.87**			0.00153 J		
	MW-22A	Oct-23	FD		**0.0233**	0.0156				<0.00124	0.284	<0.000849	**5.77**			0.00138 J		
	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-22B	Mar-23			**0.0273**	0.0126				<0.00124	**1.75**	<0.000849	**4.88**			0.00143 J		
	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-70	Apr-22			**0.0148**	0.0127				<0.00124	**1.05**	<0.000849	0.189			<0.000300		
	MW-70	Oct-22			**0.0196**	0.0167				0.00158 J	**7.56**	<0.000849	**0.317**			<0.000300		
	MW-70	Mar-23			**0.0169**	0.0139				0.00155 JB	**3.19**	<0.000849	0.157			0.000306 J		
	MW-70	Oct-23			**0.0208**	0.0169				<0.00124	**8.51**	<0.000849	**0.385**			0.000476 J		
	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-72	Apr-22			0.00435	0.0112				0.00134 J	0.313	<0.000849	**0.493**			0.00171 J		
	MW-72	Mar-23			0.00428	0.00985				0.00125 J	0.286	<0.000849	**0.536**			0.00221		
	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-73	Apr-22			**0.0424**	0.00967				0.00158 J	**2.35**	<0.000849	**0.597**			0.00114 J		
	MW-73	Mar-23			**0.0408**	0.00870				<0.00124	0.930	<0.000849	**0.269**			0.00158 J		
	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-74	Apr-22			**0.107**	0.0145				0.00295	0.121	<0.000849	**2.13**			0.0137		
	MW-74	Oct-22			**0.107**	0.0163 J				<0.0124	0.468 J	<0.00849	**2.13**			0.0111 J		
	MW-74	Mar-23			**0.0917**	0.0141				<0.00124	0.0308 J	<0.000849	**2.04**			0.0122		
	MW-74	Oct-23			**0.115**	0.0147				0.00157 J	0.999	<0.000849	**2.24**			0.00773		
	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-75	Apr-22			**0.106**	0.0168				0.00172 J	0.409	<0.000849	**1.11**			0.00218		
	MW-75	Oct-22			**0.277**	0.0124 J				<0.0124	**4.89**	<0.00849	**1.10**			<0.00300		
	MW-75	Mar-23			**0.102**	0.0146				0.00162 J	0.252	<0.000849	**1.25**			0.00293		
	MW-75	Oct-23			**0.298**	0.0146				0.00181 J	**5.04**	<0.000849	**1.07**			0.00236		
	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-76	Apr-22			**0.0287**	0.0128				<0.00124	**2.54**	<0.000849	**0.719**			0.00149 J		
	MW-76	Oct-22			**0.0273**	0.0159				<0.00124	**3.05**	<0.000849	**0.879**			0.00270		
	MW-76	Mar-23			**0.0225**	0.0126				<0.00124	**2.95**	<0.000849	**0.721**			0.00174 J		
	MW-76	Oct-23			**0.0226**	0.0149				0.00126 J	**2.71**	<0.000849	**0.754**			0.00144 J		
	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-77	Apr-22			**0.0196**	0.0158				0.0438	0.610	<0.000849	**0.506**			0.0131		
	MW-77	Mar-23			**0.0261**	0.0157				0.0296	**1.37**	<0.000849	**0.576**			0.0128		
	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-78	Apr-22			0.00692	0.0549				**0.147**	0.120	<0.000849	**0.236**			0.00963		
	MW-78	Mar-23			0.00747	0.0441				**0.109**	0.0969 J	<0.000849	0.180			0.0103		
	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-79	Apr-22			0.00473	0.0141				**0.0709** J6O1	0.357	<0.000849	**0.393** O1V			0.000925 J		
	MW-79	Oct-22			0.00278 J	0.0130				<0.00620	<0.140	<0.00424	**2.23**			<0.00150		
	MW-79	Mar-23			0.00377	0.0142				<0.00124	0.0453 J	<0.000849	**0.240**			0.00135 J		
	MW-79	Oct-23			0.00483	0.0161				<0.00124	0.0935 J	<0.000849	**0.891**			0.0145		
	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-80	Apr-22			0.00820	0.0139				0.00365	**2.51**	<0.000849	**0.447**			0.000860 J		
	MW-80	Mar-23			0.00225	0.0133				<0.00124	0.0854 J	<0.000849	0.0841			0.000687 J		
	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-81	Apr-22			0.00621	0.0141				<0.00124	0.0450 J	<0.000849	0.0213			0.0120		
	MW-81	Mar-23			0.00648	0.0151				0.00532	0.0847 J	<0.000849	0.115			0.0113		
	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-82	Apr-22			**0.0235**	0.0257				<0.00124	0.235	<0.000849	**2.55**			0.00103 J		
	MW-82	Mar-23			**0.0225**	0.0239				0.00228	0.269	<0.000849	**2.84**			0.00115 J		
	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-83	Apr-22			**0.0440**	0.0299				0.00546	0.586	0.00103 J	**0.469**			0.00577		
	MW-83	Oct-22			**0.0379**	0.0219				0.00419	**6.02**	<0.000849	**0.482**			0.0105		
	MW-83	Mar-23			**0.0503**	0.0205				0.00601	0.423	0.00120 J	**0.426**			0.0107		
	MW-83	Oct-23			**0.0466**	0.0208				0.00443	**4.25**	<0.000849	**0.516**			0.00924		
	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-84	Apr-22			**0.110**	0.0135				0.00551	**1.93**	<0.000849	**2.81**			0.00766		
	MW-84	Oct-22			**0.184**	0.0123				<0.00620	**11.6**	<0.00424	**2.68**			0.00870 J		
	MW-84	Mar-23			**0.112**	0.0132				0.00648	**1.45**	<0.000849	**2.69**			0.00836		
	MW-84	Oct-23			**0.157**	0.0125				0.00525	**9.11**	<0.000849	**2.69**			0.00630		

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Appendix B, Table B.2 - Summary of Groundwater Analytical Data - Total Metals

2023 Annual Groundwater Monitoring Report
HF Sinclair 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	WQCClrr	WQCClrr	WQCC HH	WQCC HH	WQCC Dom	WQCC HH	WQCC Dom	WQCC HH	WQCClrr	WQCC HH	WQCC HH	NMED TW
Area	**Well ID**	**Date**	**Dup**															
Evaporation Ponds	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
	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-87	Apr-22		0.00467	0.0139				0.00209	0.181	<0.000849	0.0806			0.000323 J		
	MW-87	Oct-22		0.00536 J	0.0162 J				<0.0124	<0.281	<0.00849	**1.37**			<0.00300		
	MW-87	Mar-23		0.00439	0.0137				<0.00124	<0.0281	<0.000849	0.0301			<0.000300		
	MW-87	Oct-23		0.00499 J	0.0169				<0.00620	0.162 JB	<0.00424	**0.726**			<0.00150		
	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-88	Apr-22		0.00732	0.0116				<0.00124	0.0285 J	<0.000849	**0.937**			<0.000300		
	MW-88	Oct-22		0.00715 J	0.0110				<0.00620	<0.140	<0.00424	**0.750**			<0.00150		
	MW-88	Mar-23		0.00915	0.0103				<0.00124	0.0806 J	<0.000849	**1.06**			0.000710 J		
	MW-88	Oct-23		0.00839 J	0.0120				<0.00620	<0.140	<0.00424	**0.935**			<0.00150		
	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-120	Apr-22		0.00541	0.0106				<0.00124	**4.34**	<0.000849	**1.27**			0.00110 J		
	MW-120	Oct-22		0.00257 J	0.0124 J				<0.0124	**4.24**	<0.00849	**1.41** V			<0.00300		
	MW-120	Mar-23		0.00317	0.0112				<0.00124	**2.87**	<0.000849	**1.11**			0.0140		
	MW-120	Oct-23		0.00414	0.0121				<0.00124	**11.6**	<0.000849	**1.28**			0.00569		
	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-121	Apr-22		**0.0461**	0.0121				<0.00124	0.552	<0.000849	**1.70**			0.00509		
	MW-121	Oct-22		**0.0566**	0.0146				<0.00124	0.823	<0.000849	**2.00**			0.00898		
	MW-121	Mar-23		**0.0283**	0.0116				<0.00124	0.224	<0.000849	**1.65**			0.00629		
	MW-121	Oct-23		**0.0343**	0.0124				<0.00124	0.260	<0.000849	**1.55**			0.00685		
	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-122	Apr-22		0.00179 J	0.0204				0.00182 J	**1.18**	<0.000849	**0.451**			<0.000300		
	MW-122	Oct-22		0.00387	0.0224				<0.00124	**4.51**	<0.000849	**1.11**			<0.000300		
	MW-122	Mar-23		0.00319	0.0315				<0.00124	**2.43**	<0.000849	**1.21**			<0.000300		
	MW-122	Oct-23		0.00414	0.0244				<0.00124	**6.51**	<0.000849	**1.28**			<0.000300		
	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-123	Apr-22		**0.0182**	0.0379				<0.00124	0.0518 J	<0.000849	**3.47**			<0.000300		
	MW-123	Oct-22		**0.0194** JO1	0.0317				<0.0124	<0.281	<0.00849	**3.28** V			<0.00300		
	MW-123	Mar-23		**0.0178**	0.0300				<0.00124	<0.0281	<0.000849	**3.27**			0.000738 J		
	MW-123	Oct-23		**0.0169**	0.0290				<0.00124	0.0377 J	<0.000849	**3.45**			<0.000300		
	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		
	MW-124	Apr-22		0.00150 J	0.0185				<0.00124	**3.33**	<0.000849	**0.671**			<0.000300		
	MW-124	Oct-22		<0.00180	0.0193 J				<0.0124	**4.75**	<0.00849	**0.540**			<0.00300		
	MW-124	Mar-23		0.00111 J	0.0153				<0.00124	**1.61**	<0.000849	**0.321**			<0.000300		
	MW-124	Oct-23		0.00154 J	0.0163				<0.00620	**5.06**	<0.00424	**0.435**			<0.00150		
	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-1R	Apr-22		0.00235	0.0181				0.00532	0.224	<0.000849	**0.205**			0.000402 J		
	OCD-1R	Oct-22		**0.0307**	0.0388				<0.0124	**14.7**	<0.00849	**5.93**			<0.00300		
	OCD-1R	Mar-23		**0.0224**	0.0231				<0.00124	**8.74**	<0.000849	**2.79**			0.00115 J		
	OCD-1R	Oct-23		**0.0249**	0.0306				<0.00124	**9.76**	<0.000849	**3.16**			<0.000300		
	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-2A	Apr-22		0.00129 J	0.0208				0.00128 J	0.752	<0.000849	**0.414**			<0.000300		
	OCD-2A	Oct-22		0.00184 J	0.0220				<0.00620	**3.59**	<0.00424	**1.21**			<0.00150		
	OCD-2A	Mar-23		0.00171 J	0.0227				<0.00124	**1.31**	<0.000849	**0.676**			0.00110 J		
	OCD-2A	Oct-23		0.00252	0.0267				<0.00124	**5.26**	<0.000849	**1.42**			0.000428 J		
	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-3	Apr-22		0.000875 J	0.0174				0.00147 J	0.0805 J	<0.000849	0.110			<0.000300		
	OCD-3	Oct-22		0.000856 J	0.0231				<0.00124	0.211	<0.000849	**0.311**			0.000643 J		
	OCD-3	Mar-23		0.000930 J	0.0212				<0.00124	0.161	<0.000849	**0.226**			0.000551 J		
	OCD-3	Oct-23		0.00162 J	0.0248				**0.656**	**3.29**	<0.000849	**0.968**			<0.000300		
	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-4	Apr-22		0.00216	0.0212				0.00249	**1.41**	<0.000849	0.0678			<0.000300		
	OCD-4	Oct-22		0.00653 J	0.0217				<0.0124	**4.91**	<0.00849	**0.350**			<0.00300		
	OCD-4	Mar-23		0.00279	0.0216				<0.00124	**1.75**	<0.000849	0.0540			0.000637 J		
	OCD-4	Oct-23		0.00659	0.0244				<0.00124	**6.16**	<0.000849	**0.453**			<0.000300		
	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-5	Apr-22		**0.0149**	0.0237				0.00180 J	**13.5**	<0.000849	0.171			<0.000300		
	OCD-5	Oct-22		**0.0159** J	0.0270 O1				<0.0124	**12.2**	<0.00849	**0.436**			<0.00300		
	OCD-5	Mar-23		**0.0105** J	0.0236				<0.0124	**7.22**	<0.00849	0.158			<0.00300		
	OCD-5	Oct-23		**0.0253**	0.0284				<0.00124	**27.7**	<0.000849	**0.392**			<0.000300		
	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-6	Apr-22		0.00637	0.0219				<0.00124	0.543	<0.000849	**2.06**			0.00122 J		
	OCD-6	Oct-22		0.00876	0.0241				<0.00124	**3.32**	<0.000849	**1.82** V			0.000730 J		
	OCD-6	Mar-23		0.00659	0.0225				<0.00124	**1.52**	<0.000849	**1.91**			0.000944 J		
	OCD-6	Oct-23		0.00978	0.0268				<0.00124	**6.44**	<0.000849	**2.39**			0.000737 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-7AR	Apr-22		**0.0953**	0.0142				0.00201	**11.8**	<0.000849	**2.76**			0.00126 J		
	OCD-7AR	Oct-22		**0.0927**	0.0171				<0.00124	**11.9**	<0.000849	**3.27**			0.00145 J		
	OCD-7AR	Mar-23		**0.0478**	0.0133				<0.00124	**3.45**	<0.000849	**2.43**			0.00140 J		
	OCD-7AR	Oct-23		**0.103**	0.0152				<0.00124	**11.2**	<0.000849	**2.86** V			0.00120 J		
	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-7B	Mar-23		0.00226	0.0152				<0.00124	**3.95**	<0.000849	**0.655**			<0.000300		
	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-8A	Apr-22		**0.0436**	0.0163	**1.02**	<0.000150	0.00277	<0.00124	**2.49**	<0.000849	**2.23**	<0.000100	0.0322	0.00108 J	0.00485	0.00224 JB
	OCD-8A	Oct-22		**0.0333**	0.0269	**1.25**	<0.00150	0.00329 J	<0.0124	**1.13**	<0.00849	**3.16**	<0.000100	0.0199 J	<0.00300	0.00686 J	<0.00664
	OCD-8A	Mar-23		**0.0272**	0.0153	**0.957**	<0.000150	0.00140 J	<0.00124	**1.17**	<0.000849	**1.06**	<0.000100	0.0312	0.00136 J	0.00551	<0.000664
	OCD-8A	Oct-23		**0.0644**	0.0166	**1.02**	<0.000750	0.00143 J	<0.00620	**3.60**	<0.00424	**2.61**	<0.000100	0.0209	<0.00150	0.00302 J	<0.00332
	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		
	OCD-8B	Mar-23		0.00916	0.0117				<0.00124	0.143	<0.000849	**6.52**			<0.000300		

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Appendix B, Table B.2 - Summary of Groundwater Analytical Data - Total Metals

2023 Annual Groundwater Monitoring Report
HF Sinclair 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	WQCClrr	WQCClrr	WQCC HH	WQCC HH	WQCC Dom	WQCC HH	WQCC Dom	WQCC HH	WQCClrr	WQCC HH	WQCC HH	NMED TW
Area	Well ID	Date	Dup															
Field East of Refinery	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-1A	Oct-22		0.00361	0.00822	0.700	<0.000150	0.00658	<0.00124	0.0287 J	<0.000849	**0.430**	<0.000100	0.00788	<0.000300	0.0106	0.0203
	KWB-1A	Mar-23		0.00344	0.00974	0.745	<0.000150	0.00605	<0.00124	0.295	0.00331	**0.401**	<0.000100	0.00799	<0.000300	0.0102	0.0174
	KWB-1A	Oct-23		0.00332	0.00888	0.723	<0.000150	0.00590	<0.00124	0.0754 J	<0.000849	**0.376**	<0.000100	0.00718	<0.000300	0.00862	0.0173
	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		
	KWB-1C	Mar-23		0.00366	0.00902				<0.00124	<0.0281	<0.000849	**0.426**			<0.000300		
	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-7	Apr-22		0.00198 J	0.0642	0.449	<0.000150	0.00121 J	<0.00124	**1.43**	0.00124 J	**1.42**	<0.000100	0.00374	<0.000300	0.000367 J	0.00362 JB
	KWB-7	Oct-22		0.000673 J	0.0583	0.441	<0.000150	0.000173 J	<0.00124	0.243	<0.000849	**2.31**	<0.000100	0.000968 J	<0.000300	0.000476 J	0.00288 J
	KWB-7	Mar-23		0.000379 J	0.0665	0.470	<0.000150	0.0000869 J	<0.00124	0.0649 J	<0.000849	**1.78**	<0.000100	<0.000816	<0.000300	0.000428 J	0.00173 J
	KWB-7	Oct-23		0.000292 J	0.0449	0.425	<0.000150	0.0000963 J	0.00221	0.105	<0.000849	**2.35**	<0.000100	0.00160 J	<0.000300	0.000433 J	0.000824 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	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-11A	Oct-22		0.00238	0.0219	0.360	<0.000150	0.000703 J	<0.00124	0.732	<0.000849	**0.336**	<0.000100	0.00270	<0.000300	0.0142	0.00792
	KWB-11A	Mar-23		0.00575	0.0301	0.374	<0.000150	0.000244 J	<0.00124	**8.12**	<0.000849	**0.910**	<0.000100	0.00119 J	<0.000300	0.00558	0.00285 J
	KWB-11A	Oct-23		0.00224	0.0168	0.363	<0.000150	0.000694 J	<0.00124	0.390	<0.000849	**0.314**	<0.000100	0.00326	<0.000300	0.0136	0.00942
	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-11B	Apr-22		0.000340 J	0.0119	0.0973 J	<0.000150	<0.0000596	<0.00124	0.0306 J	<0.000849	0.000734 J	<0.000100	<0.000816	0.00694	0.00777	0.00241 J
	KWB-11B	Oct-22		0.00157 J	0.0142	0.116 J	<0.000150	<0.0000596	<0.00124	<0.0281	<0.000849	0.00167 J	0.000160 J	<0.000816	0.00605	0.0141	0.00953
	KWB-11B	Mar-23		0.00149 J	0.0145	0.122 J	<0.000150	<0.0000596	<0.00124	<0.0281	<0.000849	0.00371 J	<0.000100	<0.000816	0.00638	0.0145	0.00929
	KWB-11B	Oct-23		0.00149 J	0.0141	0.128 J	<0.000150	<0.0000596	<0.00124	<0.0281	<0.000849	0.00194 J	<0.000100	<0.000816	0.00540	0.0144	0.00906
	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-12A	Oct-22		0.00180 J	0.0174	0.556	<0.000150	0.0000698 J	<0.00124	<0.0281	<0.000849	0.000810 J	<0.000100	0.000856 J	0.00368	0.0259	0.0156
	KWB-12A	Oct-23		0.00182 J	0.0163	0.512	<0.000150	0.0000671 J	<0.00124	<0.0281	<0.000849	0.000943 J	<0.000100	<0.000816	0.00301	0.0229	0.0150
	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-12B	Apr-22		0.00176 J	0.00962	0.625	<0.000150	<0.0000596	<0.00124	<0.0281	<0.000849	<0.000704	<0.000100	<0.000816	0.00203	**0.0304**	0.0132
	KWB-12B	Apr-22	FD	0.00175 J	0.00978				<0.00124	<0.0281	<0.000849	<0.000704			0.00262		
	KWB-12B	Oct-22		0.00210	0.0150	0.637	<0.000150	0.0000735 J	<0.00124	0.0329 J	<0.000849	0.00162 J	0.000107 J	<0.000816	0.00469	**0.0309**	0.0159
	KWB-12B	Oct-22	FD	0.00213	0.0147	0.641	<0.000150	0.0000788 J	<0.00124	0.0308 J	<0.000849	0.00109 J	<0.000100	<0.000816	0.00498	**0.0309**	0.0161
	KWB-12B	Mar-23		0.00161 J	0.00840	0.676	<0.000150	<0.0000596	<0.00124	0.0294 J	<0.000849	<0.000704	<0.000100	<0.000816	0.00263	0.0295	0.0129
	KWB-12B	Mar-23	FD	0.00181 J	0.00942	0.686	<0.000150	0.000113 J	<0.00124	<0.0281	<0.000849	<0.000704	<0.000100	<0.000816	0.00230	0.0299	0.0129
	KWB-12B	Oct-23		0.00196 J	0.0155	0.633	<0.000150	<0.0000596	<0.00124	<0.0281	<0.000849	<0.000704	<0.000100	<0.000816	0.00364	0.0277	0.0146
	KWB-12B	Oct-23	FD	0.00196 J	0.0150	0.615	<0.000150	0.0000655 J	<0.00124	<0.0281	<0.000849	<0.000704	<0.000100	<0.000816	0.00338	0.0279	0.0147
	KWB-P4	Apr-17															
	KWB-P4	Apr-19															
	KWB-P4	Apr-21															
	KWB-P4	Mar-23															
	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-57	Apr-22		0.00825	0.0460				0.00354	**1.80**	0.00776	**0.527**			0.0104		
	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-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-113	Apr-22		0.000661 J	0.0336				<0.00124	**1.01**	<0.000849	**1.19**			<0.000300		
	MW-113	Apr-22	FD	0.000677 J	0.0331				<0.00124	0.998	<0.000849	**1.16**			<0.000300		
	MW-113	Oct-22		0.00111 J	0.276				<0.00124	<0.0281	0.00230	**0.259**			<0.000300		
	MW-113	Oct-22	FD	0.000976 J	0.285				0.00158 J	<0.0281	0.00222	**0.252**			<0.000300		
	MW-113	Mar-23		0.000425 J	0.130				<0.00124	0.482	<0.000849	**0.911**			<0.000300		
	MW-113	Mar-23	FD	0.000320 J	0.0484				<0.00124	0.455	<0.000849	**0.875**			<0.000300		
	MW-113	Oct-23		0.00111 J	0.333				<0.00124	0.0283 JB	0.00218	0.194			<0.000300		
	MW-113	Oct-23	FD	0.00113 J	0.325				<0.00124	0.0327 JB	0.00231	0.200			<0.000300		
	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-125	Apr-22		0.00343	0.00848				<0.00124	<0.0281	<0.000849	**0.387**			0.000565 J		
	MW-125	Oct-22		0.00348	0.00960				<0.00124	<0.0281	<0.000849	**0.408**			0.00102 J		
	MW-125	Mar-23		0.00342	0.00890	0.425	<0.000150	0.00595	<0.00124	<0.0281	<0.000849	**0.381**	<0.000100	0.00773	0.000702 J	**0.0314** O1	0.0172
	MW-125	Oct-23		0.00360	0.00958	0.475	<0.000150	0.00872	<0.00124	0.0414 JB	<0.000849	**0.410**	<0.000100	0.00843	<0.000300	**0.0336**	0.0172
	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-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-126B	Apr-22		0.00399	0.0108				<0.00124	0.135	<0.000849	0.0613			0.00271		
	MW-126B	Oct-22		0.00404	0.00883				<0.00124	<0.0281	<0.000849	0.0527			0.00307		
	MW-126B	Mar-23		0.00393	0.00866				<0.00124	<0.0281	<0.000849	0.0504			0.00254		
	MW-126B	Oct-23		0.00371	0.00887				<0.00124	<0.0281	<0.000849	0.0425			0.00283		
	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-15		**0.0338**	0.498				0.00227	**6.42**	0.00277	**1.21**			<0.000380		
	MW-129	Oct-15		**0.0271**	0.546				<0.000540	**5.07**	0.000292 J	**1.09**			<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		

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Appendix B, Table B.2 - Summary of Groundwater Analytical Data - Total Metals

2023 Annual Groundwater Monitoring Report
HF Sinclair 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	WQCClrr	WQCClrr	WQCC HH	WQCC HH	WQCC Dom	WQCC HH	WQCC Dom	WQCC HH	WQCClrr	WQCC HH	WQCC HH	NMED TW
Area	**Well ID**	**Date**	**Dup**															
Field East of Refinery	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		
	MW-130	Apr-22			0.00390	0.0209				0.00179 J	0.712	0.00252	0.106			0.00315		
	MW-130	Oct-22			0.00405	0.0272				0.00324	**1.74**	0.00241	0.111			0.00242		
	MW-130	Mar-23			0.00397	0.0232				0.00449	**1.70**	0.00482	0.113			0.00268		
	MW-130	Oct-23			0.00360	0.0172				0.00130 J	0.245 B	0.00151 J	0.0944			0.00181 J		
	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-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-134	Apr-22			0.00350	0.00866				<0.00124	0.0424 J	<0.000849	0.00706			0.00416		
	MW-134	Apr-22	FD		0.00334	0.00859				0.00192 J	0.0328 J	<0.000849	0.00566			0.00441		
	MW-134	Oct-22			0.00961	0.0104				0.00144 J	0.542	<0.000849	0.0910			0.00478		
	MW-134	Oct-22	FD		0.00898	0.0103				0.00191 J	0.500	<0.000849	0.0927			0.00464		
	MW-134	Mar-23			0.00479	0.00990				<0.00124	0.0988 J	<0.000849	0.191			0.00384		
	MW-134	Mar-23	FD		0.00473	0.00914				<0.00124	0.0867 J	<0.000849	0.176			0.00369		
	MW-134	Oct-23			0.00532	0.00989	**0.776**	<0.000150	0.00108 J	<0.00124	0.195	<0.000849	0.111	<0.000100	0.00317	0.00362	**0.0383**	0.0152
	MW-134	Oct-23	FD		0.00620	0.0105				<0.00124	0.237	<0.000849	0.114			0.00428		
	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-135	Apr-22			0.00294	0.0176				<0.00124	0.208	<0.000849	0.0131			0.0221		
	MW-135	Oct-22			0.00324	0.00895				<0.00124	0.0470 J	<0.000849	0.00340 J			0.0224		
	MW-135	Mar-23			0.00341	0.0129				<0.00124	0.219	<0.000849	0.0140			0.0226		
	MW-135	Oct-23			0.00328	0.00892				<0.00124	0.117	<0.000849	0.0177			0.0229		
	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-145	Apr-22			0.00448	0.0217				0.00210	0.765	0.000995 J	0.0395			0.00271		
	MW-145	Oct-22			0.00371	0.00879				<0.00124	0.0285 J	<0.000849	0.0261			0.00239		
	MW-145	Mar-23			0.00376	0.00899				<0.00124	<0.0281	<0.000849	0.0268			0.00297		
	MW-145	Oct-23			0.00362	0.00918				<0.00124	0.0333 J	<0.000849	0.0286			0.00216		
	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-146	Apr-22			0.00407	0.00863				0.00181 J	0.0430 J	<0.000849	0.00195 J			0.00591		
	MW-146	Apr-22	FD		0.00407	0.0102				<0.00124	0.0764 J	<0.000849	0.00329 J			0.00699		
	MW-146	Oct-22			0.00438	0.00856				<0.00124	<0.0281	<0.000849	<0.000704			0.0107		
	MW-146	Oct-22	FD		0.00426	0.00800				<0.00124	<0.0281	<0.000849	<0.000704			0.0104		
	MW-146	Mar-23			0.00438	0.00846				<0.00124	<0.0281	<0.000849	0.00109 JB			0.00675		
	MW-146	Mar-23	FD		0.00449	0.00873				<0.00124	<0.0281	<0.000849	<0.000704			0.00639		
	MW-146	Oct-23			0.00426	0.00885				<0.00124	<0.0281	<0.000849	<0.000704			0.00821		
	MW-146	Oct-23	FD		0.00428	0.00870				<0.00124	<0.0281	<0.000849	<0.000704			0.00786		
	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-147	Apr-22			0.00286	0.0577				<0.00124	0.571	0.00417	0.0482			0.0177		
	MW-147	Oct-22			0.00307	0.00746				<0.00124	0.0731 J	0.00130 J	0.00866			0.0229		
	MW-147	Mar-23			0.00314	0.0210				<0.00124	0.289	0.00410	0.0334			0.0171		
	MW-147	Oct-23			0.00300	0.00772				<0.00124	0.0527 J	<0.000849	0.00808			0.0159		
	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		
	MW-148	Apr-22			0.00302	0.0844				0.00281	**2.10**	0.00392	**0.400**			0.0101		
	MW-148	Oct-22			0.00279	0.00989				0.00126 J	0.0903 J	0.00392	0.0253			0.00933		
	MW-148	Mar-23			0.00315	0.0113				<0.00124	0.0603 J	0.00138 J	0.0122			0.0127		
	MW-148	Oct-23			0.00282	0.00996				<0.00124	0.0554 J	0.00151 J	0.0107			0.0111		
	RA-4196	Jun-20																
	RA-4196	Oct-20																
	RA-4196R	Mar-23																
	RA-4196R	Oct-23																
	RA-4798	Oct-20																
	RA-4798	Apr-21																
	RA-4798	Sep-21																
	RA-4798	Apr-22																
	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-18			0.000839 J	0.0475				0.00357	0.349	0.000602 J	**0.985**			0.00161 J		
	RW-13R	Mar-23			0.00125 J	0.187				0.00199 J	0.0484 J	0.00318	**0.841**			<0.000300		
	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-18A	Mar-23			0.00354	0.0172	0.700	<0.000150	0.000357 J	<0.00124	0.675	<0.000849	0.00817 B	<0.000100	0.00138 J	0.00684	**0.0595**	0.0256
	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	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-18	Apr-22			0.00279	0.0125	**2.17**	<0.000150	<0.0000596	<0.00124	<0.0281	<0.000849	0.0200	<0.000100	<0.000816	0.00480	**0.0460**	0.0185
	MW-18	Mar-23			0.00298	0.0137	**1.91**	<0.000150	0.0000634 J	0.00139 J	<0.0281	<0.000849	0.00419 J	<0.000100	0.00144 J	0.00506	**0.0419**	0.0181
	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-45	Apr-22			0.00394	0.0135	0.568	<0.000150	0.000186 J	<0.00124	**1.08**	0.00168 J	**0.639**	<0.000100	0.00549	0.000481 J	0.000763 J	0.00116 J
	MW-45	Oct-22			0.00693	0.0154	0.642	<0.000150	0.0000902 J	0.00136 J	**3.87**	0.00706	**0.633**	<0.000100	0.00565	<0.000300	0.000467 J	0.00119 J
	MW-45	Mar-23			0.00678	0.0137	0.594	<0.000150	0.000160 J	0.00733 B	**4.39**	0.00500	**0.612**	<0.000100	0.00743	0.000698 J	0.000526 J	0.00146 J
	MW-45	Oct-23			0.00739	0.0147	0.681	<0.000150	0.000460 J	<0.00124	**1.68**	0.00447	**0.632**	<0.000100	0.00528	0.000327 J	0.000530 J	0.000996 J
	MW-53	Apr-15			0.00179 J	0.0256				<0.000540	0.0338 J	0.000252 J	**1.20**			0.00566		
	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-53R	Apr-22			0.00227	0.0200				<0.00124	0.0446 J	<0.000849	**0.701**			0.00560		
	MW-53R	Mar-23			0.00165 J	0.0179				<0.00124	0.0304 J	<0.000849	**0.411**			<0.000300		
	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-54A	Apr-22			0.00451	0.0152				<0.00124	0.0730 J	<0.000849	**0.777**			0.000497 J		
	MW-54A	Oct-22			0.00465	0.0175				<0.00124	0.125	<0.000849	**0.760**			0.00877		
	MW-54A	Mar-23			0.00303	0.0170				<0.00124	<0.0281	<0.000849	**0.561**			0.000746 J		
	MW-54A	Oct-23			0.00324	0.0175				<0.00124	<0.0281	<0.000849	**0.940**			<0.000300		

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Appendix B, Table B.2 - Summary of Groundwater Analytical Data - Total Metals

2023 Annual Groundwater Monitoring Report
HF Sinclair 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	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-54B	Mar-23		0.00220	0.0239				<0.00124	<0.0281	<0.000849	**1.16**			0.00117 J			
	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-55	Apr-22		0.00633	0.0151	0.550	<0.000150	0.000316 J	<0.00124	<0.0281	<0.000849	**0.211**	<0.000100	0.00383	0.00131 J	0.0201	0.0174	
	MW-55	Oct-22		0.00550	0.0153	0.449	<0.000150	0.00341	<0.00124	<0.0281	<0.000849	**0.350**	0.000113 J	0.00967	0.0130	0.0215	0.0140	
	MW-55	Mar-23		0.00642	0.0152	0.586	<0.000150	0.000325 J	0.00135 J	<0.0281	<0.000849	**0.212**	<0.000100	0.00636	0.00160 J	0.0211	0.0179	
	MW-55	Oct-23		0.00626	0.0158	0.635	<0.000150	0.000458 J	<0.00124	<0.0281	<0.000849	**0.255**	<0.000100	0.00566	0.00125 J	0.0209	0.0174	
	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-56	Apr-22		0.00501	0.0104				<0.00124	0.0459 J	<0.000849	**0.219**			0.00177 J			
	MW-56	Mar-23		0.00483	0.00934	0.175 J	<0.000150	0.00437	<0.00124	<0.0281	<0.000849	0.164	<0.000100	0.00503	0.00530	0.00803	0.0186	
	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			
	MW-108	Apr-22		0.000526 J	0.0461				<0.00124	0.0411 J	<0.000849	0.0392			<0.000300			
	MW-108	Oct-22		0.000445 J	0.0442				<0.00124	0.700	<0.000849	0.0573			**0.0638**			
	MW-108	Mar-23		0.00179 J	0.0459				0.00188 J	**1.07**	0.00117 J	0.0457			0.000325 J			
	MW-108	Oct-23		0.000413 J	0.0469				0.00179 J	0.203	<0.000849	0.0469			<0.000300			
	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-31	Apr-22		**0.0115**	0.0143				<0.00124	0.476	<0.000849	**1.55**			<0.000300			
	NCL-31	Oct-22		**0.0134**	0.0258				<0.00124	0.616	<0.000849	**1.69**			0.00374			
	NCL-31	Mar-23		**0.0110**	0.0206				0.00303	0.552	<0.000849	**1.50**			<0.000300			
	NCL-31	Oct-23		**0.0106**	0.0224				<0.00124	0.453	<0.000849	**1.35**			<0.000300			
	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-32	Apr-22		0.00232	0.0219				0.00544	0.353	0.00255	**1.33**			0.00239			
	NCL-32	Oct-22		0.00276	0.0199				<0.00124	0.0726 J	<0.000849	**2.00**			0.00501			
	NCL-32	Mar-23		0.00287	0.0210				0.00341	0.304	0.00242	**2.02**			0.00144 J			
	NCL-32	Oct-23		0.00249	0.0164				<0.00124	<0.0281	<0.000849	**1.99**			0.00211			
	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-33	Apr-22		0.00652	0.0224				0.00146 J	**3.76**	<0.000849	0.165			0.00158 J			
	NCL-33	Oct-22		0.00573	0.0202				<0.00124	**2.72**	<0.000849	0.155			0.00809			
	NCL-33	Mar-23		**0.0170**	0.0195				0.00133 J	**10.2**	0.000949 J	0.152			0.00175 J			
	NCL-33	Oct-23		0.00679	0.0181				<0.00124	**2.81**	<0.000849	0.141			0.00121 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 IJ6O1**			
	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-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-44	Apr-22		**0.0149**	0.0186				0.00237	0.611	0.00107 J	**0.777**			0.000418 J			
	NCL-44	Oct-22		**0.0155**	0.0179				<0.00124	0.591	<0.000849	**0.770**			0.0205			
	NCL-44	Mar-23		0.00847	0.0169				0.00139 J	0.392	<0.000849	**0.733**			0.000376 J			
	NCL-44	Oct-23		0.00838	0.0165				<0.00124	0.402	<0.000849	**0.793**			<0.000300			
	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			
	NCL-49	Apr-22		0.00168 J	0.0130				<0.00124	<0.0281	<0.000849	<0.000704			0.0116			
	NCL-49	Apr-22	FD	0.00160 J	0.0123				<0.00124	<0.0281	<0.000849	<0.000704			0.0105			
	NCL-49	Oct-22		0.00159 J	0.0133				<0.00124	<0.0281	<0.000849	<0.000704			0.0125			
	NCL-49	Oct-22	FD	0.00150 J	0.0122				<0.00124	<0.0281	<0.000849	<0.000704			0.0193			
	NCL-49	Mar-23		0.00180 J	0.0140				<0.00124	<0.0281	<0.000849	0.000707 J			0.0140			
	NCL-49	Mar-23	FD	0.00164 J	0.0133				<0.00124	<0.0281	<0.000849	<0.000704			0.0135			
	NCL-49	Oct-23		0.00160 J	0.0134				<0.00124	<0.0281	<0.000849	<0.000704			0.0143			
	NCL-49	Oct-23	FD	0.00161 J	0.0137				<0.00124	<0.0281	<0.000849	<0.000704			0.0155			
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-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-29	Apr-22		**0.0110**	0.0179				<0.00124	0.801	<0.000849	**0.385**			0.00481			
	MW-29	Oct-22		**0.103**	0.0227				<0.00124	**12.9**	0.00265	**1.16**			0.00301			
	MW-29	Mar-23		**0.0370**	0.0177	**0.811**	<0.000150	0.000853 J	<0.00124	**10.9**	<0.000849	**0.767**	<0.000100	0.00721	0.00785	0.00700	0.00767	
	MW-29	Oct-23		**0.0218**	0.0228	**0.826**	<0.000150	0.000638 J	<0.00124	**6.05**	<0.000849	**0.487**	<0.000100	0.00953	0.00113 J	0.00246	0.00710	
	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-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-42	Apr-22		0.00733	0.0195				<0.00124	0.116	<0.000849	0.143			0.000333 J			
	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	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-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-61	Apr-22		0.00244	0.0532				<0.00124	0.0625 J	0.00376	0.0265			<0.000300			
	MW-61	Oct-22		0.00196 J	0.0521				<0.00124	<0.0281	0.00358	0.0234			<0.000300			
	MW-61	Mar-23		0.00191 J	0.0518				<0.00124	<0.0281	0.00342	0.0293			<0.000300			
	MW-61	Oct-23		0.00182 J	0.0460				<0.00124	0.0342 J	0.00411	0.0282			<0.000300			

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Appendix B, Table B.2 - Summary of Groundwater Analytical Data - Total Metals

2023 Annual Groundwater Monitoring Report
HF Sinclair 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	WQCClrr	WQCClrr	WQCC HH	WQCC HH	WQCC Dom	WQCC HH	WQCC Dom	WQCC HH	WQCClrr	WQCC HH	WQCC HH	NMED TW
Area	**Well ID**	**Date**	**Dup**															
North Refinery	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-62	Apr-22		**0.0504**	0.0827				0.00125 J	0.219	<0.000849	0.00771			0.000378 J		
	MW-62	Oct-22		**0.0825**	0.0635				0.00236	<0.0281	<0.000849	0.0115			0.000484 J		
	MW-62R	Apr-21		**0.0449**	**3.61**				<0.00124	**4.03**	<0.000849	**0.245**			<0.000300		
	MW-62R	Apr-22		**0.0692**	0.611				<0.00124	<0.0281	<0.000849	0.0118			0.000401 J		
	MW-62R	Mar-23		**0.0470**	0.354				<0.00124	<0.0281	<0.000849	0.00666			0.000567 J		
	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-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		
	MW-90	Apr-22		0.00603	0.0259				0.00450	0.129	<0.000849	0.0463			0.000543 J		
	MW-90	Oct-22		0.00358	0.0212				<0.00124	0.0355 J	<0.000849	0.0781			**0.0724**		
	MW-90	Mar-23		0.00523	0.0200				<0.00124	<0.0281	<0.000849	0.0630			0.000548 J		
	MW-90	Oct-23		0.00636	0.0188				<0.00124	0.704	<0.000849	0.151			0.000972 J		
	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-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	Nov-14		**0.0170**	0.780				0.00140	0.0810 J	<0.000240	0.00650			0.00120 J		
	MW-94	Oct-15		**0.0215**	1.57				0.00144 J	<0.0150	<0.000240	0.00194 J			0.000935 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	Sep-21		0.00294	0.175				<0.00124	0.892	<0.000849	0.0364			0.000317 J		
	MW-96	Apr-22		0.00198 J	0.289				<0.00124	<0.0281	<0.000849	0.00153 J			0.000743 J		
	MW-96	Oct-22		0.00172 J	0.226				<0.00124	0.156	<0.000849	0.000793 J			0.0425		
	MW-96	Mar-23		0.00211	0.322				<0.00124	**1.06**	<0.000849	0.00301 J			0.000591 J		
	MW-96	Oct-23		0.00176 J	0.242				<0.00124	<0.0281	<0.000849	0.00221 J			0.000464 J		
	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-98	Apr-22		0.00131 J	0.0162				<0.00124	<0.0281	0.00563	0.0149			<0.000300		
	MW-98	Oct-22		0.00132 J	0.0172				<0.00124	<0.0281	0.00659	0.0165			<0.000300		
	MW-98	Mar-23		0.000781 J	0.0148				<0.00124	<0.0281	0.00570	0.0126			0.0272		
	MW-98	Oct-23		0.000878 J	0.0169				<0.00124	<0.0281	0.00551	0.0148			0.000369 J		
	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-1	Apr-15		0.00607	0.0305				0.00290	0.216	0.000495 J	0.126			0.00302 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-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-2	Mar-23		**0.0200**	0.0845				0.00205	0.294	0.000897 J	**0.866**			0.00162 J		
	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	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-9	Apr-22		0.00503	0.0327				0.00174 J	0.0498 J	<0.000849	**0.318**			<0.000300		
	RW-9	Mar-23		0.00504	0.0316				<0.00124	<0.0281	<0.000849	**0.295**			0.0232		
	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-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-16B	Mar-23		**0.0253**	0.0303				<0.00124	0.144	0.00217	**0.774**			0.00912		
	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		
	RW-17A	Mar-23		0.00844	0.0224				<0.00124	0.0889 J	0.0120	**2.08** O1V			0.00442		
North RO Field	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-117	Apr-22		0.00285	0.00960				<0.00124	<0.0281	<0.000849	0.00412 J			0.00714		
	MW-117	Oct-22		0.00265	0.00999				<0.00124	0.0455 J	<0.000849	0.00419 J			0.00371		
	MW-117	Mar-23		0.00290	0.00984	0.333 B	<0.000150	0.000883 J	0.00156 JB	0.0535 J	<0.000849	0.00446 J	<0.000100 J6	0.00397	0.00448	0.0109	0.0149
	MW-117	Oct-23		0.00289	0.0101	0.421	<0.000150	0.00109 J	<0.00124	<0.0281	<0.000849	0.00652	<0.000100	0.00367	0.00472	0.0115	0.0150
	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-118	Apr-22		0.00634	0.0121				0.00321	0.117	<0.000849	0.00124 J			0.0143		
	MW-118	Oct-22		0.00621	0.0104				<0.00124	0.0611 J	<0.000849	0.00142 J			0.0162		
	MW-118	Mar-23		0.00603	0.0131	0.656	<0.000150	0.000241 J	0.00231 B	0.0684 J	<0.000849	0.0535	<0.000100	0.00297	0.0106	**0.0490**	0.0298
	MW-118	Oct-23		0.00587	0.0115	**0.776**	<0.000150	0.000290 J	<0.00124	0.121	<0.000849	0.0145	<0.000100	0.00220	0.0162	**0.0526**	0.0328
	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		
	MW-119	Apr-22		0.00442	0.0137				<0.00124	0.206	<0.000849	0.0144			0.00467		
	MW-119	Oct-22		0.00414	0.00941				<0.00124	0.0524 J	<0.000849	0.00497 J			0.00554		
	MW-119	Mar-23		0.00429	0.0107	0.525	<0.000150	0.0000919 J	0.00135 JB	0.0917 J	<0.000849	0.00669	<0.000100	0.00133 J	0.00504	**0.0471**	0.0179
	MW-119	Oct-23		0.00390	0.00898	0.536	<0.000150	0.0000829 J	<0.00124	<0.0281	<0.000849	0.0128	<0.000100	0.00155 J	0.00429	**0.0473**	0.0181

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Appendix B, Table B.2 - Summary of Groundwater Analytical Data - Total Metals

2023 Annual Groundwater Monitoring Report
HF Sinclair 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**															
North RO Field	MW-140	Mar-23			0.00358	0.0118	0.524	<0.000150	0.000187 J	<0.00124	<0.0281	<0.000849	0.0479	<0.000100	0.00435	0.00541	**0.0357**	0.0148
	MW-140	Oct-23			0.00327	0.0130	0.663	<0.000150	0.000194 J	<0.00124	<0.0281	<0.000849	0.0290	<0.000100	0.00192 J	0.00634	**0.0389**	0.0146
	MW-141	Mar-23			0.00219	0.0112	0.203 B	<0.000150	0.000386 J	<0.00124	0.0496 JB	<0.000849	0.00765	0.000129 J	0.00123 J	0.00368	0.0224	0.0127
	MW-141	Oct-23			0.00201	0.0104	0.233	<0.000150	0.000342 J	<0.00124	<0.0281	<0.000849	0.00785	<0.000100	0.00107 J	0.00300	0.0233	0.0117
	MW-142	Mar-23			0.00394	0.00917	0.435 B	<0.000150	0.000264 J	<0.00124	<0.0281	<0.000849	0.0209	<0.000100	0.00306	0.00503	**0.0436**	0.0206
	MW-142	Oct-23			0.00336	0.00871	0.520	<0.000150	0.000204 J	<0.00124	<0.0281	<0.000849	0.0215	<0.000100	0.00274	0.00494	**0.0438**	0.0199
	MW-143	Mar-23			0.00420	0.00810	**0.778**	<0.000150	0.000959 J	<0.00124	0.0332 J	<0.000849	0.0409	<0.000100	0.00675	0.00121 J	**0.0482**	0.0236
	MW-143	Oct-23			0.00328	0.00784	**0.902**	<0.000150	0.000588 J	<0.00124	0.0415 J	<0.000849	0.0371	<0.000100	0.00352	0.00152 J	**0.0471**	0.0187
South Refinery	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-2R	Mar-23			0.00299	0.0474				0.00223	1.00	0.00990	**0.649**			<0.000300		
	KWB-2R	Oct-23			0.00273	0.0373				<0.00124	0.391	0.00158 J	**0.692**			<0.000300		
	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		
	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-50	Apr-22			0.00338	0.0112				<0.00124	0.164	<0.000849	**0.473**			0.0132		
	MW-50	Oct-22			0.00373	0.0151				<0.00124	0.126	<0.000849	**0.507**			**0.0551**		
	MW-50	Mar-23			0.00521	0.0122				0.00163 J	0.396	<0.000849	**0.655**			0.0298		
	MW-50	Oct-23			0.00458	0.0148				<0.00124	0.627	<0.000849	**0.663**			0.0203		
	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-52	Apr-22			0.00384	0.0113	**0.762**	<0.000150	0.000818 J	<0.00124	<0.0281	<0.000849	0.0673	<0.000100	0.0446	0.00355	0.00937	0.0266
	MW-52	Oct-22			0.00384	0.0126	**0.761**	<0.000150	0.00101 J	<0.00124	0.0543 J	<0.000849	0.0783	<0.000100	0.0436	0.00363	0.0120	0.0247
	MW-52	Mar-23			0.00376	0.0129	**0.805**	<0.000150	0.00100 J	<0.00124	<0.0281	<0.000849	0.0669	<0.000100	0.0357	0.00368	0.0116	0.0258
	MW-52	Oct-23			0.00411	0.0115	**0.857**	<0.000150	0.00103 J	<0.00124	0.0712 JB	<0.000849	0.0679	<0.000100	0.0325	0.00158 J	0.00999	0.0255
	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-64	Apr-22			**0.0231**	**2.13**				<0.00124	0.0716 J	<0.000849	0.0566			0.000401 J		
	MW-64	Oct-22			**0.0248**	**2.12**				<0.00124	0.0336 J	<0.000849	0.0610			0.000550 J		
	MW-64	Mar-23			**0.0265**	**2.13**				<0.00124	0.0411 J	<0.000849	0.0588			0.000706 J		
	MW-64	Oct-23			**0.0271**	1.96				<0.00124	<0.0281	<0.000849	0.0575			0.000306 J		
	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-65	Mar-23			**0.0511**	1.37				<0.00124	0.510	0.00224	**0.549**			0.000945 J		
	MW-65	Oct-23			0.00535	1.58				<0.00124	0.941	<0.000849	**0.346**			<0.000300		
	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-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-101	Apr-22			0.00428	0.126				<0.00124	0.133	<0.000849	**0.665**			<0.000300		
	MW-101	Oct-22			0.00450	0.117				<0.00124	0.622	<0.000849	**0.747**			<0.000300		
	MW-101	Mar-23			**0.0117**	0.176				<0.00124	0.0923 J	0.00128 J	**0.476**			<0.000300		
	MW-101	Oct-23			**0.0338**	0.0685				<0.00124	**1.17**	<0.000849	**0.735**			<0.000300		
	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-102	Apr-22			**0.0138**	**2.16**				<0.00124	0.136	0.00403	0.0412			<0.000300		
	MW-102	Apr-22	FD		**0.0140**	**2.17**				<0.00124	0.0541 J	0.00356	0.0396			<0.000300		
	MW-102	Oct-22			0.00931	0.360				0.00133 J	0.0871 J	0.00517	0.0354			<0.000300		
	MW-102	Oct-22	FD		0.00997	0.363				<0.00124	0.0281 J	0.00558	0.0356			0.000325 J		
	MW-102	Mar-23			**0.0120**	0.200				<0.00124	0.0383 J	0.00251	0.0156			**0.0857**		
	MW-102	Mar-23	FD		**0.0113**	0.207				<0.00124	0.0342 J	0.00267	0.0164			0.0435		
	MW-102	Oct-23			**0.0115**	0.422				<0.00124	0.110	0.00411	0.0234			<0.000300		
	MW-102	Oct-23	FD		**0.0114**	0.428				<0.00124	0.112	0.00385	0.0229			<0.000300		
	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-103	Apr-22			0.00192 J	1.51				0.00278	0.0607 J	<0.000849	0.00535			<0.000300		
	MW-103	Mar-23			0.00216	0.420				<0.00124	0.0407 J	0.00106 J	0.00181 J			0.000384 J		
	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-104	Apr-22			0.00185 J	0.0180				0.00174 J	0.0432 J	<0.000849	0.0173			<0.000300		
	MW-104	Oct-22			0.000998 J	0.0257				<0.00124	<0.0281	<0.000849	0.0190			<0.000300		
	MW-104	Mar-23			0.00207	0.0232				<0.00124	<0.0281	<0.000849	0.0128			<0.000300		
	MW-104	Oct-23			0.00292	0.0287				<0.00124	<0.0281	<0.000849	0.0229			<0.000300		
	MW-105	Apr-21			0.00487	0.179				0.00274	**2.48**	<0.000849	**0.560**			<0.000300		
	MW-105	Apr-22			**0.0133**	0.0755				0.00317	0.298	<0.000849	0.0553			<0.000300		
	MW-105	Oct-22			0.00757	0.103				0.00164 J	**3.26**	0.00383	0.166			0.00133 J		
	MW-105	Mar-23			0.00751	0.220				0.00176 J	0.167	<0.000849	0.144			<0.000300		
	MW-105	Oct-23			0.00546	0.120				0.00193 J	0.714	0.00274	0.0579			0.00155 J		
	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-106	Oct-23			0.00377	0.0468				0.00272	0.708	0.00148 J	0.0193			0.00640		
	MW-107	Oct-15			0.00883	1.55				0.000625 J	0.368	0.000259 J	0.178			<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-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-109	Apr-22			0.00178 J	0.0893				<0.00124	<0.0281	<0.000849	0.0494			<0.000300		
	MW-109	Oct-22			0.00411	1.33				0.00470	**3.39**	0.00254	0.149			<0.000300		
	MW-109	Mar-23			0.00491	0.0800				<0.00124	0.0531 J	<0.000849	0.126			0.000303 J		
	MW-109	Oct-23			0.00223	0.103				<0.00124	0.0441 JB	<0.000849	0.0657			<0.000300		

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Appendix B, Table B.2 - Summary of Groundwater Analytical Data - Total Metals

2023 Annual Groundwater Monitoring Report
HF Sinclair 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	WQCClrr	WQCClrr	WQCC HH	WQCC HH	WQCC Dom	WQCC HH	WQCC Dom	WQCC HH	WQCClrr	WQCC HH	WQCC HH	NMED TW
Area	**Well ID**	**Date**	**Dup**															
South Refinery	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-110	Apr-22		0.00429	0.0615				<0.00124	0.414	<0.000849	**0.566**			<0.000300		
	MW-110	Oct-22		**0.0388**	0.0483				<0.00124	**1.19**	<0.000849	**2.00**			<0.000300		
	MW-110	Mar-23		**0.0383**	0.0528				0.00141 J	**1.15**	<0.000849	**2.23**			<0.000300		
	MW-110	Oct-23		**0.0281**	0.0713				<0.00124	0.961	<0.000849	**2.25**			<0.000300		
	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		
	MW-139	Apr-22		0.00650	0.0298				<0.00124	0.485	<0.000849	**1.44**			<0.000300		
	MW-139	Oct-22		0.00563	0.0298				<0.00124	0.302	<0.000849	**1.50**			**0.145**		
	MW-139	Mar-23		**0.0110**	0.0264				<0.00124	0.558	<0.000849	**1.72**			<0.000300		
	MW-139	Oct-23		0.00429	0.0289				<0.00124	0.160	<0.000849	**1.17**			<0.000300		
	RA-313	Jun-20															
	RA-313	Apr-21															
	RA-313	Apr-22															
	RA-313	Mar-23															
	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-4	Apr-22		0.00552	0.0742				<0.00124	0.0784 J	<0.000849	0.181			<0.000300		
	RW-4	Mar-23		0.00486	0.0655				<0.00124	0.0475 J	0.000881 J	0.187			<0.000300		
	RW-5R	Apr-15		0.00136 J	0.0259				<0.000540	0.0952 J	0.000336 J	0.0177			<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-6	Mar-23		**0.0423**	0.633				0.00443	**1.19**	0.00577	0.195			0.000538 J		
	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-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-114	Apr-22		0.00377	0.0120				<0.00124	<0.0281	<0.000849	**0.695**			0.000752 J		
	MW-114	Oct-22		0.00529	0.0181				<0.00124	<0.0281	<0.000849	**0.890**			0.00182 J		
	MW-114	Mar-23		0.00220	0.0122	0.0472 J	<0.000150	0.00168 J	<0.00124	<0.0281	<0.000849	**0.359**	<0.000100	0.00164 J	0.00243	0.00338	0.00551
	MW-114	Oct-23		0.00388	0.0146	0.138 J	<0.000150	0.00180 J	<0.00124	<0.0281	<0.000849	**0.358**	<0.000100	0.00474	0.00175 J	0.00457	0.00995
	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-115	Apr-22		0.00444	0.00893				0.00296	<0.0281	<0.000849	0.0593			0.00576		
	MW-115	Oct-22		0.00533	0.0106				<0.00124	<0.0281	<0.000849	0.0465			0.00406		
	MW-115	Mar-23		0.00533	0.0184	0.697	<0.000150	0.00235	0.00147 J	0.358	<0.000849	0.152	<0.000100	0.00576	0.00356	**0.0525**	0.0280
	MW-115	Oct-23		0.00524	0.0111	**0.821**	<0.000150	0.00157 J	<0.00124	0.0848 JB	<0.000849	0.165	<0.000100	0.00600	0.00226	**0.0522**	0.0268
	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		
	MW-116	Apr-22		0.00296	0.00856				<0.00124	0.0323 J	<0.000849	0.0366			0.00656		
	MW-116	Oct-22		0.00373	0.00971				<0.00124	0.0502 J	<0.000849	0.0916			0.00573		
	MW-116	Mar-23		0.00325	0.00874	0.233	<0.000150	0.00271	<0.00124	0.0772 J	<0.000849	0.0963	<0.000100	0.00237	0.0293	0.0291	0.0135
	MW-144	Mar-23		0.00447	0.0106	0.394	<0.000150	0.000559 J	<0.00124	<0.0281	<0.000849	0.0129	<0.000100	0.00117 J	0.00855	**0.0340**	0.0167
	MW-144	Oct-23		0.00470	0.0111	0.423	<0.000150	0.000593 J	<0.00124	<0.0281	<0.000849	0.0181	<0.000100	0.00282	0.0118	**0.0376**	0.0151
TEL	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
	MW-49	Apr-22		0.00488	0.0505	0.701	<0.000150	0.0000771 J	<0.00124	0.0693 J	<0.000849	0.188 J6	<0.000100	0.00944	<0.000300	<0.0000789	0.000690 J
	MW-49	Oct-22		0.00430	0.0665	0.728	<0.000150	<0.0000596	<0.00124	0.0800 J	0.00135 J	0.173	<0.000100	0.00935	<0.000300	<0.0000789	0.000728 J
	MW-49	Mar-23		0.00434	0.0681	**0.777**	<0.000150	<0.0000596	<0.00124	<0.0281	<0.000849	0.145	<0.000100	0.00833	<0.000300	<0.0000789	<0.000664
	MW-49	Oct-23		0.00413	0.0820	**0.796**	<0.000150	0.000217 J	<0.00124	0.304	0.00132 J	0.117	<0.000100	0.00817	<0.000300	<0.0000789	0.000916 J
	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-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		
	TEL-4	Apr-22		0.00436	0.0129				**0.0570**	0.244	<0.000849	**0.731**			0.000375 J		
	TEL-4	Apr-22	FD	0.00437	0.0118				**0.111**	0.423	<0.000849	**0.746**			<0.000300		
	TEL-4	Oct-22		0.00574	0.0200				**0.303**	0.322	0.000873 J	**1.03**			<0.000300		
	TEL-4	Oct-22	FD	0.00540	0.0206				**0.191**	0.223	0.00113 J	**1.01**			0.000321 J		
	TEL-4	Mar-23		0.00383	0.0163				**0.463**	0.844	<0.000849	**0.913**			0.0285		
	TEL-4	Mar-23	FD	0.00361	0.0176				**0.461**	0.905	<0.000849	**0.918**			0.0125		
	TEL-4	Oct-23		**0.0356**	0.0197				**0.287**	**2.43**	0.00199 J	**0.721**			<0.000300		
	TEL-4	Oct-23	FD	**0.0451**	0.0207				**0.543**	**5.48**	0.00349	**0.776**			0.000494 J		
Three Mile Ditch	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-8	Apr-22		0.00617	0.0138				0.0118	0.0779 J	<0.000849	**0.359**			**0.0783**		
	MW-8	Mar-23		0.00708	0.0130				0.00998	0.0784 J	<0.000849	**0.339**			**0.0663**		
	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-16	Apr-22		0.00498	0.0158				<0.00124	<0.0281	<0.000849	**0.254**			0.00853		
	MW-16	Mar-23		0.00559	0.0130				<0.00124	0.0286 J	<0.000849	0.0121			0.0280		
	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-20	Apr-22		0.00495	0.00958				<0.00124	<0.0281	<0.000849	0.00169 J			0.00953		
	MW-20	Mar-23		0.00520	0.0122				<0.00124	<0.0281	<0.000849	0.00401 J			0.0193		
	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-21	Apr-22		0.00534	0.00993				<0.00124	0.0618 J	<0.000849	0.113			**0.0524**		
	MW-21	Oct-22		0.00587	0.00936				<0.00124	<0.0281	<0.000849	**0.637**			**0.0549**		
	MW-21	Mar-23		0.00562	0.00891				<0.00124	<0.0281	<0.000849	**0.203**			0.0416		
	MW-21	Oct-23		0.00559	0.00963				<0.00124	<0.0281	<0.000849	**0.670**			**0.0502**		
	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-25	Apr-22		0.00347	0.0451				<0.00124	<0.0281	<0.000849	**2.51**			0.000351 J		
	MW-25	Mar-23		0.00368	0.0390				0.00171 JB	<0.0281	<0.000849	**0.741 V**			0.000407 J		
	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-26	Apr-22		0.00317	0.00780				<0.00124	<0.0281	<0.000849	**0.267**			0.0171		
	MW-26	Mar-23		0.00304	0.00836				<0.00124	<0.0281	<0.000849	0.0779			0.0164		

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Appendix B, Table B.2 - Summary of Groundwater Analytical Data - Total Metals

2023 Annual Groundwater Monitoring Report
HF Sinclair 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	WQCClrr	WQCClrr	WQCC HH	WQCC HH	WQCC Dom	WQCC HH	WQCC Dom	WQCC HH	WQCClrr	WQCC HH	WQCC HH	NMED TW
Area	**Well ID**	**Date**	**Dup**															
Three Mile Ditch	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-27	Apr-22			0.00231	0.0187				<0.00124	<0.0281	<0.000849	0.0229			0.0158		
	MW-27	Mar-23			0.00219	0.0168				<0.00124	<0.0281	<0.000849	0.00484 J			0.0203		
	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-46R	Apr-22			0.00256	0.0109				0.00171 J	0.0768 J	<0.000849	0.0475			0.0351		
	MW-46R	Oct-22			0.00463	0.0274				0.00420	**1.71**	0.00493	0.0905			0.0181		
	MW-46R	Mar-23			0.00264	0.0124				<0.00124	0.0529 J	<0.000849	0.0150			0.0295		
	MW-46R	Oct-23			0.00548	0.0264				0.00729	**1.40**	0.0140	0.0975			0.00889		
	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-68	Apr-22			0.00246	0.0127				<0.00124	0.102	0.00175 J	0.00437 J			0.0259		
	MW-68	Mar-23			0.00266	0.0117				<0.00124	<0.0281	<0.000849	<0.000704			0.0233		
	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-71	Apr-22			0.00397	0.00728	0.654	<0.000150	<0.0000596	<0.00124	<0.0281	<0.000849	<0.000704	<0.000100	<0.000816	0.0270	**0.0693**	0.0246
	MW-71	Mar-23			0.00391	0.00845	0.626	<0.000150	0.000125 J	0.00151 J	<0.0281	<0.000849	0.000845 J	<0.000100	0.00110 J	0.0252	**0.0672**	0.0249
	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		
	MW-89	Apr-22			**0.0105**	0.0122				<0.00124	0.0409 J	<0.000849	0.191			0.00485		
	MW-89	Mar-23			0.00817	0.0126				<0.00124	<0.0281	<0.000849	**0.426**			0.00338		
	NP-1	Apr-21																
	NP-1	Sep-21																
	NP-1	Apr-22																
	NP-1	Oct-22																
	NP-1	Mar-23																
	NP-1	Oct-23																
	NP-6	Apr-17																
	NP-6	Apr-19																
	NP-6	Apr-21																
	NP-6	Mar-23																
Upgradient	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-1	Apr-22			0.00162 J	0.0132	0.733	<0.000150	0.0000957 J	<0.00124	<0.0281	<0.000849	<0.000704	<0.000100	<0.000816	0.0130	**0.0431**	0.0140
	UG-1	Mar-23			0.00142 J	0.0129	0.728	<0.000150	0.0000741 J	<0.00124	<0.0281	<0.000849	<0.000704	<0.000100	<0.000816	0.0128	**0.0373**	0.0144
	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-2	Apr-22			0.00238	0.0152	0.267	<0.000150	0.0000828 J	<0.00124	<0.0281	<0.000849	0.00569 B	<0.000100	0.00183 J	0.00570	0.0156	0.0198
	UG-2	Mar-23			0.00245	0.0146	0.264	<0.000150	<0.0000596	<0.00124	<0.0281	<0.000849	<0.000704	<0.000100	0.00162 J	0.00531	0.0143	0.0228
	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-3R	Apr-22			0.00149 J	0.0191	0.183 J	<0.000150	0.0000759 J	<0.00124	<0.0281	<0.000849	0.000775 JB	<0.000100	<0.000816	0.00472	0.0273	0.00900
	UG-3R	Mar-23			0.00141 J	0.0250	0.162 J	<0.000150	0.0000610 J	<0.00124	<0.0281	<0.000849	0.000918 JB	<0.000100	0.00131 J	0.00566	0.0189	0.00964
	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
	UG-4	Apr-22			0.00147 J	0.0229	0.749	<0.000150	0.000862 J	0.00295	0.200	<0.000849	0.0492	<0.000100	0.00120 J	0.0119	**0.0334**	0.00923
	UG-4	Mar-23			0.00150 J	0.0196	**1.22**	<0.000150	0.000340 J	<0.00124	0.235	<0.000849	0.0347	<0.000100	0.00228	0.00789	**0.0421**	0.00876

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, November 2022, 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.

Note - Irrigation well RA-4196R was installed in June 2022 to replace both irrigation wells RA-4196 and RA-4798 which were plugged and abandoned in April 2023.

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Appendix B, Table B.3 - Summary of Groundwater Analytical Data - Dissolved Metals

2023 Annual Groundwater Monitoring Report
HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	Total Metals													
				Analyte	Arsenic	Barium	Boron	Cadmium	Chromium	Cobalt	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Uranium	Vanadium
				CAS	7440-38-2	7440-39-3	7440-42-8	7440-43-9	7440-47-3	7440-48-4	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	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
	KWB-13	Apr-22		0.00251	0.0137	0.311	<0.000150	0.00135 J	0.000143 J	<0.0281	<0.000849	<0.000704	<0.000100	0.000948 JB	0.0116	0.0199	0.0193
	KWB-13	Mar-23		0.00263 B	0.0141	0.296	<0.000150	<0.00124 J4	<0.0000596	<0.0281	<0.000849	0.000863 J	<0.000100	<0.000816	0.00991	0.0220	0.0209
	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															
	MW-136	Apr-22		0.00223	0.0110	0.487	<0.000150	<0.00124	0.000887 J	<0.0281	<0.000849	0.00142 J	<0.000100	0.00287	0.00879	**0.0338**	0.0140
	MW-136	Oct-22															
	MW-136	Mar-23		0.00261 B	0.0164	0.517	<0.000150	<0.00124 J4	0.000664 J	<0.0281	<0.000849	0.00133 J	<0.000100	0.00235	0.00670	**0.0369**	0.0163 B
	MW-136	Oct-23															
	MW-149	Oct-23															
	MW-150	Oct-23															
	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		
	NP-5	Mar-23		0.00348 B	0.00893			<0.00124 J4		<0.0281	<0.000849	0.00469 J			0.00781		
	RA-3156	Apr-19															
	RA-3156	Jun-20															
	RA-3156	Apr-21															
	RA-3156	Apr-22															
Evaporation Ponds	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-1R	Apr-22		0.00132 J	0.0189			<0.00124		**1.81**	<0.000849	**1.23**			<0.000300		
	MW-1R	Mar-23		0.00138 J	0.0188			<0.00124		**1.71**	<0.000849	**1.21**			<0.000300		
	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-2A	Apr-22		0.00667	0.0230			<0.00124		0.135	<0.000849	**0.632**			0.00344		
	MW-2A	Oct-22															
	MW-2A	Mar-23		0.00613	0.0194			<0.00124		0.972	<0.00424	**0.606**			0.00541		
	MW-2A	Oct-23															
	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-3	Apr-22		**0.0399**	0.0131			<0.00124		0.391	<0.000849	**1.84**			0.00407		
	MW-3	Apr-22	FD	**0.0434**	0.0130			<0.00124		0.398	<0.000849	**1.91**			0.00350		
	MW-3	Oct-22															
	MW-3	Oct-22	FD														
	MW-3	Mar-23		**0.0234**	**2.58**			0.0413		0.186 B	<0.000849	**0.844**			0.0279		
	MW-3	Mar-23	FD	**0.0238**	0.0144			<0.00124		<0.0281	<0.000849	**0.897**			0.0300		
	MW-3	Oct-23															
	MW-3	Oct-23	FD														
	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-4A	Apr-22		**0.101**	0.0124			<0.00124		**1.94**	<0.000849	**1.68**			0.000483 J		
	MW-4A	Oct-22															
	MW-4A	Mar-23		**0.119**	0.0116			<0.00124		**1.92**	<0.000849	**1.75**			0.000492 J		
	MW-4A	Oct-23															
	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-4B	Mar-23		**0.0465**	0.0183			<0.00124		**2.81**	<0.000849	**7.09**			<0.000300		
	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-5A	Apr-22		**0.152**	0.0150			<0.00124		**4.67**	<0.000849	**1.10**			0.000815 J		
	MW-5A	Oct-22															
	MW-5A	Mar-23		**0.0875**	0.0118			<0.00124		**4.80**	<0.000849	**1.48**			0.000738 J		
	MW-5A	Oct-23															
	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-5B	Mar-23		**0.144**	0.0106			0.00786		**4.03**	<0.000849	**3.13**			0.00134 J		
	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-5C	Mar-23		**0.0104**	0.0143			0.00248		0.687	<0.000849	**1.03**			<0.000300		
	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-6A	Apr-22		0.00490	0.0125			0.00158 J		0.493	<0.000849	**0.280**			0.000882 J		
	MW-6A	Mar-23		0.00635	0.0152			<0.00124		0.958	<0.000849	**0.701**			0.000597 J		
	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-6B	Mar-23		**0.0394**	0.0151			<0.00124		**1.70**	<0.000849	**3.05**			<0.000300		
	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-7A	Apr-22		**0.0152**	0.0159			<0.00124		**2.37**	<0.000849	**0.426**			<0.000300		
	MW-7A	Apr-22	FD	**0.0153**	0.0148			<0.00124		**2.29**	<0.000849	**0.439**			<0.000300		
	MW-7A	Oct-22															
	MW-7A	Oct-22	FD														
	MW-7A	Mar-23		**0.0124**	0.0157			0.00157 J		**1.59**	<0.000849	**0.407**			0.000357 J		
	MW-7A	Mar-23	FD	**0.0128**	0.0157			<0.00124		**1.67**	<0.000849	**0.396**			0.000375 J		
	MW-7A	Oct-23															
	MW-7A	Oct-23	FD														
	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-7B	Mar-23		0.00464	0.0128			<0.00124		0.141	<0.000849	**0.659**			<0.000300		
	MW-10	Apr-21		**0.0145**	0.0139 J			<0.00124		<0.0281	<0.000849	**2.71**			<0.000300		
	MW-10	Sep-21															
	MW-10	Apr-22		**0.0129**	0.0129			<0.00124		0.171	<0.000849	**2.20**			<0.000300		
	MW-10	Oct-22															
	MW-10	Mar-23		**0.0136**	0.0139			<0.00124		0.284 B	<0.000849	**1.86**			0.000461 J		
	MW-10	Oct-23															
	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-11A	Apr-22		0.000399 J	0.0241			<0.00124		0.329	<0.000849	**0.256**			<0.000300		
	MW-11A	Oct-22															
	MW-11A	Mar-23		0.000490 J	0.0270			<0.00124		0.286	<0.00424	0.139			<0.000300		
	MW-11A	Oct-23															
	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-11B	Mar-23		0.00376	0.0182			<0.00124		**3.78**	<0.000849	**0.381**			<0.000300		

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Appendix B, Table B.3 - Summary of Groundwater Analytical Data - Dissolved Metals

2023 Annual Groundwater Monitoring Report
HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	Total Metals													
				Analyte	Arsenic	Barium	Boron	Cadmium	Chromium	Cobalt	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Uranium	Vanadium
				CAS	7440-38-2	7440-39-3	7440-42-8	7440-43-9	7440-47-3	7440-48-4	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	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		
	MW-15	Apr-22		**0.0234**	0.0150			<0.00124		<0.0281	<0.000849	0.0321			0.000731 J		
	MW-15	Mar-23		**0.0239**	0.0165			<0.00124		<0.0281	<0.000849	0.0325			0.000955 J		
	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-18A	Apr-22		0.00470	0.0149	**1.87**	<0.000150	<0.00124	0.000273 J	<0.0281	<0.000849	0.0515	<0.000100	0.00907	0.000809 J	0.0232	0.000714 J
	MW-18A	Oct-22															
	MW-18A	Mar-23		0.00481	0.0164	**1.86**	<0.000150	<0.00124	0.000453 J	<0.0281	<0.00424	0.0680	<0.000100	0.0101	0.000690 J	0.0237	0.00121 J
	MW-18A	Oct-23															
	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-18B	Mar-23		0.00912	0.0126			<0.00124		0.0380 J	<0.000849	**1.16**			<0.000300		
	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-22A	Apr-22		**0.0254**	0.0134			<0.00124		0.0552 J	<0.000849	**0.660**			0.00266		
	MW-22A	Apr-22	FD	**0.0253**	0.0138			<0.00124		0.0584 J	<0.000849	**0.655**			0.00261		
	MW-22A	Oct-22															
	MW-22A	Oct-22	FD														
	MW-22A	Mar-23		**0.0316**	0.0172			0.00479		<0.0281	<0.000849	0.0875			0.0239		
	MW-22A	Mar-23	FD	**0.0307**	0.0169			0.00492		<0.0281	<0.00424	0.0893			0.0233		
	MW-22A	Oct-23															
	MW-22A	Oct-23	FD														
	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-22B	Mar-23		**0.0259**	0.0121			<0.00124		**1.56**	<0.000849	**4.58**			0.000763 J		
	MW-70	Apr-21		**0.0166**	0.0155 J			0.00259		<0.0281	<0.000849	0.102			<0.000300		
	MW-70	Sep-21															
	MW-70	Apr-22		**0.0147**	0.0138			<0.00124		0.482	<0.000849	0.190			<0.000300		
	MW-70	Oct-22															
	MW-70	Mar-23		**0.0153**	0.0150			<0.00124		0.202	<0.000849	0.0978			<0.000300		
	MW-70	Oct-23															
	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-72	Apr-22		0.00474	0.0120			<0.00124		0.522	<0.000849	**0.760**			0.00151 J		
	MW-72	Mar-23		0.00448	0.00995			<0.00124		0.368	<0.000849	**0.747**			0.00232		
	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-73	Apr-22		**0.0376**	0.00947			<0.00124		0.858	<0.000849	**0.341**			0.00126 J		
	MW-73	Mar-23		**0.0380**	0.00765			<0.00124		0.632 B	<0.000849	**0.312**			0.00143 J		
	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-74	Apr-22		**0.105**	0.0129			0.00127 J		<0.0281	<0.000849	**2.14**			0.0118		
	MW-74	Oct-22															
	MW-74	Mar-23		**0.0915**	0.0123			<0.00124		<0.0281	<0.000849	**1.88**			0.0105		
	MW-74	Oct-23															
	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-75	Apr-22		**0.0930**	0.0143			<0.00124		0.289	<0.000849	**1.04**			0.00223		
	MW-75	Oct-22															
	MW-75	Mar-23		**0.101**	0.0148			0.00205		0.301 B	<0.000849	**1.20**			0.00243		
	MW-75	Oct-23															
	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-76	Apr-22		**0.0252**	0.0131			<0.00124		**2.24**	<0.000849	**0.742**			0.00109 J		
	MW-76	Oct-22															
	MW-76	Mar-23		**0.0152**	0.0130			<0.00124		**1.17**	<0.000849	**0.709**			0.00102 J		
	MW-76	Oct-23															
	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-77	Apr-22		**0.0230**	0.0166			0.0416		**1.07**	<0.000849	**0.557**			0.0238		
	MW-77	Mar-23		**0.0257**	0.0166			0.0260		**1.50**	<0.000849	**0.590**			0.00967		
	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-78	Apr-22		0.00710	0.0483			**0.143**		0.0706 J	<0.000849	**0.257**			0.00818		
	MW-78	Mar-23		0.00668	0.0454			**0.0994**		0.0379 JB	0.00120 J	0.171			0.00988		
	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-79	Apr-22		0.00410	0.0133			<0.00124		<0.0281	<0.000849	**0.380**			0.00118 J		
	MW-79	Oct-22															
	MW-79	Mar-23		0.00350	0.0140			<0.00124		0.0441 JB	<0.000849	**0.273**			0.00128 J		
	MW-79	Oct-23															
	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-80	Apr-22		0.00174 J	0.0120			<0.00124		0.0560 J	<0.000849	0.125			0.000603 J		
	MW-80	Mar-23		0.00198 J	0.0133			<0.00124		<0.0281	<0.000849	0.0552			0.000996 J		
	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-81	Apr-22		0.00596	0.0134			<0.00124		<0.0281	<0.000849	0.0526			0.0116		
	MW-81	Mar-23		0.00652	0.0133			<0.00124		<0.0281	0.00108 J	0.0208			0.0114		
	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-82	Apr-22		**0.0190**	0.0233			<0.00124		0.103	<0.000849	**2.60**			0.00103 J		
	MW-82	Mar-23		**0.0198**	0.0228			<0.00124		0.122 B	<0.000849	**2.55**			0.000990 J		
	MW-83	Apr-21		**0.0409**	0.0292			0.00287		<0.0281	<0.000849	0.142			0.00445		
	MW-83	Sep-21															
	MW-83	Apr-22		**0.0399**	0.0269			0.00336		0.344	<0.000849	**0.450**			0.00490		
	MW-83	Oct-22															
	MW-83	Mar-23		**0.0488**	0.0203			0.00173 J		<0.0281	<0.000849	**0.414**			0.00875		
	MW-83	Oct-23															
	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-84	Apr-22		**0.0947**	0.0106 B			<0.00620		**1.25**	<0.00424	**2.79**			0.00735 J		
	MW-84	Oct-22															
	MW-84	Mar-23		**0.0907**	0.0122			0.00492		0.513 B	<0.000849	**2.39**			0.00768		
	MW-84	Oct-23															

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Appendix B, Table B.3 - Summary of Groundwater Analytical Data - Dissolved Metals

2023 Annual Groundwater Monitoring Report
HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	Total Metals													
				Analyte	Arsenic	Barium	Boron	Cadmium	Chromium	Cobalt	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Uranium	Vanadium
				CAS	7440-38-2	7440-39-3	7440-42-8	7440-43-9	7440-47-3	7440-48-4	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-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-21		0.00530	0.0158 J			<0.00124		<0.0281	<0.000849	**1.16**			<0.000300		
	MW-87	Sep-21															
	MW-87	Apr-22		0.00430	0.0123			<0.00124		0.0295 J	<0.000849	0.0431			<0.000300		
	MW-87	Oct-22															
	MW-87	Mar-23		0.00458	0.0151			<0.00124		0.0502 J	<0.000849	0.0285			0.000384 J		
	MW-87	Oct-23															
	MW-88	Apr-21		0.00690	0.0117 J			<0.00124		<0.0281	<0.000849	**1.01**			<0.000300		
	MW-88	Sep-21															
	MW-88	Apr-22		0.00661	0.0108			<0.00124		<0.0281	<0.000849	**0.875**			<0.000300		
	MW-88	Oct-22															
	MW-88	Mar-23		0.00823	0.00971			<0.00124		0.0763 JB	<0.000849	**0.913**			<0.000300		
	MW-88	Oct-23															
	MW-120	Apr-21		0.00250	0.0112 J			<0.00124		<0.0281	<0.000849	**1.32**			<0.000300		
	MW-120	Sep-21															
	MW-120	Apr-22		0.00461	0.0112			<0.00124		**4.04**	<0.000849	**1.22**			0.00119 J		
	MW-120	Oct-22															
	MW-120	Mar-23		**0.0181**	0.0115			<0.00124		**2.66**	<0.000849	**1.21**			0.00261		
	MW-120	Oct-23															
	MW-121	Apr-21		**0.0231**	0.0131 J			<0.00124		<0.0281	<0.000849	**1.80**			0.00648		
	MW-121	Sep-21															
	MW-121	Apr-22		**0.0251**	0.00987			<0.00124		0.0354 J	<0.000849	**1.80**			0.00472		
	MW-121	Oct-22															
	MW-121	Mar-23		**0.0241**	0.0152			<0.00124		0.0902 J	<0.000849	**1.97**			0.00513		
	MW-121	Oct-23															
	MW-122	Apr-21		0.000931 J	0.0203			<0.00124		<0.0281	0.00218	0.182			<0.000300		
	MW-122	Sep-21															
	MW-122	Apr-22		0.00158 J	0.0192			<0.00124		0.941	<0.000849	**0.423**			<0.000300		
	MW-122	Oct-22															
	MW-122	Mar-23		0.00211	0.0332			<0.00124		0.697	<0.000849	**1.41**			<0.000300		
	MW-122	Oct-23															
	MW-123	Apr-21		**0.0191**	0.0293			<0.00124		<0.0281	<0.000849	**3.66**			0.000711 J		
	MW-123	Sep-21															
	MW-123	Apr-22		**0.0171**	0.0317			<0.00124		<0.0281	<0.000849	**3.26**			0.000320 J		
	MW-123	Oct-22															
	MW-123	Mar-23		**0.0172**	0.0290			<0.00124		<0.0281	<0.000849	**3.19 V**			<0.000300		
	MW-123	Oct-23															
	MW-124	Apr-21		0.000375 J	0.0164 J			<0.00124		<0.0281	<0.000849	**0.274**			<0.000300		
	MW-124	Sep-21															
	MW-124	Apr-22		0.000872 J	0.0170			<0.00124		**2.29**	<0.000849	**0.553**			<0.000300		
	MW-124	Oct-22															
	MW-124	Mar-23		0.000635 J	0.0164			<0.00124		0.222	<0.000849	**0.298**			<0.000300		
	MW-124	Oct-23															
	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-1R	Apr-22		0.00215	0.0163			<0.00124		0.114	<0.000849	**0.346**			0.000659 J		
	OCD-1R	Oct-22															
	OCD-1R	Mar-23		**0.0209**	0.0259			<0.00124		**8.02**	<0.000849	**2.98**			0.000329 J		
	OCD-1R	Oct-23															
	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-2A	Apr-22		0.00113 J	0.0191			<0.00124		0.866	<0.000849	**0.743**			<0.000300		
	OCD-2A	Oct-22															
	OCD-2A	Mar-23		0.00127 J	0.0240			<0.00124		**1.31**	<0.000849	**0.971**			0.000351 J		
	OCD-2A	Oct-23															
	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-3	Apr-22		0.000735 J	0.0174			<0.00124		<0.0281	<0.000849	0.123			<0.000300		
	OCD-3	Oct-22															
	OCD-3	Mar-23		0.000867 J	0.0224			<0.00124		0.118	<0.000849	**0.365**			<0.000300		
	OCD-3	Oct-23															
	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-4	Apr-22		0.00128 J	0.0214			<0.00124		0.801	<0.000849	0.0890			<0.000300		
	OCD-4	Oct-22															
	OCD-4	Mar-23		0.00120 J	0.0236			<0.00124		0.468	<0.000849	0.0747			<0.000300		
	OCD-4	Oct-23															
	OCD-5	Apr-21		0.00389	0.0234			<0.00124		<0.0281	<0.00424	**0.284**			<0.000300		
	OCD-5	Sep-21															
	OCD-5	Apr-22		0.00672	0.0204 O1			<0.00124		**1.02**	<0.000849	0.152			<0.000300		
	OCD-5	Oct-22															
	OCD-5	Mar-23		0.00759	0.0235			<0.00124		**1.16**	<0.000849	0.183			<0.000300		
	OCD-5	Oct-23															
	OCD-6	Apr-21		0.00605	0.0217			<0.00124		<0.0281	<0.000849	**2.59**			0.000336 J		
	OCD-6	Sep-21															
	OCD-6	Apr-22		0.00553	0.0233			<0.00124		0.224	<0.000849	**2.05**			0.000675 J		
	OCD-6	Oct-22															
	OCD-6	Mar-23		0.00592	0.0230			<0.00124		0.715	<0.00424	**2.30**			0.000795 J		
	OCD-6	Oct-23															
	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-7AR	Apr-22		**0.0639**	0.0140			<0.00124		**5.05**	<0.000849	**2.87**			0.00120 J		
	OCD-7AR	Oct-22															
	OCD-7AR	Mar-23		**0.0384**	0.0128			<0.00124		0.113	<0.00424	**2.80**			0.00126 J		
	OCD-7AR	Oct-23															
	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-7B	Mar-23		0.00222	0.0159			<0.00124		**4.26**	<0.000849	**0.702**			<0.000300		
	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-8A	Apr-22		**0.0400**	0.0169	**1.04**	<0.000150	<0.00124	0.00274	**2.14**	<0.000849	**2.21**	<0.000100	0.0337	0.00118 J	0.00473	0.00287 JB
	OCD-8A	Oct-22															
	OCD-8A	Mar-23		**0.0290**	0.0174	**0.878**	<0.000150	<0.00124	0.00140 J	**1.02**	<0.00424	**1.19**	<0.000100	0.0328	0.00122 J	0.00471 J	0.000846 J
	OCD-8A	Oct-23															
	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		
	OCD-8B	Mar-23		0.00975	0.0137			<0.00124		0.148	<0.000849	**7.48**			0.000345 J		

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2023 Annual Groundwater Monitoring Report
HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	Total Metals													
				Analyte	Arsenic	Barium	Boron	Cadmium	Chromium	Cobalt	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Uranium	Vanadium
				CAS	7440-38-2	7440-39-3	7440-42-8	7440-43-9	7440-47-3	7440-48-4	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-1A	Oct-20																
	KWB-1A	Oct-22																
	KWB-1A	Mar-23		0.00367	0.00914	0.712	<0.000150	<0.00124 J4	0.00644	0.0355 JB	<0.000849	**0.414**	<0.000100	0.00776	<0.000300	0.0103	0.0197	
	KWB-1A	Oct-23																
	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-1C	Mar-23		0.00374	0.00964			<0.00124 J4		<0.0281	<0.000849	**0.435**			<0.000300			
	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-7	Apr-22		0.000458 J	0.0583	0.453	<0.000150	0.00138 J	<0.0000596	0.0382 J	<0.000849	**1.55**	<0.000100	<0.000816	<0.000300	0.000531 J	0.00356 JB	
	KWB-7	Oct-22																
	KWB-7	Mar-23		0.000301 J	0.0644	0.445	<0.000150	<0.00124	<0.0000596	<0.0281	<0.000849	**1.74**	<0.000100	<0.000816	<0.000300	0.000391 J	0.00180 J	
	KWB-7	Oct-23																
	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																
	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	Sep-21																
	KWB-11A	Oct-22																
	KWB-11A	Mar-23		0.00589	0.0321	0.384	<0.000150	<0.00124	0.000265 J	**8.53**	<0.000849	**0.975**	<0.000100	0.00105 J	0.000343 J	0.00560	0.00400 J	
	KWB-11A	Oct-23																
	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-11B	Apr-22		0.000509 J	0.0119	0.0918 J	<0.000150	0.00353	<0.0000596	0.0300 J	<0.000849	0.00142 J	<0.000100	<0.000816	0.00786	0.00908	0.00491 JB	
	KWB-11B	Oct-22																
	KWB-11B	Mar-23		0.00147 J	0.0145	0.120 J	<0.000150	<0.00124	<0.0000596	<0.0281	<0.000849	0.00220 J	<0.000100	<0.000816	0.00636	0.0145	0.00937	
	KWB-11B	Oct-23																
	KWB-12A	Oct-20																
	KWB-12A	Sep-21																
	KWB-12A	Oct-22																
	KWB-12A	Oct-23																
	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-12B	Apr-22		0.00166 J	0.00886	0.640	<0.000150	0.00183 JB	0.000112 J	<0.0281	<0.000849	<0.000704	<0.000100	0.000903 JB	0.00255	0.0263	0.0130	
	KWB-12B	Apr-22	FD	0.00169 J	0.00935			<0.00124		<0.0281	<0.000849	<0.000704			0.00248			
	KWB-12B	Oct-22																
	KWB-12B	Oct-22	FD															
	KWB-12B	Mar-23		0.00192 JB	0.0102	0.639	<0.000150	<0.00124 J4	<0.0000596	<0.0281	<0.000849	<0.000704	<0.000100	<0.000816	0.00260	0.0300	0.0148 B	
	KWB-12B	Mar-23	FD	0.00183 JB	0.0103	0.628	<0.000150	<0.00124 J4	<0.0000596	<0.0281	<0.000849	<0.000704	<0.000100	<0.000816	0.00268	0.0293	0.0146 B	
	KWB-12B	Oct-23																
	KWB-12B	Oct-23	FD															
	KWB-P4	Apr-17																
	KWB-P4	Apr-19																
	KWB-P4	Apr-21																
	KWB-P4	Mar-23																
	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-57	Apr-22		0.00602	0.0148			<0.00124		0.0715 J	<0.000849	**0.500**			0.00952			
	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-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-113	Apr-22		0.000670 J	0.0353			<0.00124		**1.17**	<0.000849	**1.41**			<0.000300			
	MW-113	Apr-22	FD	0.000770 J	0.0350			<0.00124		**1.13**	<0.000849	**1.36**			<0.000300			
	MW-113	Oct-22																
	MW-113	Oct-22	FD															
	MW-113	Mar-23		0.000375 J	0.0521			<0.00124		0.466	<0.000849	**0.928**			<0.000300			
	MW-113	Mar-23	FD	0.000252 J	0.0500			<0.00124		0.450	<0.000849	**0.897**			0.000560 J			
	MW-113	Oct-23																
	MW-113	Oct-23	FD															
	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-125	Apr-22		0.00371	0.00942			0.00129 J		<0.0281	<0.000849	**0.411**			0.000765 J			
	MW-125	Oct-22																
	MW-125	Mar-23		0.00348	0.00912	0.450	<0.000150	<0.00124	0.00552	<0.0281	<0.000849	**0.377**	<0.000100	0.00811	0.000817 J	**0.0343**	0.0174	
	MW-125	Oct-23																
	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-21		0.00385	0.00918 J			<0.00124		<0.0281	<0.000849	0.0532			0.00204			
	MW-126B	Sep-21																
	MW-126B	Apr-22		0.00382	0.0107			<0.00124		0.119	<0.000849	0.0590			0.00291			
	MW-126B	Oct-22																
	MW-126B	Mar-23		0.00416	0.00929			<0.00124 J4		<0.0281	<0.000849	0.0538			0.00281			
	MW-126B	Oct-23																
	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-15		**0.0279**	0.536			<0.000540		**4.93**	<0.000240	**1.11**			<0.000380			
	MW-129	Oct-15																
	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			

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Appendix B, Table B.3 - Summary of Groundwater Analytical Data - Dissolved Metals

2023 Annual Groundwater Monitoring Report
HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	Total Metals													
				Analyte	Arsenic	Barium	Boron	Cadmium	Chromium	Cobalt	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Uranium	Vanadium
				CAS	7440-38-2	7440-39-3	7440-42-8	7440-43-9	7440-47-3	7440-48-4	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															
Field East of Refinery	MW-130	Apr-21		0.00328	0.0193 J			<0.00124		<0.0281	<0.000849	0.0986			0.00728		
	MW-130	Sep-21															
	MW-130	Apr-22		0.00381	0.0152			<0.00124		0.0540 J	<0.000849	0.101			0.00305		
	MW-130	Oct-22															
	MW-130	Mar-23		0.00375	0.0173			<0.00124		<0.0281	<0.000849	0.0935			0.00289		
	MW-130	Oct-23															
	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		
	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-134	Apr-22		0.00367	0.00894			0.00178 J		<0.0281	<0.000849	0.00782			0.00507		
	MW-134	Apr-22	FD	0.00353	0.00932			<0.00124		<0.0281	<0.000849	0.00713			0.00512		
	MW-134	Oct-22															
	MW-134	Oct-22	FD														
	MW-134	Mar-23		0.00403	0.00986			<0.00124		0.0469 J	<0.000849	0.192			0.00387		
	MW-134	Mar-23	FD	0.00404	0.0100			<0.00124		0.0493 J	<0.000849	0.196			0.00352		
	MW-134	Oct-23															
	MW-134	Oct-23	FD														
	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-135	Apr-22		0.00281	0.00744			<0.00124		<0.0281	<0.000849	<0.000704			0.0221		
	MW-135	Oct-22															
	MW-135	Mar-23		0.00288	0.00664			<0.00124		<0.0281	<0.000849	<0.000704			0.0231		
	MW-135	Oct-23															
	MW-145	Apr-21		0.00374	0.00948 J			<0.00124		<0.0281	<0.000849	0.0245			0.00385		
	MW-145	Sep-21															
	MW-145	Apr-22		0.00361	0.00989			<0.00124		0.0557 J	<0.000849	0.0245			0.00284		
	MW-145	Oct-22															
	MW-145	Mar-23		0.00342	0.00861			<0.00124		<0.0281	0.00113 J	0.0250			0.00243		
	MW-145	Oct-23															
	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-146	Apr-22		0.00407	0.00859			0.00155 JB		0.0468 J	<0.000849	<0.000704			0.00674		
	MW-146	Apr-22	FD	0.00400	0.00990			<0.00124		0.0893 J	<0.000849	0.00175 J			0.00645		
	MW-146	Oct-22															
	MW-146	Oct-22	FD														
	MW-146	Mar-23		0.00428	0.00776			<0.00124		<0.0281	<0.000849	0.000794 J			0.00670		
	MW-146	Mar-23	FD	0.00420	0.00804			<0.00124		<0.0281	<0.000849	<0.000704			0.00637		
	MW-146	Oct-23															
	MW-146	Oct-23	FD														
	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-147	Apr-22		0.00256	0.00814			<0.00124		<0.0281	<0.000849	0.00179 J			0.0168		
	MW-147	Oct-22															
	MW-147	Mar-23		0.00262	0.00777			<0.00124		<0.0281	<0.000849	<0.000704			0.0182		
	MW-147	Oct-23															
	MW-148	Apr-21		0.00236	0.00946 J			<0.00124		<0.0281	<0.000849	0.00290 J			0.0104		
	MW-148	Sep-21															
	MW-148	Apr-22		0.00263	0.0108			0.00178 JB		0.0520 J	<0.000849	0.00382 J			0.0100		
	MW-148	Oct-22															
	MW-148	Mar-23		0.00297	0.0102			<0.00124		<0.0281	0.000858 J	0.000780 J			0.0134		
	MW-148	Oct-23															
	RA-4196	Jun-20															
	RA-4196	Oct-20															
	RA-4196R	Mar-23															
	RA-4196R	Oct-23															
	RA-4798	Oct-20															
	RA-4798	Apr-21															
	RA-4798	Sep-21															
	RA-4798	Apr-22															
	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-18		<0.00125	0.0490			<0.00270		0.352 J	<0.00120	**1.03**			<0.00190		
	RW-13R	Mar-23		0.00117 J	0.188			0.00150 J		0.0316 J	0.00188 J	**0.824**			<0.000300		
	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-18A	Mar-23		0.00268	0.0127	0.581	<0.000150	<0.00124	0.000193 J	<0.0281	<0.000849	0.00355 J	<0.000100	0.00102 J	0.00770	**0.0596**	0.0189
	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	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-18	Apr-22		0.00274	0.0117	**2.17**	<0.000150	<0.00124	<0.0000596	<0.0281	<0.000849	0.0178	<0.000100	0.00189 J	0.00410	**0.0433**	0.0190
	MW-18	Mar-23		0.00287	0.0137	**1.82**	<0.000150	<0.00124	0.0000811 J	<0.0281	0.00288	0.00294 J	<0.000100	0.00141 J	0.00486	**0.0405**	0.0176
	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-45	Apr-22		0.00388	0.0127	0.571	<0.000150	<0.00124	0.000303 J	0.876	<0.000849	**0.620**	<0.000100	0.00733 B	0.000368 J	0.000739 J	0.00139 JB
	MW-45	Oct-22															
	MW-45	Mar-23		0.00660	0.0135	0.584	<0.000150	<0.00124	<0.0000596	**4.21**	<0.000849	**0.607**	<0.000100	0.00491	0.000515 J	0.000476 J	<0.000664
	MW-45	Oct-23															
	MW-53	Apr-15		0.00167 J	0.0212			<0.000540		<0.0150	<0.000240	**0.797**			0.00627		
	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-53R	Apr-22		0.00179 J	0.0186			<0.00124		<0.0281	<0.000849	**0.455**			<0.000300		
	MW-53R	Mar-23		0.00172 J	0.0177			<0.00124		0.0985 JB	<0.000849	**0.374**			0.000312 J		
	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-54A	Apr-22		0.00414	0.0158			<0.00124		0.0670 J	<0.000849	**0.784**			0.000356 J		
	MW-54A	Oct-22															
	MW-54A	Mar-23		0.00259	0.0151			<0.00124		<0.0281	<0.000849	**0.576**			0.00102 J		
	MW-54A	Oct-23															

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Appendix B, Table B.3 - Summary of Groundwater Analytical Data - Dissolved Metals

2023 Annual Groundwater Monitoring Report
HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	Total Metals													
				Analyte	Arsenic	Barium	Boron	Cadmium	Chromium	Cobalt	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Uranium	Vanadium
				CAS	7440-38-2	7440-39-3	7440-42-8	7440-43-9	7440-47-3	7440-48-4	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	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-54B	Mar-23		0.00175 J	0.0230			<0.00124		<0.0281	<0.000849	**1.15**			0.000985 J			
	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-55	Apr-22		0.00679	0.0158	0.555	0.000499 J	<0.00124	0.000849 J	<0.0281	<0.000849	**0.206**	<0.000100	0.00603	0.00174 J	0.0188	0.0182	
	MW-55	Oct-22																
	MW-55	Mar-23		0.00635	0.0152	0.549	<0.000150	<0.00124	0.000320 J	<0.0281	<0.000849	**0.211**	<0.000100	0.00627	0.00136 J	0.0198	0.0173	
	MW-55	Oct-23																
	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-56	Apr-22		0.00541	0.00912			0.00155 J		<0.0281	<0.000849	**0.207**			0.00135 J			
	MW-56	Mar-23		0.00483	0.00966	0.174 J	<0.000150	<0.00124	0.00428	<0.0281	<0.000849	0.167	<0.000100	0.00575	0.00367	0.00821	0.0191	
	MW-108	Apr-21		0.00113 J	0.0658			<0.00124		0.111	<0.000849	**0.238**			<0.000300			
	MW-108	Sep-21																
	MW-108	Apr-22		0.000635 J	0.0451			<0.00124		<0.0281	<0.000849	0.0409			<0.000300			
	MW-108	Oct-22																
	MW-108	Mar-23		0.00110 J	0.0467			0.00143 J		<0.0281	<0.000849	0.0379			<0.000300			
	MW-108	Oct-23																
	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-31	Apr-22		**0.0115**	0.0153			<0.00124		0.503	0.00224	**1.56**			0.000671 J			
	NCL-31	Oct-22																
	NCL-31	Mar-23		0.00781	0.0159			<0.00124		0.210 B	<0.000849	**1.49**			<0.000300			
	NCL-31	Oct-23																
	NCL-32	Apr-21		0.00191 J	0.0141 J			<0.00124		<0.0281	<0.000849	**1.55**			0.00214			
	NCL-32	Sep-21																
	NCL-32	Apr-22		0.00284	0.0159			<0.00124		<0.0281	<0.000849	**1.35**			0.00279			
	NCL-32	Oct-22																
	NCL-32	Mar-23		0.00258	0.0160			0.00148 J		<0.0281	0.00111 J	**1.83**			0.00115 J			
	NCL-32	Oct-23																
	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-33	Apr-22		0.00575	0.0199			<0.00124		**2.85**	<0.000849	0.157			0.00128 J			
	NCL-33	Oct-22																
	NCL-33	Mar-23		0.00463	0.0183			0.00131 J		0.506 B	<0.000849	0.147			0.00129 J			
	NCL-33	Oct-23																
	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-21		**0.0125**	0.0176 J			<0.00124		<0.0281	<0.000849	**0.732**			<0.000300			
	NCL-44	Sep-21																
	NCL-44	Apr-22		**0.0168**	0.0180			<0.00124		0.660	<0.000849	**0.794**			<0.000300			
	NCL-44	Oct-22																
	NCL-44	Mar-23		0.00691	0.0165			<0.00124		0.319 B	<0.000849	**0.702**			<0.000300			
	NCL-44	Oct-23																
	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															
	NCL-49	Apr-22		0.00149 J	0.0121			<0.00124		0.0413 J	<0.000849	0.00126 J			0.0103			
	NCL-49	Apr-22	FD	0.00146 J	0.0113			<0.00124		<0.0281	<0.000849	<0.000704			0.0108			
	NCL-49	Oct-22																
	NCL-49	Oct-22	FD															
	NCL-49	Mar-23		0.00141 J	0.0126			<0.00124		<0.0281	<0.000849	<0.000704			0.0145			
	NCL-49	Mar-23	FD	0.00154 J	0.0134			<0.00124		<0.0281	<0.000849	<0.000704			0.0162			
	NCL-49	Oct-23																
	NCL-49	Oct-23	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-21		**0.0165**	0.0204			<0.00124		0.217	<0.000849	**0.456**			0.00192 J			
	MW-29	Sep-21																
	MW-29	Apr-22		0.00923	0.0189			<0.00124		0.373	<0.000849	**0.381**			0.00397			
	MW-29	Oct-22																
	MW-29	Mar-23		**0.0344**	0.0198	**0.830**	<0.000150	<0.00124	0.000855 J	**10.9**	<0.000849	**0.773**	<0.000100	0.00689	0.00205	0.00878	0.00679	
	MW-29	Oct-23																
	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-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-42	Apr-22		0.00753	0.0194			<0.00124		0.247	<0.000849	0.195			0.000334 J			
	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	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-21		0.00413	0.0451			<0.00124		<0.0281	0.00204	0.0239			<0.000300			
	MW-61	Sep-21																
	MW-61	Apr-22		0.00281	0.0531			0.00253		<0.0281	0.00372	0.0270			<0.000300			
	MW-61	Oct-22																
	MW-61	Mar-23		0.00270 B	0.0900			<0.00124 J4		0.0726 JB	<0.000849	**0.867**			0.000504 J			
	MW-61	Oct-23																

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Appendix B, Table B.3 - Summary of Groundwater Analytical Data - Dissolved Metals

2023 Annual Groundwater Monitoring Report
HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	Total Metals													
				Analyte	Arsenic	Barium	Boron	Cadmium	Chromium	Cobalt	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Uranium	Vanadium
				CAS	7440-38-2	7440-39-3	7440-42-8	7440-43-9	7440-47-3	7440-48-4	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															
North Refinery	MW-62	Oct-20																
	MW-62	Sep-21																
	MW-62	Apr-22		**0.0543**	0.0386			0.00129 J		0.0360 J	<0.000849	0.00600			0.000409 J			
	MW-62	Oct-22																
	MW-62R	Apr-21		**0.0593**	**3.66**			<0.00124		0.0788 J	<0.000849	**0.232**			<0.000300			
	MW-62R	Apr-22		**0.0941**	0.793			<0.00124		<0.0281	<0.000849	0.00696			<0.000300			
	MW-62R	Mar-23		0.00231 B	0.0475			<0.00124 J4		<0.0281	0.00244	0.0302			0.000302 J			
	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-21		0.00744	0.0167 J			<0.00124		<0.0281	<0.000849	0.101			0.000531 J			
	MW-90	Sep-21																
	MW-90	Apr-22		0.00577	0.0255			0.00128 J		0.0389 J	<0.000849	0.0451			0.000568 J			
	MW-90	Oct-22																
	MW-90	Mar-23		0.00486	0.0195			<0.00124		<0.0281	<0.000849	0.0630			0.000579 J			
	MW-90	Oct-23																
	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-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	Nov-14																
	MW-94	Oct-15																
	MW-94	Apr-17		**0.0106**	0.771			0.00124 J		<0.0150	0.000343 J	0.00235 J			0.00973			
	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	Sep-21																
	MW-96	Apr-22		0.00208	0.279			<0.00124		<0.0281	<0.000849	0.00152 J			0.000351 J			
	MW-96	Oct-22																
	MW-96	Mar-23		0.00178 J	0.326			<0.00124		0.180 B	<0.000849	0.00269 J			0.000490 J			
	MW-96	Oct-23																
	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-98	Apr-22		0.00142 J	0.0159			0.00185 JB		<0.0281	0.00501	0.0127			0.000321 J			
	MW-98	Oct-22																
	MW-98	Mar-23		0.000773 J	0.0158			<0.00124		<0.0281	0.00489	0.0127			0.000956 J			
	MW-98	Oct-23																
	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-1	Apr-15		0.00426	0.0301			0.00131 J		0.0744 J	0.000323 J	0.118			0.00136 J			
	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-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-2	Mar-23		**0.0502**	0.354			<0.00124 J4		<0.0281	<0.000849	0.0103			<0.000300			
	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	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-9	Apr-22		0.00487	0.0310			<0.00124		<0.0281	<0.000849	**0.311**			0.000330 J			
	RW-9	Mar-23		0.00478	0.0365			0.00159 J		<0.0281	<0.000849	**0.301**			0.00128 J			
	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-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-16B	Mar-23		**0.0245**	0.0281			0.00155 J		0.0290 JB	0.000964 J	**0.768**			0.00576			
	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			
	RW-17A	Mar-23		0.00779	0.0223			<0.00124		<0.0281	0.00819	**1.72**			0.00477			
North RO Field	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-117	Apr-22		0.00353	0.00961			<0.00124		<0.0281	<0.000849	0.00305 J			0.00676			
	MW-117	Oct-22																
	MW-117	Mar-23		0.00298	0.0105	0.332	<0.000150	<0.00124	0.000929 J	<0.0281	<0.000849	0.00403 J	<0.000100 J6	0.00386	0.00471	0.0114	0.0162	
	MW-117	Oct-23																
	MW-118	Apr-21		0.00732	0.0103 J			<0.00124		<0.0281	<0.000849	<0.000704			0.0133			
	MW-118	Sep-21																
	MW-118	Apr-22		0.00614	0.00971			<0.00124		0.0339 J	<0.000849	<0.000704			0.0137			
	MW-118	Oct-22																
	MW-118	Mar-23		0.00622	0.0144	0.648	<0.000150	<0.00124	0.000206 J	0.0528 J	<0.000849	0.0526	<0.000100	0.00258	0.0115	**0.0506**	0.0325	
	MW-118	Oct-23																
	MW-119	Apr-21		0.00435	0.00901 J			<0.00124		<0.0281	<0.000849	0.00426 J			0.00488			
	MW-119	Sep-21																
	MW-119	Apr-22		0.00393	0.00896			<0.00124		<0.0281	<0.000849	0.00231 J			0.00532			
	MW-119	Oct-22																
	MW-119	Mar-23		0.00423	0.00937	0.507	<0.000150	<0.00124 J4	0.0000884 J	<0.0281	<0.000849	0.00280 J	<0.000100	0.00136 J	0.00510	**0.0480 O1**	0.0203	
	MW-119	Oct-23																

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Appendix B, Table B.3 - Summary of Groundwater Analytical Data - Dissolved Metals

2023 Annual Groundwater Monitoring Report
HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	Total Metals													
				Analyte	Arsenic	Barium	Boron	Cadmium	Chromium	Cobalt	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Uranium	Vanadium
				CAS	7440-38-2	7440-39-3	7440-42-8	7440-43-9	7440-47-3	7440-48-4	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**															
North RO Field	MW-140	Mar-23			0.00335	0.0126	0.561	<0.000150	0.00132 J	0.000179 J	<0.0281	<0.000849	0.0186	<0.000100	0.00698	0.00541	**0.0403**	0.0148
	MW-140	Oct-23																
	MW-141	Mar-23			0.00246	0.0107	0.217	<0.000150	<0.00124	0.000332 J	<0.0281	<0.000849	0.00247 J	<0.000100	0.00141 J	0.00337	0.0240	0.0134
	MW-141	Oct-23																
	MW-142	Mar-23			0.00380	0.00958	0.450	<0.000150	<0.00124	0.000136 J	<0.0281	<0.000849	0.0209	<0.000100	0.00286	0.00500	**0.0460**	0.0209
	MW-142	Oct-23																
	MW-143	Mar-23			0.00391	0.00826	**0.847**	<0.000150	<0.00124	0.000654 J	<0.0281	<0.000849	0.0225	<0.000100	0.00371	0.00133 J	**0.0490**	0.0224
	MW-143	Oct-23																
South Refinery	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-2R	Mar-23			0.00271 B	0.0440			<0.00124 J4		0.178 B	0.00120 J	**0.625**			<0.000300		
	KWB-2R	Oct-23																
	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-21			0.00582	0.0143 J			0.0376		0.182	<0.000849	**0.903**			0.000453 J		
	MW-50	Sep-21																
	MW-50	Apr-22			0.00327	0.0111			<0.00124		0.101	<0.000849	**0.516**			0.0135		
	MW-50	Oct-22																
	MW-50	Mar-23			0.00370	0.0130			<0.00124		0.0966 JB	<0.000849	**0.685**			0.0325		
	MW-50	Oct-23																
	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																
	MW-52	Apr-22			0.00365	0.0110	**0.771**	<0.000150	<0.00124	0.000885 J	<0.0281	<0.000849	0.0703	<0.000100	0.0444	0.00316	0.00941	0.0280
	MW-52	Oct-22																
	MW-52	Mar-23			0.00375	0.0122	**0.759**	<0.000150	<0.00124	0.000934 J	<0.0281	<0.000849	0.0685	<0.000100	0.0356	0.00332	0.0120	0.0257
	MW-52	Oct-23																
	MW-64	Apr-21			**0.0247**	1.98			<0.00124		0.0507 J	<0.000849	0.119			<0.000300		
	MW-64	Sep-21																
	MW-64	Apr-22			**0.0252**	**2.29**			<0.00124		<0.0281	0.000880 J	0.0616			<0.000300		
	MW-64	Oct-22																
	MW-64	Mar-23			**0.0249**	**2.37**			<0.00124 J4		<0.0281	<0.000849	0.0573			0.000436 J		
	MW-64	Oct-23																
	MW-65	Apr-19			0.00653	1.71			<0.000540		0.0315 J	<0.000240	**0.456**			<0.000380		
	MW-65	Oct-19																
	MW-65	Mar-23			**0.0475**	1.43			<0.00124		0.0486 J	<0.000849	**0.522**			0.000726 J		
	MW-65	Oct-23																
	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-21			0.00275	0.164			<0.00124		0.0411 J	<0.000849	**0.687**			<0.000300		
	MW-101	Sep-21																
	MW-101	Apr-22			0.00357	0.120			<0.00124		0.0855 JB	<0.000849	**0.634**			<0.000300		
	MW-101	Oct-22																
	MW-101	Mar-23			0.00867	0.191			<0.00124 J4		<0.0281	<0.000849	**0.474**			<0.000300		
	MW-101	Oct-23																
	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-102	Apr-22			**0.0164**	**2.52**			0.00157 J		0.0893 J	0.00360	0.0464			<0.000300		
	MW-102	Apr-22	FD		**0.0159**	**2.52**			<0.00124		<0.0281	0.00372	0.0447			<0.000300		
	MW-102	Oct-22																
	MW-102	Oct-22	FD															
	MW-102	Mar-23			**0.0153**	0.316			<0.00124		<0.0281	0.00269	0.0179			0.00127 J		
	MW-102	Mar-23	FD		**0.0146**	0.293			0.00136 J		<0.0281	0.00305	0.0172			0.00123 J		
	MW-102	Oct-23																
	MW-102	Oct-23	FD															
	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-103	Apr-22			0.00218	1.67			0.00143 J		0.0343 J	0.000864 J	0.00373 J			<0.000300		
	MW-103	Mar-23			0.00204 B	0.440			<0.00124 J4		<0.0281	<0.000849	0.00158 J			<0.000300		
	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-104	Apr-22			0.00208	0.0192			0.00191 J		0.0289 J	<0.000849	0.0180			<0.000300		
	MW-104	Oct-22																
	MW-104	Mar-23			0.00204 B	0.0237			<0.00124 J4		<0.0281	<0.000849	0.0127			<0.000300		
	MW-104	Oct-23																
	MW-105	Apr-21			0.00629	0.160			0.00214 B		**1.16**	<0.000849	**0.597**			0.000310 J		
	MW-105	Apr-22			**0.0132**	0.0731			0.00291		0.0611 JB	<0.000849	0.0530			<0.000300		
	MW-105	Oct-22																
	MW-105	Mar-23			0.00778	0.275			0.00165 JJ4		<0.0281	<0.000849	0.151			0.000310 J		
	MW-105	Oct-23																
	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-106	Oct-23																
	MW-107	Oct-15																
	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-21			0.00281	0.179			<0.00124		<0.0281	<0.000849	0.0688			<0.000300		
	MW-109	Sep-21																
	MW-109	Apr-22			0.00179 J	0.0793			0.00174 J		0.0300 J	0.00116 J	0.0647			<0.000300		
	MW-109	Oct-22																
	MW-109	Mar-23			0.00413	0.0736			<0.00124		0.0728 J	<0.000849	0.147			<0.000300		
	MW-109	Oct-23																

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Appendix B, Table B.3 - Summary of Groundwater Analytical Data - Dissolved Metals

2023 Annual Groundwater Monitoring Report
HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	Total Metals													
				Analyte	Arsenic	Barium	Boron	Cadmium	Chromium	Cobalt	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Uranium	Vanadium
				CAS	7440-38-2	7440-39-3	7440-42-8	7440-43-9	7440-47-3	7440-48-4	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-110	Apr-21		**0.0344**	0.0465			<0.00124		<0.0281	<0.000849	**2.03**			<0.000300		
	MW-110	Sep-21															
	MW-110	Apr-22		0.00189 J	0.0610			<0.00124		0.0948 J	0.000872 J	**0.594**			<0.000300		
	MW-110	Oct-22															
	MW-110	Mar-23		**0.0360**	0.0532			<0.00124		**1.07**	<0.000849	**2.28**			<0.000300		
	MW-110	Oct-23															
	MW-139	Apr-21		0.00983	0.0329			<0.00124		0.177	0.00924	**2.27**			0.000314 J		
	MW-139	Sep-21															
	MW-139	Apr-22		0.00756	0.0278			<0.00124		0.566	<0.000849	**1.70**			<0.000300		
	MW-139	Oct-22															
	MW-139	Mar-23		**0.0107**	0.0258			<0.00124		0.625	<0.000849	**1.91**			<0.000300		
	MW-139	Oct-23															
	RA-313	Jun-20															
	RA-313	Apr-21															
	RA-313	Apr-22															
	RA-313	Mar-23															
	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-4	Apr-22		0.00546	0.0788			0.00358		0.0596 J	0.00174 J	0.195			<0.000300		
	RW-4	Mar-23		0.00451	0.0693			<0.00124		<0.0281	<0.000849	0.180			<0.000300		
	RW-5R	Apr-15		0.00136 J	0.0275			<0.000540		0.0247 J	<0.000240	0.0167			<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-6	Mar-23		**0.0325**	0.161			0.00172 J		<0.0281	<0.000849	0.185			0.000426 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-21		0.00460	0.0131 J			<0.00124		<0.0281	<0.000849	**0.889**			0.00325		
	MW-114	Sep-21															
	MW-114	Apr-22		0.00388	0.0130			<0.00124		<0.0281	<0.000849	**0.746**			0.000549 J		
	MW-114	Oct-22															
	MW-114	Mar-23		0.00205	0.0139	0.0358 J	<0.000150	<0.00124	0.00178 J	<0.0281	<0.000849	**0.372**	<0.000100	0.00191 J	0.00239	0.00348	0.00556
	MW-114	Oct-23															
	MW-115	Apr-21		0.00407	0.00866 J			<0.00124		<0.0281	<0.000849	0.0444			0.00927		
	MW-115	Sep-21															
	MW-115	Apr-22		0.00458	0.00859			<0.00124		<0.0281	<0.000849	0.0405			0.00620		
	MW-115	Oct-22															
	MW-115	Mar-23		0.00469	0.0103	0.694	<0.000150	<0.00124	0.000155 J	<0.0281	<0.000849	0.0246	<0.000100	0.00479	0.00386	**0.0545**	0.0266
	MW-115	Oct-23															
	MW-116	Apr-21		0.00311	0.00975 J			<0.00124		<0.0281	<0.000849	0.0105			0.00608		
	MW-116	Sep-21															
	MW-116	Apr-22		0.00283	0.00882			0.00160 JB		<0.0281	<0.000849	0.0308			0.00557		
	MW-116	Oct-22															
	MW-116	Mar-23		0.00245	0.00951	0.244	<0.000150	<0.00124	0.00273	<0.0281	<0.000849	0.0832	<0.000100	0.00228	0.00509	**0.0336**	0.0133
	MW-144	Mar-23		0.00426	0.0110	0.428	<0.000150	<0.00124	0.000567 J	<0.0281	<0.000849	0.0123	<0.000100	0.00120 J	0.00864	**0.0350**	0.0161
	MW-144	Oct-23															
TEL	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															
	MW-49	Apr-22		0.00463	0.0480	0.714	<0.000150	0.00247	<0.0000596	0.0644 JB	<0.000849	0.189	<0.000100	0.00954 B	<0.000300	<0.0000789	0.00165 JB
	MW-49	Oct-22															
	MW-49	Mar-23		0.00414	0.0685	0.729	<0.000150	<0.00124	<0.0000596	0.0367 JB	<0.000849	0.145	<0.000100	0.00948	<0.000300	<0.0000789	0.00124 JB
	MW-49	Oct-23															
	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-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														
	TEL-4	Apr-22		0.00460	0.0121			0.0149		0.0545 J	<0.000849	**0.776**			<0.000300		
	TEL-4	Apr-22	FD	0.00437	0.0129			0.0157		0.0544 J	<0.000849	**0.776**			<0.000300		
	TEL-4	Oct-22															
	TEL-4	Oct-22	FD														
	TEL-4	Mar-23		0.00359	0.0174			0.0317		0.104	<0.000849	**0.936**			0.00114 J		
	TEL-4	Mar-23	FD	0.00389	0.0177			0.0301		0.121 B	<0.000849	**0.939**			0.000440 J		
	TEL-4	Oct-23															
	TEL-4	Oct-23	FD														
Three Mile Ditch	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-8	Apr-22		0.00541	0.0129			<0.00124		<0.0281	<0.000849	**0.318**			**0.0742**		
	MW-8	Mar-23		0.00624	0.0132			<0.00124		<0.0281	<0.000849	**0.283**			**0.0641**		
	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-16	Apr-22		0.00466	0.0140			<0.00124		<0.0281	<0.000849	0.00868			0.00805		
	MW-16	Mar-23		0.00570	0.0133			<0.00124		<0.0281	<0.000849	0.00835			0.0283		
	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-20	Apr-22		0.00507	0.0106			0.0106		0.0305 J	<0.000849	<0.000704			0.0105		
	MW-20	Mar-23		0.00486	0.0119			<0.00124		<0.0281	<0.000849	<0.000704			0.0174		
	MW-21	Apr-21		0.00562	0.0108 J			<0.00124		<0.0281	<0.000849	0.0402			0.0346		
	MW-21	Sep-21															
	MW-21	Apr-22		0.00488	0.00851			<0.00124		<0.0281	<0.000849	0.0524			0.0478		
	MW-21	Oct-22															
	MW-21	Mar-23		0.00537	0.00837			<0.00124		<0.0281	<0.000849	0.147			0.0392		
	MW-21	Oct-23															
	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-25	Apr-22		0.00356	0.0309			<0.00124		<0.0281	<0.000849	**0.870**			<0.000300		
	MW-25	Mar-23		0.00399	0.0353			<0.00124		<0.0281	<0.000849	**0.786**			0.000551 J		
	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-26	Apr-22		0.00283	0.00829			<0.00124		<0.0281	<0.000849	**0.205**			0.0159		
	MW-26	Mar-23		0.00322	0.00878			<0.00124		<0.0281	<0.000849	0.0761			0.0171		

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Appendix B, Table B.3 - Summary of Groundwater Analytical Data - Dissolved Metals

2023 Annual Groundwater Monitoring Report
HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	Total Metals													
				Analyte	Arsenic	Barium	Boron	Cadmium	Chromium	Cobalt	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Uranium	Vanadium
				CAS	7440-38-2	7440-39-3	7440-42-8	7440-43-9	7440-47-3	7440-48-4	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	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-27	Apr-22		0.00202	0.0179			<0.00124		<0.0281	<0.000849	0.00377 J			0.0160		
	MW-27	Mar-23		0.00231	0.0180			<0.00124		<0.0281	<0.000849	0.00291 J			0.0215		
	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-46R	Apr-22		0.00237	0.0109			<0.00124		0.116	0.000900 J	0.0453			0.0349		
	MW-46R	Oct-22															
	MW-46R	Mar-23		0.00257	0.0122			<0.00124		<0.0281	<0.000849	0.00525			0.0145		
	MW-46R	Oct-23															
	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-68	Apr-22		0.00226	0.0119			<0.00124		<0.0281	<0.000849	<0.000704			0.0229		
	MW-68	Mar-23		0.00285	0.0129			<0.00124		<0.0281	<0.000849	0.000866 J			0.0234		
	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-71	Apr-22		0.00326	0.00808	0.643	<0.000150	<0.00124	0.0000942 J	<0.0281	<0.000849	<0.000704	<0.000100	0.00130 J	0.0241	**0.0647**	0.0229
	MW-71	Mar-23		0.00372	0.00809	0.637	<0.000150	<0.00124	0.000111 J	<0.0281	<0.000849	<0.000704	<0.000100	<0.000816	0.0230	**0.0694**	0.0248
	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		
	MW-89	Apr-22		0.00959	0.0132			<0.00124		<0.0281	<0.000849	0.197			0.00407		
	MW-89	Mar-23		0.00848	0.0133			<0.00124		<0.0281	<0.000849	**0.464**			0.00346		
	NP-1	Apr-21															
	NP-1	Sep-21															
	NP-1	Apr-22															
	NP-1	Oct-22															
	NP-1	Mar-23															
	NP-1	Oct-23															
	NP-6	Apr-17															
	NP-6	Apr-19															
	NP-6	Apr-21															
	NP-6	Mar-23															
Upgradient	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-1	Apr-22		0.00151 J	0.0136	0.718	<0.000150	<0.00124	0.000110 J	<0.0281	<0.000849	<0.000704	<0.000100	0.00135 J	0.0130	**0.0442**	0.0148
	UG-1	Mar-23		0.00123 J	0.0118	0.740	<0.000150	<0.00124	0.0000764 J	<0.0281	<0.000849	<0.000704	<0.000100	<0.000816	0.0135	**0.0398**	0.0126
	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
	UG-2	Apr-22		0.00253	0.0156	0.267	<0.000150	<0.00124	0.0000840 J	<0.0281	<0.000849	0.00188 J	<0.000100	0.00272	0.00581	0.0158	0.0200
	UG-2	Mar-23		0.00218	0.0137	0.264	<0.000150	<0.00124	<0.0000596	0.0616 J	<0.000849	<0.000704	<0.000100	0.00162 J	0.00523	0.0145	0.0201
	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-3R	Apr-22		0.00145 J	0.0197	0.182 J	<0.000150	<0.00124	0.000106 J	<0.0281	<0.000849	0.00149 J	<0.000100	0.00235	0.00448	0.0278	0.00995
	UG-3R	Mar-23		0.00122 J	0.0245	0.157 J	<0.000150	0.00130 J	0.000122 J	0.198	0.000862 J	0.000805 J	<0.000100	0.00134 J	0.00548	0.0192	0.00874
	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
	UG-4	Apr-22		0.00137 J	0.0188	0.738	<0.000150	<0.00124	0.000263 J	0.0356 J	<0.000849	0.00322 J	<0.000100	0.00137 J	0.0134	**0.0324**	0.00878
	UG-4	Mar-23		0.00114 J	0.0175	**1.21**	<0.000150	<0.00124	0.0000832 J	<0.0281	<0.000849	0.00162 J	<0.000100	0.00189 J	0.00852	**0.0420**	0.00667

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, November 2022, 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.
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.

Note - Irrigation well RA-4196R was installed in June 2022 to replace both irrigation wells RA-4196 and RA-4798 which were plugged and abandoned in April 2023.

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Appendix B, Table B.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2023 Annual Groundwater Monitoring Report

HF Sinclair 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) - 8011	1,2-Dibromoethane (Ethylene dibromide) - 8260	1,2-Di-chloroethane	1,2-Di-chloropropane	1,3,5-Trimethyl-benzene
				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	0.000570	0.200	0.0100	0.00500	0.0250	0.00700	0.0560	0.0000500	0.0000500	0.00500	0.00500	0.0600
				CGWSL Source:	USEPA TW	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	USEPA TW
Area	**Well ID**	**Date**	**Dup**													
Cross-Gradient	KWB-13	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	KWB-13	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	KWB-13	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	KWB-13	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-136	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-136	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-136	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-136	Oct-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-136	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-136	Oct-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-149	Oct-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-150	Oct-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	NP-5	Apr-17		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373		**<0.000381**	<0.000361	<0.000306	<0.000387
	NP-5	Apr-19		<0.000385 J4	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373		**<0.000381** J4	<0.000361	<0.000306	<0.000387
	NP-5	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	NP-5	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	RA-3156	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373		**<0.000381**	<0.000361	<0.000306	<0.000387
	RA-3156	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	RA-3156	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	RA-3156	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
Evaporation Ponds	MW-1R	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104 J4
	MW-1R	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-1R	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-1R	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-2A	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-2A	Sep-21													
	MW-2A	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-2A	Oct-22													
	MW-2A	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-2A	Oct-23													
	MW-3	Apr-21		**<0.00368**	<0.00373	<0.00333	<0.00395	<0.00250	<0.00470	<0.00805		**<0.00315**	<0.00205	<0.00373	<0.00260
	MW-3	Apr-21	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-3	Sep-21													
	MW-3	Sep-21	FD												
	MW-3	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-3	Apr-22	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-3	Oct-22													
	MW-3	Oct-22	FD												
	MW-3	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-3	Mar-23	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-3	Oct-23													
	MW-3	Oct-23	FD												
	MW-4A	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.000560 J		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-4A	Sep-21													
	MW-4A	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.000345 J		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-4A	Oct-22													
	MW-4A	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-4A	Oct-23													
	MW-4B	Apr-17		<0.000385	<0.000319	<0.000130	<0.000383 J4	<0.000259	<0.000398	<0.000373		**<0.000381**	<0.000361	<0.000306	<0.000387
	MW-4B	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373		**<0.000381**	<0.000361	<0.000306	<0.000387
	MW-4B	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-4B	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-5A	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-5A	Sep-21													
	MW-5A	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-5A	Oct-22													
	MW-5A	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-5A	Oct-23													
	MW-5B	Apr-17		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000499 J		**<0.000381**	<0.000361	<0.000306	<0.000387
	MW-5B	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000414 J		**<0.000381**	<0.000361	<0.000306	<0.000387
	MW-5B	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-5B	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	0.000144 J
	MW-5C	Apr-17		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373		**<0.000381**	<0.000361	<0.000306	<0.000387
	MW-5C	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373		**<0.000381**	<0.000361	<0.000306	<0.000387
	MW-5C	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.000433 J		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-5C	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-6A	Jun-20		**<0.000735**	<0.000745	<0.000665	<0.000790	<0.000500	<0.000940	<0.00161		**<0.000630**	<0.000409	<0.000745	<0.000520
	MW-6A	Apr-21		**<0.000735**	<0.000745	<0.000665	<0.000790	<0.000500	<0.000940	<0.00161		**<0.000630**	<0.000409	<0.000745	<0.000520
	MW-6A	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-6A	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-6B	Apr-17		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373		**<0.000381**	<0.000361	<0.000306	<0.000387
	MW-6B	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373		**<0.000381**	<0.000361	<0.000306	<0.000387
	MW-6B	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-6B	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-7A	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-7A	Apr-21	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-7A	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-7A	Sep-21	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-7A	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-7A	Apr-22	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-7A	Oct-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-7A	Oct-22	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-7A	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-7A	Mar-23	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-7A	Oct-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-7A	Oct-23	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-7B	Apr-17		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373		**<0.000381**	<0.000361	<0.000306	<0.000387
	MW-7B	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373		**<0.000381**	<0.000361	<0.000306	<0.000387
	MW-7B	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-7B	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-10	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-10	Sep-21													
	MW-10	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-10	Oct-22													
	MW-10	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-10	Oct-23													
	MW-11A	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-11A	Sep-21													
	MW-11A	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-11A	Oct-22													
	MW-11A	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-11A	Oct-23													

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Appendix B, Table B.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2023 Annual Groundwater Monitoring Report

HF Sinclair 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) - 8011	1,2-Dibromoethane (Ethylene dibromide) - 8260	1,2-Di-chloroethane	1,2-Di-chloropropane	1,3,5-Trimethyl-benzene
				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	0.000570	0.200	0.0100	0.00500	0.0250	0.00700	0.0560	0.0000500	0.0000500	0.00500	0.00500	0.0600
				CGWSL Source:	USEPA TW	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	USEPA TW
Area	**Well ID**	**Date**	**Dup**													
Evaporation Ponds	MW-11B	Apr-17		<0.000385	<0.000319	<0.000130	<0.000383 J4	<0.000259	<0.000398	<0.000373		**<0.000381**	<0.000361	<0.000306	<0.000387
	MW-11B	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373		**<0.000381**	<0.000361	<0.000306	<0.000387
	MW-11B	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-11B	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-15	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104 J4
	MW-15	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-15	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-15	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-18A	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-18A	Sep-21													
	MW-18A	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	0.000327 J
	MW-18A	Oct-22													
	MW-18A	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-18A	Oct-23													
	MW-18B	Apr-17		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373		**<0.000381**	<0.000361	<0.000306	<0.000387
	MW-18B	Apr-19		<0.000385	<0.000319 J4	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373		**<0.000381**	<0.000361	<0.000306	<0.000387
	MW-18B	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-18B	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-22A	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-22A	Apr-21	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-22A	Sep-21													
	MW-22A	Sep-21	FD												
	MW-22A	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-22A	Apr-22	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-22A	Oct-22													
	MW-22A	Oct-22	FD												
	MW-22A	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-22A	Mar-23	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-22A	Oct-23													
	MW-22A	Oct-23	FD												
	MW-22B	Apr-17		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373		**<0.000381**	<0.000361	<0.000306	<0.000387
	MW-22B	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373		**<0.000381**	<0.000361	<0.000306	<0.000387
	MW-22B	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-22B	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-70	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-70	Sep-21													
	MW-70	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-70	Oct-22													
	MW-70	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-70	Oct-23													
	MW-72	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-72	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-72	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-72	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-73	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.000589 J		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-73	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.000447 J		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-73	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.000695 J		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-73	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.000348 J		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-74	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.000857 J		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-74	Sep-21													
	MW-74	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.00188		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-74	Oct-22													
	MW-74	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.00152		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-74	Oct-23													
	MW-75	Apr-21		**<0.00368**	<0.00373	<0.00333	<0.00395	<0.00250	<0.00470	<0.00805		**<0.00315**	<0.00205	<0.00373	<0.00260
	MW-75	Sep-21													
	MW-75	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-75	Oct-22													
	MW-75	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-75	Oct-23													
	MW-76	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-76	Sep-21													
	MW-76	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-76	Oct-22													
	MW-76	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-76	Oct-23													
	MW-77	Jun-20		**<0.00368**	<0.00373	<0.00333	<0.00395	<0.00250	<0.00470	<0.00805		**<0.00315**	<0.00205	<0.00373	<0.00260
	MW-77	Apr-21		**<0.00368**	<0.00373	<0.00333	<0.00395	<0.00250	<0.00470	<0.00805		**<0.00315**	<0.00205	<0.00373	<0.00260
	MW-77	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-77	Mar-23		**<0.00147**	<0.00149	<0.00133	<0.00158	<0.00100	<0.00188	<0.00322		**<0.00126**	<0.000819	<0.00149	<0.00104
	MW-78	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104 J4
	MW-78	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-78	Apr-22		**<0.00147**	<0.00149	<0.00133	<0.00158	<0.00100	<0.00188	<0.00322		**<0.00126**	<0.000819	<0.00149	<0.00104
	MW-78	Mar-23		**<0.00147**	<0.00149	<0.00133	<0.00158	<0.00100	<0.00188	<0.00322		**<0.00126**	<0.000819	<0.00149	<0.00104
	MW-79	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-79	Sep-21													
	MW-79	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-79	Oct-22													
	MW-79	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-79	Oct-23													
	MW-80	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-80	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-80	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-80	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-81	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-81	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-81	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-81	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-82	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104 J4
	MW-82	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-82	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-82	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-83	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-83	Sep-21													
	MW-83	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-83	Oct-22													
	MW-83	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-83	Oct-23													
	MW-84	Apr-21		**<0.00147**	<0.00149	<0.00133	<0.00158	<0.00100	<0.00188	<0.00322		**<0.00126**	<0.000819	<0.00149	<0.00104
	MW-84	Sep-21													
	MW-84	Apr-22		**<0.00294**	<0.00298	<0.00266	<0.00316	<0.00200	<0.00376	<0.00644		**<0.00252**	<0.00164	<0.00298	0.00721 J
	MW-84	Oct-22													
	MW-84	Mar-23		**<0.00147**	<0.00149	<0.00133	<0.00158	<0.00100	<0.00188	<0.00322		**<0.00126**	<0.000819	<0.00149	<0.00104
	MW-84	Oct-23													

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Appendix B, Table B.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2023 Annual Groundwater Monitoring Report

HF Sinclair 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) - 8011	1,2-Dibromoethane (Ethylene dibromide) - 8260	1,2-Di-chloroethane	1,2-Di-chloropropane	1,3,5-Trimethyl-benzene
				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	0.000570	0.200	0.0100	0.00500	0.0250	0.00700	0.0560	0.0000500	0.0000500	0.00500	0.00500	0.0600
				CGWSL Source:	USEPA TW	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	USEPA 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	<0.00298	0.00605 J
	MW-86	Oct-20		**<0.00294**	<0.00298	<0.00266	<0.00316	<0.00200	<0.00376	0.0223		**<0.00252**	<0.00164	<0.00298	0.00604 J
	MW-87	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-87	Sep-21													
	MW-87	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-87	Oct-22													
	MW-87	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-87	Oct-23													
	MW-88	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-88	Sep-21													
	MW-88	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-88	Oct-22													
	MW-88	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-88	Oct-23													
	MW-120	Apr-21		**<0.000735**	<0.000745	<0.000665	<0.000790	<0.000500	<0.000940	<0.00161		**<0.000630**	<0.000409	<0.000745	<0.000520
	MW-120	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-120	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-120	Oct-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-120	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-120	Oct-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-121	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-121	Sep-21													
	MW-121	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-121	Oct-22													
	MW-121	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-121	Oct-23													
	MW-122	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-122	Sep-21													
	MW-122	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-122	Oct-22													
	MW-122	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-122	Oct-23													
	MW-123	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-123	Sep-21													
	MW-123	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-123	Oct-22													
	MW-123	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-123	Oct-23													
	MW-124	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-124	Sep-21													
	MW-124	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-124	Oct-22													
	MW-124	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-124	Oct-23													
	OCD-1R	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	OCD-1R	Sep-21													
	OCD-1R	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	OCD-1R	Oct-22													
	OCD-1R	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	OCD-1R	Oct-23													
	OCD-2A	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	OCD-2A	Sep-21													
	OCD-2A	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	OCD-2A	Oct-22													
	OCD-2A	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	OCD-2A	Oct-23													
	OCD-3	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	OCD-3	Sep-21													
	OCD-3	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	OCD-3	Oct-22													
	OCD-3	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	OCD-3	Oct-23													
	OCD-4	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	OCD-4	Sep-21													
	OCD-4	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	OCD-4	Oct-22													
	OCD-4	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	OCD-4	Oct-23													
	OCD-5	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	OCD-5	Sep-21													
	OCD-5	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	OCD-5	Oct-22													
	OCD-5	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	OCD-5	Oct-23													
	OCD-6	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	OCD-6	Sep-21													
	OCD-6	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	OCD-6	Oct-22													
	OCD-6	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	OCD-6	Oct-23													
	OCD-7AR	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.000378 J		**<0.000126**	<0.0000819	<0.000149	<0.000104
	OCD-7AR	Sep-21													
	OCD-7AR	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.000840 J		**<0.000126**	<0.0000819	<0.000149	<0.000104
	OCD-7AR	Oct-22													
	OCD-7AR	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	OCD-7AR	Oct-23													
	OCD-7B	Apr-17		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373		**<0.000381**	<0.000361	<0.000306	<0.000387
	OCD-7B	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373		**<0.000381**	<0.000361	<0.000306	<0.000387
	OCD-7B	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	OCD-7B	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	OCD-8A	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.000418 J		**<0.000126**	<0.0000819	<0.000149	<0.000104
	OCD-8A	Sep-21													
	OCD-8A	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	OCD-8A	Oct-22													
	OCD-8A	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	OCD-8A	Oct-23													
	OCD-8B	Apr-17		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373		**<0.000381**	<0.000361	<0.000306	<0.000387
	OCD-8B	Apr-19		<0.000385	<0.000319 J4	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373		**<0.000381**	<0.000361	<0.000306	<0.000387
	OCD-8B	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	OCD-8B	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104

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Appendix B, Table B.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2023 Annual Groundwater Monitoring Report

HF Sinclair 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) - 8011	1,2-Dibromoethane (Ethylene dibromide) - 8260	1,2-Di-chloroethane	1,2-Di-chloropropane	1,3,5-Trimethyl-benzene
				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	0.000570	0.200	0.0100	0.00500	0.0250	0.00700	0.0560	0.0000500	0.0000500	0.00500	0.00500	0.0600
				CGWSL Source:	USEPA TW	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	USEPA TW
Area	**Well ID**	**Date**	**Dup**													
Field East of Refinery	KWB-1A	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	KWB-1A	Oct-22		<0.000147	0.000158 J	<0.000133	0.000438 J	0.000275 J	<0.000188	0.0286		**<0.000126**	<0.0000819	<0.000149	0.00404
	KWB-1A	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.0335		**<0.000126**	<0.0000819	<0.000149	0.00461
	KWB-1A	Oct-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.0335		**<0.000126**	<0.0000819	<0.000149	0.00505
	KWB-1C	Apr-17		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373		**<0.000381**	<0.000361	<0.000306	<0.000387
	KWB-1C	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373		**<0.000381**	<0.000361	<0.000306	<0.000387
	KWB-1C	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	KWB-1C	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	KWB-7	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	**0.212**		**<0.000126**	<0.0000819	<0.000149	0.00556
	KWB-7	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	**0.200**		**<0.000126**	<0.0000819	<0.000149	0.000709 J
	KWB-7	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.00243		**<0.000126**	<0.0000819	<0.000149	<0.000104
	KWB-7	Oct-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.00146		**<0.000126**	<0.0000819	<0.000149	0.000299 JB
	KWB-7	Mar-23		**<0.00735**	<0.00745	<0.00665	**<0.00790**	<0.00500	**<0.00940**	<0.0161		**<0.00630**	<0.00409	**<0.00745**	<0.00520
	KWB-7	Oct-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.000803 J		**<0.000126**	<0.0000819	<0.000149	<0.000104
	KWB-8	Apr-17		**<0.0385**	<0.0319	**<0.0130**	**<0.0383**	**<0.0259**	**<0.0398**	**0.380**		**<0.0381**	**<0.0361**	**<0.0306**	**0.0863 J**
	KWB-8	Oct-17		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	**0.114**		**<0.000381**	<0.000361	<0.000306	0.0225
	KWB-8	Oct-20		**<0.0294**	<0.0298	**<0.0266**	**<0.0316**	<0.0200	**<0.0376**	**0.833**		**<0.0252**	**<0.0164**	**<0.0298**	**0.191 J**
	KWB-10R	Apr-17		**<0.0192**	<0.0160	<0.00650	**<0.0192**	<0.0130	**<0.0199**	**0.360**		**<0.0190**	**<0.0180**	**<0.0153**	**0.0907**
	KWB-10R	Oct-17		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	**0.302**		**<0.000381**	<0.000361	<0.000306	**0.0759**
	KWB-10R	Apr-18		**<0.0962**	<0.0798	**<0.0325**	**<0.0958**	**<0.0648**	**<0.0995**	**0.214 J**		**<0.0952**	**<0.0902**	**<0.0765**	**<0.0968**
	KWB-10R	Oct-18		**<0.0962**	<0.0798	**<0.0325**	**<0.0958**	**<0.0648**	**<0.0995**	**0.215 J**		**<0.0952**	**<0.0902**	**<0.0765**	**<0.0968**
	KWB-11A	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.0190	<0.00000536	**<0.000126**	<0.0000819	<0.000149	0.000835 J
	KWB-11A	Oct-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.000699 J	<0.00000547	**<0.000126**	<0.0000819	<0.000149	<0.000104
	KWB-11A	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.000727 J	<0.00000579	**<0.000126**	<0.0000819	<0.000149	<0.000104
	KWB-11A	Oct-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	KWB-11B	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	KWB-11B	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.00000536	**<0.000126**	<0.0000819	<0.000149	<0.000104
	KWB-11B	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.00000547	**<0.000126**	<0.0000819	<0.000149	<0.000104
	KWB-11B	Oct-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	0.000270 J	<0.000149	<0.000104
	KWB-11B	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	KWB-11B	Oct-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	0.000325 J	<0.000149	<0.000104
	KWB-12A	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	KWB-12A	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.000476 J		**<0.000126**	<0.0000819	<0.000149	<0.000104
	KWB-12A	Oct-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	KWB-12A	Oct-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	KWB-12B	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	KWB-12B	Apr-21	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	KWB-12B	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	KWB-12B	Sep-21	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	KWB-12B	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	KWB-12B	Apr-22	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	KWB-12B	Oct-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	KWB-12B	Oct-22	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	KWB-12B	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	KWB-12B	Mar-23	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	KWB-12B	Oct-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	KWB-12B	Oct-23	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	KWB-P4	Apr-17		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373		**<0.000381**	<0.000361	<0.000306	<0.000387
	KWB-P4	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373		**<0.000381**	<0.000361	<0.000306	<0.000387
	KWB-P4	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	KWB-P4	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-57	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-57	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-57	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-57	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-58	Oct-17		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	**0.166**		**<0.000381**	<0.000361	<0.000306	0.00130
	MW-58	Apr-18		**<0.0192**	<0.0160	<0.00650	**<0.0192**	<0.0130	**<0.0199**	**0.574**		**<0.0190**	**<0.0180**	**<0.0153**	<0.0194
	MW-58	Oct-18		**<0.0192**	<0.0160	<0.00650	**<0.0192**	<0.0130	**<0.0199**	0.0235 J		**<0.0190**	**<0.0180**	**<0.0153**	<0.0194
	MW-58	Oct-19		**<0.00385**	<0.00319	<0.00130	<0.00383 J4	<0.00259	<0.00398	**0.272**		**<0.00381** J4	<0.00361	<0.00306	0.0123
	MW-111	Oct-18		**<0.00962**	<0.00798	<0.00325	**<0.00958**	<0.00648	**<0.00995**	<0.00932		**<0.00952**	**<0.00902**	**<0.00765**	<0.00968
	MW-111	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.00243	<0.00000240	**<0.000381**	0.000871 J	<0.000306	<0.000387
	MW-111	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.00437		**<0.000381**	<0.000361	<0.000306	0.000852 J
	MW-111	Jun-20		**<0.00368**	<0.00373	<0.00333	<0.00395	<0.00250	<0.00470	0.0135 J		**<0.00315**	<0.00205	<0.00373	0.00436 J
	MW-112	Nov-14		**<0.00960**	<0.00800	<0.00320	**<0.00960**	<0.00650	**<0.0100**	**0.350**	**<0.00950**		**<0.00900**	**<0.00760**	**0.0900**
	MW-113	Apr-21		**<0.000735**	<0.000745	<0.000665	<0.000790	<0.000500	<0.000940	0.0410		**<0.000630**	<0.000409	<0.000745	0.00273 J
	MW-113	Apr-21	FD	<0.000147 J4	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.0519		**<0.000126**	<0.0000819	<0.000149	0.00345
	MW-113	Sep-21		**<0.00735**	<0.00745	<0.00665	**<0.00790**	<0.00500	**<0.00940**	**0.564**	<0.00000536	**<0.00630**	<0.00409	**<0.00745**	<0.00520
	MW-113	Sep-21	FD	**<0.00368**	<0.00373	<0.00333	<0.00395	<0.00250	<0.00470	**0.627**	<0.00000536	**<0.00315**	<0.00205	<0.00373	0.00833 J
	MW-113	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	**0.0570**	<0.00000547	**<0.000126**	<0.0000819	<0.000149	0.000763 J
	MW-113	Apr-22	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.0542	<0.00000552	**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-113	Oct-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	**0.654**		**<0.000126**	<0.0000819	<0.000149	0.0131
	MW-113	Oct-22	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	**0.706**		**<0.000126**	<0.0000819	<0.000149	0.0140
	MW-113	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	**0.0732**		**<0.000126**	<0.0000819	<0.000149	0.000823 J
	MW-113	Mar-23	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	**0.100**		**<0.000126**	<0.0000819	<0.000149	0.00101
	MW-113	Oct-23		**<0.00735**	<0.00745	<0.00665	**<0.00790**	<0.00500	**<0.00940**	**0.699**		**<0.00630**	<0.00409	**<0.00745**	<0.00520
	MW-113	Oct-23	FD	**<0.00735**	<0.00745	<0.00665	**<0.00790**	<0.00500	**<0.00940**	**0.691**		**<0.00630**	<0.00409	**<0.00745**	<0.00520
	MW-125	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-125	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-125	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-125	Oct-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-125	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-125	Oct-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-126A	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373		**<0.000381**	<0.000361	<0.000306	<0.000387
	MW-126A	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373		**<0.000381**	<0.000361	<0.000306	0.00162
	MW-126A	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-126A	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-126B	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	0.000123 J	<0.000149	<0.000104
	MW-126B	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.00000536	**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-126B	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.00000541	**<0.000126**	0.0000820 J	<0.000149	<0.000104
	MW-126B	Oct-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-126B	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-126B	Oct-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-127	Oct-17		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.0327		**<0.000381**	<0.000361	<0.000306	0.00452
	MW-127	Apr-18		**<0.00770**	<0.00638	<0.00260	**<0.00766**	<0.00518	**<0.00796**	0.0375		**<0.00762**	**<0.00722**	**<0.00612**	<0.00774
	MW-127	Oct-18		**<0.00770**	<0.00638	<0.00260	**<0.00766**	<0.00518	**<0.00796**	0.0272		**<0.00762**	**<0.00722**	**<0.00612**	<0.00774
	MW-127	Apr-19		**<0.00770**	<0.00638	<0.00260	**<0.00766**	<0.00518	**<0.00796**	0.0399	<0.00000240	**<0.00762**	**<0.00722**	**<0.00612**	<0.00774
	MW-128	Oct-17		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.00233		**<0.000381**	<0.000361	<0.000306	<0.000387
	MW-128	Apr-18		**<0.00770**	<0.00638	<0.00260	**<0.00766**	<0.00518	**<0.00796**	<0.00746		**<0.00762**	**<0.00722**	**<0.00612**	<0.00774
	MW-128	Oct-18		**<0.00770**	<0.00638	<0.00260	**<0.00766**	<0.00518	**<0.00796**	<0.00746		**<0.00762**	**<0.00722**	**<0.00612**	<0.00774
	MW-128	Apr-19		**<0.00770**	<0.00638	<0.00260	**<0.00766** J4	<0.00518	**<0.00796**	<0.00746		**<0.00762**	**<0.00722**	**<0.00612**	<0.00774
	MW-129	Apr-15		<0.000380	<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	0.00286	**<0.000380**		<0.000360	<0.000310	0.000679 J
	MW-129	Oct-15		**<0.0385**	<0.0319	**<0.0130**	**<0.0383**	**<0.0259**	**<0.0398**	<0.0373	**<0.0381**		**<0.0361**	**<0.0306**	<0.0387
	MW-129	Apr-17		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.00101		**<0.000381**	<0.000361	<0.000306	<0.000387
	MW-129	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000452 J		**<0.000381**	<0.000361	<0.000306	<0.000387

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Appendix B, Table B.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2023 Annual Groundwater Monitoring Report

HF Sinclair 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) - 8011	1,2-Dibromoethane (Ethylene dibromide) - 8260	1,2-Di-chloroethane	1,2-Di-chloropropane	1,3,5-Trimethyl-benzene
				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	0.000570	0.200	0.0100	0.00500	0.0250	0.00700	0.0560	0.0000500	0.0000500	0.00500	0.00500	0.0600
				CGWSL Source:	USEPA TW	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	USEPA TW
Area	**Well ID**	**Date**	**Dup**													
Field East of Refinery	MW-130	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-130	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-130	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-130	Oct-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-130	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-130	Oct-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-131	Apr-17		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.0137		**<0.000381**	<0.000361	<0.000306	0.00348
	MW-131	Oct-17		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	**<0.0932**		**<0.000381**	<0.000361	<0.000306	0.00174
	MW-131	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	**0.167**		**<0.000381**	<0.000361	<0.000306	0.0432
	MW-131	Jun-20		**<0.00735**	<0.00745	<0.00665	**<0.00790**	<0.00500	**<0.00940**	**0.110**		**<0.00630**	<0.00409	**<0.00745**	0.0408 J
	MW-133	Nov-14		**<0.0380**	<0.0320	**<0.0130**	**<0.0380**	**<0.0260**	**<0.0400**	**0.280**	**<0.0380**		**<0.0360**	**<0.0310**	0.0530 J
	MW-133	Apr-15		**<0.0380**	<0.0319	**<0.0130**	**<0.0380**	**<0.0260**	**<0.0400**	**0.138**	**<0.0380**		**<0.0360**	**<0.0310**	<0.0390
	MW-134	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-134	Apr-21	FD	<0.000147 J4	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-134	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-134	Sep-21	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-134	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-134	Apr-22	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-134	Oct-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-134	Oct-22	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-134	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-134	Mar-23	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-134	Oct-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-134	Oct-23	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-135	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-135	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-135	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-135	Oct-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-135	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-135	Oct-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-145	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-145	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-145	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-145	Oct-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-145	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-145	Oct-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-146	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158 J4	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-146	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-146	Sep-21	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-146	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-146	Apr-22	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-146	Oct-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-146	Oct-22	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-146	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-146	Mar-23	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-146	Oct-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-146	Oct-23	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-147	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-147	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-147	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-147	Oct-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-147	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-147	Oct-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-148	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158 J4	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-148	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-148	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-148	Oct-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-148	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-148	Oct-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	RA-4196	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	RA-4196	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	0.000876 J	<0.000149	<0.000104
	RA-4196R	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	0.000275 J	<0.000149	<0.000104
	RA-4196R	Oct-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.00000552	**<0.000126**	0.000237 J	<0.000149	<0.000104
	RA-4798	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	0.000877 J	<0.000149	<0.000104
	RA-4798	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	0.00128	<0.000149	<0.000104
	RA-4798	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.00000536	**<0.000126**	0.00209	<0.000149	<0.000104
	RA-4798	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.00000536	**<0.000126**	0.000128 J	<0.000149	<0.000104
	RW-12R	Apr-17		**<0.00192**	<0.00160	<0.000650	<0.00192	<0.00130	<0.00199	0.0338		**<0.00190**	<0.00180	<0.00153	<0.00194
	RW-12R	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.00448		**<0.000381**	<0.000361	<0.000306	<0.000387
	RW-12R	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383 J4	<0.000259	<0.000398	0.0102		**<0.000381**	<0.000361	<0.000306	<0.000387
	RW-12R	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.00494		**<0.000126**	<0.0000819	<0.000149	<0.000104
	RW-13R	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.0443		**<0.000381**	0.000655 J	<0.000306	0.000443 J
	RW-13R	Mar-23		**<0.00735**	<0.00745	<0.00665	**<0.00790**	<0.00500	**<0.00940**	**0.534**	<0.00000547	**<0.00630**	<0.00409	**<0.00745**	**0.113**
	RW-18A	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373		**<0.000381**	<0.000361	<0.000306	<0.000387
	RW-18A	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373		**<0.000381**	<0.000361	<0.000306	<0.000387
	RW-18A	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	RW-18A	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	RW-20	Apr-15		**<0.00380**	<0.00319	<0.00130	<0.00380	<0.00260	<0.00400	**0.539**	**<0.00380**		<0.00360	<0.00310	**0.113**
	RW-22	Apr-15		**<0.00380**	<0.00319	<0.00130	<0.00380	<0.00260	<0.00400	**0.575**	**<0.00380**		<0.00360	<0.00310	**0.0853**
NCL	MW-18	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-18	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-18	Apr-22		<0.000147	<0.000149 J4	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-18	Mar-23		<0.000147	<0.000149	<0.000133 J3	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126** J3	<0.0000819 J3	<0.000149	<0.000104
	MW-45	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-45	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-45	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-45	Oct-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-45	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-45	Oct-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-53	Apr-15		<0.000380	<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**		<0.000360	<0.000310	<0.000390
	MW-53	Apr-17		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373		**<0.000381**	<0.000361	<0.000306	<0.000387
	MW-53	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373		**<0.000381**	<0.000361	<0.000306	<0.000387
	MW-53	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373		**<0.000381**	<0.000361	<0.000306	<0.000387
	MW-53R	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-53R	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-53R	Apr-22		<0.000147	<0.000149 J4	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-53R	Mar-23		<0.000147	<0.000149	<0.000133 J3	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126** J3	<0.0000819 J3	<0.000149	<0.000104
	MW-54A	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-54A	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-54A	Apr-22		<0.000147	<0.000149 J4	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-54A	Oct-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-54A	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-54A	Oct-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104

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Appendix B, Table B.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2023 Annual Groundwater Monitoring Report

HF Sinclair 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) - 8011	1,2-Dibromoethane (Ethylene dibromide) - 8260	1,2-Di-chloroethane	1,2-Di-chloropropane	1,3,5-Trimethyl-benzene
				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	0.000570	0.200	0.0100	0.00500	0.0250	0.00700	0.0560	0.0000500	0.0000500	0.00500	0.00500	0.0600
				CGWSL Source:	USEPA TW	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	USEPA TW
Area	**Well ID**	**Date**	**Dup**													
NCL	MW-54B	Apr-17		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373		**<0.000381**	<0.000361	<0.000306	<0.000387
	MW-54B	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373		**<0.000381**	<0.000361	<0.000306	<0.000387
	MW-54B	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-54B	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-55	Apr-21		**<0.00147**	<0.00149	<0.00133	<0.00158	<0.00100	<0.00188	<0.00322		**<0.00126**	<0.000819	<0.00149	<0.00104
	MW-55	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-55	Apr-22		**<0.00147**	<0.00149 J4	<0.00133	<0.00158	<0.00100	<0.00188	<0.00322		**<0.00126**	<0.000819	<0.00149	<0.00104
	MW-55	Oct-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-55	Mar-23		<0.000147	<0.000149	<0.000133 J3	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126** J3	<0.0000819 J3	<0.000149	<0.000104
	MW-55	Oct-23		**<0.00147**	<0.00149	<0.00133	<0.00158	<0.00100	<0.00188	<0.00322		**<0.00126**	<0.000819	<0.00149	<0.00104
	MW-56	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-56	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-56	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-56	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-108	Apr-21		**<0.000735**	<0.000745	<0.000665	<0.000790	<0.000500	<0.000940	0.00750		**<0.000630**	<0.000409	<0.000745	0.000774 J
	MW-108	Sep-21		**<0.00147**	<0.00149	<0.00133	<0.00158	<0.00100	<0.00188	0.00684 J	<0.00000536	**<0.00126**	<0.000819	<0.00149	<0.00104
	MW-108	Apr-22		<0.000147	<0.000149	0.000143 J	<0.000158	<0.000100	<0.000188	0.00119	<0.00000541	**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-108	Oct-22		<0.000147	<0.000149	<0.000133	0.000652 J	0.000152 J	<0.000188	0.000811 J		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-108	Mar-23		<0.000147	<0.000149	<0.000133 J3	<0.000158	<0.000100	<0.000188	0.00272		**<0.000126** J3	<0.0000819 J3	<0.000149	<0.000104
	MW-108	Oct-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	NCL-31	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.00249		**<0.000126**	<0.0000819	<0.000149	0.000458 J
	NCL-31	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.000439 J		**<0.000126**	<0.0000819	<0.000149	<0.000104
	NCL-31	Apr-22		<0.000147	<0.000149 J4	<0.000133	<0.000158	<0.000100	<0.000188	0.000623 J		**<0.000126**	<0.0000819	<0.000149	0.000135 J
	NCL-31	Oct-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.000386 J		**<0.000126**	<0.0000819	<0.000149	<0.000104
	NCL-31	Mar-23		<0.000147	<0.000149	<0.000133 J3	<0.000158	<0.000100	<0.000188	0.000380 J		**<0.000126** J3	<0.0000819 J3	<0.000149	<0.000104
	NCL-31	Oct-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	NCL-32	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	NCL-32	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	NCL-32	Apr-22		<0.000147	<0.000149 J4	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	NCL-32	Oct-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.000461 J		**<0.000126**	<0.0000819	<0.000149	0.000111 J
	NCL-32	Mar-23		<0.000147	<0.000149	<0.000133 J3	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126** J3	<0.0000819 J3	<0.000149	<0.000104
	NCL-32	Oct-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.00132		**<0.000126**	<0.0000819	<0.000149	0.000252 J
	NCL-33	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	NCL-33	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	NCL-33	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	NCL-33	Oct-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	NCL-33	Mar-23		<0.000147	<0.000149	<0.000133 J3	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126** J3	<0.0000819 J3	<0.000149	<0.000104
	NCL-33	Oct-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	NCL-34A	Oct-18		**<0.00385**	<0.00319	<0.00130	<0.00383	<0.00259	<0.00398	0.00612 J		**<0.00381**	<0.00361	<0.00306	<0.00387
	NCL-34A	Apr-19		**<0.00770**	<0.00638	<0.00260	**<0.00766**	<0.00518	**<0.00796**	<0.00746		**<0.00762**	**<0.00722**	**<0.00612**	<0.00774
	NCL-34A	Oct-19		**<0.00193**	<0.00159	<0.000650 J4	<0.00192	<0.00130	<0.00199	0.00369 J		**<0.00191**	<0.00181	<0.00153	0.00207 J
	NCL-34A	Jun-20		**<0.00294**	<0.00298	<0.00266	<0.00316	<0.00200	<0.00376	0.0113 J		**<0.00252**	<0.00164	<0.00298	0.00286 J
	NCL-44	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	NCL-44	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	NCL-44	Apr-22		<0.000147	<0.000149 J4	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	NCL-44	Oct-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	NCL-44	Mar-23		<0.000147	<0.000149	<0.000133 J3	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126** J3	<0.0000819 J3	<0.000149	<0.000104
	NCL-44	Oct-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	NCL-49	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	NCL-49	Apr-21	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	NCL-49	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	NCL-49	Sep-21	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	NCL-49	Apr-22		<0.000147	<0.000149 J4	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	NCL-49	Apr-22	FD	<0.000147	<0.000149 J4	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	NCL-49	Oct-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	NCL-49	Oct-22	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	NCL-49	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	NCL-49	Mar-23	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	NCL-49	Oct-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	NCL-49	Oct-23	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
North Refinery	MW-23	Apr-19		**<0.0385**	<0.0319	**<0.0130**	**<0.0383**	**<0.0259**	**<0.0398**	<0.0373		**<0.0381**	**<0.0361**	**<0.0306**	<0.0387
	MW-23	Oct-19		**<0.00385**	<0.00319	<0.00130	<0.00383	<0.00259	<0.00398	<0.00373		**<0.00381**	<0.00361	<0.00306	<0.00387
	MW-23	Jun-20		**<0.00147**	<0.00149	<0.00133	<0.00158	<0.00100	<0.00188	<0.00322		**<0.00126**	<0.000819	<0.00149	<0.00104
	MW-23	Oct-20		**<0.00147**	<0.00149	<0.00133	<0.00158	<0.00100	<0.00188	<0.00322		**<0.00126**	<0.000819	<0.00149	<0.00104
	MW-29	Apr-21		<0.000147 J4	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-29	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	0.000151 J	<0.000149	<0.000104
	MW-29	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-29	Oct-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	0.000205 J	0.000511 J	<0.000104
	MW-29	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-29	Oct-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-39	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.0144		**<0.000381**	<0.000361	<0.000306	0.00508
	MW-39	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383 J4	<0.000259	<0.000398	0.00573		**<0.000381** J4	<0.000361	<0.000306	0.00237
	MW-39	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.00959		**<0.000126**	<0.0000819	<0.000149	0.00206
	MW-39	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.00377		**<0.000126**	<0.0000819	<0.000149	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	0.000706 J	<0.000387
	MW-40	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373		**<0.000381**	<0.000361	<0.000306	<0.000387
	MW-40	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373		**<0.000381**	<0.000361	<0.000306	<0.000387
	MW-40	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-41	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373		**<0.000381**	<0.000361	0.00152	<0.000387
	MW-41	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373		**<0.000381**	<0.000361	0.00195	<0.000387
	MW-41	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	0.00389	<0.000104
	MW-41	Apr-21		<0.000147 J4	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	0.00281	<0.000104
	MW-42	Apr-19		**<0.00192**	<0.00160	<0.000650	<0.00192	<0.00130	<0.00199	0.0148		**<0.00190**	<0.00180	<0.00153	<0.00194
	MW-42	Jun-20		**<0.000735**	<0.000745	<0.000665	<0.000790	<0.000500	<0.000940	0.0163		**<0.000630**	<0.000409	<0.000745	<0.000520
	MW-42	Apr-21		**<0.000735** J4	<0.000745	<0.000665	<0.000790	<0.000500	<0.000940	0.00322 J		**<0.000630**	<0.000409	0.00220 J	<0.000520
	MW-42	Apr-22		**<0.000735**	<0.000745	<0.000665	<0.000790	<0.000500	<0.000940	0.00908		**<0.000630**	0.000571 J	<0.000745	0.00238 J
	MW-43	Apr-19		**<0.0770**	<0.0638	**<0.0260**	**<0.0766**	**<0.0518**	**<0.0796**	**0.450**		**<0.0762**	**<0.0722**	**<0.0612**	**0.0997 J**
	MW-43	Oct-19		**<0.0770**	<0.0638	**<0.0260**	**<0.0766**	**<0.0518**	**<0.0796**	**0.423**		**<0.0762**	**<0.0722**	**0.0867 J**	**0.128 J**
	MW-43	Jun-20		**<0.00294**	<0.00298	<0.00266	<0.00316	<0.00200	<0.00376	**0.284**		**<0.00252**	<0.00164	<0.00298	0.00304 J
	MW-43	Oct-20		**<0.00735**	<0.00745	<0.00665	**<0.00790**	<0.00500	**<0.00940**	**0.302**		**<0.00630**	<0.00409	**<0.00745**	<0.00520
	MW-59	Apr-17		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373		**<0.000381**	<0.000361	<0.000306	<0.000387
	MW-59	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373		**<0.000381**	<0.000361	<0.000306	<0.000387
	MW-59	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383 J4	<0.000259	<0.000398	<0.000373		**<0.000381**	<0.000361	<0.000306	<0.000387
	MW-59	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-60	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-60	Jun-20	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.000401 J		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-60	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-60	Oct-20	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-61	Apr-21		**<0.00735**	<0.00745	<0.00665	**<0.00790**	<0.00500	**<0.00940**	**0.224**		**<0.00630**	<0.00409	**<0.00745**	0.0237 J
	MW-61	Sep-21		**<0.00735**	<0.00745	<0.00665	**<0.00790**	<0.00500	**<0.00940**	**0.261**		**<0.00630**	<0.00409	**<0.00745**	0.0325 J
	MW-61	Apr-22		**<0.00735**	<0.00745	<0.00665	**<0.00790**	<0.00500	**<0.00940**	**0.260**		**<0.00630**	<0.00409	**<0.00745**	0.0348 J
	MW-61	Oct-22		**<0.00735**	<0.00745	<0.00665	**<0.00790**	<0.00500	**<0.00940**	**0.372**		**<0.00630**	<0.00409	**<0.00745**	0.0448 J
	MW-61	Mar-23		**<0.00735**	<0.00745	<0.00665	**<0.00790**	<0.00500	**<0.00940**	**0.230**		**<0.00630**	<0.00409	**<0.00745**	0.0280 J
	MW-61	Oct-23		**<0.00147**	<0.00149	<0.00133	<0.00158	<0.00100	<0.00188	**0.312**		**<0.00126**	<0.000819	<0.00149	0.0351

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Appendix B, Table B.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2023 Annual Groundwater Monitoring Report

HF Sinclair 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) - 8011	1,2-Dibromoethane (Ethylene dibromide) - 8260	1,2-Di-chloroethane	1,2-Di-chloropropane	1,3,5-Trimethyl-benzene
				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	0.000570	0.200	0.0100	0.00500	0.0250	0.00700	0.0560	0.0000500	0.0000500	0.00500	0.00500	0.0600
				CGWSL Source:	USEPA TW	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	USEPA TW
Area	**Well ID**	**Date**	**Dup**													
North Refinery	MW-62	Oct-20		**<0.00294**	<0.00298	<0.00266	<0.00316	<0.00200	<0.00376	**0.347**		**<0.00252**	<0.00164	<0.00298	**0.0783**
	MW-62	Sep-21		**<0.00735**	<0.00745	<0.00665	**<0.00790**	<0.00500	**<0.00940**	**1.20**	<0.00000536	**<0.00630**	<0.00409	**<0.00745**	**0.204**
	MW-62	Apr-22		**<0.00735**	<0.00745	<0.00665	**<0.00790**	<0.00500	**<0.00940**	**1.12**	<0.00000536	**<0.00630**	<0.00409	**<0.00745**	**0.219**
	MW-62	Oct-22		**<0.00735**	<0.00745	<0.00665	**<0.00790**	<0.00500	**<0.00940**	**0.520**		**<0.00630**	<0.00409	**<0.00745**	**0.0668**
	MW-62R	Apr-21		**<0.00735**	<0.00745	<0.00665	**<0.00790**	<0.00500	**<0.00940**	0.0469 J		**<0.00630**	<0.00409	**<0.00745**	<0.00520
	MW-62R	Apr-22		**<0.00147**	<0.00149	<0.00133	<0.00158	<0.00100	<0.00188	0.0196		**<0.00126**	<0.000819	<0.00149	0.00482 J
	MW-62R	Mar-23		**<0.0147**	<0.0149	**<0.0133**	**<0.0158**	<0.0100	**<0.0188**	<0.0322		**<0.0126**	**<0.00819**	**<0.0149**	<0.0104
	MW-67	Oct-17		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.00119		**<0.000381**	<0.000361	<0.000306	<0.000387
	MW-67	Apr-18		**<0.00192**	<0.00160	<0.000650	<0.00192	<0.00130	<0.00199	0.00206 J		**<0.00190**	<0.00180	<0.00153	<0.00194
	MW-67	Oct-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000557 J		**<0.000381**	<0.000361	<0.000306	<0.000387
	MW-67	Apr-19		**<0.00192**	<0.00160	<0.000650	<0.00192	<0.00130	<0.00199	<0.00186		**<0.00190**	<0.00180	<0.00153	<0.00194
	MW-90	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-90	Sep-21		**<0.00147**	<0.00149	<0.00133	<0.00158	<0.00100	<0.00188	<0.00322		**<0.00126**	<0.000819	<0.00149	<0.00104
	MW-90	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-90	Oct-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-90	Mar-23		**<0.00147**	<0.00149	<0.00133	<0.00158	<0.00100	<0.00188	<0.00322		**<0.00126**	<0.000819	<0.00149	<0.00104
	MW-90	Oct-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-91	Oct-18		**<0.0385**	<0.0319	**<0.0130**	**<0.0383**	**<0.0259**	**<0.0398**	**0.182**		**<0.0381**	**<0.0361**	**<0.0306**	0.0510 J
	MW-91	Apr-19		**<0.0385**	<0.0319	**<0.0130**	**<0.0383**	**<0.0259**	**<0.0398**	**0.216**		**<0.0381**	**<0.0361**	**<0.0306**	0.0571 J
	MW-91	Oct-19		**<0.0385**	<0.0319	**<0.0130**	**<0.0383** J4	**<0.0259**	**<0.0398**	**0.239**		**<0.0381** J4	**<0.0361**	**<0.0306**	**0.0675 J**
	MW-91	Jun-20		**<0.0147**	<0.0149	**<0.0133**	**<0.0158**	<0.0100	**<0.0188**	**0.234**		**<0.0126**	**<0.00819**	**<0.0149**	**0.0671 J**
	MW-93	Apr-17		**<0.00962**	<0.00798	<0.00325	**<0.00958**	<0.00648	**<0.00995**	**0.148**		**<0.00952**	**<0.00902**	**<0.00765**	0.0236 J
	MW-93	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	**0.116**		**<0.000381**	<0.000361	0.00116	0.0260
	MW-93	Apr-19		<0.000385	<0.000319	<0.000130	0.000927 J	<0.000259	<0.000398	**0.187**		**<0.000381**	<0.000361	<0.000306	0.0356
	MW-93	Jun-20		**<0.00294**	<0.00298	<0.00266	<0.00316	<0.00200	<0.00376	**0.111**		**<0.00252**	<0.00164	<0.00298	0.0243
	MW-94	Nov-14		**<0.00770**	<0.00640	<0.00260	**<0.00770**	<0.00520	**<0.00800**	**0.540**	**<0.00760**		**<0.00720**	**<0.00610**	**0.120**
	MW-94	Oct-15		**<0.00385**	<0.00319	<0.00130	<0.00383	<0.00259	<0.00398	**0.432**	**<0.00381**		<0.00361	<0.00306	**0.0857**
	MW-94	Apr-17		**<0.00962**	<0.00798	<0.00325	**<0.00958**	<0.00648	**<0.00995**	**0.398**		**<0.00952**	**<0.00902**	**<0.00765**	**0.0785**
	MW-95	Apr-17		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373		**<0.000381**	<0.000361	<0.000306	<0.000387
	MW-95	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373		**<0.000381**	<0.000361	<0.000306	<0.000387
	MW-95	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373		**<0.000381**	<0.000361	<0.000306	<0.000387
	MW-95	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-96	Sep-21		**<0.00147**	<0.00149	<0.00133	<0.00158	<0.00100	<0.00188	0.0116		**<0.00126**	<0.000819	<0.00149	0.00109 J
	MW-96	Apr-22		**<0.00147**	<0.00149	<0.00133	<0.00158	<0.00100	<0.00188	0.00475 J		**<0.00126**	<0.000819	<0.00149	<0.00104
	MW-96	Oct-22		**<0.00294**	<0.00298	<0.00266	<0.00316	<0.00200	<0.00376	<0.00644		**<0.00252**	<0.00164	<0.00298	<0.00208
	MW-96	Mar-23		**<0.147**	<0.149	**<0.133** J3	**<0.158**	**<0.100**	**<0.188**	**<0.322**		**<0.126** J3	**<0.0819** J3	**<0.149**	**<0.104**
	MW-96	Oct-23		**<0.00147**	<0.00149	<0.00133	<0.00158	<0.00100	<0.00188	<0.00322		**<0.00126**	<0.000819	<0.00149	<0.00104
	MW-98	Apr-21		**<0.00735**	<0.00745	<0.00665	**<0.00790**	<0.00500	**<0.00940**	**0.431**		**<0.00630**	<0.00409	**<0.00745**	**0.0924**
	MW-98	Sep-21		**<0.00735**	<0.00745	<0.00665	**<0.00790**	<0.00500	**<0.00940**	**0.392**		**<0.00630**	<0.00409	**<0.00745**	**0.0923**
	MW-98	Apr-22		**<0.00735**	<0.00745	<0.00665	**<0.00790**	<0.00500	**<0.00940**	**0.437**		**<0.00630**	<0.00409	**<0.00745**	**0.109**
	MW-98	Oct-22		**<0.00735**	<0.00745	<0.00665	**<0.00790**	<0.00500	**<0.00940**	**0.469**		**<0.00630**	<0.00409	**<0.00745**	**0.102**
	MW-98	Mar-23		**<0.0294**	<0.0298	**<0.0266**	**<0.0316**	<0.0200	**<0.0376**	**0.495**		**<0.0252**	**<0.0164**	**<0.0298**	**0.105 J**
	MW-98	Oct-23		**<0.00147**	<0.00149	<0.00133	<0.00158	<0.00100	<0.00188	**0.561**		**<0.00126**	<0.000819	<0.00149	**0.126**
	MW-137	Oct-17		**<0.0770**	<0.0638	**<0.0260**	**<0.0766**	**<0.0518**	**<0.0796**	**0.559**		**<0.0762**	**<0.0722**	**<0.0612**	**0.137 J**
	MW-137	Apr-18		**<0.0770**	<0.0638	**<0.0260**	**<0.0766**	**<0.0518**	**<0.0796**	**0.531**		**<0.0762**	**<0.0722**	**<0.0612**	**0.125 J**
	MW-137	Oct-18		**<0.0770**	<0.0638	**<0.0260**	**<0.0766**	**<0.0518**	**<0.0796**	**0.342**		**<0.0762**	**<0.0722**	**<0.0612**	**<0.0774**
	MW-137	Apr-19		**<0.0770**	<0.0638	**<0.0260**	**<0.0766**	**<0.0518**	**<0.0796**	**0.426**		**<0.0762**	**<0.0722**	**<0.0612**	**0.0946 J**
	MW-138	Oct-17		**<0.00192**	<0.00160	<0.000650	<0.00192	<0.00130	<0.00199	0.00547		**<0.00190**	<0.00180	<0.00153	<0.00194
	MW-138	Apr-18		**<0.00192**	<0.00160	<0.000650	<0.00192	<0.00130	<0.00199	0.0413		**<0.00190**	<0.00180	<0.00153	0.00633
	MW-138	Oct-18		**<0.00192**	<0.00160	<0.000650	<0.00192	<0.00130	<0.00199	**0.0799**		**<0.00190**	<0.00180	<0.00153	0.0121
	MW-138	Apr-19		**<0.00192**	<0.00160	<0.000650	<0.00192	<0.00130	<0.00199	**0.126**		**<0.00190**	<0.00180	<0.00153	0.0214
	RW-1	Apr-15		**<0.0190**	<0.0160	<0.00650	**<0.0190**	<0.0130	**<0.0200**	<0.0190	**<0.0190**		**<0.0180**	**<0.0150**	<0.0190
	RW-1	Apr-17		**<0.00385**	<0.00319	<0.00130	<0.00383	<0.00259	<0.00398	<0.00373		**<0.00381**	<0.00361	<0.00306	<0.00387
	RW-1	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	0.00110	0.0303		**<0.000381**	<0.000361	<0.000306	0.00550
	RW-1	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	0.00107	0.0348		**<0.000381**	<0.000361	<0.000306	0.00566
	RW-2	Apr-15		**<0.00380**	<0.00319	<0.00130	<0.00380	<0.00260	<0.00400	**0.330**	**<0.00380** UJ		<0.00360 UJ	<0.00310	**0.0772**
	RW-2	Apr-17		**<0.0192**	<0.0160	<0.00650	**<0.0192**	<0.0130	**<0.0199**	**0.271**		**<0.0190**	**<0.0180**	**<0.0153**	**0.0664**
	RW-2	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	0.00122	**0.329**		**<0.000381**	<0.000361	0.000959 J	**0.0783**
	RW-2	Mar-23		**<0.00294**	<0.00298	<0.00266	<0.00316	<0.00200	<0.00376	**0.0692**		**<0.00252**	<0.00164	<0.00298	0.0187 J
	RW-7	Apr-17		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373		**<0.000381**	<0.000361	<0.000306	<0.000387
	RW-7	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.00502		**<0.000381**	<0.000361	<0.000306	0.000415 J
	RW-7	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.00114		**<0.000381**	<0.000361	<0.000306	<0.000387
	RW-7	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.000639 J		**<0.000126**	<0.0000819	<0.000149	<0.000104
	RW-8	Apr-15		**<0.00380**	<0.00319	<0.00130	<0.00380	<0.00260	<0.00400	0.00710 J	**<0.00380**		<0.00360	<0.00310	<0.00390
	RW-8	Apr-17		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	**0.0928**		**<0.000381**	0.00343	<0.000306	0.0249
	RW-9	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.000722 J		**<0.000126**	0.000218 J	0.00115	0.000313 J
	RW-9	Apr-21		<0.000147 J4	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.00294		**<0.000126**	<0.0000819	0.00106	0.000584 J
	RW-9	Apr-22		**<0.00147**	<0.00149	<0.00133	<0.00158	<0.00100	<0.00188	<0.00322	<0.00000557	**<0.00126**	<0.000819	<0.00149	<0.00104
	RW-9	Mar-23		**<0.00147**	<0.00149	<0.00133	<0.00158	<0.00100	<0.00188	<0.00322	<0.00000547	**<0.00126**	<0.000819	<0.00149	<0.00104
	RW-10	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000631 J		**<0.000381**	<0.000361	<0.000306	<0.000387
	RW-10	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000377 J		**<0.000381**	<0.000361	<0.000306	<0.000387
	RW-10	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.000959 J		**<0.000126**	<0.0000819	<0.000149	0.000180 J
	RW-10	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.00429		**<0.000126**	<0.0000819	<0.000149	0.000850 J
	RW-16B	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373		**<0.000381**	<0.000361	<0.000306	<0.000387
	RW-16B	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373		**<0.000381**	<0.000361	<0.000306	<0.000387
	RW-16B	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.000398 J		**<0.000126**	<0.0000819	<0.000149	0.000156 J
	RW-16B	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.000633 J		**<0.000126**	<0.0000819	<0.000149	<0.000104
	RW-17A	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373		**<0.000381**	<0.000361	<0.000306	<0.000387
	RW-17A	Apr-19		<0.000385 J4	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373		**<0.000381** J4	<0.000361	<0.000306	<0.000387
	RW-17A	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	RW-17A	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
North RO Field	MW-117	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-117	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-117	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-117	Oct-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-117	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-117	Oct-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-118	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-118	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-118	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-118	Oct-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-118	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-118	Oct-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-119	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-119	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-119	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-119	Oct-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-119	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-119	Oct-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104

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Appendix B, Table B.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2023 Annual Groundwater Monitoring Report

HF Sinclair 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) - 8011	1,2-Dibromoethane (Ethylene dibromide) - 8260	1,2-Di-chloroethane	1,2-Di-chloropropane	1,3,5-Trimethyl-benzene
				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	0.000570	0.200	0.0100	0.00500	0.0250	0.00700	0.0560	0.0000500	0.0000500	0.00500	0.00500	0.0600
				CGWSL Source:	USEPA TW	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	USEPA TW
Area	**Well ID**	**Date**	**Dup**													
North RO Field	MW-140	Mar-23														
	MW-140	Oct-23														
	MW-141	Mar-23														
	MW-141	Oct-23														
	MW-142	Mar-23														
	MW-142	Oct-23														
	MW-143	Mar-23														
	MW-143	Oct-23														
South Refinery	KWB-2R	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	**0.148**		**<0.000381**	<0.000361	<0.000306	0.00172
	KWB-2R	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383 J4	<0.000259	<0.000398	**0.139**		**<0.000381** J4	<0.000361	<0.000306	0.00233
	KWB-2R	Mar-23		**<0.000735**	<0.000745	<0.000665	<0.000790	<0.000500	<0.000940	**0.0649**		**<0.000630**	<0.000409	<0.000745	0.0201
	KWB-2R	Oct-23		**<0.000735**	<0.000745	<0.000665	<0.000790	<0.000500	<0.000940	0.00513		**<0.000630**	<0.000409	<0.000745	0.00235 J
	KWB-5	Oct-17		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	**<0.0932**		**<0.000381**	<0.000361	<0.000306	<0.000387
	KWB-5	Apr-18		**<0.0962**	<0.0798	**<0.0325**	**<0.0958**	**<0.0648**	**<0.0995**	**<0.0932**		**<0.0952**	**<0.0902**	**<0.0765**	**<0.0968**
	KWB-5	Oct-18		**<0.0962**	<0.0798	**<0.0325**	**<0.0958**	**<0.0648**	**<0.0995**	**<0.0932**		**<0.0952**	**<0.0902**	**<0.0765**	**<0.0968**
	KWB-5	Apr-19		**<0.0962**	<0.0798	**<0.0325**	**<0.0958**	**<0.0648**	**<0.0995**	**<0.0932**		**<0.0952**	**<0.0902**	**<0.0765**	**<0.0968**
	KWB-6	Apr-17		**<0.00192**	<0.00160	<0.000650	<0.00192	<0.00130	<0.00199	**0.399**		**<0.00190**	0.00451 J	<0.00153	0.0517
	KWB-6	Oct-17		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	**0.206**		**<0.000381**	<0.000361	<0.000306	0.0302
	KWB-6	Apr-18		**<0.00770**	<0.00638	<0.00260	**<0.00766**	<0.00518	**<0.00796**	**0.164**		**<0.00762**	**<0.00722**	**<0.00612**	0.0557
	KWB-6	Oct-18		**<0.00770**	<0.00638	<0.00260	**<0.00766**	<0.00518	**<0.00796**	**0.122**		**<0.00762**	**<0.00722**	**<0.00612**	**0.0611**
	MW-28	Apr-19		**<0.0192**	<0.0160	<0.00650	**<0.0192** J4	<0.0130	**<0.0199**	**0.107**		**<0.0190**	**<0.0180**	**<0.0153**	<0.0194
	MW-28	Oct-19		**<0.0193**	<0.0159	<0.00650	**<0.0192**	<0.0130	**<0.0199**	**0.213**		**<0.0191**	**<0.0181**	**<0.0153**	0.0243 J
	MW-28	Jun-20		**<0.000735**	<0.000745	<0.000665	<0.000790	<0.000500	<0.000940	0.0527		**<0.000630**	<0.000409	<0.000745	<0.000520
	MW-28	Oct-20		**<0.000735**	<0.000745	<0.000665	<0.000790	<0.000500	<0.000940	0.0430		**<0.000630**	<0.000409	<0.000745	0.00133 J
	MW-48	Apr-18		**<0.0962**	<0.0798	**<0.0325**	**<0.0958**	**<0.0648**	**<0.0995**	**0.381**		**<0.0952**	**<0.0902**	**<0.0765**	**<0.0968**
	MW-48	Oct-18		**<0.0962**	<0.0798	**<0.0325**	**<0.0958**	**<0.0648**	**<0.0995**	**0.377**		**<0.0952**	**<0.0902**	**<0.0765**	**<0.0968**
	MW-48	Apr-19		**<0.0962**	<0.0798	**<0.0325**	**<0.0958**	**<0.0648**	**<0.0995**	**0.564**		**<0.0952**	**<0.0902**	**<0.0765**	**<0.0968**
	MW-48	Oct-19		**<0.0963**	<0.0798	**<0.0325**	**<0.0958**	**<0.0648**	**<0.0995**	**0.240 J**		**<0.0953**	**<0.0903**	**<0.0765**	**<0.0967**
	MW-50	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	0.000114 J	<0.000149	<0.000104
	MW-50	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.000688 J	<0.00000536	**<0.000126**	<0.0000819	<0.000149	0.000143 J
	MW-50	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.000435 J	<0.00000584	**<0.000126**	<0.0000819	<0.000149	0.000404 J
	MW-50	Oct-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.000450 J		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-50	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.000541 J		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-50	Oct-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.000669 J		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-52	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-52	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-52	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-52	Oct-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-52	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-52	Oct-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.00129		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-64	Apr-21		**<0.0735**	<0.0745	**<0.0665**	**<0.0790**	**<0.0500**	**<0.0940**	**0.436 J**		**<0.0630**	**<0.0409**	**<0.0745**	**0.0967 J**
	MW-64	Sep-21		**<0.00735**	<0.00745	<0.00665	**<0.00790**	<0.00500	**<0.00940**	**0.315**		**<0.00630**	<0.00409	**<0.00745**	**0.0602**
	MW-64	Apr-22		**<0.00368**	<0.00373	<0.00333	<0.00395	<0.00250	<0.00470	**0.483**		**<0.00315**	<0.00205	<0.00373	**0.0957**
	MW-64	Oct-22		**<0.0368**	<0.0373	**<0.0333**	**<0.0395**	<0.0250	**<0.0470**	**0.438**		**<0.0315**	**<0.0205**	**<0.0373**	**0.0964 J**
	MW-64	Mar-23		**<0.0735**	<0.0745	**<0.0665**	**<0.0790**	**<0.0500**	**<0.0940**	**0.596**		**<0.0630**	**<0.0409**	**<0.0745**	**0.142 J**
	MW-64	Oct-23		**<0.0147**	<0.0149	**<0.0133**	**<0.0158**	<0.0100	**<0.0188**	**0.580**		**<0.0126**	**<0.00819**	**<0.0149**	**0.125**
	MW-65	Apr-19		**<0.0385**	<0.0319	**<0.0130**	**<0.0383**	**<0.0259**	**<0.0398**	<0.0373		**<0.0381**	**<0.0361**	**<0.0306**	<0.0387
	MW-65	Oct-19		**<0.0385**	<0.0319	**<0.0130**	**<0.0383** J4	**<0.0259**	**<0.0398**	<0.0373		**<0.0381** J4	**<0.0361**	**<0.0306**	<0.0387
	MW-65	Mar-23		<0.000147	<0.000149	<0.000133 J3	<0.000158	<0.000100	<0.000188	0.00173		**<0.000126** J3	<0.0000819 J3	<0.000149	0.00101
	MW-65	Oct-23		**<0.00368**	<0.00373	<0.00333	<0.00395	<0.00250	<0.00470	<0.00805		**<0.00315**	<0.00205	<0.00373	<0.00260
	MW-66	Oct-19		**<0.00963**	<0.00797	<0.00325	**<0.00958**	<0.00648	**<0.00995**	<0.00933		**<0.00953**	**<0.00903**	**<0.00765**	<0.00968
	MW-66	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.000705 J		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-66	Oct-20		**<0.00147**	<0.00149	<0.00133	<0.00158	<0.00100	<0.00188	<0.00322		**<0.00126**	<0.000819	<0.00149	<0.00104
	MW-66	Apr-21		**<0.00147**	<0.00149	<0.00133	<0.00158	<0.00100	<0.00188	0.00570 J		**<0.00126**	<0.000819	<0.00149	0.00114 J
	MW-99	Oct-18		**<0.0385**	<0.0319	**<0.0130**	**<0.0383**	**<0.0259**	**<0.0398**	**0.284**		**<0.0381**	**<0.0361**	**<0.0306**	<0.0387
	MW-99	Apr-19		**<0.0385**	<0.0319	**<0.0130**	**<0.0383** J4	**<0.0259**	**<0.0398**	**0.352**		**<0.0381**	**<0.0361**	**<0.0306**	<0.0387
	MW-99	Oct-19		**<0.0385**	<0.0319	**<0.0130**	**<0.0383**	**<0.0259**	**<0.0398**	**0.234**		**<0.0381**	**<0.0361**	**<0.0306**	<0.0387
	MW-99	Jun-20		**<0.00147**	<0.00149	<0.00133	<0.00158	<0.00100	<0.00188	**0.149**		**<0.00126**	<0.000819	<0.00149	<0.00104
	MW-101	Apr-21		**<0.00294**	<0.00298	<0.00266	<0.00316	<0.00200	<0.00376	<0.00644		**<0.00252**	<0.00164	<0.00298	<0.00208
	MW-101	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.00172		**<0.000126**	<0.0000819	<0.000149	0.000333 J
	MW-101	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.000845 J		**<0.000126**	<0.0000819	<0.000149	0.000556 J
	MW-101	Oct-22		<0.000147	<0.000149	0.000509 J	0.00134	<0.000100	<0.000188	0.00640		**<0.000126**	<0.0000819	0.000235 J	0.000484 J
	MW-101	Mar-23		**<0.00147**	<0.00149	<0.00133	<0.00158	<0.00100	<0.00188	**0.0707**		**<0.00126**	<0.000819	<0.00149	0.00255 J
	MW-101	Oct-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-102	Apr-21		**<0.0147**	<0.0149	**<0.0133**	**<0.0158**	<0.0100	**<0.0188**	**0.114**		**<0.0126**	**<0.00819**	**<0.0149**	<0.0104
	MW-102	Sep-21		**<0.00735**	<0.00745	<0.00665	**<0.00790**	<0.00500	**<0.00940**	**0.131**	<0.00000536	**<0.00630**	<0.00409	**<0.00745**	0.00901 J
	MW-102	Sep-21	FD	**<0.00735**	<0.00745	<0.00665	**<0.00790**	<0.00500	**<0.00940**	**0.139**	<0.00000536	**<0.00630**	<0.00409	**<0.00745**	0.0110 J
	MW-102	Apr-22		**<0.00735**	<0.00745	<0.00665	**<0.00790**	<0.00500	**<0.00940**	**0.119**	<0.00000552	**<0.00630**	<0.00409	**<0.00745**	0.0326 JB
	MW-102	Apr-22	FD	**<0.00368**	<0.00373	<0.00333	<0.00395	<0.00250	<0.00470	**0.123**	<0.00000557	**<0.00315**	<0.00205	<0.00373	0.0192 J
	MW-102	Oct-22		**<0.0368**	<0.0373	**<0.0333**	**<0.0395**	<0.0250	**<0.0470**	**0.171 J**		**<0.0315**	**<0.0205**	**<0.0373**	0.0398 J
	MW-102	Oct-22	FD	**<0.0368**	<0.0373	**<0.0333**	**<0.0395**	<0.0250	**<0.0470**	**0.171 J**		**<0.0315**	**<0.0205**	**<0.0373**	0.0402 J
	MW-102	Mar-23		**<0.0294**	<0.0298	**<0.0266**	**<0.0316**	<0.0200	**<0.0376**	**0.184 J**		**<0.0252**	**<0.0164**	**<0.0298**	0.0382 J
	MW-102	Mar-23	FD	**<0.0147**	<0.0149	**<0.0133**	**<0.0158**	<0.0100	**<0.0188**	**0.159**		**<0.0126**	**<0.00819**	**<0.0149**	0.0299 J
	MW-102	Oct-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	**0.190**		**<0.000126**	<0.0000819	<0.000149	0.0351
	MW-102	Oct-23	FD	**<0.0368**	<0.0373	**<0.0333**	**<0.0395**	<0.0250	**<0.0470**	**0.143 J**		**<0.0315**	**<0.0205**	**<0.0373**	0.0311 J
	MW-103	Jun-20		**<0.00294**	<0.00298	<0.00266	<0.00316	<0.00200	<0.00376	<0.00644		**<0.00252**	<0.00164	<0.00298	<0.00208
	MW-103	Apr-21		**<0.00294**	<0.00298	<0.00266	<0.00316	<0.00200	<0.00376	<0.00644		**<0.00252**	<0.00164	<0.00298	<0.00208
	MW-103	Apr-22		**<0.00147**	<0.00149	<0.00133	<0.00158	<0.00100	<0.00188	<0.00322		**<0.00126**	<0.000819	<0.00149	<0.00104
	MW-103	Mar-23		**<0.00147**	<0.00149	<0.00133	<0.00158	<0.00100	<0.00188	<0.00322		**<0.00126**	<0.000819	<0.00149	<0.00104
	MW-104	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-104	Apr-21	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-104	Sep-21		**<0.000735**	<0.000745	<0.000665	<0.000790	<0.000500	<0.000940	<0.00161 J4		**<0.000630**	<0.000409	<0.000745	<0.000520 J4
	MW-104	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-104	Oct-22		<0.000147	<0.000149	0.000258 J	0.00474	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-104	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-104	Oct-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-105	Apr-21		**<0.0147**	<0.0149	**<0.0133**	**<0.0158**	<0.0100	**<0.0188**	**0.0594 J**		**<0.0126**	**<0.00819**	**<0.0149**	<0.0104
	MW-105	Apr-22		**<0.00368**	<0.00373	<0.00333	<0.00395	<0.00250	<0.00470	0.0444		**<0.00315**	<0.00205	<0.00373	0.00611 J
	MW-105	Oct-22		**<0.0147**	<0.0149	**<0.0133**	**<0.0158**	<0.0100	**<0.0188**	0.0428 J		**<0.0126**	**<0.00819**	**<0.0149**	<0.0104
	MW-105	Mar-23		**<0.0147**	<0.0149	**<0.0133**	**<0.0158**	<0.0100	**<0.0188**	0.0363 J		**<0.0126**	**<0.00819**	**<0.0149**	<0.0104
	MW-105	Oct-23		**<0.000735**	<0.000745	<0.000665	<0.000790	<0.000500	<0.000940	0.0244		**<0.000630**	<0.000409	<0.000745	0.00336 J
	MW-106	Jun-20		**<0.0147**	<0.0149	**<0.0133**	**<0.0158**	<0.0100	**<0.0188**	**0.0861 J**		**<0.0126**	**<0.00819**	**<0.0149**	0.0146 J
	MW-106	Oct-20		**<0.0294**	<0.0298	**<0.0266**	**<0.0316**	<0.0200	**<0.0376**	**0.0943 J**		**<0.0252**	**<0.0164**	**<0.0298**	<0.0208
	MW-106	Apr-21		**<0.0294**	<0.0298	**<0.0266**	**<0.0316**	<0.0200	**<0.0376**	**0.116 J**		**<0.0252**	**<0.0164**	**<0.0298**	<0.0208
	MW-106	Oct-23		**<0.00147**	<0.00149	<0.00133	<0.00158	<0.00100	<0.00188	0.0301		**<0.00126**	<0.000819	<0.00149	0.00603 J
	MW-107	Oct-15		**<0.0385**	<0.0319	**<0.0130**	**<0.0383**	**<0.0259**	**<0.0398**	**0.100**	**<0.0381**		**<0.0361**	**<0.0306**	<0.0387
	MW-107	Apr-17		**<0.0192**	<0.0160	<0.00650	**<0.0192**	<0.0130	**<0.0199**	<0.0186		**<0.0190**	**<0.0180**	**<0.0153**	<0.0194
	MW-107	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.00228		**<0.000381**	<0.000361	<0.000306	0.00425
	MW-107	Apr-19		**<0.0962**	<0.0798	**<0.0325**	**<0.0958** J4	**<0.0648**	**<0.0995**	**<0.0932**		**<0.0952**	**<0.0902**	**<0.0765**	**<0.0968**
	MW-109	Apr-21		**<0.00147**	<0.00149	<0.00133	<0.00158	<0.00100	<0.00188	<0.00322		**<0.00126**	<0.000819	<0.00149	<0.00104
	MW-109	Sep-21		**<0.00368**	<0.00373	<0.00333	<0.00395	<0.00250	<0.00470	<0.00805		**<0.00315**	<0.00205	<0.00373	<0.00260
	MW-109	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.00292		**<0.000126**	<0.0000819	<0.000149	0.00130
	MW-109	Oct-22		**<0.00368**	<0.00373	<0.00333	<0.00395	<0.00250	<0.00470	<0.00805		**<0.00315**	<0.00205	<0.00373	<0.00260
	MW-109	Mar-23		**<0.00735**	<0.00745	<0.00665	**<0.00790**	<0.00500	**<0.00940**	<0.0161		**<0.00630**	<0.00409	**<0.00745**	<0.00520
	MW-109	Oct-23		**<0.00368**	<0.00373	<0.00333	<0.00395	<0.00250	<0.00470	<0.00805		**<0.00315**	<0.00205	<0.00373	<0.00260

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Appendix B, Table B.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2023 Annual Groundwater Monitoring Report

HF Sinclair 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) - 8011	1,2-Dibromoethane (Ethylene dibromide) - 8260	1,2-Di-chloroethane	1,2-Di-chloropropane	1,3,5-Trimethyl-benzene
				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	0.000570	0.200	0.0100	0.00500	0.0250	0.00700	0.0560	0.0000500	0.0000500	0.00500	0.00500	0.0600
				CGWSL Source:	USEPA TW	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	USEPA TW
Area	**Well ID**	**Date**	**Dup**													
South Refinery	MW-110	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	0.000127 J
	MW-110	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-110	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.0316		**<0.000126**	<0.0000819	<0.000149	0.00428
	MW-110	Oct-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.00107		**<0.000126**	<0.0000819	<0.000149	0.000243 J
	MW-110	Mar-23		<0.000147	<0.000149	<0.000133	0.00287	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-110	Oct-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.000456 J		**<0.000126**	<0.0000819	<0.000149	0.000161 J
	MW-139	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-139	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-139	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-139	Oct-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-139	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-139	Oct-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	RA-313	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	RA-313	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	RA-313	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	RA-313	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	RW-4	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383 J4	<0.000259	<0.000398	0.00105		**<0.000381**	<0.000361	<0.000306	0.000400 J
	RW-4	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.000958 J		**<0.000126**	<0.0000819	<0.000149	0.000329 J
	RW-4	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.00184		**<0.000126**	<0.0000819	<0.000149	0.000602 JB
	RW-4	Mar-23		<0.000147	<0.000149	<0.000133	0.00194	<0.000100	<0.000188	0.00279		**<0.000126**	<0.0000819	<0.000149	0.000271 J
	RW-5R	Apr-15		**<0.00380**	<0.00319	<0.00130	<0.00380	<0.00260	<0.00400	**0.298**	**<0.00380**		<0.00360	<0.00310	0.0558
	RW-6R	Apr-16		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.00555		**<0.000381**	<0.000361	<0.000306	0.00111
	RW-6	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.0143		**<0.000381**	<0.000361	<0.000306	0.00259
	RW-6	Apr-19		**<0.00770**	<0.00638	<0.00260	**<0.00766** J4	<0.00518	**<0.00796**	0.0110 J		**<0.00762**	**<0.00722**	**<0.00612**	<0.00774
	RW-6	Mar-23		**<0.00368**	<0.00373	<0.00333 J3	<0.00395	<0.00250	<0.00470	**0.225**		**<0.00315** J3	<0.00205 J3	<0.00373	0.0456
	RW-15C	Apr-17		**<0.00962**	<0.00798	<0.00325	**<0.00958**	<0.00648	**<0.00995**	**1.46**		**<0.00952**	**<0.00902**	**<0.00765**	**0.231**
	RW-15C	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	**1.06**		**<0.000381**	<0.000361	<0.000306	**0.138**
	RW-15C	Apr-19		**<0.00385**	<0.00319	<0.00130	<0.00383	<0.00259	<0.00398	**0.728**		**<0.00381**	<0.00361	<0.00306	0.0476
South RO Field	MW-114	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	0.000160 J	<0.000149	<0.000104
	MW-114	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.00000536	**<0.000126**	<0.0000819	<0.000149	0.000276 J
	MW-114	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.00000568	**<0.000126**	<0.0000819	<0.000149	0.000358 JB
	MW-114	Oct-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-114	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-114	Oct-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-115	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-115	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-115	Apr-22		**<0.00147**	<0.00149	<0.00133	<0.00158	<0.00100	<0.00188	<0.00322		**<0.00126**	<0.000819	<0.00149	<0.00104
	MW-115	Oct-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-115	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-115	Oct-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-116	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-116	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-116	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-116	Oct-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-116	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-144	Mar-23													
	MW-144	Oct-23													
TEL	MW-49	Apr-21		**<0.00368**	<0.00373	<0.00333	<0.00395	<0.00250	<0.00470	0.0527		**<0.00315**	<0.00205	<0.00373	0.0105 J
	MW-49	Sep-21		**<0.00147**	<0.00149	<0.00133	<0.00158	<0.00100	<0.00188	0.0403		**<0.00126**	<0.000819	<0.00149	0.00713 J
	MW-49	Apr-22		**<0.000735**	<0.000745	<0.000665	<0.000790	<0.000500	<0.000940	**0.0603**		**<0.000630**	<0.000409	<0.000745	0.00959
	MW-49	Oct-22		<0.000147	<0.000149	0.00138	0.00140	0.00191	<0.000188	**0.0719**		**<0.000126**	0.000105 J	0.000364 J	0.00818
	MW-49	Mar-23		**<0.00147**	<0.00149	<0.00133	<0.00158	<0.00100	<0.00188	**0.0804**		**<0.00126**	<0.000819	<0.00149	0.0107
	MW-49	Oct-23		**<0.00147**	<0.00149	<0.00133	<0.00158	<0.00100	<0.00188	**0.179**		**<0.00126**	<0.000819	<0.00149	0.0228
	TEL-1	Oct-18		**<0.00192**	<0.00160	<0.000650	<0.00192	<0.00130	<0.00199	<0.00186		**<0.00190**	<0.00180	<0.00153	<0.00194
	TEL-1	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383 J4	<0.000259	<0.000398	0.000820 J		**<0.000381**	<0.000361	<0.000306	<0.000387
	TEL-1	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.00140		**<0.000381**	<0.000361	<0.000306	<0.000387
	TEL-1	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.00114		**<0.000126**	<0.0000819	<0.000149	0.000302 J
	TEL-2	Oct-18		**<0.00962**	<0.00798	<0.00325	**<0.00958**	<0.00648	**<0.00995**	**0.115**		**<0.00952**	**<0.00902**	**<0.00765**	0.0165 J
	TEL-2	Apr-19		**<0.00385**	<0.00319	<0.00130	<0.00383 J4	<0.00259	<0.00398	**0.0639**		**<0.00381**	<0.00361	<0.00306	0.00655 J
	TEL-2	Oct-19		**<0.00385**	<0.00319	<0.00130	<0.00383	<0.00259	<0.00398	**0.0603**		**<0.00381**	<0.00361	<0.00306	0.00551 J
	TEL-2	Jun-20		**<0.00147**	<0.00149	<0.00133	<0.00158	<0.00100	<0.00188	0.0402		**<0.00126**	<0.000819	<0.00149	0.00377 J
	TEL-3	Apr-18		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.0200		**<0.000381**	<0.000361	<0.000306	0.000983 J
	TEL-3	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383 J4	<0.000259	<0.000398	0.0226		**<0.000381**	<0.000361	<0.000306	<0.000387
	TEL-3	Oct-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.0379		**<0.000381**	<0.000361	<0.000306	<0.000387
	TEL-3	Oct-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	**0.0659**		**<0.000126**	<0.0000819	<0.000149	0.00147
	TEL-4	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.00286		**<0.000126**	<0.0000819	<0.000149	0.000486 J
	TEL-4	Apr-21	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.00291		**<0.000126**	<0.0000819	<0.000149	0.000488 J
	TEL-4	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.00135		**<0.000126**	<0.0000819	<0.000149	<0.000104
	TEL-4	Sep-21	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.00128		**<0.000126**	<0.0000819	<0.000149	0.000193 J
	TEL-4	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.000892 J		**<0.000126**	<0.0000819	<0.000149	<0.000104
	TEL-4	Apr-22	FD	**<0.000735**	<0.000745	<0.000665	<0.000790	<0.000500	<0.000940	<0.00161		**<0.000630**	<0.000409	<0.000745	<0.000520
	TEL-4	Oct-22		<0.000147	<0.000149	0.000934 J	0.00277	<0.000100	<0.000188	0.00131		**<0.000126**	<0.0000819	<0.000149	0.000124 J
	TEL-4	Oct-22	FD	<0.000147	<0.000149	0.00102	0.00244	<0.000100	<0.000188	0.00141		**<0.000126**	<0.0000819	<0.000149	0.000120 J
	TEL-4	Mar-23		**<0.00294**	<0.00298	<0.00266	<0.00316	<0.00200	<0.00376	<0.00644		**<0.00252**	<0.00164	<0.00298	<0.00208
	TEL-4	Mar-23	FD	**<0.00294**	<0.00298	<0.00266	<0.00316	<0.00200	<0.00376	<0.00644		**<0.00252**	<0.00164	<0.00298	<0.00208
	TEL-4	Oct-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.000723 J		**<0.000126**	<0.0000819	<0.000149	<0.000104
	TEL-4	Oct-23	FD	<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	0.000835 J		**<0.000126**	<0.0000819	<0.000149	<0.000104
Three Mile Ditch	MW-8	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-8	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-8	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-8	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-16	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-16	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-16	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-16	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-20	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-20	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-20	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-20	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-21	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-21	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-21	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-21	Oct-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-21	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-21	Oct-23		**<0.000735**	<0.000745	<0.000665	<0.000790	<0.000500	<0.000940	<0.00161		**<0.000630**	<0.000409	<0.000745	<0.000520
	MW-25	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-25	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-25	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-25	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-26	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-26	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-26	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-26	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104

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Appendix B, Table B.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2023 Annual Groundwater Monitoring Report

HF Sinclair 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) - 8011	1,2-Dibromoethane (Ethylene dibromide) - 8260	1,2-Di-chloroethane	1,2-Di-chloropropane	1,3,5-Trimethyl-benzene
				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	0.000570	0.200	0.0100	0.00500	0.0250	0.00700	0.0560	0.0000500	0.0000500	0.00500	0.00500	0.0600
				CGWSL Source:	USEPA TW	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	WQCC HH	USEPA TW
Area	**Well ID**	**Date**	**Dup**													
Three Mile Ditch	MW-27	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-27	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-27	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-27	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-46R	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-46R	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-46R	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-46R	Oct-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-46R	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-46R	Oct-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-68	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-68	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-68	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-68	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-71	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	0.000171 J	<0.000149	<0.000104
	MW-71	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	0.000156 J	<0.000149	<0.000104
	MW-71	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.00000536	**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-71	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.00000579	**<0.000126**	0.000184 J	<0.000149	<0.000104
	MW-89	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-89	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-89	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	MW-89	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	NP-1	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	NP-1	Sep-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.00805	<0.00000536	**<0.000126**	<0.0000819	<0.000149	0.000215 J
	NP-1	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322	<0.00000568	**<0.000126**	<0.0000819	<0.000149	<0.000104
	NP-1	Oct-22		**<0.00294**	<0.00298	<0.00266	<0.00316	<0.00200	<0.00376	<0.00644		**<0.00252**	<0.00164	<0.00298	<0.00208
	NP-1	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	0.000121 J	<0.000149	<0.000104
	NP-1	Oct-23		**<0.00294**	<0.00298	<0.00266	<0.00316	<0.00200	<0.00376	<0.00644		**<0.00252**	<0.00164	<0.00298	<0.00208
	NP-6	Apr-17		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373		**<0.000381**	<0.000361	<0.000306	<0.000387
	NP-6	Apr-19		<0.000385	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373		**<0.000381**	<0.000361	<0.000306	<0.000387
	NP-6	Apr-21		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	NP-6	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	0.000426 J	<0.000149	<0.000104
Upgradient	UG-1	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	UG-1	Apr-21		<0.000147	<0.000149 J4	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	UG-1	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	UG-1	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	UG-2	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	UG-2	Apr-21		<0.000147	<0.000149 J4	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	UG-2	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	UG-2	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	UG-3R	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	UG-3R	Apr-21		<0.000147	<0.000149 J4	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	UG-3R	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	UG-3R	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	UG-4	Jun-20		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	UG-4	Apr-21		<0.000147	<0.000149 J4	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	UG-4	Apr-22		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104
	UG-4	Mar-23		<0.000147	<0.000149	<0.000133	<0.000158	<0.000100	<0.000188	<0.000322		**<0.000126**	<0.0000819	<0.000149	<0.000104

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Appendix B, Table B.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2023 Annual Groundwater Monitoring Report
HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	Volatile Organic Compounds													
				Analyte	2-Butanone (MEK)	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	Chloro-benzene	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	mg/L
				CGWSL	5.56	0.0380	---	1.24	14.1	0.00500	0.0800	0.00330	0.00754	0.810	0.00500	0.100	20.9
				CGWSL Source:	NMED TW	USEPA TW	---	NMED TW	TMED TW	WQCC HH	USEPA MCL	USEPA MCL	NMED TW	NMED TW	WQCC HH	USEPA MCL	NMED TW
Area	Well ID	Date	Dup														
Cross-Gradient	KWB-13	Jun-20		<0.00119	<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		<0.00119	<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
	KWB-13	Apr-22		<0.00119	<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-13	Mar-23		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	0.0000985 JB	<0.000128	<0.000116	<0.000192
	MW-136	Apr-21		<0.00119	<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		<0.00119	<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	Apr-22		<0.00119	<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	Oct-22		<0.00119	<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	Mar-23		<0.00119	<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	Oct-23		<0.00119	<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-149	Oct-23		<0.00119	<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-150	Oct-23		<0.00119	<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-17		<0.00393	<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		<0.00393	<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		<0.00119	<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	Mar-23		<0.00119	<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-19		<0.00393	<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		<0.00119	<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		<0.00119	<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-22		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	0.000329 J	<0.000128	<0.000116	<0.000192
Evaporation Ponds	MW-1R	Jun-20		<0.00119	<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		<0.00119	<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-22		<0.00119	<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	Mar-23		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	0.000119 J	<0.000128	<0.000116	<0.000192
	MW-2A	Apr-21		<0.00119	<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-2A	Apr-22		<0.00119	<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-22														
	MW-2A	Mar-23		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	0.000204 JB	<0.000128	<0.000116	<0.000192
	MW-2A	Oct-23														
	MW-3	Apr-21		<0.0298	<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	<0.00119	<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-3	Apr-22		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	0.000360 JB	<0.000128	<0.000116	<0.000192
	MW-3	Apr-22	FD	<0.00119	<0.000787	<0.000120	<0.000478	<0.0113 J3	<0.0000941	<0.000136	<0.000129 J4	<0.000605	<0.0000962 J4	<0.000128	<0.000116	<0.000192
	MW-3	Oct-22														
	MW-3	Oct-22	FD													
	MW-3	Mar-23		<0.00119	<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	Mar-23	FD	<0.00119 J3	<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	Oct-23														
	MW-3	Oct-23	FD													
	MW-4A	Apr-21		<0.00119	<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-4A	Apr-22		<0.00119	<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-22														
	MW-4A	Mar-23		<0.00119 J3	<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-23														
	MW-4B	Apr-17		<0.00393	<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		<0.00393	<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		<0.00119	<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-4B	Mar-23		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	0.000168 JB	<0.000128	<0.000116	<0.000192
	MW-5A	Apr-21		<0.00119	<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-5A	Apr-22		<0.00119	<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-22														
	MW-5A	Mar-23		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	0.000169 JB	<0.000128	<0.000116	<0.000192
	MW-5A	Oct-23														
	MW-5B	Apr-17		<0.00393	<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		<0.00393	<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		<0.00119	<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-5B	Mar-23		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	0.000166 JB	<0.000128	<0.000116	<0.000192
	MW-5C	Apr-17		<0.00393	<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		<0.00393	<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		<0.00119	<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	Mar-23		<0.00119	<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	Jun-20		<0.00595	<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		<0.00595	<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-22		<0.00119	<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	Mar-23		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	0.000567 JB	<0.000128	<0.000116	<0.000192
	MW-6B	Apr-17		<0.00393	<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		<0.00393	<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		<0.00119	<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-6B	Mar-23		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	0.000213 JB	<0.000128	<0.000116	<0.000192
	MW-7A	Apr-21		<0.00119	<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	<0.00119	<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		<0.00119	<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	<0.00119	<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		<0.00119	<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	<0.00119	<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-22		<0.00119	<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-22	FD	<0.00119	<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-22		<0.00119	<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-22	FD	<0.00119	<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	Mar-23		<0.00119	<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	Mar-23	FD	<0.00119	<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-23		<0.00119	<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-23	FD	<0.00119	<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-17		<0.00393	<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		<0.00393	<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		<0.00119	<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	Mar-23		<0.00119	<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		<0.00119	<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-10	Apr-22		<0.00119	<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-22														
	MW-10	Mar-23		<0.00119 J3	<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-23														
	MW-11A	Apr-21		<0.00119	<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														
	MW-11A	Apr-22		<0.00119	<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-22														
	MW-11A	Mar-23		<0.00119	<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
	MW-11A	Oct-23														

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Appendix B, Table B.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2023 Annual Groundwater Monitoring Report

HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	Volatile Organic Compounds													
				Analyte	2-Butanone (MEK)	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	Chloro-benzene	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	mg/L
				CGWSL	5.56	0.0380	---	1.24	14.1	0.00500	0.0800	0.00330	0.00754	0.810	0.00500	0.100	20.9
				CGWSL Source:	NMED TW	USEPA TW	---	NMED TW	TMED TW	WQCC HH	USEPA MCL	USEPA MCL	NMED TW	NMED TW	WQCC HH	USEPA MCL	NMED TW
Area	**Well ID**	**Date**	**Dup**														
Evaporation Ponds	MW-11B	Apr-17			<0.00393	<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			<0.00393	<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			<0.00119	<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-11B	Mar-23			<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	0.000308 JB	<0.000128	<0.000116	<0.000192
	MW-15	Jun-20			<0.00119	<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			<0.00119	<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-22			<0.00119	<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	Mar-23			<0.00119	<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			<0.00119	<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-18A	Apr-22			<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	0.000179 J	<0.000136	<0.000129	<0.000605	0.000567 JB	<0.000128	<0.000116	<0.000192
	MW-18A	Oct-22															
	MW-18A	Mar-23			<0.00119	<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-23															
	MW-18B	Apr-17			<0.00393	<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			<0.00393	<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			<0.00119	<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-18B	Mar-23			<0.00119	<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			<0.00119	<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		<0.00119	<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-22A	Apr-22			<0.00119	<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-22	FD		<0.00119	<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-22															
	MW-22A	Oct-22	FD														
	MW-22A	Mar-23			<0.00119	<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	Mar-23	FD		<0.00119 J3	<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-23															
	MW-22A	Oct-23	FD														
	MW-22A	Oct-23															
	MW-22A	Oct-23	FD														
	MW-22B	Apr-17			<0.00393	<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			<0.00393	<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			<0.00119	<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-22B	Mar-23			<0.00119 J3	<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-21			<0.00119	<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-70	Apr-22			<0.00119	<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-22															
	MW-70	Mar-23			<0.00119	<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-23															
	MW-72	Jun-20			<0.00119	<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			<0.00119	<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-22			<0.00119	<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	Mar-23			<0.00119	<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	Jun-20			<0.00119	<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			<0.00119	<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-22			<0.00119	<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	Mar-23			<0.00119 J3	<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			<0.00119	<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-74	Apr-22			<0.00119	<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-22															
	MW-74	Mar-23			<0.00119 J3	<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-23															
	MW-75	Apr-21			<0.0298	<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-75	Apr-22			<0.00119	<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-75	Oct-22															
	MW-75	Mar-23			<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	0.000126 J	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-75	Oct-23															
	MW-76	Apr-21			<0.00119	<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-76	Apr-22			<0.00119	<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-22															
	MW-76	Mar-23			<0.00119	<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-23															
	MW-77	Jun-20			<0.0298	<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			<0.0298	<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-22			0.00144 J	<0.000787	<0.000120	<0.000478	0.0152 J	0.000174 J	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-77	Mar-23			<0.0119 J3	<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-78	Jun-20			<0.00119	<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			0.00270 J	<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-78	Apr-22			<0.0119	<0.00787	<0.00120	<0.00478	<0.113	<0.000941	<0.00136	<0.00129	<0.00605	0.00661 JB	<0.00128	<0.00116	<0.00192
	MW-78	Mar-23			<0.0119 J3	<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-79	Apr-21			<0.00119	<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-79	Apr-22			<0.00119	<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	Oct-22															
	MW-79	Mar-23			<0.00119 J3	<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	Oct-23															
	MW-80	Jun-20			<0.00119	<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			<0.00119	<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-80	Apr-22			<0.00119	<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-80	Mar-23			<0.00119 J3	<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	Jun-20			<0.00119	<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			<0.00119	<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-22			<0.00119	<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	Mar-23			<0.00119 J3	<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	Jun-20			<0.00119	<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			<0.00119	<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-22			<0.00119	<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	Mar-23			<0.00119 J3	<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-21			<0.00119	<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-83	Apr-22			<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	0.000380 JB	<0.000128	<0.000116	<0.000192
	MW-83	Oct-22															
	MW-83	Mar-23			<0.00119	<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-23															
	MW-84	Apr-21			<0.0119	<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															
	MW-84	Apr-22			<0.0238	<0.0157	0.00689 J	<0.00956	<0.226	0.00441 J	<0.00272	<0.00258	**<0.0121**	0.0160 JB	<0.00256	<0.00232	<0.00384
	MW-84	Oct-22															
	MW-84	Mar-23			<0.0119 J3	<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	Oct-23															

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Appendix B, Table B.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2023 Annual Groundwater Monitoring Report
HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	Volatile Organic Compounds													
				Analyte	2-Butanone (MEK)	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	Chloro-benzene	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	mg/L
				CGWSL	5.56	0.0380	---	1.24	14.1	0.00500	0.0800	0.00330	0.00754	0.810	0.00500	0.100	20.9
				CGWSL Source:	NMED TW	USEPA TW	---	NMED TW	TMED TW	WQCC HH	USEPA MCL	USEPA MCL	NMED TW	NMED TW	WQCC HH	USEPA MCL	NMED TW
Area	**Well ID**	**Date**	**Dup**														
Evaporation Ponds	MW-86	Jun-20		<0.0238	<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		<0.0238	<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-21		<0.00119	<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-87	Apr-22		<0.00119	<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-22														
	MW-87	Mar-23		<0.00119	<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-23														
	MW-88	Apr-21		<0.00119	<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-88	Apr-22		<0.00119	<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-22														
	MW-88	Mar-23		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	0.0000970 J	<0.000128	<0.000116	<0.000192
	MW-88	Oct-23														
	MW-120	Apr-21		<0.00595	<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		<0.00119	<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-120	Apr-22		<0.00119	<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-120	Oct-22		<0.00119	<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-120	Mar-23		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	0.000201 JB	<0.000128	<0.000116	<0.000192
	MW-120	Oct-23		<0.00119	<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		<0.00119	<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-121	Apr-22		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	0.000159 J	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-121	Oct-22														
	MW-121	Mar-23		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	0.000151 JB	<0.000128	<0.000116	<0.000192
	MW-121	Oct-23														
	MW-122	Apr-21		<0.00119	<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-122	Apr-22		<0.00119	<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	Oct-22														
	MW-122	Mar-23		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	0.000141 JB	<0.000128	<0.000116	<0.000192
	MW-122	Oct-23														
	MW-123	Apr-21		<0.00119	<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-123	Apr-22		<0.00119	<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-22														
	MW-123	Mar-23		<0.00119 J3	<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-23														
	MW-124	Apr-21		<0.00119	<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														
	MW-124	Apr-22		<0.00119	<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-22														
	MW-124	Mar-23		<0.00119	<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-23														
	OCD-1R	Apr-21		<0.00119	<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-1R	Apr-22		<0.00119	<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-22														
	OCD-1R	Mar-23		<0.00119 J3	<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-23														
	OCD-2A	Apr-21		<0.00119	<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-2A	Apr-22		<0.00119	<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-22														
	OCD-2A	Mar-23		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	0.000317 JB	<0.000128	<0.000116	<0.000192
	OCD-2A	Oct-23														
	OCD-3	Apr-21		<0.00119	<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-3	Apr-22		<0.00119	<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-22														
	OCD-3	Mar-23		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	0.000456 JB	<0.000128	<0.000116	<0.000192
	OCD-3	Oct-23														
	OCD-4	Apr-21		<0.00119	<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-4	Apr-22		<0.00119	<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-22														
	OCD-4	Mar-23		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	0.000285 JB	<0.000128	<0.000116	<0.000192
	OCD-4	Oct-23														
	OCD-5	Apr-21		<0.00119	<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-5	Apr-22		<0.00119	<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-22														
	OCD-5	Mar-23		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	0.000282 JB	<0.000128	<0.000116	<0.000192
	OCD-5	Oct-23														
	OCD-6	Apr-21		<0.00119	<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-6	Apr-22		<0.00119	<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-22														
	OCD-6	Mar-23		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	0.000203 JB	<0.000128	<0.000116	<0.000192
	OCD-6	Oct-23														
	OCD-7AR	Apr-21		<0.00119	<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-7AR	Apr-22		<0.00119	<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-22														
	OCD-7AR	Mar-23		<0.00119	<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-23														
	OCD-7B	Apr-17		<0.00393	<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		<0.00393	<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		<0.00119	<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-7B	Mar-23		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	0.000176 JB	<0.000128	<0.000116	<0.000192
	OCD-8A	Apr-21		<0.00119	<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-8A	Apr-22		<0.00119	<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-22														
	OCD-8A	Mar-23		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	0.000118 JB	<0.000128	<0.000116	<0.000192
	OCD-8A	Oct-23														
	OCD-8B	Apr-17		<0.00393	<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		<0.00393	<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		<0.00119	<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-8B	Mar-23		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	0.000168 JB	<0.000128	<0.000116	<0.000192

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Appendix B, Table B.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2023 Annual Groundwater Monitoring Report

HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	Volatile Organic Compounds													
				Analyte	2-Butanone (MEK)	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	Chloro-benzene	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	mg/L
				CGWSL	5.56	0.0380	---	1.24	14.1	0.00500	0.0800	0.00330	0.00754	0.810	0.00500	0.100	20.9
				CGWSL Source:	NMED TW	USEPA TW	---	NMED TW	TMED TW	WQCC HH	USEPA MCL	USEPA MCL	NMED TW	NMED TW	WQCC HH	USEPA MCL	NMED TW
Area	**Well ID**	**Date**	**Dup**														
Field East of Refinery	KWB-1A	Oct-20			<0.00119	<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-1A	Oct-22			0.00289 J	<0.000787	0.000827 J	<0.000478	<0.0113	0.000348 J	<0.000136	<0.000129 J4	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	KWB-1A	Mar-23			<0.00119	<0.000787	0.000604 J	<0.000478	<0.0113	0.000522 J	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	KWB-1A	Oct-23			<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	0.000717 J	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	KWB-1C	Apr-17			<0.00393	<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			<0.00393	<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			<0.00119	<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-1C	Mar-23			<0.00119	<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-7	Apr-21			<0.00119	<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			<0.00119	<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-7	Apr-22			<0.00119	<0.000787	<0.000120	0.000866 J	<0.0113	**0.190**	<0.000136	<0.000129	<0.000605	0.000662 J	<0.000128	<0.000116	<0.000192
	KWB-7	Oct-22			<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	0.00172	<0.000136	<0.000129	<0.000605	0.000156 JB	<0.000128	<0.000116	<0.000192
	KWB-7	Mar-23			<0.0595	**<0.0394**	<0.00600	<0.0239	<0.565	<0.00471	<0.00680	**<0.00645**	**<0.0303**	0.0125 JB	**<0.00640**	<0.00580	<0.00960
	KWB-7	Oct-23			<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	0.000223 J	<0.000136	<0.000129	<0.000605	0.000106 J	<0.000128	<0.000116	<0.000192
	KWB-8	Apr-17			<0.393	**<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			0.0885 V3	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			<0.238	**<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			<0.196	**<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			<0.00393	<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			<0.982	**<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			<0.982	**<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	Sep-21			<0.00119	<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-11A	Oct-22			<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	**0.0129**	<0.000136	<0.000129 J4	<0.000605	0.000151 J	<0.000128	<0.000116	<0.000192
	KWB-11A	Mar-23			<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	**0.0174**	<0.000136	<0.000129	<0.000605	0.000305 J	<0.000128	<0.000116	<0.000192
	KWB-11A	Oct-23			<0.00119	<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	Apr-21			<0.00119	<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			<0.00119	<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-11B	Apr-22			<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	0.000353 J	<0.000128	<0.000116	<0.000192
	KWB-11B	Oct-22			<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	0.000106 J	<0.000136	<0.000129 J4	<0.000605	0.000119 J	<0.000128	<0.000116	<0.000192
	KWB-11B	Mar-23			<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	0.000147 JB	<0.000128	<0.000116	<0.000192
	KWB-11B	Oct-23			<0.00119	<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-12A	Oct-20			<0.00119	<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			<0.00119	<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-12A	Oct-22			<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129 J4	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	KWB-12A	Oct-23			<0.00119	<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			<0.00119	<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		<0.00119	<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			<0.00119	<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		<0.00119	<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-22			<0.00119	<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-22	FD		<0.00119	<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-22			<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129 J4	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	KWB-12B	Oct-22	FD		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129 J4	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	KWB-12B	Mar-23			<0.00119	<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	Mar-23	FD		<0.00119	<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-23			<0.00119	<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-23	FD		<0.00119	<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-17			<0.00393	<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			<0.00393	<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			<0.00119	<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	Mar-23			<0.00119 J3	<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	Oct-20			<0.00119	<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			<0.00119	<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			<0.00119	<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-22			<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	0.000183 J	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-58	Oct-17			<0.00393	<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			<0.196	**<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			<0.196 J3J4	**<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			<0.0393	**<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			<0.0982	**<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			<0.00393	<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			<0.00393	<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			<0.0298	<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			<0.0980	**<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-21			<0.00595	<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		<0.00119	<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			<0.0595	**<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		<0.0298	<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-113	Apr-22			<0.00119	<0.000787	0.000514 J	<0.000478	<0.0113	**0.0436**	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-113	Apr-22	FD		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	**0.0524**	<0.000136	<0.000129	<0.000605	0.000473 J	<0.000128	<0.000116	<0.000192
	MW-113	Oct-22			<0.00119	<0.000787	0.0120	<0.000478	<0.0113	**8.50**	<0.000136	<0.000129 J4	<0.000605	0.000537 J	<0.000128	<0.000116	<0.000192
	MW-113	Oct-22	FD		<0.00119	<0.000787	0.0127	<0.000478	<0.0113	**8.52**	<0.000136	<0.000129	<0.000605	0.000787 J	<0.000128	<0.000116	<0.000192
	MW-113	Mar-23			<0.00119	<0.000787	0.00108	<0.000478	<0.0113	**0.0859**	<0.000136	<0.000129	<0.000605	0.000308 JB	<0.000128	<0.000116	<0.000192
	MW-113	Mar-23	FD		<0.00119	<0.000787	0.00140	<0.000478	<0.0113	**0.134**	<0.000136	<0.000129	<0.000605	0.000294 JB	<0.000128	<0.000116	<0.000192
	MW-113	Oct-23			<0.0595	**<0.0394**	<0.00600	<0.0239	<0.565	**7.19**	<0.00680	**<0.00645**	**<0.0303**	<0.00481	**<0.00640**	<0.00580	<0.00960
	MW-113	Oct-23	FD		<0.0595	**<0.0394**	<0.00600	<0.0239	<0.565	**7.02**	<0.00680	**<0.00645**	**<0.0303**	<0.00481	**<0.00640**	<0.00580	<0.00960
	MW-125	Apr-21			<0.00119	<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			<0.00119	<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-125	Apr-22			<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	0.000347 J	<0.000128	<0.000116	<0.000192
	MW-125	Oct-22			<0.00119	<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	Mar-23			<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	0.000129 JB	<0.000128	<0.000116	<0.000192
	MW-125	Oct-23			<0.00119	<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-126A	Apr-19			<0.00393	<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			<0.00393	<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			<0.00119	<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			<0.00119	<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			<0.00119	<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			<0.00119	<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	Apr-22			<0.00119	<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	Oct-22			<0.00119	<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	Mar-23			<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	0.000172 JB	<0.000128	<0.000116	<0.000192
	MW-126B	Oct-23			<0.00119	<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			<0.00393	<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			<0.0786	**<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			<0.0786	**<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			<0.0786	**<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			<0.00393	<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			<0.0786	**<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			<0.0786	**<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			<0.0786	**<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-15			<0.00390	<0.00380	<0.000350	<0.00210	<0.0100	**0.0372**	<0.000380	<0.000470	<0.000870	<0.0280	<0.000380	<0.000350	<0.000450
	MW-129	Oct-15			<0.393	**<0.382**	<0.0350	<0.214	<1.00	**<0.0331**	<0.0380	**<0.0469**	**<0.0866**	<0.0275	**<0.0379**	<0.0348	<0.0453
	MW-129	Apr-17			<0.00393	<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			<0.00393	<0.00382	<0.000350	<0.00214	<0.0100	**0.00731**	<0.000380	<0.000469	<0.000866	<0.000275	<0.000379	<0.000348	<0.000453

Appendix B, Table B.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2023 Annual Groundwater Monitoring Report

HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	Volatile Organic Compounds													
				Analyte	2-Butanone (MEK)	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	Chloro-benzene	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	mg/L
				CGWSL	5.56	0.0380	---	1.24	14.1	0.00500	0.0800	0.00330	0.00754	0.810	0.00500	0.100	20.9
				CGWSL Source:	NMED TW	USEPA TW	---	NMED TW	TMED TW	WQCC HH	USEPA MCL	USEPA MCL	NMED TW	NMED TW	WQCC HH	USEPA MCL	NMED TW
Area	**Well ID**	**Date**	**Dup**														
Field East of Refinery	MW-130	Apr-21		<0.00119	<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		<0.00119	<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-22		<0.00119	<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	Oct-22		<0.00119	<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	Mar-23		<0.00119 J3	<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	Oct-23		<0.00119	<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		<0.00393	<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		<0.00393	<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		<0.00393	<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		<0.0595	**<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		<0.390	**<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		<0.390	**<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-21		<0.00119	<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	<0.00119	<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		<0.00119	<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	<0.00119	<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-22		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	0.000380 J	<0.000128	<0.000116	<0.000192
	MW-134	Apr-22	FD	<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	0.000395 J	<0.000128	<0.000116	<0.000192
	MW-134	Oct-22		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	0.00235	<0.000136	<0.000129 J4	<0.000605	0.000329 J	<0.000128	<0.000116	<0.000192
	MW-134	Oct-22	FD	<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	0.00117	<0.000136	<0.000129	<0.000605	0.000146 J	<0.000128	<0.000116	<0.000192
	MW-134	Mar-23		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	0.000242 JB	<0.000128	<0.000116	<0.000192
	MW-134	Mar-23	FD	<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	0.000102 JB	<0.000128	<0.000116	<0.000192
	MW-134	Oct-23		<0.00119	<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-23	FD	<0.00119	<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-21		<0.00119	<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		<0.00119	<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-135	Apr-22		<0.00119	<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	Oct-22		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129 J4	<0.000605	0.000185 J	<0.000128	<0.000116	<0.000192
	MW-135	Mar-23		<0.00119	<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-135	Oct-23		<0.00119	<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	Apr-21		<0.00119	<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		<0.00119	<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	Apr-22		<0.00119	<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	Oct-22		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129 J4	<0.000605	0.0000964 J	<0.000128	<0.000116	<0.000192
	MW-145	Mar-23		<0.00119	<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	Oct-23		<0.00119	<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	Apr-21		<0.00119	<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		<0.00119	<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	<0.00119	<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	Apr-22		<0.00119	<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	Apr-22	FD	<0.00119	<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-22		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129 J4	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-146	Oct-22	FD	<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129 J4	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-146	Mar-23		<0.00119	<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	Mar-23	FD	<0.00119	<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-146	Oct-23		<0.00119	<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-23	FD	<0.00119	<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	Apr-21		<0.00119	<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		<0.00119	<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	Apr-22		<0.00119	<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-22		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129 J4	<0.000605	0.0000964 J	<0.000128	<0.000116	<0.000192
	MW-147	Mar-23		<0.00119	<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-147	Oct-23		<0.00119	<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	Apr-21		<0.00119	<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		<0.00119	<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	Apr-22		<0.00119	<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-22		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129 J4	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-148	Mar-23		<0.00119	<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-148	Oct-23		<0.00119	<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	Jun-20		<0.00119	<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		<0.00119	<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-4196R	Mar-23		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	0.000239 JB	<0.000128	<0.000116	<0.000192
	RA-4196R	Oct-23		<0.00119	<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	Oct-20		<0.00119	<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		<0.00119	<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		<0.00119	<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	Apr-22		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	0.000347 J	<0.000128	<0.000116	<0.000192
	RW-12R	Apr-17		<0.0196	<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		<0.00393	<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		<0.00393	<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		<0.00119	<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-18		<0.00393	<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-13R	Mar-23		<0.0595	**<0.0394**	0.0121 J	<0.0239	<0.565	**4.30**	<0.00680	**<0.00645**	**<0.0303**	0.0103 JB	**<0.00640**	<0.00580	<0.00960
	RW-18A	Apr-18		<0.00393	<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		<0.00393	<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		<0.00119	<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-18A	Mar-23		<0.00119	<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		<0.0390	<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		<0.0390	<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	Jun-20		<0.00119	<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		<0.00119	<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-22		<0.00119	<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	Mar-23		<0.00119 J3	<0.000787 J3	<0.000120	<0.000478 [3J]	<0.0113	<0.0000941	<0.000136	<0.000129 J3	<0.000605 J3	0.000480 J	<0.000128	<0.000116	<0.000192
	MW-45	Apr-21		<0.00119	<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		<0.00119	<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-45	Apr-22		<0.00119	<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-22		<0.00119	<0.000787	<0.000120	0.00483 J	<0.0113	<0.0000941	<0.000136	<0.000129 J4	<0.000605	0.000142 J	<0.000128	<0.000116	<0.000192
	MW-45	Mar-23		<0.00119	<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-23		<0.00119	<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-53	Apr-15		<0.00390	<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-53	Apr-17		<0.00393	<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		<0.00393	<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		<0.00393	<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		<0.00119	<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		<0.00119	<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-22		<0.00119	<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	Mar-23		<0.00119 J3	<0.000787 J3	<0.000120	<0.000478 [3J]	<0.0113	<0.0000941	<0.000136	<0.000129 J3	<0.000605 J3	0.000357 J	<0.000128	<0.000116	<0.000192
	MW-54A	Apr-21		<0.00119	<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		<0.00119	<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-22		<0.00119	<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-22		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129 J4	<0.000605	0.000161 J	<0.000128	<0.000116	<0.000192
	MW-54A	Mar-23		<0.00119	<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-23		<0.00119	<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 B, Table B.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2023 Annual Groundwater Monitoring Report

HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

Area	Well ID	Date	Dup	Analyte Group	Volatile Organic Compounds													
				Analyte	2-Butanone (MEK)	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	Chloro-benzene	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	mg/L
				CGWSL	5.56	0.0380	---	1.24	14.1	0.00500	0.0800	0.00330	0.00754	0.810	0.00500	0.100	20.9
				CGWSL Source:	NMED TW	USEPA TW	---	NMED TW	TMED TW	WQCC HH	USEPA MCL	USEPA MCL	NMED TW	NMED TW	WQCC HH	USEPA MCL	NMED TW
NCL	MW-54B	Apr-17			<0.00393	<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			<0.00393	<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			<0.00119	<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	Mar-23			<0.00119	<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-21			<0.0119	<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			<0.00119	<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-22			<0.0119	<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	Oct-22			<0.00119	<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	Mar-23			<0.00119 J3	<0.000787 J3	<0.000120	<0.000478 [3J]	<0.0113	0.0000977 J	<0.000136	<0.000129 J3	<0.000605 J3	0.000614 J	<0.000128	<0.000116	<0.000192
	MW-55	Oct-23			<0.0119	<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-56	Jun-20			<0.00119	<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			<0.00119	<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-22			<0.00119	<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	Mar-23			<0.00119	<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-21			<0.00595	<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			<0.0119	<0.00787	<0.00120	<0.00478	<0.113	**0.141**	<0.00136	<0.00129	<0.00605	<0.000962	<0.00128	<0.00116	<0.00192
	MW-108	Apr-22			<0.00119	<0.000787	0.000246 J	<0.000478	<0.0113	**0.0819**	<0.000136	<0.000129	<0.000605	0.000327 J	<0.000128	<0.000116	<0.000192
	MW-108	Oct-22			0.00218 J	<0.000787	0.000182 J	0.000683 J	<0.0113	**0.0702**	<0.000136	<0.000129 J4	<0.000605	0.000607 J	<0.000128	<0.000116	<0.000192
	MW-108	Mar-23			<0.00119 J3	<0.000787 J3	0.000300 J	<0.000478 [3J]	<0.0113	**0.0681**	<0.000136	<0.000129 J3	<0.000605 J3	0.000970 J	<0.000128	<0.000116	<0.000192
	MW-108	Oct-23			<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	**0.0353**	<0.000136	<0.000129	<0.000605	0.000176 J	<0.000128	<0.000116	<0.000192
	NCL-31	Apr-21			<0.00119	<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			<0.00119	<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-22			<0.00119	<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-22			<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129 J4	<0.000605	0.000168 J	<0.000128	<0.000116	<0.000192
	NCL-31	Mar-23			<0.00119 J3	<0.000787 J3	<0.000120	<0.000478 [3J]	<0.0113	0.000173 J	<0.000136	<0.000129 J3	<0.000605 J3	0.000925 J	<0.000128	<0.000116	<0.000192
	NCL-31	Oct-23			<0.00119	<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			<0.00119	<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			<0.00119	<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-22			<0.00119	<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-22			0.00242 J	<0.000787	<0.000120	<0.000478	0.0159 J	<0.0000941	<0.000136	<0.000129 J4	<0.000605	0.000123 J	<0.000128	<0.000116	<0.000192
	NCL-32	Mar-23			0.00180 JJ3	<0.000787 J3	<0.000120	<0.000478 [3J]	0.0133 J	<0.0000941	<0.000136	<0.000129 J3	<0.000605 J3	0.000526 J	<0.000128	<0.000116	<0.000192
	NCL-32	Oct-23			<0.00119	<0.000787	<0.000120	<0.000478	0.0206 J	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	NCL-33	Apr-21			<0.00119	<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			<0.00119	<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-22			<0.00119	<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-22			<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129 J4	<0.000605	0.000111 J	<0.000128	<0.000116	<0.000192
	NCL-33	Mar-23			<0.00119 J3	<0.000787 J3	<0.000120	<0.000478 [3J]	<0.0113	<0.0000941	<0.000136	<0.000129 J3	<0.000605 J3	0.000895 J	<0.000128	<0.000116	<0.000192
	NCL-33	Oct-23			<0.00119	<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			<0.0393	**<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			<0.0786	**<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			<0.0197	<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			<0.0238	<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-21			<0.00119	<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			<0.00119	<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-22			<0.00119	<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-22			<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129 J4	<0.000605	0.000324 J	<0.000128	<0.000116	<0.000192
	NCL-44	Mar-23			<0.00119 J3	<0.000787 J3	<0.000120	<0.000478 [3J]	<0.0113	<0.0000941	<0.000136	<0.000129 J3	<0.000605 J3	0.000848 J	<0.000128	<0.000116	<0.000192
	NCL-44	Oct-23			<0.00119	<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			<0.00119	<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		<0.00119	<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			<0.00119	<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		<0.00119	<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-22			<0.00119	<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-22	FD		<0.00119	<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-22			<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129 J4	<0.000605	0.000151 J	<0.000128	<0.000116	<0.000192
	NCL-49	Oct-22	FD		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129 J4	<0.000605	0.000110 J	<0.000128	<0.000116	<0.000192
	NCL-49	Mar-23			<0.00119	<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	Mar-23	FD		<0.00119	<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-23			<0.00119	<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-23	FD		<0.00119	<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			<0.393	**<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			<0.0393	**<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			<0.0119	<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			<0.0119	<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-21			<0.00119	<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			<0.00119	<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-29	Apr-22			<0.00119	<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-29	Oct-22			<0.00119	<0.000787	<0.000120	0.00136 J	<0.0113	<0.0000941	<0.000136	<0.000129 J4	<0.000605	0.000178 J	<0.000128	<0.000116	<0.000192
	MW-29	Mar-23			<0.00119	<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-29	Oct-23			<0.00119	<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-39	Apr-19			<0.00393	<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			<0.00393	<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			<0.00119	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			<0.00119	<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			<0.00393	<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			<0.00393	<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			<0.00393	<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			<0.00119	<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			<0.00393	<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			<0.00393	<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			<0.00119	<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			<0.00119	<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-19			<0.0196	<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			<0.00595	<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			<0.00595	<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-42	Apr-22			<0.00595	<0.00394	0.00190 J	<0.00239	<0.0565	**0.00757**	<0.000680	<0.000645	<0.00303	<0.000481	<0.000640	<0.000580	<0.000960
	MW-43	Apr-19			<0.786	**<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			<0.786	**<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			<0.0238	<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			<0.0595	**<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			<0.00393	<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			<0.00393	<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			<0.00393	<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			<0.00119	<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	Jun-20			<0.00119	<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		<0.00119	<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			<0.00119	<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		<0.00119	<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-21			<0.0595	**<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			<0.0595	**<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-61	Apr-22			<0.0595	**<0.0394**	<0.00600	<0.0239	<0.565	**1.45**	<0.00680	**<0.00645**	**<0.0303**	<0.00481	**<0.00640**	<0.00580	<0.00960
	MW-61	Oct-22			<0.0595	**<0.0394**	0.0123 J	<0.0239	<0.565	**1.46**	<0.00680	**<0.00645** J4	**<0.0303**	0.0153 J	**<0.00640**	<0.00580	<0.00960
	MW-61	Mar-23			<0.0595	**<0.0394**	<0.00600	<0.0239	<0.565	**0.993**	<0.00680	**<0.00645**	**<0.0303**	0.0297 JB	**<0.00640**	<0.00580	<0.00960
	MW-61	Oct-23			<0.0119	<0.00787	0.00683 J	<0.00478	<0.113	**1.21**	<0.00136	<0.00129	<0.00605	0.00469 J	<0.00128	<0.00116	<0.00192

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Appendix B, Table B.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2023 Annual Groundwater Monitoring Report

HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	Volatile Organic Compounds													
				Analyte	2-Butanone (MEK)	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	Chloro-benzene	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	mg/L
				CGWSL	5.56	0.0380	---	1.24	14.1	0.00500	0.0800	0.00330	0.00754	0.810	0.00500	0.100	20.9
				CGWSL Source:	NMED TW	USEPA TW	---	NMED TW	TMED TW	WQCC HH	USEPA MCL	USEPA MCL	NMED TW	NMED TW	WQCC HH	USEPA MCL	NMED TW
Area	**Well ID**	**Date**	**Dup**														
North Refinery	MW-62	Oct-20		<0.0238	<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		<0.0595	**<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-62	Apr-22		<0.0595	**<0.0394**	0.0465 J	<0.0239	<0.565	**2.19**	<0.00680	**<0.00645**	**<0.0303**	<0.00481	**<0.00640**	<0.00580	<0.00960
	MW-62	Oct-22		<0.0595	**<0.0394**	<0.00600	<0.0239	<0.565	**1.80**	<0.00680	**<0.00645** J4	**<0.0303**	0.00990 J	**<0.00640**	<0.00580	<0.00960
	MW-62R	Apr-21		<0.0595	**<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-62R	Apr-22		<0.0119	<0.00787	0.00697 J	<0.00478	<0.113	**3.20**	<0.00136	<0.00129	<0.00605	<0.000962	<0.00128	<0.00116	<0.00192
	MW-62R	Mar-23		<0.119	**<0.0787**	<0.0120	<0.0478	<1.13	**6.02**	<0.0136	**<0.0129**	**<0.0605**	0.0515 JB	**<0.0128**	<0.0116	<0.0192
	MW-67	Oct-17		<0.00393	<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		<0.0196	<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		<0.00393	<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		<0.0196	<0.0191	<0.00175	<0.0107	<0.0500	**0.122**	<0.00190	<0.00234	<0.00433	<0.00138	<0.00190	<0.00174	<0.00226
	MW-90	Apr-21		<0.00119	<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		<0.0119 J3	<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-90	Apr-22		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	0.00495	<0.000136	<0.000129	<0.000605	0.000627 J	<0.000128	<0.000116	<0.000192
	MW-90	Oct-22		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	0.00213	<0.000136	<0.000129	<0.000605	0.000338 J	<0.000128	<0.000116	<0.000192
	MW-90	Mar-23		<0.0119	<0.00787 J4	<0.00120	<0.00478 J4	<0.113	0.00257 J	<0.00136	<0.00129	<0.00605	0.00501 J	<0.00128	<0.00116	<0.00192
	MW-90	Oct-23		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	0.000921 J	<0.000136	<0.000129	<0.000605	0.000360 J	<0.000128	<0.000116	<0.000192
	MW-91	Oct-18		<0.393	**<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		<0.393	**<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		<0.393	**<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		<0.119	**<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-93	Apr-17		<0.0982	**<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		<0.00393	<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		<0.00393	<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		<0.0238	<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	Nov-14		<0.0790	**<0.0760**	0.0200	<0.0430	<0.200	**0.370**	<0.00760	**<0.00940**	**<0.0170**	0.0200	**<0.00760**	<0.00700	<0.00910
	MW-94	Oct-15		<0.0393	**<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-17		<0.0982	**<0.0955**	0.0477	<0.0535	<0.250	**0.284**	<0.00950	**<0.0117** J4	**<0.0216** J4	0.0101 J	**<0.00948**	<0.00870	<0.0113
	MW-95	Apr-17		<0.00393	<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		<0.00393	<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		<0.00393	<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		<0.00119	<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	Sep-21		<0.0119	<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-96	Apr-22		<0.0119	<0.00787	0.00462 J	<0.00478	<0.113	0.000995 J	<0.00136	<0.00129	<0.00605	<0.000962	<0.00128	<0.00116	<0.00192
	MW-96	Oct-22		<0.0238	<0.0157	<0.00240	<0.00956	<0.226	<0.00188	<0.00272	<0.00258	**<0.0121**	<0.00192	<0.00256	<0.00232	<0.00384
	MW-96	Mar-23		<1.19 J3	**<0.787** J3	<0.120	<0.478 J3J	<11.3	**<0.0941**	**<0.136**	**<0.129** J3	**<0.605** J3	0.572 J	**<0.128**	**<0.116**	<0.192
	MW-96	Oct-23		<0.0119	<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-98	Apr-21		<0.0595	**<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		<0.0595	**<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-98	Apr-22		<0.0595	**<0.0394**	0.0312 J	<0.0239	<0.565	**0.910**	<0.00680	**<0.00645**	**<0.0303**	<0.00481	**<0.00640**	<0.00580	<0.00960
	MW-98	Oct-22		<0.0595	**<0.0394**	0.0194 J	<0.0239	<0.565	**0.674**	<0.00680	**<0.00645** J4	**<0.0303**	0.0221 J	**<0.00640**	<0.00580	<0.00960
	MW-98	Mar-23		<0.238	**<0.157**	<0.0240	<0.0956	<2.26	**0.617**	<0.0272	**<0.0258**	**<0.121**	0.0594 JB	**<0.0256**	<0.0232	<0.0384
	MW-98	Oct-23		<0.0119	<0.00787	0.00677 J	<0.00478	<0.113	**0.502**	<0.00136	<0.00129	<0.00605	0.0215	<0.00128	<0.00116	<0.00192
	MW-137	Oct-17		<0.786	**<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		<0.786	**<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		<0.786	**<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		<0.786	**<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		<0.0196	<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		<0.0196	<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		<0.0196	<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		<0.0196	<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-1	Apr-15		<0.200	**<0.190**	<0.0180	<0.110	<0.500	**0.962**	<0.0190	**<0.0230**	**<0.0430**	<0.0140	**<0.0190**	<0.0170	<0.0230
	RW-1	Apr-17		<0.0393	**<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		<0.00393	<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		<0.00393	<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		<0.0390 UJ	<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-2	Apr-17		<0.196	**<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		<0.00393	<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-2	Mar-23		<0.0238	<0.0157	<0.00240	<0.00956	<0.226	**1.51**	<0.00272	<0.00258	**<0.0121**	0.0125 JB	<0.00256	<0.00232	<0.00384
	RW-7	Apr-17		<0.00393	<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		<0.00393	<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		<0.00393	<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		<0.00119	<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		<0.0390	<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		<0.00393	<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	Jun-20		<0.00119	<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		<0.00119	<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-9	Apr-22		<0.0119	<0.00787	<0.00120	<0.00478	<0.113	0.00298 J	<0.00136	<0.00129	<0.00605	<0.000962	<0.00128	<0.00116	<0.00192
	RW-9	Mar-23		<0.0119	<0.00787 J4	<0.00120	<0.00478 J4	<0.113	0.00245 J	<0.00136	<0.00129	<0.00605	0.00272 J	<0.00128	<0.00116	<0.00192
	RW-10	Apr-18		<0.00393	<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		<0.00393	<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		<0.00119	<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		<0.00119	<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-18		<0.00393	<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		<0.00393	<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		0.0142	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-16B	Mar-23		<0.00119	<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-17A	Apr-18		<0.00393	<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		<0.00393	<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		<0.00119	<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-17A	Mar-23		<0.00119	<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-21		<0.00119	<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		<0.00119	<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	Apr-22		<0.00119	<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-22		<0.00119	<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	Mar-23		<0.00119	<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-23		<0.00119	<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-21		<0.00119	<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		<0.00119	<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-22		<0.00119	<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-22		<0.00119	<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	Mar-23		<0.00119	<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-23		<0.00119	<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-21		<0.00119	<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		<0.00119	<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-119	Apr-22		<0.00119	<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-22		<0.00119	<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	Mar-23		<0.00119	<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-23		<0.00119	<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 B, Table B.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2023 Annual Groundwater Monitoring Report

HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	Volatile Organic Compounds													
				Analyte	2-Butanone (MEK)	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	Chloro-benzene	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	mg/L
				CGWSL	5.56	0.0380	---	1.24	14.1	0.00500	0.0800	0.00330	0.00754	0.810	0.00500	0.100	20.9
				CGWSL Source:	NMED TW	USEPA TW	---	NMED TW	TMED TW	WQCC HH	USEPA MCL	USEPA MCL	NMED TW	NMED TW	WQCC HH	USEPA MCL	NMED TW
Area	**Well ID**	**Date**	**Dup**														
North RO Field	MW-140	Mar-23															
	MW-140	Oct-23															
	MW-141	Mar-23															
	MW-141	Oct-23															
	MW-142	Mar-23															
	MW-142	Oct-23															
	MW-143	Mar-23															
	MW-143	Oct-23															
South Refinery	KWB-2R	Apr-19		<0.00393	<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		<0.00393	<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-2R	Mar-23		<0.00595	<0.00394	0.00548	<0.00239	<0.0565	**0.0537**	<0.000680	<0.000645	<0.00303	0.000737 J	<0.000640	<0.000580	<0.000960 J4
	KWB-2R	Oct-23		<0.00595	<0.00394	<0.000600	<0.00239	<0.0565	**0.0367**	<0.000680	<0.000645	<0.00303	0.000778 J	<0.000640	<0.000580	<0.000960
	KWB-5	Oct-17		<0.00393	<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		<0.982	**<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		<0.982	**<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		<0.982	**<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
	KWB-6	Apr-17		<0.0196	<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		<0.00393	<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		<0.0786	**<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		<0.0786 J3J4	**<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		<0.196	**<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		<0.197	**<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		<0.00595	<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		<0.00595	<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		<0.982	**<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		<0.982 J3J4	**<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		<0.982	**<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		<0.983	**<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-21		<0.00119	<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		<0.00119	<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	Apr-22		<0.00119	<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-22		<0.00119	<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	Mar-23		<0.00119	<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-23		<0.00119	<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		<0.00119	<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		<0.00119	<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-22		<0.00119	<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	Oct-22		<0.00119	<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	Mar-23		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	0.000250 JB	<0.000128	<0.000116	<0.000192
	MW-52	Oct-23		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	**0.00958**	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-64	Apr-21		<0.595	**<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		<0.0595	**<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-64	Apr-22		<0.0298	<0.0197	<0.00300	<0.0120	<0.282	**23.8**	<0.00340	<0.00322	**<0.0151**	0.0101 J	<0.00320	<0.00290	<0.00480
	MW-64	Oct-22		<0.298	**<0.197**	<0.0300	<0.120	<2.82	**28.9**	<0.0340	**<0.0323** J4	**<0.151**	<0.0241	**<0.0320**	<0.0290	<0.0480
	MW-64	Mar-23		<0.595	**<0.394**	<0.0600	<0.239	<5.65	**22.7**	<0.0680	**<0.0645**	**<0.303**	0.257 JB	**<0.0640**	<0.0580	<0.0960
	MW-64	Oct-23		<0.119	**<0.0787**	<0.0120	<0.0478	<1.13	**28.0**	<0.0136	**<0.0129**	**<0.0605**	0.0164 J	**<0.0128**	<0.0116	<0.0192
	MW-65	Apr-19		<0.393	**<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		<0.393	**<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-65	Mar-23		<0.00119 J3	<0.000787 J3	0.000816 J	<0.000478 J3J	<0.0113	**0.462**	<0.000136	<0.000129 J3	<0.000605 J3	0.00144	<0.000128	<0.000116	<0.000192
	MW-65	Oct-23		<0.0298	<0.0197	<0.00300	<0.0120	<0.282	**0.216**	<0.00340	<0.00322	**<0.0151**	0.00299 J	<0.00320	<0.00290	<0.00480
	MW-66	Oct-19		<0.0983	**<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		<0.00119	<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		<0.0119	<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		<0.0119	<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		<0.393 J3J4	**<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		<0.393	**<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		<0.393	**<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		<0.0119	<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-21		<0.0238	<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		<0.00119	<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-101	Apr-22		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	**0.173**	<0.000136	<0.000129	<0.000605	0.000487 JB	<0.000128	<0.000116	<0.000192
	MW-101	Oct-22		<0.00119	<0.000787	0.000540 J	0.00283 J	0.0396 J	**0.467**	<0.000136	<0.000129 J4	<0.000605	0.000295 J	<0.000128	<0.000116	<0.000192
	MW-101	Mar-23		<0.0119	<0.00787	<0.00120	<0.00478	<0.113	**3.93**	<0.00136	<0.00129	<0.00605	0.00602 JB	<0.00128	<0.00116	<0.00192
	MW-101	Oct-23		<0.00119	<0.000787	0.000238 J	<0.000478	<0.0113	**0.0178**	<0.000136	<0.000129	<0.000605	0.000101 J	<0.000128	<0.000116	<0.000192
	MW-102	Apr-21		<0.119	**<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		<0.0595	**<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	<0.0595	**<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-102	Apr-22		<0.0595	**<0.0394**	0.0218 JB	<0.0239	<0.565	**11.8**	<0.00680	**<0.00645**	**<0.0303**	0.0230 J	**<0.00640**	<0.00580	<0.00960
	MW-102	Apr-22	FD	<0.0298	<0.0197	0.00668 J	<0.0120	<0.282	**14.4**	<0.00340	<0.00322	**<0.0151**	<0.00241	<0.00320	<0.00290	<0.00480
	MW-102	Oct-22		<0.298	**<0.197**	<0.0300	<0.120	<2.82	**15.8**	<0.0340	**<0.0323**	**<0.151**	<0.0241	**<0.0320**	<0.0290	<0.0480
	MW-102	Oct-22	FD	<0.298	**<0.197**	<0.0300	<0.120	<2.82	**14.7**	<0.0340	**<0.0323**	**<0.151**	<0.0241	**<0.0320**	<0.0290	<0.0480
	MW-102	Mar-23		<0.238	**<0.157**	<0.0240	<0.0956	<2.26	**16.3**	<0.0272	**<0.0258**	**<0.121**	0.0703 JB	**<0.0256**	<0.0232	<0.0384
	MW-102	Mar-23	FD	<0.119	**<0.0787**	<0.0120	<0.0478	<1.13	**15.8**	<0.0136	**<0.0129**	**<0.0605**	0.0322 JB	**<0.0128**	<0.0116	<0.0192
	MW-102	Oct-23		0.0270	0.00612 J	<0.000120	<0.000478	<0.0113	**13.4**	<0.000136	<0.000129	<0.000605	0.000559 J	<0.000128	<0.000116	<0.000192
	MW-102	Oct-23	FD	<0.298	**<0.197**	<0.0300	<0.120	<2.82	**11.2**	<0.0340	**<0.0323**	**<0.151**	0.0294 J	**<0.0320**	<0.0290	<0.0480
	MW-103	Jun-20		<0.0238	<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		<0.0238	<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-103	Apr-22		<0.0119	<0.00787	<0.00120	<0.00478	<0.113	**1.23**	<0.00136	<0.00129	<0.00605	0.00474 J	<0.00128	<0.00116	<0.00192
	MW-103	Mar-23		<0.0119	<0.00787	<0.00120	<0.00478	<0.113	**0.995**	<0.00136	<0.00129	<0.00605	0.00371 JB	<0.00128	<0.00116	<0.00192
	MW-104	Apr-21		<0.00119	<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	<0.00119	<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		<0.00595	<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-104	Apr-22		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	**0.0135**	<0.000136	<0.000129	<0.000605	0.000579 J	<0.000128	<0.000116	<0.000192
	MW-104	Oct-22		0.0239	<0.000787	<0.000120	<0.000478	<0.0113	0.0000963 J	0.000422 J	<0.000129 J4	<0.000605	0.000653 J	<0.000128	<0.000116	<0.000192
	MW-104	Mar-23		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	**0.00954**	<0.000136	<0.000129	<0.000605	0.00204	<0.000128	<0.000116	<0.000192
	MW-104	Oct-23		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	0.00333	<0.000136	<0.000129	<0.000605	0.000453 J	<0.000128	<0.000116	<0.000192
	MW-105	Apr-21		<0.119	**<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-105	Apr-22		<0.0298	<0.0197	0.00333 J	<0.0120	<0.282	**5.34**	<0.00340	<0.00322	**<0.0151**	<0.00241	<0.00320	<0.00290	<0.00480
	MW-105	Oct-22		<0.119	**<0.0787**	<0.0120	<0.0478	<1.13	**0.904**	<0.0136	**<0.0129** J4	**<0.0605**	0.0126 J	**<0.0128**	<0.0116	<0.0192
	MW-105	Mar-23		<0.119	**<0.0787**	<0.0120	<0.0478	<1.13	**3.65**	<0.0136	**<0.0129**	**<0.0605**	0.0738 JB	**<0.0128**	<0.0116	<0.0192
	MW-105	Oct-23		<0.00595	<0.00394	0.00320 J	<0.00239	<0.0565	**0.386**	<0.000680	<0.000645	<0.00303	0.000482 J	<0.000640	<0.000580	<0.000960
	MW-106	Jun-20		<0.119	**<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		<0.238	**<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		<0.238	**<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-106	Oct-23		<0.0119	<0.00787	<0.00120	<0.00478	<0.113	**1.23**	<0.00136	<0.00129	<0.00605	<0.000962	<0.00128	<0.00116	<0.00192
	MW-107	Oct-15		<0.393	**<0.382**	<0.0350	<0.214	<1.00	**6.29**	<0.0380	**<0.0469**	**<0.0866**	<0.0275	**<0.0379**	<0.0348	<0.0453
	MW-107	Apr-17		<0.196	**<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		<0.00393	<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		<0.982	**<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-21		<0.0119	<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		<0.0298	<0.0197	<0.00300	<0.0120	<0.282	**2.18**	<0.00340	<0.00322	**<0.0151**	<0.00241	<0.00320	<0.00290	<0.00480
	MW-109	Apr-22		<0.00119	<0.000787	0.000727 J	<0.000478	<0.0113	**1.55**	<0.000136	<0.000129	<0.000605	0.000655 J	<0.000128	<0.000116	<0.000192
	MW-109	Oct-22		<0.0298	<0.0197	<0.00300	<0.0120	<0.282	**1.22**	<0.00340	<0.00322	**<0.0151**	<0.00241	<0.00320	<0.00290	<0.00480
	MW-109	Mar-23		<0.0595	**<0.0394**	<0.00600	<0.0239	<0.565	**0.866**	<0.00680	**<0.00645**	**<0.0303**	<0.00481	**<0.00640**	<0.00580	<0.00960
	MW-109	Oct-23		<0.0298	<0.0197	<0.00300	<0.0120	<0.282	**0.863**	<0.00340	<0.00322	**<0.0151**	<0.00241	<0.00320	<0.00290	<0.00480

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Appendix B, Table B.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2023 Annual Groundwater Monitoring Report

HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	Volatile Organic Compounds													
				Analyte	2-Butanone (MEK)	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	Chloro-benzene	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	mg/L
				CGWSL	5.56	0.0380	---	1.24	14.1	0.00500	0.0800	0.00330	0.00754	0.810	0.00500	0.100	20.9
				CGWSL Source:	NMED TW	USEPA TW	---	NMED TW	TMED TW	WQCC HH	USEPA MCL	USEPA MCL	NMED TW	NMED TW	WQCC HH	USEPA MCL	NMED TW
Area	**Well ID**	**Date**	**Dup**														
South Refinery	MW-110	Apr-21		<0.00119	<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		<0.00119	<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-110	Apr-22		<0.00119	<0.000787	0.000460 J	<0.000478	0.0141 J	**0.120**	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-110	Oct-22		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	0.000221 J	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-110	Mar-23		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	0.000281 J	<0.000136	<0.000129	<0.000605	0.000285 JB	<0.000128	<0.000116	<0.000192
	MW-110	Oct-23		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	0.000103 J	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	MW-139	Apr-21		<0.00119	<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		<0.00119	<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-139	Apr-22		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	0.000537 J	<0.000192
	MW-139	Oct-22		<0.00119	<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-139	Mar-23		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	0.000607 J	<0.000192
	MW-139	Oct-23		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	0.000955 J	<0.000192
	RA-313	Jun-20		<0.00119	<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		<0.00119	<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-22		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	0.000322 J	<0.000128	<0.000116	<0.000192
	RA-313	Mar-23		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	0.000451 J	<0.000605	0.000270 JB	<0.000128	<0.000116	<0.000192
	RW-4	Apr-19		<0.00393	<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		<0.00119	<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-4	Apr-22		<0.00119	<0.000787	0.00108 B	<0.000478	<0.0113	**0.0198**	<0.000136	<0.000129	<0.000605	0.000676 J	<0.000128	<0.000116	<0.000192
	RW-4	Mar-23		0.00879 J	<0.000787	0.000378 J	<0.000478	<0.0113	**0.0145**	<0.000136	<0.000129	<0.000605	0.00344	<0.000128	<0.000116	<0.000192
	RW-5R	Apr-15		<0.0390	<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-6R	Apr-16		<0.00393	<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		<0.00393	<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		<0.0786	**<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-6	Mar-23		<0.0298 J3	<0.0197 J3	<0.00300	<0.0120 J3J	<0.282	**6.04**	<0.00340	<0.00322 J3	**<0.0151** J3	0.0331	<0.00320	<0.00290	<0.00480
	RW-15C	Apr-17		<0.0982	**<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		<0.00393	<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		<0.0393	**<0.0382**	0.00722 J	<0.0214	<0.100	<0.00331	<0.00380	**<0.00469** J3	**<0.00866** J3	<0.00275	<0.00379	<0.00348	<0.00453
South RO Field	MW-114	Apr-21		<0.00119	<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		<0.00119	<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-114	Apr-22		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	0.000362 J	<0.000128	<0.000116	<0.000192
	MW-114	Oct-22		<0.00119	<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	Mar-23		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	0.000151 JB	<0.000128	<0.000116	<0.000192
	MW-114	Oct-23		<0.00119	<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		<0.00119	<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		<0.00119	<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-115	Apr-22		<0.0119	<0.00787	<0.00120	<0.00478	<0.113	<0.000941	<0.00136	<0.00129	<0.00605	0.00364 J	<0.00128	<0.00116	<0.00192
	MW-115	Oct-22		<0.00119	<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	Mar-23		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	0.000144 JB	<0.000128	<0.000116	<0.000192
	MW-115	Oct-23		<0.00119	<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		<0.00119	<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		<0.00119	<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-22		<0.00119	<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-22		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129 J4	<0.000605	0.000152 J	<0.000128	<0.000116	<0.000192
	MW-116	Mar-23		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	0.000128 JB	<0.000128	<0.000116	<0.000192
	MW-144	Mar-23														
	MW-144	Oct-23														
TEL	MW-49	Apr-21		<0.0298	<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		<0.0119	<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
	MW-49	Apr-22		<0.00595	<0.00394	0.00341 J	<0.00239	<0.0565	**0.236**	<0.000680	<0.000645	<0.00303	0.00337 JB	<0.000640	<0.000580	<0.000960
	MW-49	Oct-22		0.00693 J	<0.000787	0.00251	0.00252 J	0.0728	**0.278**	<0.000136	<0.000129 J4	<0.000605	0.00227	<0.000128	<0.000116	<0.000192
	MW-49	Mar-23		<0.0119	<0.00787	<0.00120	<0.00478	<0.113	**0.280**	<0.00136	<0.00129	<0.00605	0.00528 JB	<0.00128	<0.00116	<0.00192
	MW-49	Oct-23		<0.0119	<0.00787	0.00415 J	<0.00478	<0.113	**0.588**	<0.00136	<0.00129	<0.00605	<0.000962	<0.00128	<0.00116	<0.00192
	TEL-1	Oct-18		<0.0196	<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		<0.00393	<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		<0.00393	<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		<0.00119	<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		<0.0982	**<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		<0.0393	**<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		<0.0393	**<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		<0.0119	<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		<0.00393	<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		<0.00393	<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		<0.00393	<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		<0.00119	<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-21		<0.00119	<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	<0.00119	<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		<0.00119	<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	<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	**0.133**	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	TEL-4	Apr-22		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	**0.00899**	<0.000136	<0.000129	<0.000605	0.000915 J	<0.000128	<0.000116	<0.000192
	TEL-4	Apr-22	FD	<0.00595	<0.00394	<0.000600	<0.00239	<0.0565	**0.0102**	<0.000680	<0.000645	<0.00303	<0.000481	<0.000640	<0.000580	<0.000960
	TEL-4	Oct-22		0.0143	<0.000787	0.000121 J	0.00806 J	0.0170 J	0.000469 J	0.000146 J	<0.000129 J4	<0.000605	0.000652 J	<0.000128	<0.000116	<0.000192
	TEL-4	Oct-22	FD	0.0132	<0.000787	0.000163 J	0.00752 J	0.0150 J	0.000541 J	<0.000136	<0.000129 J4	<0.000605	0.000399 J	<0.000128	<0.000116	<0.000192
	TEL-4	Mar-23		<0.0238	<0.0157	<0.00240	<0.00956	<0.226	**0.0147 J**	<0.00272	<0.00258	**<0.0121**	0.00645 JB	<0.00256	<0.00232	<0.00384
	TEL-4	Mar-23	FD	<0.0238	<0.0157	<0.00240	<0.00956	<0.226	**0.00645 J**	<0.00272	<0.00258	**<0.0121**	0.00216 J	<0.00256	<0.00232	<0.00384
	TEL-4	Oct-23		<0.00119	<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-4	Oct-23	FD	<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
Three Mile Ditch	MW-8	Jun-20		<0.00119	<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		<0.00119	<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-22		<0.00119	<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	Mar-23		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	0.000250 JB	<0.000128	<0.000116	<0.000192
	MW-16	Jun-20		<0.00119	<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		<0.00119	<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-22		<0.00119	<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	Mar-23		<0.00119	<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	Jun-20		<0.00119	<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		<0.00119	<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-22		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	0.000364 J	<0.000128	<0.000116	<0.000192
	MW-20	Mar-23		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	0.000335 JB	<0.000128	<0.000116	<0.000192
	MW-21	Apr-21		<0.00119	<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		<0.00119	<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-21	Apr-22		<0.00119	<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-22		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	0.00332 J	<0.000136	<0.000129 J4	<0.000605	0.000135 J	<0.000128	<0.000116	<0.000192
	MW-21	Mar-23		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	0.000152 JB	<0.000128	<0.000116	<0.000192
	MW-21	Oct-23		<0.00595	<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-25	Jun-20		<0.00119	<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		<0.00119	<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-22		<0.00119	<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	Mar-23		<0.00119	<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	Jun-20		<0.00119	<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		<0.00119	<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-22		<0.00119	<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	Mar-23		<0.00119	<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 B, Table B.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2023 Annual Groundwater Monitoring Report
HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Volatile Organic Compounds												
Analyte				2-Butanone (MEK)	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	Chloro-benzene	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	mg/L
CGWSL				5.56	0.0380	---	1.24	14.1	0.00500	0.0800	0.00330	0.00754	0.810	0.00500	0.100	20.9
CGWSL Source:				NMED TW	USEPA TW	---	NMED TW	TMED TW	WQCC HH	USEPA MCL	USEPA MCL	NMED TW	NMED TW	WQCC HH	USEPA MCL	NMED TW
Area	Well ID	Date	Dup													
Three Mile Ditch	MW-27	Jun-20		<0.00119	<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		<0.00119	<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-22		<0.00119	<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	Mar-23		<0.00119	<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		<0.00119	<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		<0.00119	<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-22		<0.00119	<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	Oct-22		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	0.000118 J	<0.000136	<0.000129 J4	<0.000605	0.000104 J	<0.000128	<0.000116	<0.000192
	MW-46R	Mar-23		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	0.000109 JB	<0.000128	<0.000116	<0.000192
	MW-46R	Oct-23		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	0.000175 J	<0.000128	<0.000116	<0.000192
	MW-68	Jun-20		<0.00119	<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		<0.00119	<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-68	Apr-22		<0.00119	<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	Mar-23		<0.00119	<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	Jun-20		<0.00119	<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		<0.00119	<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-22		<0.00119	<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	Mar-23		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	0.000154 JB	<0.000128	<0.000116	<0.000192
	MW-89	Jun-20		<0.00119	<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		<0.00119	<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-22		<0.00119	<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	Mar-23		<0.00119	<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		<0.00119	<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		<0.00119	<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-1	Apr-22		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	0.000161 J	<0.000136	<0.000129	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	NP-1	Oct-22		<0.0238	<0.0157	<0.00240	<0.00956	<0.226	<0.00188	<0.00272	<0.00258 J4	**<0.0121**	<0.00192	<0.00256	<0.00232	<0.00384
	NP-1	Mar-23		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129	<0.000605	0.000295 JB	<0.000128	<0.000116	<0.000192
	NP-1	Oct-23		<0.0238	<0.0157	<0.00240	<0.00956	<0.226	<0.00188	<0.00272	<0.00258	**<0.0121**	<0.00192	<0.00256	<0.00232	<0.00384
	NP-6	Apr-17		<0.00393	<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		<0.00393	<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		<0.00119	<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-6	Mar-23		<0.00119	<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
Upgradient	UG-1	Jun-20		<0.00119	<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		<0.00119	<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-1	Apr-22		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129 J4	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	UG-1	Mar-23		<0.00119	<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
	UG-2	Jun-20		<0.00119	<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		<0.00119	<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-22		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129 J4	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	UG-2	Mar-23		<0.00119	<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
	UG-3R	Jun-20		<0.00119	<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		<0.00119	<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-22		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129 J4	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	UG-3R	Mar-23		<0.00119	<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
	UG-4	Jun-20		<0.00119	<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		<0.00119	<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-22		<0.00119	<0.000787	<0.000120	<0.000478	<0.0113	<0.0000941	<0.000136	<0.000129 J4	<0.000605	<0.0000962	<0.000128	<0.000116	<0.000192
	UG-4	Mar-23		<0.00119	<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

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Appendix B, Table B.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2023 Annual Groundwater Monitoring Report
HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	Volatile Organic Compounds											
				Analyte	Chloroform	Chloromethane	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	n-Butyl-benzene
				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	0.0800	0.0203	0.0700	0.00471	0.0800	0.700	0.447	0.193	0.100	0.00500	0.0300	1.00
				CGWSL Source:	USEPA MCL	NMED TW	WQCC HH	USEPA TW	USEPA MCL	WQCC HH	WQCC TW	NMED TW	WQCC Dom	WQCC HH	WQCC HH	USEPA TW
Area	**Well ID**	**Date**	**Dup**													
Cross-Gradient	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	<0.000157
	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	<0.000157
	KWB-13	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	KWB-13	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	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	<0.000157
	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	<0.000157
	MW-136	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000602 J	<0.000430	<0.00100	<0.000157
	MW-136	Oct-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000291 J	<0.000430	<0.00100	<0.000157
	MW-136	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000356 J	<0.000430	<0.00100	<0.000157
	MW-136	Oct-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000290 J	<0.000430	<0.00100	<0.000157
	MW-149	Oct-23		<0.000111	<0.000960 J4	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	MW-150	Oct-23		<0.000111	<0.000960 J4	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	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	<0.000361
	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	<0.000361
	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	<0.000157
	NP-5	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100 J3J4	<0.000157
	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	<0.000361
	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	<0.000157
	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	<0.000157
	RA-3156	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
Evaporation Ponds	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	<0.000157 J4
	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	<0.000157
	MW-1R	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100 J4	<0.000157
	MW-1R	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100 J3J4	<0.000157
	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	<0.000157
	MW-2A	Sep-21													
	MW-2A	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	MW-2A	Oct-22													
	MW-2A	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	MW-2A	Oct-23													
	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	<0.00393
	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	<0.000157
	MW-3	Sep-21													
	MW-3	Sep-21	FD												
	MW-3	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	0.000208 J	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	MW-3	Apr-22	FD	0.000139 J	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	MW-3	Oct-22													
	MW-3	Oct-22	FD												
	MW-3	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	MW-3	Mar-23	FD	<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	MW-3	Oct-23													
	MW-3	Oct-23	FD												
	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	<0.000157
	MW-4A	Sep-21													
	MW-4A	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	0.00107	0.000882 J	0.000221 J	<0.000430	<0.00100 J4	<0.000157
	MW-4A	Oct-22													
	MW-4A	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	0.000921 J	0.000512 J	0.000221 J	<0.000430	<0.00100	<0.000157
	MW-4A	Oct-23													
	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	<0.000361
	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	<0.000361
	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	<0.000157
	MW-4B	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	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	<0.000157
	MW-5A	Sep-21													
	MW-5A	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	0.000288 J	<0.000430	0.00111	<0.000430	<0.00100 J4	<0.000157
	MW-5A	Oct-22													
	MW-5A	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.00102	<0.000430	<0.00100	<0.000157
	MW-5A	Oct-23													
	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	<0.000361
	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	<0.000361
	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	<0.000157
	MW-5B	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	0.000110 J	<0.000430	0.00104	<0.000430	<0.00100	<0.000157
	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	<0.000361
	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	<0.000361
	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	<0.000157
	MW-5C	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000335 J	<0.000430	<0.00100	<0.000157
	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	<0.000785
	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	<0.000785
	MW-6A	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	0.00107	0.000339 J	0.00270	<0.000101	<0.000430	<0.00100 J4	<0.000157
	MW-6A	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	0.000884 J	0.000287 J	0.00233	<0.000101	<0.000430	<0.00100	<0.000157
	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	<0.000361
	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	<0.000361
	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	<0.000157
	MW-6B	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	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	<0.000157
	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	<0.000157
	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	<0.000157
	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	<0.000157
	MW-7A	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000867 J	<0.000430	<0.00100 J4	<0.000157
	MW-7A	Apr-22	FD	<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000830 J	<0.000430	<0.00100 J4	<0.000157
	MW-7A	Oct-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000830 J	<0.000430	<0.00100	<0.000157
	MW-7A	Oct-22	FD	<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000831 J	<0.000430	<0.00100	<0.000157
	MW-7A	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000862 J	<0.000430	<0.00100	<0.000157
	MW-7A	Mar-23	FD	<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.00104	<0.000430	<0.00100	<0.000157
	MW-7A	Oct-23		<0.000111	<0.000960	<0.000126	<0.000111 J4	<0.000140	<0.000137	<0.000105	<0.000430	0.000854 J	<0.000430	<0.00100	<0.000157
	MW-7A	Oct-23	FD	<0.000111	<0.000960	<0.000126	<0.000111 J4	<0.000140	<0.000137	<0.000105	<0.000430	0.000807 J	<0.000430	<0.00100	<0.000157
	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	<0.000361
	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	<0.000361
	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	<0.000157
	MW-7B	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000175 J	<0.000430	<0.00100	<0.000157
	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	<0.000157
	MW-10	Sep-21													
	MW-10	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.00103	<0.000430	<0.00100 J4	<0.000157
	MW-10	Oct-22													
	MW-10	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000898 J	<0.000430	<0.00100	<0.000157
	MW-10	Oct-23													
	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	<0.000157
	MW-11A	Sep-21													
	MW-11A	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	MW-11A	Oct-22													
	MW-11A	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	MW-11A	Oct-23													

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Appendix B, Table B.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2023 Annual Groundwater Monitoring Report
HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	Volatile Organic Compounds											
				Analyte	Chloroform	Chloromethane	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	n-Butyl-benzene
				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	0.0800	0.0203	0.0700	0.00471	0.0800	0.700	0.447	0.193	0.100	0.00500	0.0300	1.00
				CGWSL Source:	USEPA MCL	NMED TW	WQCC HH	USEPA TW	USEPA MCL	WQCC HH	WQCC TW	NMED TW	WQCC Dom	WQCC HH	WQCC HH	USEPA TW
Area	**Well ID**	**Date**	**Dup**													
Evaporation Ponds	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	<0.000361
	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	<0.000361
	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	<0.000157
	MW-11B	Mar-23			<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	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	<0.000157 J4
	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	<0.000157
	MW-15	Apr-22			<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100 J4	<0.000157
	MW-15	Mar-23			0.000112 J	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000139 J	<0.000430	<0.00100 J3J4	<0.000157
	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	<0.000157
	MW-18A	Sep-21														
	MW-18A	Apr-22			0.000115 J	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000636 J	<0.000430	<0.00100	0.000420 JB
	MW-18A	Oct-22														
	MW-18A	Mar-23			<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000779 J	<0.000430	<0.00100 J3J4	<0.000157
	MW-18A	Oct-23														
	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	<0.000361
	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	<0.000361
	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	<0.000157
	MW-18B	Mar-23			<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100 J3J4	<0.000157
	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	<0.000157
	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	<0.000157
	MW-22A	Sep-21														
	MW-22A	Sep-21	FD													
	MW-22A	Apr-22			<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.00239	<0.000430	<0.00100 J4	<0.000157
	MW-22A	Apr-22	FD		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.00231	<0.000430	<0.00100 J4	<0.000157
	MW-22A	Oct-22														
	MW-22A	Oct-22	FD													
	MW-22A	Mar-23			<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.00117	<0.000430	<0.00100	<0.000157
	MW-22A	Mar-23	FD		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.00114	<0.000430	<0.00100	<0.000157
	MW-22A	Oct-23														
	MW-22A	Oct-23	FD													
	MW-22A	Apr-17			<0.000324	<0.000276	<0.000260	<0.000418	<0.000327	<0.000384	<0.000326	<0.000719	0.00564	<0.00100	<0.00100	<0.000361
	MW-22A	Oct-23														
	MW-22A	Oct-23	FD													
	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	<0.000361
	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	<0.000361
	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	<0.000157
	MW-22B	Mar-23			<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	0.000224 J	<0.000430	0.00462	<0.000430	<0.00100	<0.000157
	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	<0.000157
	MW-70	Sep-21														
	MW-70	Apr-22			<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	MW-70	Oct-22														
	MW-70	Mar-23			<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000152 J	<0.000430	<0.00100 J3J4	<0.000157
	MW-70	Oct-23														
	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	<0.000157
	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	<0.000157
	MW-72	Apr-22			<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	MW-72	Mar-23			<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	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	<0.000157
	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	<0.000157
	MW-73	Apr-22			<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000576 J	<0.000430	<0.00100	<0.000157
	MW-73	Mar-23			<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000466 J	<0.000430	<0.00100	<0.000157
	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	<0.000157
	MW-74	Sep-21														
	MW-74	Apr-22			<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000482 J	<0.000430	<0.00100	<0.000157
	MW-74	Oct-22														
	MW-74	Mar-23			<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000439 J	<0.000430	<0.00100	<0.000157
	MW-74	Oct-23														
	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	<0.00393
	MW-75	Sep-21														
	MW-75	Apr-22			<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	0.000970 J	<0.000430	0.00471	<0.000430	<0.00100 J4	<0.000157
	MW-75	Oct-22														
	MW-75	Mar-23			<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	0.00279	<0.000430	0.00380	<0.000430	<0.00100	<0.000157
	MW-75	Oct-23														
	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	<0.000157
	MW-76	Sep-21														
	MW-76	Apr-22			<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	0.00127	<0.000430	0.00418	<0.000430	<0.00100 J4	<0.000157
	MW-76	Oct-22														
	MW-76	Mar-23			<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	0.000630 J	<0.000430	0.00361	<0.000430	0.00138 J	<0.000157
	MW-76	Oct-23														
	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	<0.00393
	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	<0.00393
	MW-77	Apr-22			<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	0.000224 J	<0.000430	0.000672 J	<0.000430	<0.00100 J4	<0.000157
	MW-77	Mar-23			<0.00111	<0.00960	<0.00126	<0.00111	<0.00140	<0.00137	<0.00105	<0.00430	<0.00101	<0.00430	<0.0100	<0.00157
	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	<0.000157 J4
	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	<0.000157
	MW-78	Apr-22			<0.00111	<0.00960	<0.00126	<0.00111	<0.00140	<0.00137	<0.00105	<0.00430	<0.00101	<0.00430	<0.0100	<0.00157
	MW-78	Mar-23			<0.00111	<0.00960	<0.00126	<0.00111	<0.00140	<0.00137	<0.00105	<0.00430	<0.00101	<0.00430	<0.0100	<0.00157
	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	<0.000157
	MW-79	Sep-21														
	MW-79	Apr-22			<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	MW-79	Oct-22														
	MW-79	Mar-23			<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	MW-79	Oct-23														
	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	<0.000157
	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	<0.000157
	MW-80	Apr-22			<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	MW-80	Mar-23			<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	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	<0.000157
	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	<0.000157
	MW-81	Apr-22			<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	MW-81	Mar-23			<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	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	<0.000157 J4
	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	<0.000157
	MW-82	Apr-22			<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100 J4	<0.000157
	MW-82	Mar-23			<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	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	<0.000157
	MW-83	Sep-21														
	MW-83	Apr-22			<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	0.000238 J	<0.000430	0.000199 J	<0.000430	<0.00100	<0.000157
	MW-83	Oct-22														
	MW-83	Mar-23			<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	0.000294 J	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	MW-83	Oct-23														
	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	<0.00157
	MW-84	Sep-21														
	MW-84	Apr-22			<0.00222	<0.0192	<0.00252	<0.00222	<0.00280	<0.00274	<0.00210	<0.00860	<0.00202	**<0.00860**	<0.0200	<0.00314
	MW-84	Oct-22														
	MW-84	Mar-23			<0.00111	<0.00960	<0.00126	<0.00111	<0.00140	<0.00137	<0.00105	<0.00430	<0.00101	<0.00430	<0.0100	<0.00157
	MW-84	Oct-23														

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Appendix B, Table B.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2023 Annual Groundwater Monitoring Report
HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	Volatile Organic Compounds											
				Analyte	Chloroform	Chloromethane	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	n-Butyl-benzene
				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	0.0800	0.0203	0.0700	0.00471	0.0800	0.700	0.447	0.193	0.100	0.00500	0.0300	1.00
				CGWSL Source:	USEPA MCL	NMED TW	WQCC HH	USEPA TW	USEPA MCL	WQCC HH	WQCC TW	NMED TW	WQCC Dom	WQCC HH	WQCC HH	USEPA TW
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	<0.00314
	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	<0.00314
	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	<0.000157
	MW-87	Sep-21													
	MW-87	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000586 J	<0.000430	<0.00100	<0.000157
	MW-87	Oct-22													
	MW-87	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000455 J	<0.000430	<0.00100 J3J4	<0.000157
	MW-87	Oct-23													
	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	<0.000157
	MW-88	Sep-21													
	MW-88	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100 J4	<0.000157
	MW-88	Oct-22													
	MW-88	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	MW-88	Oct-23													
	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	<0.000785
	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	<0.000157
	MW-120	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100 J4	<0.000157
	MW-120	Oct-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	MW-120	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	MW-120	Oct-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	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	<0.000157
	MW-121	Sep-21													
	MW-121	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100 J4	<0.000157
	MW-121	Oct-22													
	MW-121	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	MW-121	Oct-23													
	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	<0.000157
	MW-122	Sep-21													
	MW-122	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	MW-122	Oct-22													
	MW-122	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	MW-122	Oct-23													
	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	<0.000157
	MW-123	Sep-21													
	MW-123	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.00164	<0.000430	<0.00100 J4	<0.000157
	MW-123	Oct-22													
	MW-123	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.00157	<0.000430	<0.00100	<0.000157
	MW-123	Oct-23													
	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	<0.000157
	MW-124	Sep-21													
	MW-124	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100 J4	<0.000157
	MW-124	Oct-22													
	MW-124	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100 J3J4	<0.000157
	MW-124	Oct-23													
	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	<0.000157
	OCD-1R	Sep-21													
	OCD-1R	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	OCD-1R	Oct-22													
	OCD-1R	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	OCD-1R	Oct-23													
	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	<0.000157
	OCD-2A	Sep-21													
	OCD-2A	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	OCD-2A	Oct-22													
	OCD-2A	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	OCD-2A	Oct-23													
	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	<0.000157
	OCD-3	Sep-21													
	OCD-3	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	OCD-3	Oct-22													
	OCD-3	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	OCD-3	Oct-23													
	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	<0.000157
	OCD-4	Sep-21													
	OCD-4	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	OCD-4	Oct-22													
	OCD-4	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	OCD-4	Oct-23													
	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	<0.000157
	OCD-5	Sep-21													
	OCD-5	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	OCD-5	Oct-22													
	OCD-5	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	OCD-5	Oct-23													
	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	<0.000157
	OCD-6	Sep-21													
	OCD-6	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	OCD-6	Oct-22													
	OCD-6	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	OCD-6	Oct-23													
	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	<0.000157
	OCD-7AR	Sep-21													
	OCD-7AR	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.00130	<0.000430	<0.00100	<0.000157
	OCD-7AR	Oct-22													
	OCD-7AR	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.00164	<0.000430	<0.00100	<0.000157
	OCD-7AR	Oct-23													
	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	<0.000361
	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	<0.000361
	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	<0.000157
	OCD-7B	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	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	<0.000157
	OCD-8A	Sep-21													
	OCD-8A	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.00228	<0.000430	<0.00100 J4	<0.000157
	OCD-8A	Oct-22													
	OCD-8A	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.00211	<0.000430	<0.00100	<0.000157
	OCD-8A	Oct-23													
	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	<0.000361
	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	<0.000361
	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	<0.000157
	OCD-8B	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000523 J	<0.000430	<0.00100	<0.000157

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Appendix B, Table B.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2023 Annual Groundwater Monitoring Report
HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	Volatile Organic Compounds											
				Analyte	Chloroform	Chloromethane	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	n-Butyl-benzene
				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	0.0800	0.0203	0.0700	0.00471	0.0800	0.700	0.447	0.193	0.100	0.00500	0.0300	1.00
				CGWSL Source:	USEPA MCL	NMED TW	WQCC HH	USEPA TW	USEPA MCL	WQCC HH	WQCC TW	NMED TW	WQCC Dom	WQCC HH	WQCC HH	USEPA TW
Area	Well ID	Date	Dup													
Field East of Refinery	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	<0.000157
	KWB-1A	Oct-22		0.00225 J	<0.000960 J3	<0.000126	<0.000111 J4	<0.000140	0.00519	0.00428	0.0334	<0.000101	<0.000430	0.00274 J	0.000659 J
	KWB-1A	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	0.00365	0.00417	0.0335	<0.000101	<0.000430	0.00247 J	0.000447 J
	KWB-1A	Oct-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	0.00145	0.00283	0.0264	<0.000101	<0.000430	0.00328 J	<0.000157
	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	<0.000361
	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	<0.000361
	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	<0.000157
	KWB-1C	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	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**	0.00170
	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	0.00291
	KWB-7	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	0.00103	0.0405	0.00103 J	0.00646	<0.000430	0.00138 J	<0.000157
	KWB-7	Oct-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	0.00122	0.0705	<0.000430	0.00469	<0.000430	0.00143 JB	0.000891 JB
	KWB-7	Mar-23		<0.00555	**<0.0480**	<0.00630	**<0.00555**	<0.00700	<0.00685	0.0273 J	<0.0215	0.00819 J	**<0.0215**	**<0.0500**	<0.00785
	KWB-7	Oct-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	0.000345 J	0.0310	<0.000430	0.00353	<0.000430	<0.00100	<0.000157
	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**	<0.0361
	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**	0.00209
	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**	<0.0314
	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**	<0.0180
	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**	<0.000361
	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**	<0.0902
	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**	<0.0902
	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	0.00117
	KWB-11A	Oct-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140 J4	0.000721 J	0.00320	<0.000430	0.00158	<0.000430	<0.00100	0.000449 J
	KWB-11A	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	0.000343 J	0.00343	<0.000430	0.000877 J	<0.000430	<0.00100 J3J4	<0.000157
	KWB-11A	Oct-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	0.000585 J	<0.000430	0.00147	<0.000430	<0.00100	<0.000157
	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	<0.000157
	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	<0.000157
	KWB-11B	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	0.000121 J	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	KWB-11B	Oct-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140 J4	<0.000137	<0.000105	<0.000430	0.00145	<0.000430	<0.00100	<0.000157
	KWB-11B	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.00111	<0.000430	<0.00100	<0.000157
	KWB-11B	Oct-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.00150	<0.000430	<0.00100	<0.000157
	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	<0.000157
	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	<0.000157
	KWB-12A	Oct-22		<0.000111	<0.000960 J3	<0.000126	<0.000111 J4	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	KWB-12A	Oct-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	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	<0.000157
	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	<0.000157
	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	<0.000157
	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	<0.000157
	KWB-12B	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	KWB-12B	Apr-22	FD	<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	KWB-12B	Oct-22		<0.000111	<0.000960 J3	<0.000126	<0.000111 J4	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	KWB-12B	Oct-22	FD	<0.000111	<0.000960 J3	<0.000126	<0.000111 J4	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	KWB-12B	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	KWB-12B	Mar-23	FD	<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	KWB-12B	Oct-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	KWB-12B	Oct-23	FD	<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	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	<0.000361
	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	<0.000361
	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	<0.000157
	KWB-P4	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	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	<0.000157
	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	<0.000157
	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	<0.000157
	MW-57	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	0.000221 J	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	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**	0.00529
	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**	<0.0180
	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**	<0.0180
	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**	0.00804 J
	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	<0.00902
	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	<0.000361
	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	<0.000361
	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	<0.00393
	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**	<0.00900
	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	<0.000785
	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	<0.000157
	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**	<0.00785
	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**	0.00723 J
	MW-113	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	0.0217	0.00337	0.0955	0.0147	<0.000430	0.00192 JJ4	0.000267 J
	MW-113	Apr-22	FD	<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	0.0227	0.00334	0.102	0.0136	<0.000430	0.00163 J	<0.000157
	MW-113	Oct-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140 J4	**2.58**	0.148	**1.06**	0.0341	<0.000430	**0.329 JB**	0.0130
	MW-113	Oct-22	FD	<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	**2.63**	0.160	**1.12**	0.0365	<0.000430	**0.301 B**	0.0143
	MW-113	Mar-23		0.00273 J	<0.000960	<0.000126	<0.000111	<0.000140	0.0185	0.00613	0.0425	0.0159	<0.000430	0.00660	0.000906 J
	MW-113	Mar-23	FD	<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	0.0233	0.00765	0.0536	0.0152	<0.000430	0.00678	0.00113
	MW-113	Oct-23		<0.00555	**<0.0480**	<0.00630	**<0.00555**	<0.00700	**2.23**	0.139	**0.848**	0.0421 J	**<0.0215**	**0.168 JJ4**	<0.00785
	MW-113	Oct-23	FD	<0.00555	**<0.0480**	<0.00630	**<0.00555**	<0.00700	**2.21**	0.138	**0.826**	0.0431 J	**<0.0215**	**0.182 JJ4**	<0.00785
	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	<0.000157
	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	<0.000157
	MW-125	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	MW-125	Oct-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	MW-125	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	MW-125	Oct-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000124 J	<0.000430	<0.00100	<0.000157
	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	<0.000361
	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	<0.000361
	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	<0.000157
	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	<0.000157
	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	<0.000157
	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	<0.000157
	MW-126B	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000155 J	<0.000430	<0.00100	<0.000157
	MW-126B	Oct-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	MW-126B	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000236 J	<0.000430	<0.00100	<0.000157
	MW-126B	Oct-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000214 J	<0.000430	<0.00100	<0.000157
	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	<0.000361
	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	<0.00722
	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	<0.00722
	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	<0.00722
	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	<0.000361
	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**	<0.00722
	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	<0.00722
	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	<0.00722
	MW-129	Apr-15		<0.000320	<0.000280	<0.000260	<0.000420	<0.000330	0.00131	0.00198	0.00245	**7.04**	<0.00100	0.00407 J	0.000458 J
	MW-129	Oct-15		<0.0324	**<0.0276**	<0.0260	**<0.0418**	<0.0327	<0.0384	<0.0326	<0.0719	**5.79**	**<0.100**	**<0.100**	<0.0361
	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	<0.000361
	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	<0.000361

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Appendix B, Table B.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2023 Annual Groundwater Monitoring Report

HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	Volatile Organic Compounds											
				Analyte	Chloroform	Chloromethane	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	n-Butyl-benzene
				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	0.0800	0.0203	0.0700	0.00471	0.0800	0.700	0.447	0.193	0.100	0.00500	0.0300	1.00
				CGWSL Source:	USEPA MCL	NMED TW	WQCC HH	USEPA TW	USEPA MCL	WQCC HH	WQCC TW	NMED TW	WQCC Dom	WQCC HH	WQCC HH	USEPA TW
Area	Well ID	Date	Dup													
Field East of Refinery	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	<0.000157
	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	<0.000157
	MW-130	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.00212	<0.000430	<0.00100 J4	<0.000157
	MW-130	Oct-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.00231	<0.000430	<0.00100	<0.000157
	MW-130	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.00236	<0.000430	<0.00100	<0.000157
	MW-130	Oct-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.00236	<0.000430	0.00133 J	<0.000157
	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	0.00255
	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**	0.00185
	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**	0.00269
	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**	<0.00785
	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**	<0.0360
	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**	<0.0360
	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	<0.000157
	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	<0.000157
	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	<0.000157
	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	<0.000157
	MW-134	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	MW-134	Apr-22	FD	<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	MW-134	Oct-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140 J4	0.000544 J	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	MW-134	Oct-22	FD	<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	0.000280 J	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	MW-134	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	MW-134	Mar-23	FD	<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	MW-134	Oct-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	MW-134	Oct-23	FD	<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	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	<0.000157
	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	<0.000157
	MW-135	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	MW-135	Oct-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140 J4	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	MW-135	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	MW-135	Oct-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430 J4	<0.00100 J4	<0.000157
	MW-135	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	MW-135	Oct-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430 J4	<0.00100 J4	<0.000157
	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	<0.000157
	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	<0.000157
	MW-145	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000832 J	<0.000430	<0.00100	<0.000157
	MW-145	Oct-22		<0.000111	<0.000960 J3	<0.000126	<0.000111 J4	<0.000140	<0.000137	<0.000105	<0.000430	0.00101	<0.000430	<0.00100	<0.000157
	MW-145	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000756 J	<0.000430	<0.00100 J3J4	<0.000157
	MW-145	Oct-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000971 J	<0.000430 J4	<0.00100 J4	<0.000157
	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	<0.000157
	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	<0.000157
	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	<0.000157
	MW-146	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	MW-146	Apr-22	FD	<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	MW-146	Oct-22		<0.000111	<0.000960 J3	<0.000126	<0.000111 J4	<0.000140	<0.000137	<0.000105	<0.000430	0.000213 J	<0.000430	<0.00100	<0.000157
	MW-146	Oct-22	FD	<0.000111	<0.000960 J3	<0.000126	<0.000111 J4	<0.000140	<0.000137	<0.000105	<0.000430	0.000211 J	<0.000430	<0.00100	<0.000157
	MW-146	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100 J3J4	<0.000157
	MW-146	Mar-23	FD	<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	MW-146	Oct-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000108 J	<0.000430 J4	<0.00100 J4	<0.000157
	MW-146	Oct-23	FD	<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430 J4	<0.00100 J4	<0.000157
	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	<0.000157
	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	<0.000157
	MW-147	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	MW-147	Oct-22		<0.000111	<0.000960 J3	<0.000126	<0.000111 J4	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	MW-147	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	MW-147	Oct-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430 J4	<0.00100 J4	<0.000157
	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	<0.000157
	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	<0.000157
	MW-148	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	MW-148	Oct-22		<0.000111	<0.000960 J3	<0.000126	<0.000111 J4	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	MW-148	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	MW-148	Oct-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000171 J	<0.000430 J4	<0.00100 J4	<0.000157
	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	<0.000157
	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	<0.000157
	RA-4196R	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	RA-4196R	Oct-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	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	<0.000157
	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	<0.000157
	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	<0.000157
	RA-4798	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000397 J	<0.000430	<0.00100	<0.000157
	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	<0.00180
	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	0.00125
	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	0.000615 J
	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	<0.000157
	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	0.00193
	RW-13R	Mar-23		<0.00555	**<0.0480**	<0.00630	**<0.00555**	<0.00700	**0.819**	0.0719	**1.23**	**0.607**	**<0.0215**	**0.0890 J**	0.0134 J
	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	<0.000361
	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	<0.000361
	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	<0.000157
	RW-18A	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100 J3J4	<0.000157
	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**	0.00846 J
	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**	0.00856 J
NCL	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	<0.000157
	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	<0.000157
	MW-18	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000299 J	<0.000430	<0.00100	<0.000157
	MW-18	Mar-23		<0.000111	<0.000960 J3	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000201 J	<0.000430 J4	<0.00100 J3J4	<0.000157
	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	<0.000157
	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	<0.000157
	MW-45	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.00829	<0.000430	<0.00100	<0.000157
	MW-45	Oct-22		<0.000111	<0.000960	<0.000126	<0.000111 J4	<0.000140	<0.000137	0.000121 J	<0.000430	0.00549	<0.000430	<0.00100	0.000667 J
	MW-45	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.00674	<0.000430	<0.00100	<0.000157
	MW-45	Oct-23		<0.000111	<0.000960	<0.000126	<0.000111 J4	<0.000140	<0.000137	<0.000105	<0.000430	0.00379	<0.000430	<0.00100	<0.000157
	MW-53	Apr-15		<0.000320	<0.000280	<0.000260	<0.000420	<0.000330	<0.000380	<0.000330	<0.000720	<0.000370	<0.00100	<0.00100	<0.000360
	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	<0.000361
	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	<0.000361
	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	<0.000361
	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	<0.000157
	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	<0.000157
	MW-53R	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	MW-53R	Mar-23		<0.000111	<0.000960 J3	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101 J3	<0.000430 J4	<0.00100 J3J4	<0.000157
	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	<0.000157
	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	<0.000157
	MW-54A	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	MW-54A	Oct-22		<0.000111	<0.000960	<0.000126	<0.000111 J4	<0.000140	<0.000137	<0.000105	<0.000430	0.000141 J	<0.000430	<0.00100	<0.000157
	MW-54A	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	MW-54A	Oct-23		<0.000111	<0.000960	<0.000126	<0.000111 J4	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157

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Appendix B, Table B.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2023 Annual Groundwater Monitoring Report

HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	Volatile Organic Compounds											
				Analyte	Chloroform	Chloromethane	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	n-Butyl-benzene
				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	0.0800	0.0203	0.0700	0.00471	0.0800	0.700	0.447	0.193	0.100	0.00500	0.0300	1.00
				CGWSL Source:	USEPA MCL	NMED TW	WQCC HH	USEPA TW	USEPA MCL	WQCC HH	WQCC TW	NMED TW	WQCC Dom	WQCC HH	WQCC HH	USEPA TW
Area	Well ID	Date	Dup													
NCL	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	<0.000361
	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	<0.000361
	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	<0.000157
	MW-54B	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	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	<0.00157
	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	<0.000157
	MW-55	Apr-22		<0.00111	<0.00960	<0.00126	<0.00111	<0.00140	<0.00137	<0.00105	<0.00430	**0.438**	<0.00430	<0.0100	<0.00157
	MW-55	Oct-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.0772	<0.000430	<0.00100	<0.000157
	MW-55	Mar-23		<0.000111	<0.000960 J3	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	**0.357**	<0.000430 J4	<0.00100 J3J4	<0.000157
	MW-55	Oct-23		<0.00111	<0.00960	<0.00126	<0.00111 J4	<0.00140	<0.00137	<0.00105	<0.00430	**0.192**	<0.00430	<0.0100	<0.00157
	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	<0.000157
	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	<0.000157
	MW-56	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000112 J	<0.000430	<0.00100	<0.000157
	MW-56	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	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	0.00157 J
	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	<0.00157
	MW-108	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	0.000543 J	0.0259	0.00386	<0.000101	<0.000430	<0.00100 J4	0.00161
	MW-108	Oct-22		0.00115 J	<0.000960	<0.000126	<0.000111 J4	<0.000140	0.000558 J	0.0259	0.00266	<0.000101	<0.000430	<0.00100	0.00206
	MW-108	Mar-23		<0.000111	<0.000960 J3	<0.000126	<0.000111	<0.000140	0.000750 J	0.0322	0.00585	<0.000101 J3	<0.000430 J4	0.00243 JJ3J4	0.00190
	MW-108	Oct-23		<0.000111	<0.000960	<0.000126	<0.000111 J4	<0.000140	0.000247 J	0.0160	0.00133 J	<0.000101	<0.000430	<0.00100	<0.000157
	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	<0.000157
	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	<0.000157
	NCL-31	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	NCL-31	Oct-22		<0.000111	<0.000960	<0.000126	<0.000111 J4	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	NCL-31	Mar-23		<0.000111	<0.000960 J3	<0.000126	<0.000111	<0.000140	<0.000137	0.000391 J	<0.000430	<0.000101 J3	<0.000430 J4	0.00104 JJ3J4	<0.000157
	NCL-31	Oct-23		<0.000111	<0.000960	<0.000126	<0.000111 J4	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	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	<0.000157
	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	<0.000157
	NCL-32	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	NCL-32	Oct-22		<0.000111	<0.000960	<0.000126	<0.000111 J4	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	NCL-32	Mar-23		<0.000111	<0.000960 J3	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101 J3	<0.000430 J4	<0.00100 J3J4	<0.000157
	NCL-32	Oct-23		<0.000111	<0.000960	<0.000126	<0.000111 J4	<0.000140	<0.000137	<0.000105	0.000570 J	<0.000101	<0.000430	0.00197 J	<0.000157
	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	<0.000157
	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	<0.000157
	NCL-33	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000495 J	<0.000430	<0.00100	<0.000157
	NCL-33	Oct-22		<0.000111	<0.000960	<0.000126	<0.000111 J4	<0.000140	<0.000137	<0.000105	<0.000430	0.000516 J	<0.000430	<0.00100	<0.000157
	NCL-33	Mar-23		<0.000111	<0.000960 J3	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000310 J	<0.000430 J4	<0.00100	<0.000157
	NCL-33	Oct-23		<0.000111	<0.000960	<0.000126	<0.000111 J4	<0.000140	<0.000137	<0.000105	<0.000430	0.000320 J	<0.000430	<0.00100	<0.000157
	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	0.00458 J
	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	<0.00722
	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	0.00587
	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	0.00420 J
	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	<0.000157
	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	<0.000157
	NCL-44	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	0.000827 J	<0.000430	0.000327 J	<0.000430	<0.00100	<0.000157
	NCL-44	Oct-22		<0.000111	<0.000960	<0.000126	<0.000111 J4	<0.000140	<0.000137	0.00122	<0.000430	0.000401 J	<0.000430	<0.00100	0.000847 J
	NCL-44	Mar-23		<0.000111	<0.000960 J3	<0.000126	<0.000111	<0.000140	<0.000137	0.000636 J	<0.000430	0.000182 J	<0.000430 J4	<0.00100	<0.000157
	NCL-44	Oct-23		<0.000111	<0.000960	<0.000126	<0.000111 J4	<0.000140	<0.000137	0.000668 J	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	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	<0.000157
	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	<0.000157
	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	<0.000157
	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	<0.000157
	NCL-49	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	NCL-49	Apr-22	FD	<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	NCL-49	Oct-22		<0.000111	<0.000960	<0.000126	<0.000111 J4	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	NCL-49	Oct-22	FD	<0.000111	<0.000960	<0.000126	<0.000111 J4	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	NCL-49	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	NCL-49	Mar-23	FD	<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	NCL-49	Oct-23		<0.000111	<0.000960	<0.000126	<0.000111 J4	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	NCL-49	Oct-23	FD	<0.000111	<0.000960	<0.000126	<0.000111 J4	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
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**	<0.0361
	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**	0.00955 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**	0.00903 JJ4
	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**	0.00844 J
	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	<0.000157
	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	<0.000157
	MW-29	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	0.000234 J	<0.000430	0.00436	<0.000430	<0.00100	<0.000157
	MW-29	Oct-22		<0.000111	<0.000960	<0.000126	<0.000111 J4	<0.000140	<0.000137	<0.000105	<0.000430	0.0587	<0.000430	<0.00100	<0.000157
	MW-29	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.0684	<0.000430	<0.00100	<0.000157
	MW-29	Oct-23		<0.000111	<0.000960	<0.000126	<0.000111 J4	<0.000140	<0.000137	<0.000105	<0.000430	**0.137**	<0.000430	<0.00100	<0.000157
	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	0.000981 J
	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	<0.000361
	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	<0.000157
	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	<0.000157
	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	<0.000361
	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	0.000605 J
	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	<0.000361
	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	0.000245 J
	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	<0.000361
	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	<0.000361
	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	<0.000157
	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	<0.000157
	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	<0.00180
	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	<0.000785 J4
	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	<0.000785
	MW-42	Apr-22		<0.000555	<0.00480	<0.000630	<0.000555	<0.000700	0.00241 J	0.0206	0.0187	0.0413	<0.00215	<0.00500	<0.000785
	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**	<0.0722
	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**	<0.0722
	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**	0.00373 J
	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**	<0.00785
	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	<0.000361
	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	<0.000361
	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	<0.000361
	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	<0.000157 J4
	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	<0.000157 J4
	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	<0.000157 J4
	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	<0.000157
	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	<0.000157
	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**	<0.00785
	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**	<0.00785
	MW-61	Apr-22		<0.00555	**<0.0480**	<0.00630	**<0.00555**	<0.00700	0.0833	0.0861	**0.691**	0.0105 J	**<0.0215**	**0.148 J**	<0.00785
	MW-61	Oct-22		0.0339 J	**0.0567 J**	<0.00630	**<0.00555** J4	<0.00700	0.0783	0.126	**0.918**	0.00701 J	**<0.0215**	**0.267**	0.0279 J
	MW-61	Mar-23		<0.00555	**<0.0480**	<0.00630	**<0.00555**	<0.00700	0.0510	0.0760	**0.574**	<0.00505	**<0.0215**	**0.149 J**	<0.00785
	MW-61	Oct-23		<0.00111	<0.00960	<0.00126	<0.00111	<0.00140	0.0625	0.106	**0.811**	<0.00101	<0.00430	**0.138 J4**	<0.00157

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Appendix B, Table B.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2023 Annual Groundwater Monitoring Report

HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	Volatile Organic Compounds											
				Analyte	Chloroform	Chloromethane	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	n-Butyl-benzene
				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	0.0800	0.0203	0.0700	0.00471	0.0800	0.700	0.447	0.193	0.100	0.00500	0.0300	1.00
				CGWSL Source:	USEPA MCL	NMED TW	WQCC HH	USEPA TW	USEPA MCL	WQCC HH	WQCC TW	NMED TW	WQCC Dom	WQCC HH	WQCC HH	USEPA TW
Area	**Well ID**	**Date**	**Dup**													
North Refinery	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**	0.00412 J
	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**	0.0173 J
	MW-62	Apr-22		<0.00555	**<0.0480**	<0.00630	**<0.00555**	<0.00700	0.307	0.138	**1.77**	0.0590	**<0.0215**	**0.227 J**	0.0384 J
	MW-62	Oct-22		0.00653 J	**<0.0480**	<0.00630	**<0.00555** J4	<0.00700	0.161	0.111	**0.968**	**0.102**	**<0.0215**	**0.113 J**	0.0286 J
	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**	<0.00785
	MW-62R	Apr-22		<0.00111	<0.00960	<0.00126	<0.00111	<0.00140	0.0108	0.108	0.0187 J	0.0136	<0.00430	0.0104 J	0.00922 J
	MW-62R	Mar-23		<0.0111	**<0.0960**	<0.0126	**<0.0111**	<0.0140	<0.0137	0.121	<0.0430	0.0517 J	**<0.0430**	**<0.100**	<0.0157
	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	0.00196
	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	0.00588
	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	0.00129
	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	0.00299 J
	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	0.000309 J
	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	<0.00157
	MW-90	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	0.000282 J	0.0370	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	MW-90	Oct-22		0.00139 J	<0.000960	<0.000126	<0.000111	<0.000140	0.000277 J	0.0471	<0.000430	<0.000101	<0.000430	<0.00100	0.000384 J
	MW-90	Mar-23		0.00113 J	<0.00960	<0.00126	<0.00111	<0.00140	<0.00137	0.0346	<0.00430	<0.00101	<0.00430	<0.0100	<0.00157
	MW-90	Oct-23		<0.000111	<0.000960	<0.000126	<0.000111 J4	<0.000140	0.000147 J	0.0389	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	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**	<0.0361
	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**	<0.0361
	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**	<0.0361
	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**	<0.0157
	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**	<0.00902
	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	0.00367
	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**	0.00447
	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**	<0.00314 J4
	MW-94	Nov-14		<0.00650	<0.00550	<0.00520	**<0.00840**	<0.00650	0.580	0.0840	**0.310**	**1.30**	**<0.0200**	**0.220**	0.0400
	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**	0.0219
	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**	0.0553
	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	<0.000361
	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	<0.000361
	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	<0.000361
	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	<0.000157
	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	0.00493 JB
	MW-96	Apr-22		<0.00111	<0.00960	<0.00126	<0.00111	<0.00140	0.00147 J	0.0624	<0.00430	**28.0**	<0.00430	<0.0100	0.00785 J
	MW-96	Oct-22		<0.00222	<0.0192	<0.00252	<0.00222	<0.00280	<0.00274	0.0839	<0.00860	**32.3**	**<0.00860**	<0.0200	0.0104 J
	MW-96	Mar-23		**<0.111**	**<0.960** J3	**<0.126**	**<0.111**	**<0.140**	0.155 J	<0.105	**<0.430**	**25.7 J3**	**<0.430** J4	**<1.00** J3J4	<0.157
	MW-96	Oct-23		<0.00111	<0.00960	<0.00126	<0.00111 J4	<0.00140	<0.00137	0.0560	<0.00430	**36.3**	<0.00430	<0.0100	<0.00157
	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**	<0.00785
	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**	<0.00785
	MW-98	Apr-22		<0.00555	**<0.0480**	<0.00630	**<0.00555**	<0.00700	0.660	0.0897	**1.66**	<0.00505	**<0.0215**	**0.238 J**	0.0253 J
	MW-98	Oct-22		0.0285 J	**<0.0480**	<0.00630	**<0.00555** J4	<0.00700	0.510	0.0859	**1.42**	<0.00505	**<0.0215**	**0.271**	0.0240 J
	MW-98	Mar-23		<0.0222	**<0.192**	<0.0252	**<0.0222**	<0.0280	0.477	0.0861 J	**1.41**	<0.0202	**<0.0860**	**<0.200**	<0.0314
	MW-98	Oct-23		<0.00111	<0.00960	<0.00126	<0.00111	<0.00140	0.447	0.109	**1.35**	<0.00101	<0.00430	**0.306**	<0.00157
	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**	<0.0722
	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**	<0.0722
	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**	<0.0722
	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**	<0.0722
	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**	0.00606
	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**	0.00518
	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**	<0.00180
	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**	0.00737
	RW-1	Apr-15		<0.0160	<0.0140	**1.02**	**<0.0210**	<0.0160	0.0470 J	<0.0160	0.0365 J	<0.0180	**<0.0500**	**<0.0500**	<0.0180
	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	0.00401 J
	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	0.00339
	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	0.00257
	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**	0.0106
	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**	<0.0180
	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**	0.0139
	RW-2	Mar-23		<0.00222	<0.0192	**0.634**	<0.00222	<0.00280	0.198	0.0286	0.0634	<0.00202	**<0.00860**	0.0234 J	0.0156 J
	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	<0.000361
	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	0.00102
	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	<0.000361
	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	<0.000157 J4
	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	<0.00360
	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**	0.00837
	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	0.000462 J
	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	<0.000157
	RW-9	Apr-22		<0.00111	<0.00960	<0.00126	<0.00111	<0.00140	<0.00137	0.0902	<0.00430	**0.417**	<0.00430	<0.0100	<0.00157
	RW-9	Mar-23		<0.00111	<0.00960	<0.00126	<0.00111	<0.00140	<0.00137	0.0328	<0.00430	**0.161**	<0.00430	<0.0100	<0.00157
	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	0.00108
	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	<0.000361
	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	<0.000157
	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	<0.000157
	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	<0.000361
	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	<0.000361
	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	<0.000157
	RW-16B	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.0764	<0.000430	0.00129 J	<0.000157
	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	<0.000361
	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	<0.000361
	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	<0.000157 J4
	RW-17A	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.0157	<0.000430	<0.00100	<0.000157
North RO Field	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	<0.000157
	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	<0.000157
	MW-117	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.0384	<0.000430	<0.00100 J4	<0.000157
	MW-117	Oct-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.0166	<0.000430	<0.00100	<0.000157
	MW-117	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.0166	<0.000430	<0.00100 J3J4	<0.000157
	MW-117	Oct-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.0246	<0.000430	<0.00100	<0.000157
	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	<0.000157
	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	<0.000157
	MW-118	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100 J4	<0.000157
	MW-118	Oct-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	MW-118	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100 J3J4	<0.000157
	MW-118	Oct-23		<0.000111	<0.000960 J4	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	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	<0.000157
	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	<0.000157
	MW-119	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	MW-119	Oct-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	MW-119	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100 J3J4	<0.000157
	MW-119	Oct-23		<0.000111	<0.000960 J4	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157

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Appendix B, Table B.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2023 Annual Groundwater Monitoring Report

HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	Volatile Organic Compounds											
				Analyte	Chloroform	Chloromethane	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	n-Butyl-benzene
				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	0.0800	0.0203	0.0700	0.00471	0.0800	0.700	0.447	0.193	0.100	0.00500	0.0300	1.00
				CGWSL Source:	USEPA MCL	NMED TW	WQCC HH	USEPA TW	USEPA MCL	WQCC HH	WQCC TW	NMED TW	WQCC Dom	WQCC HH	WQCC HH	USEPA TW
Area	**Well ID**	**Date**	**Dup**													
North RO Field	MW-140	Mar-23														
	MW-140	Oct-23														
	MW-141	Mar-23														
	MW-141	Oct-23														
	MW-142	Mar-23														
	MW-142	Oct-23														
	MW-143	Mar-23														
	MW-143	Oct-23														
South Refinery	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	0.00147	
	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**	0.00315	
	KWB-2R	Mar-23		<0.000555	<0.00480	<0.000630	<0.000555	<0.000700	0.0173	0.0166	0.0118	0.0262	<0.00215	**0.0537**	0.00691	
	KWB-2R	Oct-23		<0.000555	<0.00480 J4	<0.000630	<0.000555	<0.000700	0.00397 J	0.00182 J	0.00219 J	0.0142	<0.00215	<0.00500	<0.000785	
	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	0.00118	
	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**	<0.0902	
	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**	<0.0902	
	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	<0.0902	
	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**	0.00434 J	
	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**	<0.000361	
	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**	<0.00722	
	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**	<0.00722	
	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**	<0.0180	
	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**	<0.0181	
	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	0.00113 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	<0.000785	
	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**	<0.0902	
	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**	<0.0902	
	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**	<0.0902	
	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**	<0.0903	
	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	<0.000157	
	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	<0.000157	
	MW-50	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157	
	MW-50	Oct-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	0.00114 J	<0.000157	
	MW-50	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	0.00104 J	<0.000157	
	MW-50	Oct-23		<0.000111	<0.000960	<0.000126	<0.000111 J4	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	0.00150 J	<0.000157	
	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	<0.000157	
	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	<0.000157	
	MW-52	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100 J4	<0.000157	
	MW-52	Oct-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157	
	MW-52	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157	
	MW-52	Oct-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	0.00477	0.000253 J	0.00181 J	0.000216 J	<0.000430	<0.00100	<0.000157	
	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**	<0.0785	
	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**	<0.00785	
	MW-64	Apr-22		<0.00278	**<0.0240**	<0.00315	<0.00278	<0.00350	**1.65**	0.0451	**3.58**	**0.505**	**<0.0107**	**0.141**	<0.00393	
	MW-64	Oct-22		<0.0278	**<0.240** J3	<0.0315	**<0.0278** J4	<0.0350	**1.60**	0.0463 J	**3.12**	**0.500**	**<0.108**	**<0.250**	<0.0393	
	MW-64	Mar-23		<0.0555	**<0.480**	<0.0630	**<0.0555**	<0.0700	**1.90**	<0.0525	**3.87**	**0.430 J**	**<0.215**	**<0.500**	<0.0785	
	MW-64	Oct-23		<0.0111	**<0.0960** J4	<0.0126	**<0.0111**	<0.0140	**2.32**	0.0668 J	**4.07**	**0.225**	**<0.0430**	**0.161 J**	<0.0157	
	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**	<0.0361	
	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**	<0.0361	
	MW-65	Mar-23		<0.000111	<0.000960 J3	<0.000126	<0.000111	<0.000140	0.0420	0.0593	0.00443	**0.842**	<0.000430 J4	**0.208**	0.00906	
	MW-65	Oct-23		<0.00278	**<0.0240** J4	<0.00315	<0.00278	<0.00350	0.0169 J	0.0419	<0.0107	**0.678**	**<0.0107**	**0.0791 J**	0.00741 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**	<0.00903	
	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**	0.00824 J4	
	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**	0.00483 J	
	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**	0.00627 J	
	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**	<0.0361	
	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**	<0.0361	
	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**	<0.0361	
	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	0.00233 J	
	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	<0.00314	
	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	0.00109	
	MW-101	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	0.00323	0.00977	0.00122 J	0.0629	<0.000430	0.00141 J	<0.000157	
	MW-101	Oct-22		0.00500 J	<0.000960	<0.000126	<0.000111 J4	<0.000140	0.00483	0.0141	0.0164	0.0657	<0.000430	0.00368 J	0.00118	
	MW-101	Mar-23		<0.00111	<0.00960	<0.00126	<0.00111	<0.00140	0.0323	0.0297	0.168	0.0790	<0.00430	0.0250 J	<0.00157	
	MW-101	Oct-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	0.00600	0.00698	0.000966 J	0.0379	<0.000430	<0.00100 J4	<0.000157	
	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**	<0.0157	
	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**	<0.00785	
	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**	<0.00785	
	MW-102	Apr-22		<0.00555	**<0.0480**	<0.00630	**<0.00555**	<0.00700	**0.737**	0.0373 J	**0.413**	**0.670**	**<0.0215**	**0.168 J**	0.0366 JB	
	MW-102	Apr-22	FD	<0.00278	**<0.0240**	<0.00315	<0.00278	<0.00350	**0.751**	0.0364	**0.397**	**0.706**	**<0.0107**	**0.112 J**	0.00601 J	
	MW-102	Oct-22		<0.0278	**<0.240**	<0.0315	**<0.0278**	<0.0350	**0.735**	0.0353 J	**0.692**	**0.150 J**	**<0.108**	**<0.250**	<0.0393	
	MW-102	Oct-22	FD	<0.0278	**<0.240**	<0.0315	**<0.0278**	<0.0350	**0.710**	0.0357 J	**0.643**	**0.152 J**	**<0.108**	**<0.250**	<0.0393	
	MW-102	Mar-23		<0.0222	**<0.192**	<0.0252	**<0.0222**	<0.0280	**0.747**	0.0411 J	**0.535**	**0.274**	**<0.0860**	**<0.200**	<0.0314	
	MW-102	Mar-23	FD	<0.0111	**<0.0960**	<0.0126	**<0.0111**	<0.0140	0.691	0.0327 J	**0.485**	**0.304**	**<0.0430**	**<0.100**	<0.0157	
	MW-102	Oct-23		<0.000111	<0.000960 J4	<0.000126	<0.000111	<0.000140	0.700	0.0420	**0.542**	**0.189**	<0.000430	**0.177**	<0.000157	
	MW-102	Oct-23	FD	<0.0278	**<0.240** J4	<0.0315	**<0.0278**	<0.0350	0.630	0.0326 J	**0.476 J**	**0.163 J**	**<0.108**	**<0.250**	<0.0393	
	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	<0.00314	
	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	0.00341 J	
	MW-103	Apr-22		<0.00111	<0.00960	<0.00126	<0.00111	<0.00140	0.00309 J	0.0251	<0.00430	<0.00101	<0.00430	<0.0100	0.00722 JB	
	MW-103	Mar-23		<0.00111	<0.00960	<0.00126	<0.00111	<0.00140	0.00145 J	0.0242	0.00441 J	<0.00101	<0.00430	<0.0100	<0.00157	
	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	0.000347 J	
	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	0.000375 J	
	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	<0.000785	
	MW-104	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	0.000232 J	0.0173	<0.000430	0.000592 J	<0.000430	<0.00100	<0.000157	
	MW-104	Oct-22		0.000648 J	<0.000960 J3	<0.000126	<0.000111 J4	<0.000140	0.000144 J	0.0170	<0.000430	<0.000101	<0.000430	<0.00100	0.000702 J	
	MW-104	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	0.0231	<0.000430	0.000679 J	<0.000430	<0.00100	0.000261 J	
	MW-104	Oct-23		<0.000111	<0.000960 J4	<0.000126	<0.000111	<0.000140	0.000303 J	0.0328	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157	
	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**	<0.0157	
	MW-105	Apr-22		<0.00278	**<0.0240**	<0.00315	<0.00278	<0.00350	0.0368	0.0326	0.191	0.00840 J	**<0.0107**	<0.0250	<0.00393	
	MW-105	Oct-22		0.0315 J	**<0.0960**	<0.0126	**<0.0111** J4	<0.0140	0.0553 J	0.0358 J	0.148 J	<0.0101	**<0.0430**	**<0.100**	0.0404 J	
	MW-105	Mar-23		<0.0111	**<0.0960**	<0.0126	**<0.0111**	<0.0140	0.0216 J	0.0301 J	0.0927 J	<0.0101	**<0.0430**	**<0.100**	<0.0157	
	MW-105	Oct-23		<0.000555	<0.00480	<0.000630	<0.000555	<0.000700	0.0430	0.0190	0.0697	<0.000505	<0.00215	<0.00500 J4	0.00222 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**	<0.0157	
	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**	<0.0314	
	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**	<0.0314	
	MW-106	Oct-23		<0.00111	<0.00960	<0.00126	<0.00111 J4	<0.00140	0.0183	0.0110	0.0562	<0.00101	<0.00430	0.0210 J	<0.00157	
	MW-107	Oct-15		<0.0324	**<0.0276**	<0.0260	**<0.0418**	<0.0327	0.0403 J	0.0454 J	0.0867 J	**2.77**	**<0.100**	**<0.100**	<0.0361	
	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**	<0.0180	
	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**	0.00377	
	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**	<0.0902	
	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	0.00228 J	
	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	<0.00393	
	MW-109	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	0.00711	0.0673	0.0173	<0.000101	<0.000430	0.00103 JJ4	0.00291	
	MW-109	Oct-22		<0.00278	**<0.0240**	<0.00315	<0.00278	<0.00350	0.00403 J	0.0544	<0.0107	<0.00253	**<0.0107**	<0.0250	<0.00393	
	MW-109	Mar-23		<0.00555	**<0.0480**	<0.00630	**<0.00555**	<0.00700	<0.00685	0.0390 J	<0.0215	<0.00505	**<0.0215**	**<0.0500**	<0.00785	
	MW-109	Oct-23		0.00390 J	**<0.0240**	<0.00315	<0.00278	<0.00350	<0.00343	0.0369	<0.0107	<0.00253	**<0.0107**	<0.0250	<0.00393	

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Appendix B, Table B.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2023 Annual Groundwater Monitoring Report
HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	Volatile Organic Compounds											
				Analyte	Chloroform	Chloromethane	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	n-Butyl-benzene
				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	0.0800	0.0203	0.0700	0.00471	0.0800	0.700	0.447	0.193	0.100	0.00500	0.0300	1.00
				CGWSL Source:	USEPA MCL	NMED TW	WQCC HH	USEPA TW	USEPA MCL	WQCC HH	WQCC TW	NMED TW	WQCC Dom	WQCC HH	WQCC HH	USEPA TW
Area	**Well ID**	**Date**	**Dup**													
South Refinery	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	<0.000157	
	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	<0.000157	
	MW-110	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	0.0394	0.0208	0.0699	<0.000101	<0.000430	0.0200 J4	0.000515 J	
	MW-110	Oct-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	0.000388 J	0.00240	0.00132 J	<0.000101	<0.000430	<0.00100	<0.000157	
	MW-110	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	0.000881 J	0.000521 J	<0.000101	<0.000430	<0.00100	<0.000157	
	MW-110	Oct-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	0.000209 J	0.00115	0.000586 J	<0.000101	<0.000430	<0.00100	<0.000157	
	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	<0.000157	
	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	0.000167 JB	
	MW-139	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	0.00280	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157	
	MW-139	Oct-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	0.00687	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157	
	MW-139	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157	
	MW-139	Oct-23		<0.000111	<0.000960	<0.000126	<0.000111 J4	<0.000140	<0.000137	0.00557	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157	
	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	<0.000157	
	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	<0.000157	
	RA-313	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157	
	RA-313	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	0.000213 J	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157	
	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	0.00127	
	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	<0.000157	
	RW-4	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	0.00396	0.0229	0.00398	0.0295	<0.000430	0.00193 J	0.00559	
	RW-4	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	0.00397	0.0152	0.00329	0.0180	<0.000430	0.00146 J	0.00151	
	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**	0.00606 J	
	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	0.00138	
	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	0.00631	
	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**	<0.00722	
	RW-6	Mar-23		<0.00278	**<0.0240** J3	<0.00315	<0.00278	<0.00350	0.417	0.0295	**0.928**	**0.482 J3**	**<0.0107** J4	**0.115 JJ3J4**	0.00723 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**	0.0168 J	
	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**	0.00683	
	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**	0.0134	
South RO Field	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	<0.000157	
	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	0.000677 J	
	MW-114	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	0.000137 J	<0.000430	0.00308	<0.000430	<0.00100	0.000654 JB	
	MW-114	Oct-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.0674	<0.000430	<0.00100	<0.000157	
	MW-114	Mar-23		0.0101	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000450 J	<0.000430	<0.00100	<0.000157	
	MW-114	Oct-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.0141	<0.000430	<0.00100	<0.000157	
	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	<0.000157	
	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	<0.000157	
	MW-115	Apr-22		<0.00111	<0.00960	<0.00126	<0.00111	<0.00140	<0.00137	<0.00105	<0.00430	0.0198	<0.00430	<0.0100	<0.00157	
	MW-115	Oct-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.0205	<0.000430	<0.00100	<0.000157	
	MW-115	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.0203	<0.000430	<0.00100	<0.000157	
	MW-115	Oct-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.0220	<0.000430	<0.00100	<0.000157	
	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	<0.000157	
	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	<0.000157	
	MW-116	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157	
	MW-116	Oct-22		<0.000111	<0.000960 J3	<0.000126	<0.000111 J4	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157	
	MW-116	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157	
	MW-144	Mar-23														
	MW-144	Oct-23														
TEL	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	<0.00393	
	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	0.00213 J	
	MW-49	Apr-22		<0.000555	<0.00480	<0.000630	<0.000555	<0.000700	0.00809	0.0311	0.0869	**0.183**	<0.00215	0.00626 J	0.00636 B	
	MW-49	Oct-22		0.0131	0.00302	<0.000126	<0.000111 J4	<0.000140	0.00844	0.0378	0.107	**0.168**	<0.000430	0.00786	0.00363	
	MW-49	Mar-23		<0.00111	<0.00960	<0.00126	<0.00111	<0.00140	0.00796 J	0.0389	0.101	**0.145**	<0.00430	<0.0100	0.00485 J	
	MW-49	Oct-23		<0.00111	<0.00960	<0.00126	<0.00111 J4	<0.00140	0.0405	0.0610	**0.251**	0.0954	<0.00430	**0.0411 J**	<0.00157	
	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	<0.00180	
	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	<0.000361	
	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	<0.000361	
	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	<0.000157	
	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	<0.00902	
	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	<0.00361	
	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	<0.00361	
	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	<0.00157	
	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	0.00174	
	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	0.00189	
	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	0.00152	
	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	0.00244	
	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	0.000428 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	0.000541 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	0.000327 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	0.000337 J	
	TEL-4	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	0.000161 J	0.0173	0.000995 J	0.00398	<0.000430	<0.00100	<0.000157	
	TEL-4	Apr-22	FD	<0.000555	<0.00480	<0.000630	<0.000555	<0.000700	<0.000685	0.0183	<0.00215	0.00415 J	<0.00215	<0.00500	<0.000785	
	TEL-4	Oct-22		0.000308 J	<0.000960	<0.000126	<0.000111 J4	<0.000140	0.000244 J	0.0132	0.00171 J	0.00541	<0.000430	<0.00100	0.000644 J	
	TEL-4	Oct-22	FD	0.000339 J	<0.000960	<0.000126	<0.000111 J4	<0.000140	0.000224 J	0.0129	0.00188 J	0.00515	<0.000430	0.00107 J	0.000678 J	
	TEL-4	Mar-23		<0.00222	<0.0192	<0.00252	<0.00222	<0.00280	<0.00274	0.0108 J	<0.00860	0.00270 J	**<0.00860**	<0.0200	<0.00314	
	TEL-4	Mar-23	FD	<0.00222	<0.0192	<0.00252	<0.00222	<0.00280	<0.00274	0.0105 J	<0.00860	<0.00202	**<0.00860**	<0.0200	<0.00314	
	TEL-4	Oct-23		<0.000111	<0.000960	<0.000126	<0.000111 J4	<0.000140	0.000167 J	0.00968	0.000497 J	0.000902 J	<0.000430	0.00206 J	<0.000157	
	TEL-4	Oct-23	FD	<0.000111	<0.000960	<0.000126	<0.000111 J4	<0.000140	<0.000137	0.0105	0.000596 J	0.00114	<0.000430	0.00190 J	<0.000157	
Three Mile Ditch	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	<0.000157	
	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	<0.000157	
	MW-8	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	**0.124**	<0.000430	<0.00100 J4	<0.000157	
	MW-8	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	**0.193**	<0.000430	<0.00100	<0.000157	
	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	<0.000157	
	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	<0.000157	
	MW-16	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100 J4	<0.000157	
	MW-16	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100 J3J4	<0.000157	
	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	<0.000157	
	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	<0.000157	
	MW-20	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	0.000287 J	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157	
	MW-20	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157	
	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	<0.000157	
	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	<0.000157	
	MW-21	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.0685	<0.000430	<0.00100 J4	<0.000157	
	MW-21	Oct-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140 J4	0.00429 J	<0.000105	<0.000430	**0.222**	<0.000430	<0.00100	<0.000157	
	MW-21	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.0524	<0.000430	<0.00100	<0.000157	
	MW-21	Oct-23		<0.000555	<0.00480	<0.000630	<0.000555	<0.000700	<0.000685	<0.000525	<0.00215	**0.234**	<0.00215	<0.00500	<0.000785	
	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	<0.000157	
	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	<0.000157	
	MW-25	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100 J4	<0.000157	
	MW-25	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100 J3J4	<0.000157	
	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	<0.000157	
	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	<0.000157	
	MW-26	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100 J4	<0.000157	
	MW-26	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100 J3J4	<0.000157	

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Appendix B, Table B.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2023 Annual Groundwater Monitoring Report
HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	Volatile Organic Compounds											
				Analyte	Chloroform	Chloromethane	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	n-Butyl-benzene
				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	0.0800	0.0203	0.0700	0.00471	0.0800	0.700	0.447	0.193	0.100	0.00500	0.0300	1.00
				CGWSL Source:	USEPA MCL	NMED TW	WQCC HH	USEPA TW	USEPA MCL	WQCC HH	WQCC TW	NMED TW	WQCC Dom	WQCC HH	WQCC HH	USEPA TW
Area	**Well ID**	**Date**	**Dup**													
Three Mile Ditch	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	<0.000157
	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	<0.000157
	MW-27	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100 J4	<0.000157
	MW-27	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100 J3J4	<0.000157
	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	<0.000157
	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	<0.000157
	MW-46R	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	MW-46R	Oct-22		<0.000111	<0.000960 J3	<0.000126	<0.000111 J4	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	MW-46R	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	MW-46R	Oct-23		<0.000111	<0.000960 J4	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	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	<0.000157
	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	<0.000157
	MW-68	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100 J4	<0.000157
	MW-68	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100 J3J4	<0.000157
	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	<0.000157
	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	<0.000157
	MW-71	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000567 J	<0.000430	<0.00100 J4	<0.000157
	MW-71	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	0.000398 J	<0.000430	<0.00100	<0.000157
	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	<0.000157
	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	<0.000157
	MW-89	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100 J4	<0.000157
	MW-89	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100 J3J4	<0.000157
	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	<0.000157
	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	<0.000157
	NP-1	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	**0.623**	<0.000430	<0.00100 J4	<0.000157
	NP-1	Oct-22		<0.00222	<0.0192	<0.00252	<0.00222	<0.00280 J4	<0.00274	<0.00210	<0.00860	**0.554**	**<0.00860**	<0.0200	<0.00314
	NP-1	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	**0.606**	<0.000430	<0.00100	<0.000157
	NP-1	Oct-23		<0.00222	<0.0192	<0.00252	<0.00222	<0.00280	<0.00274	<0.00210	<0.00860	**0.722**	**<0.00860**	<0.0200	<0.00314
	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	<0.000361
	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	<0.000361
	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	<0.000157
	NP-6	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	**0.189**	<0.000430	<0.00100	<0.000157
Upgradient	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	<0.000157
	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	<0.000157
	UG-1	Apr-22		0.000149 J	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	UG-1	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	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	<0.000157
	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	<0.000157
	UG-2	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	UG-2	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	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	<0.000157
	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	<0.000157
	UG-3R	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	UG-3R	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	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	<0.000157
	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	<0.000157
	UG-4	Apr-22		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157
	UG-4	Mar-23		<0.000111	<0.000960	<0.000126	<0.000111	<0.000140	<0.000137	<0.000105	<0.000430	<0.000101	<0.000430	<0.00100	<0.000157

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Appendix B, Table B.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2023 Annual Groundwater Monitoring Report

HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	Volatile Organic Compounds											
				Analyte	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-Dichloro-propene	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
				CGWSL	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	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	Jun-20		<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		<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	0.000438 J	<0.000149	<0.000118	<0.000190	<0.000234
	KWB-13	Apr-22		<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-13	Mar-23		<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-136	Apr-21		<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		<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-136	Apr-22		<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-136	Oct-22		<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-136	Mar-23		<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-136	Oct-23		<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-149	Oct-23		<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-150	Oct-23		<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-17		<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		<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	NP-5	Apr-21		<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	NP-5	Mar-23		<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-3156	Apr-19		<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		<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	RA-3156	Apr-21		<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	RA-3156	Apr-22		<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
Evaporation Ponds	MW-1R	Jun-20		<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		<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-1R	Apr-22		<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-1R	Mar-23		<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-2A	Apr-21		<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-2A	Apr-22		<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-2A	Oct-22													
	MW-2A	Mar-23		<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-2A	Oct-23													
	MW-3	Apr-21		<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	<0.0000993	<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-3	Apr-22		<0.0000993	<0.000174	0.000330 J	<0.000118	0.00964	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-3	Apr-22	FD	<0.0000993	<0.000174	0.000207 J	<0.000118	0.0140	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-3	Oct-22													
	MW-3	Oct-22	FD												
	MW-3	Mar-23		<0.0000993	<0.000174	<0.000125	<0.000118	0.00625	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-3	Mar-23	FD	<0.0000993	<0.000174	<0.000125	<0.000118	0.00738	<0.000300	<0.000278	<0.000174	<0.000149	0.000312 J	<0.000190	<0.000234
	MW-3	Oct-23													
	MW-3	Oct-23	FD												
	MW-4A	Apr-21		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-4A	Apr-22		<0.0000993	<0.000174	0.000281 J	<0.000118	0.0281	<0.000300	<0.000278	0.000882 J	<0.000149	<0.000118	<0.000190	<0.000234
	MW-4A	Oct-22													
	MW-4A	Mar-23		<0.0000993	<0.000174	0.000196 J	<0.000118	0.0379	<0.000300	<0.000278	0.000512 J	<0.000149	<0.000118	<0.000190	<0.000234
	MW-4A	Oct-23													
	MW-4B	Apr-17		<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		<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-4B	Apr-21		<0.0000993	<0.000174	0.000204 J	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-4B	Mar-23		<0.0000993	<0.000174	0.000138 J	<0.000118	0.0597	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-5A	Apr-21		<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-5A	Apr-22		<0.0000993	<0.000174	<0.000125	<0.000118	0.0241	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-5A	Oct-22													
	MW-5A	Mar-23		<0.0000993	<0.000174	0.000313 J	<0.000118	0.0273	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-5A	Oct-23													
	MW-5B	Apr-17		<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		<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-5B	Apr-21		<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-5B	Mar-23		<0.0000993	<0.000174	<0.000125	<0.000118	0.0506	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-5C	Apr-17		<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		<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-5C	Apr-21		<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-5C	Mar-23		<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-6A	Jun-20		<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		<0.000497	0.00304 J	<0.000625	<0.000590		<0.00150	0.00219 J	0.00602 J	<0.000745	<0.000590	<0.000950	<0.00117
	MW-6A	Apr-22		0.000163 J	0.00284	<0.000125	<0.000118	0.130	<0.000300	0.00186	0.00554	<0.000149	<0.000118	<0.000190	<0.000234
	MW-6A	Mar-23		0.000129 J	0.00284	0.000132 J	<0.000118	0.0235	<0.000300	0.000850 J	0.00517	<0.000149	<0.000118	<0.000190	<0.000234
	MW-6B	Apr-17		<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		<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-6B	Apr-21		<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-6B	Mar-23		<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-7A	Apr-21		<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	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-7A	Sep-21		<0.0000993	<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	<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-7A	Apr-22		<0.0000993	<0.000174	<0.000125	<0.000118	0.00700	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-7A	Apr-22	FD	<0.0000993	<0.000174	<0.000125	<0.000118	0.00563	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-7A	Oct-22		<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-7A	Oct-22	FD	<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-7A	Mar-23		<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-7A	Mar-23	FD	<0.0000993	<0.000174	<0.000125	<0.000118	0.00756	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-7A	Oct-23		<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	0.000908 J	<0.000190	<0.000234
	MW-7A	Oct-23	FD	<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-17		<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		<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-7B	Apr-21		<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-7B	Mar-23		<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-10	Apr-21		<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-10	Apr-22		<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-10	Oct-22													
	MW-10	Mar-23		<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-10	Oct-23													
	MW-11A	Apr-21		<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													
	MW-11A	Apr-22		<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-11A	Oct-22													
	MW-11A	Mar-23		<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-11A	Oct-23													

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Appendix B, Table B.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2023 Annual Groundwater Monitoring Report

HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	Volatile Organic Compounds											
				Analyte	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-Dichloro-propene	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
				CGWSL	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	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-17		<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		<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-11B	Apr-21		<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-11B	Mar-23		<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-15	Jun-20		<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		<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-15	Apr-22		<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-15	Mar-23		<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-18A	Apr-21		<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-18A	Apr-22		<0.0000993	<0.000174	0.000154 J	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-18A	Oct-22													
	MW-18A	Mar-23		<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-18A	Oct-23													
	MW-18B	Apr-17		<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		<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-18B	Apr-21		<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-18B	Mar-23		<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-22A	Apr-21		<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	<0.0000993	<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-22A	Apr-22		<0.0000993	<0.000174	<0.000125	<0.000118	0.00473 J	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-22A	Apr-22	FD	<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-22A	Oct-22													
	MW-22A	Oct-22	FD												
	MW-22A	Mar-23		<0.0000993	<0.000174	<0.000125	<0.000118	0.00462 J	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-22A	Mar-23	FD	<0.0000993	<0.000174	<0.000125	<0.000118	0.00750	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-22A	Oct-23													
	MW-22A	Oct-23	FD												
	MW-22A	Oct-23													
	MW-22A	Oct-23	FD												
	MW-22B	Apr-17		<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		<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-22B	Apr-21		<0.0000993	<0.000174	0.000545 J	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-22B	Mar-23		<0.0000993	<0.000174	0.000429 J	<0.000118	0.0477	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-70	Apr-21		<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-70	Apr-22		<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-70	Oct-22													
	MW-70	Mar-23		<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-70	Oct-23													
	MW-72	Jun-20		<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		<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-72	Apr-22		<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-72	Mar-23		<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-73	Jun-20		<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		<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-73	Apr-22		<0.0000993	<0.000174	<0.000125	<0.000118	0.00677	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-73	Mar-23		<0.0000993	<0.000174	<0.000125	<0.000118	0.0100	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-74	Apr-21		<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-74	Apr-22		<0.0000993	<0.000174	<0.000125	<0.000118	0.0310	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-74	Oct-22													
	MW-74	Mar-23		<0.0000993	<0.000174	<0.000125	<0.000118	0.0265	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-74	Oct-23													
	MW-75	Apr-21		<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-75	Apr-22		<0.0000993	<0.000174	<0.000125	<0.000118	0.0122	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-75	Oct-22													
	MW-75	Mar-23		0.000527 J	<0.000174	0.000596 J	<0.000118	0.0158	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-75	Oct-23													
	MW-76	Apr-21		<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-76	Apr-22		<0.0000993	<0.000174	<0.000125	<0.000118	0.0448	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-76	Oct-22													
	MW-76	Mar-23		<0.0000993	<0.000174	<0.000125	<0.000118	0.0403	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-76	Oct-23													
	MW-77	Jun-20		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		<0.00248	<0.00435	<0.00313	<0.00295		**<0.00750**	<0.00695	<0.00435	<0.00373	<0.00295	<0.00475	**<0.00585**
	MW-77	Apr-22		<0.0000993	<0.000174	<0.000125	<0.000118	0.0128	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-77	Mar-23		<0.000993	<0.00174	<0.00125	<0.00118	<0.0406	<0.00300	<0.00278	<0.00174	<0.00149	<0.00118	<0.00190	**<0.00234**
	MW-78	Jun-20		<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		<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-78	Apr-22		<0.000993	<0.00174	<0.00125	<0.00118	<0.0406	<0.00300	<0.00278	<0.00174	<0.00149	<0.00118	<0.00190	**<0.00234**
	MW-78	Mar-23		<0.000993	<0.00174	<0.00125	<0.00118	<0.0406	<0.00300	<0.00278	<0.00174	<0.00149	<0.00118	<0.00190	**<0.00234**
	MW-79	Apr-21		<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-79	Apr-22		<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-79	Oct-22													
	MW-79	Mar-23		<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-79	Oct-23													
	MW-80	Jun-20		<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		<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-80	Apr-22		<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-80	Mar-23		<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-81	Jun-20		<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		<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-81	Apr-22		<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-81	Mar-23		<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-82	Jun-20		<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		<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-82	Apr-22		<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-82	Mar-23		<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-83	Apr-21		<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-83	Apr-22		<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-83	Oct-22													
	MW-83	Mar-23		<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-83	Oct-23													
	MW-84	Apr-21		<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													
	MW-84	Apr-22		0.00910 J	<0.00348	0.00348 J	0.00688 J	<0.0812	**<0.00600**	<0.00556	<0.00348	<0.00298	<0.00236	0.00423 J	**<0.00468**
	MW-84	Oct-22													
	MW-84	Mar-23		<0.000993	<0.00174	<0.00125	<0.00118	<0.0406	<0.00300	<0.00278	<0.00174	<0.00149	<0.00118	<0.00190	**<0.00234**
	MW-84	Oct-23													

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Appendix B, Table B.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2023 Annual Groundwater Monitoring Report

HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	Volatile Organic Compounds											
				Analyte	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-Dichloro-propene	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
				CGWSL	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	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		0.00566 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		0.00471 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-21		<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-87	Apr-22		<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-87	Oct-22													
	MW-87	Mar-23		<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-87	Oct-23													
	MW-88	Apr-21		<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-88	Apr-22		<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-88	Oct-22													
	MW-88	Mar-23		<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-88	Oct-23													
	MW-120	Apr-21		<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		<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-120	Apr-22		<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-120	Oct-22		<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-120	Mar-23		<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-120	Oct-23		<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190 J4	<0.000234
	MW-121	Apr-21		<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-121	Apr-22		<0.0000993	<0.000174	<0.000125	<0.000118	0.00915	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-121	Oct-22													
	MW-121	Mar-23		<0.0000993	<0.000174	<0.000125	<0.000118	0.0100	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-121	Oct-23													
	MW-122	Apr-21		<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-122	Apr-22		<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-122	Oct-22													
	MW-122	Mar-23		<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-122	Oct-23													
	MW-123	Apr-21		<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-123	Apr-22		<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-123	Oct-22													
	MW-123	Mar-23		<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-123	Oct-23													
	MW-124	Apr-21		<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													
	MW-124	Apr-22		<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-124	Oct-22													
	MW-124	Mar-23		<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-124	Oct-23													
	OCD-1R	Apr-21		<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-1R	Apr-22		<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	OCD-1R	Oct-22													
	OCD-1R	Mar-23		<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	OCD-1R	Oct-23													
	OCD-2A	Apr-21		<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-2A	Apr-22		<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	OCD-2A	Oct-22													
	OCD-2A	Mar-23		<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	OCD-2A	Oct-23													
	OCD-3	Apr-21		<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-3	Apr-22		<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	OCD-3	Oct-22													
	OCD-3	Mar-23		<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	OCD-3	Oct-23													
	OCD-4	Apr-21		<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-4	Apr-22		<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	OCD-4	Oct-22													
	OCD-4	Mar-23		<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	OCD-4	Oct-23													
	OCD-5	Apr-21		<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-5	Apr-22		<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	OCD-5	Oct-22													
	OCD-5	Mar-23		<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	OCD-5	Oct-23													
	OCD-6	Apr-21		<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-6	Apr-22		<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	OCD-6	Oct-22													
	OCD-6	Mar-23		<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	OCD-6	Oct-23													
	OCD-7AR	Apr-21		<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-7AR	Apr-22		<0.0000993	<0.000174	<0.000125	<0.000118	0.0569	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	OCD-7AR	Oct-22													
	OCD-7AR	Mar-23		<0.0000993	<0.000174	<0.000125	<0.000118	0.00880	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	OCD-7AR	Oct-23													
	OCD-7B	Apr-17		<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		<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	OCD-7B	Apr-21		<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	OCD-7B	Mar-23		<0.0000993	<0.000174	<0.000125	<0.000118	0.00482 J	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	OCD-8A	Apr-21		<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-8A	Apr-22		<0.0000993	<0.000174	<0.000125	<0.000118	0.0147	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	OCD-8A	Oct-22													
	OCD-8A	Mar-23		<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	OCD-8A	Oct-23													
	OCD-8B	Apr-17		<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		<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	OCD-8B	Apr-21		<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	OCD-8B	Mar-23		<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234

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Appendix B, Table B.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2023 Annual Groundwater Monitoring Report
HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	Volatile Organic Compounds											
				Analyte	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-Dichloro-propene	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
				CGWSL	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	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-1A	Oct-20		<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190 J4	<0.000234
	KWB-1A	Oct-22		0.00575	0.000412 J	0.00124	<0.000118	<0.00406	<0.000300	<0.000278	0.0338	<0.000149	<0.000118 J4	<0.000190	<0.000234
	KWB-1A	Mar-23		0.00457	0.000415 J	0.00124	<0.000118	<0.00406	<0.000300	<0.000278	0.0339	<0.000149	<0.000118	<0.000190	<0.000234
	KWB-1A	Oct-23		0.00180	0.000468 J	0.00130	<0.000118	<0.00406	<0.000300	<0.000278	0.0269	<0.000149	<0.000118	<0.000190	<0.000234
	KWB-1C	Apr-17		<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		<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	KWB-1C	Apr-21		<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	KWB-1C	Mar-23		<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-7	Apr-21		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		0.119	0.00582	0.0155	<0.000118	0.0287	<0.000300	0.00322	0.0822	<0.000149	<0.000118	<0.000190	<0.000234
	KWB-7	Apr-22		0.0236	0.000254 J	0.00947	<0.000118	0.0191	<0.000300	0.000657 J	0.00128 J	<0.000149	<0.000118	<0.000190	<0.000234
	KWB-7	Oct-22		0.0404	<0.000174	0.0170	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	KWB-7	Mar-23		0.0267 J	<0.00870	0.00975 J	<0.00590	**<0.203**	**<0.0150**	<0.0139	<0.00870	<0.00745	<0.00590	**<0.00950**	**<0.0117**
	KWB-7	Oct-23		0.0172	<0.000174	0.0153	<0.000118	0.0126	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190 J4	<0.000234
	KWB-8	Apr-17		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		0.0217	0.0133	<0.000365	<0.000307		<0.000372	0.336	**0.795**	<0.000396	<0.000419	<0.000398	<0.000259
	KWB-8	Oct-20		0.168 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		0.0714	**0.198**	<0.0182	<0.0154		**<0.0186**	0.0605	**0.914**	<0.0198	<0.0210	**<0.0199**	**<0.0130**
	KWB-10R	Oct-17		0.0748	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		<0.0872	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		<0.0872	<0.0852	<0.0912	<0.0768		**<0.0930**	<0.103	<0.265	<0.0990	<0.105	**<0.0995**	**<0.0648**
	KWB-11A	Sep-21		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-11A	Oct-22		0.00227	<0.000174	0.00170	<0.000118	0.0114	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	KWB-11A	Mar-23		0.000377 J	<0.000174	0.00126	<0.000118	0.0444	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	KWB-11A	Oct-23		<0.0000993	<0.000174	0.000462 J	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	KWB-11B	Apr-21		<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		0.000380 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-11B	Apr-22		0.000441 J	<0.000174	0.000169 J	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	KWB-11B	Oct-22		<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-11B	Mar-23		<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-11B	Oct-23		<0.0000993	<0.000174	<0.000125	<0.000118	0.00488 J	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	KWB-12A	Oct-20		<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		<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	KWB-12A	Oct-22		<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118 J4	<0.000190	<0.000234
	KWB-12A	Oct-23		<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-21		<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	<0.0000993	<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		<0.0000993	<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	<0.0000993	<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-22		<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-22	FD	<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	Oct-22		<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118 J4	<0.000190	<0.000234
	KWB-12B	Oct-22	FD	<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118 J4	<0.000190	<0.000234
	KWB-12B	Mar-23		<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	Mar-23	FD	<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	Oct-23		<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	Oct-23	FD	<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-17		<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		<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	KWB-P4	Apr-21		<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	KWB-P4	Mar-23		<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-57	Oct-20		<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		<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-57	Sep-21		<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-57	Apr-22		<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		0.0842	0.00179	0.00872	<0.000307		<0.000372	0.0101	0.222	<0.000396	<0.000419	<0.000398	<0.000259
	MW-58	Apr-18		0.0965	<0.0170	<0.0182	<0.0154		**<0.0186**	<0.0206	0.268	<0.0198	<0.0210	**<0.0199**	**<0.0130**
	MW-58	Oct-18		0.0900	<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		0.0676	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		<0.00872	<0.00852	<0.00912	<0.00768		**<0.00930**	<0.0103	<0.0265	<0.00990	<0.0105	**<0.00995**	**<0.00648**
	MW-111	Apr-19		0.00424	<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		<0.000349	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		0.00411 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		0.100	**0.600**	0.00910 J	<0.00770		**<0.00930**	0.730	**2.00**	<0.00990	<0.0100	**<0.0100**	**<0.00650**
	MW-113	Apr-21		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	0.00273	0.00222	0.00148	<0.000118		<0.000300	0.00120	0.0591	<0.000149	<0.000118	<0.000190	<0.000234
	MW-113	Sep-21		0.153	<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	0.165	<0.00435	0.0150 J	<0.00295	<0.102	**<0.00750**	0.0305	**0.872**	<0.00373	<0.00295	<0.00475	**<0.00585**
	MW-113	Apr-22		0.00414	0.000466 J	0.00117	<0.000118	<0.00406	<0.000300	0.00128	0.0960	<0.000149	<0.000118	<0.000190	<0.000234
	MW-113	Apr-22	FD	0.00367	0.000520 J	0.00107	<0.000118	<0.00406	<0.000300	0.00121	0.103	<0.000149	<0.000118	<0.000190	<0.000234
	MW-113	Oct-22		0.232	<0.0174	0.0208	<0.000118	0.00870	<0.000300	0.0870	**1.06**	<0.000149	<0.000118	<0.000190	<0.000234
	MW-113	Oct-22	FD	0.245	0.0772	0.0228	<0.000118	<0.00406	<0.000300	0.0964	**1.20**	<0.000149	<0.000118	<0.000190	<0.000234
	MW-113	Mar-23		0.00881	0.000295 J	0.00221	0.000287 J	<0.00406	<0.000300	0.00115	0.0428	<0.000149	<0.000118	<0.000190	<0.000234
	MW-113	Mar-23	FD	0.0115	0.000386 J	0.00298	0.000285 J	<0.00406	<0.000300	0.00133	0.0540	<0.000149	<0.000118	<0.000190	<0.000234
	MW-113	Oct-23		0.249	<0.00870	0.0326 J	<0.00590	**<0.203**	**<0.0150**	0.0641	**0.848**	<0.00745	<0.00590	**<0.00950**	**<0.0117**
	MW-113	Oct-23	FD	0.248	<0.00870	<0.00625	<0.00590	**<0.203**	**<0.0150**	0.0633	**0.826**	<0.00745	<0.00590	**<0.00950**	**<0.0117**
	MW-125	Apr-21		<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		<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-125	Apr-22		<0.0000993	<0.000174	0.000199 J	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-125	Oct-22		<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-125	Mar-23		<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-125	Oct-23		<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		<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-126A	Oct-19		0.00532	<0.000341	0.00286	<0.000307		<0.000372	0.00168	0.00569	<0.000396	<0.000419	<0.000398	<0.000259
	MW-126A	Jun-20		<0.0000993	<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		<0.0000993	<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		<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-126B	Sep-21		<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-126B	Apr-22		<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-126B	Oct-22		<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-126B	Mar-23		<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-126B	Oct-23		<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		0.0185	0.00373	0.00319	<0.000307		<0.000372	0.0396	0.0482	<0.000396	<0.000419	<0.000398	<0.000259
	MW-127	Apr-18		0.0255	<0.00682	<0.00730	<0.00614		**<0.00744**	0.0424	0.0654	<0.00792	<0.00838	**<0.00796**	**<0.00518**
	MW-127	Oct-18		0.0258	<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		0.0261	<0.00682	<0.00730	<0.00614		**<0.00744**	0.0261	0.0933	<0.00792	<0.00838	**<0.00796**	**<0.00518**
	MW-128	Oct-17		0.00170	<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		<0.00698	<0.00682	<0.00730	<0.00614		**<0.00744**	<0.00824	<0.0212	<0.00792	<0.00838	**<0.00796**	**<0.00518**
	MW-128	Oct-18		0.00759 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		<0.00698	<0.00682	<0.00730	<0.00614		**<0.00744**	<0.00824	<0.0212	<0.00792	<0.00838	**<0.00796**	**<0.00518**
	MW-129	Apr-15		0.000956 J	0.00112	0.00102	<0.000310		<0.000370	<0.000780	0.00357	<0.000400	<0.000420	<0.000400	<0.000260
	MW-129	Oct-15		<0.0349	<0.0341	<0.0365	<0.0307		**<0.0372**	<0.0780	<0.106	<0.0396	<0.0419	**<0.0398**	**<0.0259**
	MW-129	Apr-17		<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		<0.000349	<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 B, Table B.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2023 Annual Groundwater Monitoring Report

HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	Volatile Organic Compounds											
				Analyte	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-Dichloro-propene	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
				CGWSL	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	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-21		<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		<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-130	Apr-22		<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-130	Oct-22		<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-130	Mar-23		<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-130	Oct-23		<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		0.0338	0.0406	0.00331	<0.000307		<0.000372	0.153	0.114	<0.000396	<0.000419	<0.000398	<0.000259
	MW-131	Oct-17		0.0262	<0.0852	0.00286	<0.000307		<0.000372	0.0627	<0.265	<0.000396	<0.000419	<0.000398	<0.000259
	MW-131	Oct-19		0.0141	**0.312**	0.00315	<0.000307		<0.000372	0.232	**0.993**	<0.000396	<0.000419	<0.000398	<0.000259
	MW-131	Jun-20		0.0121 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		0.0840 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		0.0451 J	<0.0340	<0.0360	<0.0310		**<0.0370**	<0.0780	<0.110	<0.0400	<0.0420	**<0.0400**	**<0.0260**
	MW-134	Apr-21		<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	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-134	Sep-21		<0.0000993	<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	<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-134	Apr-22		<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	Apr-22	FD	<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	Oct-22		<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	Oct-22	FD	<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	Mar-23		<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	Mar-23	FD	<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	Oct-23		<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190 J4	<0.000234
	MW-134	Oct-23	FD	<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-21		<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		<0.0000993	<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-135	Apr-22		<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	Oct-22		0.00119	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-135	Mar-23		<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	Oct-23		<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	Mar-23		<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	Oct-23		<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-145	Apr-21		<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		<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-145	Apr-22		<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-145	Oct-22		<0.0000993	<0.000174	0.000328 J	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118 J4	<0.000190	<0.000234
	MW-145	Mar-23		<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-145	Oct-23		<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	Apr-21		<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		<0.0000993	<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	<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-146	Apr-22		<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	Apr-22	FD	<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-22		<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118 J4	<0.000190	<0.000234
	MW-146	Oct-22	FD	<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118 J4	<0.000190	<0.000234
	MW-146	Mar-23		<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	Mar-23	FD	<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-23		<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-23	FD	<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	Apr-21		<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		<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-147	Apr-22		<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-22		<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118 J4	<0.000190	<0.000234
	MW-147	Mar-23		<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-23		<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	Apr-21		<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		<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-148	Apr-22		<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-22		<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118 J4	<0.000190	<0.000234
	MW-148	Mar-23		<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-23		<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	Jun-20		<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		<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	RA-4196R	Mar-23		<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-4196R	Oct-23		<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-4798	Oct-20		<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		<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	RA-4798	Sep-21		<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	RA-4798	Apr-22		<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		0.0809	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		0.0634	<0.000341	0.00564	<0.000307		<0.000372	0.00157	0.00648	<0.000396	<0.000419	<0.000398	<0.000259
	RW-12R	Apr-19		0.0279	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		0.0304	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-18		0.0319	0.00159	0.00378	<0.000307		<0.000372	0.00322	0.0299	<0.000396	<0.000419	<0.000398	<0.000259
	RW-13R	Mar-23		0.147	0.0988	0.0142 J	<0.00590	**<0.203**	**<0.0150**	0.293	**1.33**	<0.00745	<0.00590	**<0.00950**	**<0.0117**
	RW-18A	Apr-18		<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		<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	RW-18A	Jun-20		<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	RW-18A	Mar-23		<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-20	Apr-15		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		0.103	0.0952	0.00967 J	<0.00310		<0.00370	0.216	**0.945**	<0.00400	<0.00420	<0.00400	**<0.00260**
NCL	MW-18	Jun-20		<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		<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-18	Apr-22		<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190 J4	<0.000234
	MW-18	Mar-23		<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118 J3	<0.000190	<0.000234
	MW-45	Apr-21		<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		0.000138 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-45	Apr-22		<0.0000993	<0.000174	<0.000125	<0.000118	0.00568	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-45	Oct-22		<0.0000993	<0.000174	0.000450 J	<0.000118	0.0176	<0.000300	<0.000278	<0.000174	<0.000149	0.000268 JJ4	<0.000190	<0.000234 J3
	MW-45	Mar-23		<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-45	Oct-23		<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-53	Apr-15		<0.000350	<0.000340	<0.000360	<0.000310		<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000400	<0.000260
	MW-53	Apr-17		<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		<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-53	Apr-19		<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-53R	Oct-20		<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-53R	Apr-21		<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-53R	Apr-22		<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190 J4	<0.000234
	MW-53R	Mar-23		<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118 J3	<0.000190	<0.000234
	MW-54A	Apr-21		<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		<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-54A	Apr-22		<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190 J4	<0.000234
	MW-54A	Oct-22		<0.0000993	<0.000174	0.000380 J	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118 J4	<0.000190	<0.000234 J3
	MW-54A	Mar-23		<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-54A	Oct-23		<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234

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Appendix B, Table B.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2023 Annual Groundwater Monitoring Report
HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	Volatile Organic Compounds											
				Analyte	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-Dichloro-propene	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
				CGWSL	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	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	MW-54B	Apr-17		<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		<0.000349 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		<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-54B	Mar-23		<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-55	Apr-21		<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		<0.0000993	<0.000174	0.000184 JB	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-55	Apr-22		<0.000993	<0.00174	<0.00125	<0.00118	<0.0406	<0.00300	<0.00278	<0.00174	<0.00149	<0.00118	<0.00190 J4	**<0.00234**
	MW-55	Oct-22		<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-55	Mar-23		<0.0000993	<0.000174	<0.000125	<0.000118	0.111	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118 J3	<0.000190	<0.000234
	MW-55	Oct-23		<0.000993	<0.00174	<0.00125	<0.00118	<0.0406	<0.00300	<0.00278	<0.00174	<0.00149	<0.00118	<0.00190	**<0.00234**
	MW-56	Jun-20		<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		<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-56	Apr-22		<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-56	Mar-23		<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-108	Apr-21		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		0.0141	<0.00174	0.00291 J	<0.00118	<0.0406	<0.00300	<0.00278	0.0194 J	<0.00149	<0.00118	<0.00190	**<0.00234**
	MW-108	Apr-22		0.0187	0.000211 J	0.00558	<0.000118	<0.00406	<0.000300	0.000503 J	0.00407	<0.000149	<0.000118	<0.000190	<0.000234
	MW-108	Oct-22		0.0177	0.000415 J	0.00542	<0.000118	<0.00406	<0.000300	0.000557 J	0.00308	<0.000149	<0.000118 J4	<0.000190	<0.000234 J3
	MW-108	Mar-23		0.0147	0.000278 J	0.00687	<0.000118	<0.00406	<0.000300	0.000628 J	0.00613	<0.000149	<0.000118 J3	<0.000190	<0.000234
	MW-108	Oct-23		0.00696	<0.000174	0.00200	<0.000118	<0.00406	<0.000300	0.000304 J	0.00133 J	<0.000149	<0.000118	<0.000190	<0.000234
	NCL-31	Apr-21		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		<0.0000993	<0.000174	0.000231 J	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	NCL-31	Apr-22		<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190 J4	<0.000234
	NCL-31	Oct-22		<0.0000993	<0.000174	0.000405 J	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118 J4	<0.000190	<0.000234 J3
	NCL-31	Mar-23		0.000333 J	<0.000174	0.000205 J	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118 J3	<0.000190	<0.000234
	NCL-31	Oct-23		<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-32	Apr-21		<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		<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	NCL-32	Apr-22		<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190 J4	<0.000234
	NCL-32	Oct-22		<0.0000993	<0.000174	0.000342 J	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118 J4	<0.000190	<0.000234 J3
	NCL-32	Mar-23		<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118 J3	<0.000190	<0.000234
	NCL-32	Oct-23		<0.0000993	0.000375 J	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	0.000945 J	<0.000149	<0.000118	<0.000190	<0.000234
	NCL-33	Apr-21		<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		<0.0000993	<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-22		<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	Oct-22		<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118 J4	<0.000190	<0.000234 J3
	NCL-33	Mar-23		<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118 J3	<0.000190	<0.000234
	NCL-33	Oct-23		<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		0.0768	<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		0.0780	<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		0.0953	<0.00170	0.0158	<0.00154		<0.00186	<0.00206	0.0175	<0.00198	<0.00209	<0.00199	<0.00130
	NCL-34A	Jun-20		0.0686	<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-21		<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		<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	NCL-44	Apr-22		<0.0000993	<0.000174	0.000157 J	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190 J4	<0.000234
	NCL-44	Oct-22		<0.0000993	<0.000174	0.000550 J	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118 J4	<0.000190	<0.000234 J3
	NCL-44	Mar-23		<0.0000993	<0.000174	0.000197 J	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118 J3	<0.000190	<0.000234
	NCL-44	Oct-23		<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-21		<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	<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	NCL-49	Sep-21		<0.0000993	<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	<0.0000993	<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-22		<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190 J4	<0.000234
	NCL-49	Apr-22	FD	<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190 J4	<0.000234
	NCL-49	Oct-22		<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118 J4	<0.000190	<0.000234 J3
	NCL-49	Oct-22	FD	<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118 J4	<0.000190	<0.000234 J3
	NCL-49	Mar-23		<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	Mar-23	FD	<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	Oct-23		<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	Oct-23	FD	<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		0.251 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		0.123	<0.00341	0.0129	<0.00307		<0.00372	<0.00412	<0.0106	<0.00396	<0.00419	<0.00398	**<0.00259**
	MW-23	Jun-20		0.165	<0.00174	0.0132	<0.00118		<0.00300	<0.00278	<0.00174	<0.00149	<0.00118	<0.00190	**<0.00234**
	MW-23	Oct-20		0.153	<0.00174	0.0128	<0.00118		<0.00300	<0.00278	<0.00174	<0.00149	<0.00118	<0.00190 J4	**<0.00234**
	MW-29	Apr-21		<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		<0.0000993	<0.000174	<0.000125	<0.000118	0.0109	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-29	Apr-22		<0.0000993	<0.000174	<0.000125	<0.000118	0.00480 J	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-29	Oct-22		<0.0000993	<0.000174	0.000347 J	<0.000118	0.0155	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118 J4	<0.000190	<0.000234 J3
	MW-29	Mar-23		<0.0000993	<0.000174	<0.000125	<0.000118	0.0104	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-29	Oct-23		<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-39	Apr-19		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		0.00902	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		0.00630	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		0.00123	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		0.00806	<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		0.00369	<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		0.00305	<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		0.00210	<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		<0.000349	<0.000341	0.00191	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-41	Apr-19		0.000966 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		0.00135	<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		0.00170	<0.000174	0.00140	<0.000118		<0.000300	0.000301 J	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-42	Apr-19		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		0.0107	<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		0.00361 J	<0.000870	0.00389 J	<0.000590		<0.00150	<0.00139	0.00852 J	<0.000745	<0.000590	<0.000950	<0.00117
	MW-42	Apr-22		0.00796	<0.000870	0.00467 J	<0.000590	0.0669	<0.00150	<0.00139	0.0187	<0.000745	<0.000590	<0.000950	<0.00117
	MW-43	Apr-19		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		<0.0698	<0.0682	<0.0730	<0.0614		**<0.0744**	<0.0824	0.610	<0.0792	<0.0838	**<0.0796**	**<0.0518**
	MW-43	Jun-20		0.0569	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		0.0559	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		0.000538 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		0.00246	<0.000341	0.00348	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-59	Apr-19		0.000636 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		0.000566 J	<0.000174	0.00133	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-60	Jun-20		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	0.000948 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		0.00120	<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	0.00136	<0.000174	0.00303	<0.000118		<0.000300	<0.000278	0.00224 J	<0.000149	<0.000118	<0.000190	<0.000234
	MW-61	Apr-21		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		0.115	<0.00870	0.0138 J	<0.00590	**<0.203**	**<0.0150**	0.180	**0.789**	<0.00745	<0.00590	**<0.00950**	**<0.0117**
	MW-61	Apr-22		0.126	<0.00870	0.0136 J	<0.00590	**<0.203**	**<0.0150**	0.165	**0.691**	<0.00745	<0.00590	**<0.00950**	**<0.0117**
	MW-61	Oct-22		0.174	<0.00870	0.0294 J	<0.00590	**<0.203**	**<0.0150**	0.201	**0.918**	<0.00745	<0.00590 J4	**<0.00950**	**<0.0117** J3
	MW-61	Mar-23		0.103	<0.00870	0.00995 J	<0.00590	**<0.203**	**<0.0150**	0.125	0.574	<0.00745	<0.00590	**<0.00950**	**<0.0117**
	MW-61	Oct-23		0.136	0.00648 J	0.0123	<0.00118	<0.0406	<0.00300	0.153	**0.817**	<0.00149	<0.00118	<0.00190	**<0.00234**

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Appendix B, Table B.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2023 Annual Groundwater Monitoring Report

HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	Volatile Organic Compounds											
				Analyte	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-Dichloro-propene	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
				CGWSL	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	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-62	Oct-20		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		0.327	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-62	Apr-22		0.311	0.0196 J	0.0422 J	<0.00590	**<0.203**	**<0.0150**	0.0155 J	**1.79**	<0.00745	<0.00590	**<0.00950**	**<0.0117**
	MW-62	Oct-22		0.192	0.00957 J	0.0326 J	<0.00590	**<0.203**	**<0.0150**	<0.0139	**0.978**	<0.00745	<0.00590 J4	**<0.00950**	**<0.0117** J3
	MW-62R	Apr-21		0.186	<0.00870	0.0215 J	<0.00590		**<0.0150**	<0.0139	<0.00870	<0.00745	<0.00590	**<0.00950**	**<0.0117**
	MW-62R	Apr-22		0.187	<0.00174	0.0209	<0.00118	0.0510	<0.00300	<0.00278	0.0187 J	<0.00149	<0.00118	**0.00996 J**	**<0.00234**
	MW-62R	Mar-23		0.229	<0.0174	<0.0125	<0.0118	**<0.406**	**<0.0300**	<0.0278	<0.0174	<0.0149	<0.0118	**<0.0190**	**<0.0234**
	MW-67	Oct-17		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		0.0323	<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		0.00387	<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		0.0188 J4	<0.00170	0.00779	<0.00154		<0.00186	<0.00206	<0.00530	<0.00198	<0.00210	<0.00199	<0.00130
	MW-90	Apr-21		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		0.00903 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-90	Apr-22		0.00441	0.000381 J	0.00663	<0.000118	<0.00406	<0.000300	0.000359 J	0.000381 J	<0.000149	<0.000118	<0.000190	<0.000234
	MW-90	Oct-22		0.00269	0.000280 J	0.00923	<0.000118	<0.00406	<0.000300	0.000385 J	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-90	Mar-23		0.00581 J	<0.00174	0.00656 J	<0.00118	<0.0406	<0.00300	<0.00278	<0.00174	<0.00149	<0.00118	<0.00190	**<0.00234**
	MW-90	Oct-23		0.00285	0.000212 J	0.00634	<0.000118	<0.00406	<0.000300	<0.000278	0.000212 J	<0.000149	<0.000118	<0.000190	<0.000234
	MW-91	Oct-18		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		0.104 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		0.112	**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		0.114	**0.649**	<0.0125	<0.0118		**<0.0300**	**6.95**	**2.50**	<0.0149	<0.0118	**<0.0190**	**<0.0234**
	MW-93	Apr-17		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		0.0492	0.00452	0.00564	<0.000307		<0.000372	0.00797	0.336	<0.000396	<0.000419	<0.000398	<0.000259
	MW-93	Apr-19		0.0695 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		0.0394	<0.00348	<0.00250	<0.00236		**<0.00600**	0.0123 J	0.296	<0.00298	<0.00236	<0.00380	**<0.00468**
	MW-94	Nov-14		0.130	**0.400**	0.0400	<0.00610		**<0.00740**	0.700	**0.710**	<0.00790	<0.00840	**<0.00800**	**<0.00520**
	MW-94	Oct-15		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-17		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		<0.000349	<0.000341	0.00240	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	MW-95	Apr-18		0.000352 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		<0.000349 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		0.000158 J	<0.000174	0.00247	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-96	Sep-21		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-96	Apr-22		0.0610	<0.00174	0.0104	<0.00118	**4.13**	<0.00300	<0.00278	<0.00174	<0.00149	<0.00118	<0.00190	**<0.00234**
	MW-96	Oct-22		0.0718	<0.00348	0.0126 J	<0.00236	**3.30**	**<0.00600**	<0.00556	<0.00348	<0.00298	<0.00236	<0.00380	**<0.00468**
	MW-96	Mar-23		0.116 J	<0.174	<0.125	**<0.118**	**15.5**	**<0.300**	<0.278	<0.174	**<0.149**	<0.118 J3	**<0.190**	**<0.234**
	MW-96	Oct-23		0.0421	<0.00174	0.00648 J	<0.00118	<0.0406	<0.00300	<0.00278	<0.00174	<0.00149	<0.00118	<0.00190	**<0.00234**
	MW-98	Apr-21		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		0.0900	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-98	Apr-22		0.139	0.0282 J	0.0218 J	<0.00590	**<0.203**	**<0.0150**	0.194	**1.69**	<0.00745	<0.00590	**<0.00950**	**<0.0117**
	MW-98	Oct-22		0.117	0.0261 J	0.0245 J	<0.00590	**<0.203**	**<0.0150**	0.181	**1.45**	<0.00745	<0.00590 J4	**<0.00950**	**<0.0117** J3
	MW-98	Mar-23		0.125 J	<0.0348	<0.0250	<0.0236	**<0.812**	**<0.0600**	0.171 J	**1.41**	<0.0298	<0.0236	**<0.0380**	**<0.0468**
	MW-98	Oct-23		0.148	0.0281	0.0134	<0.00118	<0.0406	<0.00300	0.169	**1.38**	<0.00149	<0.00118	<0.00190	**<0.00234**
	MW-137	Oct-17		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		0.162 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		0.101 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		0.127 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		0.0697	<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		0.0680	0.00541	0.0111	<0.00154		<0.00186	0.0128	0.0492	<0.00198	<0.00210	<0.00199	<0.00130
	MW-138	Oct-18		0.0724	0.00635	0.00906	<0.00154		<0.00186	0.00806	0.115	<0.00198	<0.00210	<0.00199	<0.00130
	MW-138	Apr-19		0.108 J4	0.00315 J	0.0155	<0.00154		<0.00186	0.00480 J	0.100	<0.00198	<0.00210	<0.00199	<0.00130
	RW-1	Apr-15		0.0175 J	<0.0170	<0.0180	<0.0150		**<0.0190**	<0.0390	<0.0530	<0.0200	<0.0210	**<0.0200**	**<0.0130**
	RW-1	Apr-17		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		0.0336	0.00282	0.00486	<0.000307		0.00413	0.0176	0.0855	0.0173	<0.000419	**0.0169**	0.00131
	RW-1	Apr-19		0.0296 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		0.0813	0.0853	0.0120	<0.00310		**<0.0930**	0.115	0.530	<0.00400	<0.00420	**0.0326**	**<0.00260**
	RW-2	Apr-17		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		0.104	0.00601	0.0148	<0.000307		0.00335	0.0312	0.446	0.00825	<0.000419	**0.00521**	<0.000259
	RW-2	Mar-23		0.0491	0.0103 J	0.0131 J	<0.00236	<0.0812	**0.102**	0.0248	0.0737	0.0118 J	<0.00236	**0.200**	**0.228**
	RW-7	Apr-17		<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		0.00280	0.00114	0.00386	<0.000307		<0.000372	0.00106	0.00545	<0.000396	<0.000419	<0.000398	<0.000259
	RW-7	Apr-19		0.000916 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		0.00235	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		0.00788 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		0.0191	0.0112	0.0117	<0.000307		<0.000372	0.00213	0.0498	<0.000396	<0.000419	0.00110	<0.000259
	RW-9	Jun-20		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		0.00142	0.000732 J	0.0142	<0.000118		<0.000300	0.000442 J	0.00200 J	<0.000149	<0.000118	<0.000190	<0.000234
	RW-9	Apr-22		0.00540 J	<0.00174	0.0218	<0.00118	<0.0406	<0.00300	<0.00278	<0.00174	<0.00149	<0.00118	<0.00190	**<0.00234**
	RW-9	Mar-23		<0.000993	<0.00174	0.00504 J	<0.00118	**0.165**	<0.00300	<0.00278	<0.00174	<0.00149	<0.00118	<0.00190	**<0.00234**
	RW-10	Apr-18		<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		<0.000349	0.00272	<0.000365	<0.000307		<0.000372	0.00135	0.00369	<0.000396	<0.000419	<0.000398	<0.000259
	RW-10	Jun-20		0.000158 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		0.000395 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-18		<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		<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	RW-16B	Jun-20		<0.0000993	0.000377 J	<0.000125	<0.000118		<0.000300	0.000428 J	0.00125 J	<0.000149	<0.000118	<0.000190	<0.000234
	RW-16B	Mar-23		<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-17A	Apr-18		<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		<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	RW-17A	Jun-20		<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	RW-17A	Mar-23		<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 RO Field	MW-117	Apr-21		<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		<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-117	Apr-22		<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-117	Oct-22		<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-117	Mar-23		<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-117	Oct-23		<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-21		<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		<0.0000993	<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-22		<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	Oct-22		<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	Mar-23		<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	Oct-23		<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-21		<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		<0.0000993	<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-22		<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	Oct-22		<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	Mar-23		<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	Oct-23		<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234

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Appendix B, Table B.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2023 Annual Groundwater Monitoring Report

HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	Volatile Organic Compounds											
				Analyte	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-Dichloro-propene	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
				CGWSL	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	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 RO Field	MW-140	Mar-23														
	MW-140	Oct-23														
	MW-141	Mar-23														
	MW-141	Oct-23														
	MW-142	Mar-23														
	MW-142	Oct-23														
	MW-143	Mar-23														
	MW-143	Oct-23														
South Refinery	KWB-2R	Apr-19		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		0.101	0.00608	0.00857	0.00348		<0.000372	0.0140 J4	0.115	<0.000396	<0.000419	<0.000398	<0.000259
	KWB-2R	Mar-23		0.0247	0.00137 J	0.0102	<0.000590	<0.0203	<0.00150	<0.00139	0.0132 J	<0.000745	<0.000590	<0.000950	<0.00117
	KWB-2R	Oct-23		0.00179 J	<0.000870	0.00131 J	<0.000590	<0.0203	<0.00150	<0.00139	0.00219 J	<0.000745	<0.000590	<0.000950	<0.00117
	KWB-5	Oct-17		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		<0.0872	<0.0852	<0.0912	<0.0768		**<0.0930**	<0.103	<0.265	<0.0990	<0.105	**<0.0995**	**<0.0648**
	KWB-5	Oct-18		<0.0872	<0.0852	<0.0912	<0.0768		**<0.0930**	<0.103	<0.265	<0.0990	<0.105	**<0.0995**	**<0.0648**
	KWB-5	Apr-19		<0.0872	<0.0852	<0.0912	<0.0768		**<0.0930**	<0.103	<0.265	<0.0990	<0.105	**<0.0995**	**<0.0648**
	KWB-6	Apr-17		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		0.0386	0.00804	0.00483	<0.000307		<0.000372	0.0122	0.283	<0.000396	<0.000419	<0.000398	<0.000259
	KWB-6	Apr-18		0.0486	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		0.0234	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		0.0457 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		0.0947	<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		0.0241	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		0.0182	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		0.118 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		0.145 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		0.177 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		0.0908 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-21		<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		0.000219 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-50	Apr-22		<0.0000993	<0.000174	0.000288 J	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-50	Oct-22		<0.0000993	<0.000174	0.000129 J	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-50	Mar-23		<0.0000993	<0.000174	0.000333 J	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-50	Oct-23		<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-52	Apr-21		<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		<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-52	Apr-22		<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-52	Oct-22		<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-52	Mar-23		<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-52	Oct-23		0.000483 J	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	0.00181 J	<0.000149	<0.000118	<0.000190	<0.000234
	MW-64	Apr-21		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		0.0392 J	**0.822**	<0.00625	<0.00590	**2.48**	**<0.0150**	**9.03**	**3.06**	<0.00745	<0.00590	**<0.00950**	**<0.0117**
	MW-64	Apr-22		0.0663	**1.43**	<0.00313	<0.00295	**3.09**	**<0.00750**	**12.4**	**5.01**	<0.00373	<0.00295	<0.00475	**<0.00585**
	MW-64	Oct-22		0.0745 J	**1.05**	0.0916 J	0.0392 J	**2.90**	**<0.0750**	**9.56**	**4.17**	<0.0373	<0.0295 J4	**<0.0475**	**<0.0585**
	MW-64	Mar-23		<0.0497	**1.52**	<0.0625	<0.0590	**2.28 J**	**<0.150**	**13.4**	**5.39**	<0.0745	<0.0590	**<0.0950**	**<0.117**
	MW-64	Oct-23		0.0917 J	**1.21**	<0.0125	<0.0118	**2.10**	**<0.0300**	**8.92**	**5.28**	<0.0149	<0.0118	**<0.0190**	**<0.0234**
	MW-65	Apr-19		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		0.0971 J	<0.0341	<0.0365	<0.0307		**<0.0372**	<0.0412	<0.106	<0.0396	<0.0419	**<0.0398**	**<0.0259**
	MW-65	Mar-23		0.0913	0.00313	0.0106	<0.000118	**4.90**	<0.000300	0.00820	0.00756	<0.000149	<0.000118 J3	<0.000190	<0.000234
	MW-65	Oct-23		0.0655	<0.00435	0.00928 J	<0.00295	**0.540**	**<0.00750**	0.00944 J	<0.00435	<0.00373	<0.00295	<0.00475	**<0.00585**
	MW-66	Oct-19		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		0.0851	0.00239	0.00857	<0.000118		<0.000300	0.00581	0.0145	<0.000149	<0.000118	<0.000190	<0.000234
	MW-66	Oct-20		0.0513	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		0.0447	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		0.101	<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		0.0620 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		0.0512 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		0.0249	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-21		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		0.0140	0.000274 J	0.00356	<0.000118	0.108	<0.000300	0.00279	0.00375	<0.000149	<0.000118	<0.000190	<0.000234
	MW-101	Apr-22		0.00481	<0.000174	0.00269	<0.000118	0.114	<0.000300	0.00114	0.00122 J	<0.000149	<0.000118	<0.000190	<0.000234
	MW-101	Oct-22		0.0159	0.000380 J	0.00372	<0.000118	0.108	<0.000300	0.00260	0.0168	<0.000149	0.000229 JJ4	<0.000190	<0.000234 J3
	MW-101	Mar-23		0.0312	<0.00174	0.00531 J	<0.00118	0.0606	<0.00300	0.0130	0.168	<0.00149	<0.00118	<0.00190	**<0.00234**
	MW-101	Oct-23		0.00552	<0.000174	0.00256	<0.000118	0.0358	<0.000300	<0.000278	0.000966 J	<0.000149	<0.000118	<0.000190	<0.000234
	MW-102	Apr-21		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		0.0525	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	0.0523	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-102	Apr-22		0.0680	0.0672	0.0160 J	<0.00590	**<0.203**	**<0.0150**	0.338 J	0.480	<0.00745	<0.00590	**<0.00950**	**<0.0117**
	MW-102	Apr-22	FD	0.0600	0.0565	0.0117 J	<0.00295	**0.316**	**<0.00750**	0.407	0.454	<0.00373	<0.00295	<0.00475	**<0.00585**
	MW-102	Oct-22		0.0654 J	<0.0435	<0.0313	<0.0295	**<1.02**	**<0.0750**	0.404	**0.692 J**	<0.0373	<0.0295	**<0.0475**	**<0.0585**
	MW-102	Oct-22	FD	0.0635 J	<0.0435	<0.0313	<0.0295	**<1.02**	**<0.0750**	0.405	**0.643 J**	<0.0373	<0.0295	**<0.0475**	**<0.0585**
	MW-102	Mar-23		0.0686 J	<0.0348	<0.0250	<0.0236	**<0.812**	**<0.0600**	0.403	0.535 J	<0.0298	<0.0236	**<0.0380**	**<0.0468**
	MW-102	Mar-23	FD	0.0572 J	0.0301 J	<0.0125	<0.0118	**<0.406**	**<0.0300**	0.383	0.515	<0.0149	<0.0118	**<0.0190**	**<0.0234**
	MW-102	Oct-23		0.0543	0.0246	0.0112	<0.000118	<0.00406	<0.000300	0.318	0.567	<0.000149	<0.000118	<0.000190	<0.000234
	MW-102	Oct-23	FD	0.0511 J	<0.0435	<0.0313	<0.0295	**<1.02**	**<0.0750**	0.333	0.476 J	<0.0373	<0.0295	**<0.0475**	**<0.0585**
	MW-103	Jun-20		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		0.0356	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-103	Apr-22		0.0318	<0.00174	0.00549 J	<0.00118	**0.192**	<0.00300	0.00847 J	<0.00174	<0.00149	<0.00118	<0.00190	**<0.00234**
	MW-103	Mar-23		0.0301	<0.00174	0.00394 J	<0.00118	0.0974	<0.00300	0.00654 J	0.00441 J	<0.00149	<0.00118	<0.00190	**<0.00234**
	MW-104	Apr-21		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	0.00210	<0.000174	0.0404	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-104	Sep-21		0.00316 J	<0.000870	0.0397	<0.000590	<0.0203	<0.00150	<0.00139	<0.000870	<0.000745	<0.000590	<0.000950	<0.00117
	MW-104	Apr-22		0.00230	<0.000174	0.0389	<0.000118	0.00515	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-104	Oct-22		0.00304	<0.000174	0.0464	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118 J4	<0.000190	<0.000234
	MW-104	Mar-23		0.00228	<0.000174	0.0384	<0.000118	0.00411 J	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-104	Oct-23		0.00481	<0.000174	0.0386	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-105	Apr-21		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-105	Apr-22		0.0346	<0.00435	0.00747 J	<0.00295	<0.102	**<0.00750**	0.0125 J	0.191	<0.00373	<0.00295	<0.00475	**<0.00585**
	MW-105	Oct-22		0.0409 J	<0.0174	0.0426 J	<0.0118	**<0.406**	**<0.0300**	<0.0278	0.148 J	<0.0149	<0.0118 J4	**<0.0190**	**<0.0234** J3
	MW-105	Mar-23		0.0324 J	<0.0174	<0.0125	<0.0118	**<0.406**	**<0.0300**	<0.0278	0.0927 J	<0.0149	<0.0118	**<0.0190**	**<0.0234**
	MW-105	Oct-23		0.0218	0.00106 J	0.00579	<0.000590	<0.0203	<0.00150	0.00149 J	0.0708	<0.000745	<0.000590	<0.000950	<0.00117
	MW-106	Jun-20		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		0.0426 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		0.0498 J	<0.0348	<0.0250	<0.0236		**<0.0600**	0.289	0.245 J	<0.0298	<0.0236	**<0.0380**	**<0.0468**
	MW-106	Oct-23		0.0140	0.00687 J	0.00272 J	<0.00118	<0.0406	<0.00300	0.0404	0.0631	<0.00149	<0.00118	<0.00190	**<0.00234**
	MW-107	Oct-15		0.0689 J	0.0431 J	<0.0365	<0.0307		**<0.0372**	<0.0780	0.130 J	<0.0396	<0.0419	**<0.0398**	**<0.0259**
	MW-107	Apr-17		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		0.0857	0.00279	0.00830	<0.000307		<0.000372	0.0142	0.0159	<0.000396	<0.000419	<0.000398	<0.000259
	MW-107	Apr-19		<0.0872	<0.0852	<0.0912	<0.0768		**<0.0930**	<0.103	<0.265	<0.0990	<0.105	**<0.0995**	**<0.0648**
	MW-109	Apr-21		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		0.0640	<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**
	MW-109	Apr-22		0.0682	0.000388 J	0.00843	<0.000118	0.0281	<0.000300	0.0203	0.0177	<0.000149	<0.000118	<0.000190	<0.000234
	MW-109	Oct-22		0.0600	<0.00435	0.00747 J	<0.00295	<0.102	**<0.00750**	0.0124 J	<0.00435	<0.00373	<0.00295	<0.00475	**<0.00585**
	MW-109	Mar-23		0.0385 J	<0.00870	<0.00625	<0.00590	**<0.203**	**<0.0150**	<0.0139	<0.00870	<0.00745	<0.00590	**<0.00950**	**<0.0117**
	MW-109	Oct-23		0.0371	<0.00435	0.00319 J	<0.00295	<0.102	**<0.00750**	0.0112 J	<0.00435	<0.00373	<0.00295	<0.00475	**<0.00585**

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Appendix B, Table B.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2023 Annual Groundwater Monitoring Report
HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	Volatile Organic Compounds											
				Analyte	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-Dichloro-propene	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
				CGWSL	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	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-21			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			0.000228 J	<0.000174	0.00525	<0.000118	<0.00406	<0.000300	<0.000278	0.00315	<0.000149	<0.000118	<0.000190	<0.000234
	MW-110	Apr-22			0.0169	0.000570 J	0.00337	<0.000118	0.0168	<0.000300	0.00337	0.0705	<0.000149	<0.000118	<0.000190	<0.000234
	MW-110	Oct-22			0.000809 J	<0.000174	0.00566	<0.000118	0.00650	<0.000300	<0.000278	0.00132 J	<0.000149	<0.000118	<0.000190	<0.000234
	MW-110	Mar-23			0.000236 J	<0.000174	0.00334	<0.000118	0.00524	<0.000300	<0.000278	0.000521 J	<0.000149	<0.000118	<0.000190	<0.000234
	MW-110	Oct-23			0.000439 J	<0.000174	0.00213	<0.000118	0.00705	<0.000300	<0.000278	0.000586 J	<0.000149	<0.000118	<0.000190	<0.000234
	MW-139	Apr-21			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			0.00309	<0.000174	0.00810	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-139	Apr-22			0.000454 J	<0.000174	0.00299	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-139	Oct-22			0.000192 J	<0.000174	0.00521	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-139	Mar-23			<0.0000993	<0.000174	0.00272	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-139	Oct-23			0.000221 J	<0.000174	0.00291	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	RA-313	Jun-20			<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			<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	RA-313	Apr-22			<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-313	Mar-23			<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-4	Apr-19			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			0.00881	0.00105	0.00611	<0.000118		<0.000300	0.00557	0.00375	<0.000149	<0.000118	<0.000190	<0.000234
	RW-4	Apr-22			0.0331	0.000508 J	0.00942	<0.000118	0.0142	<0.000300	0.00223	0.00449	<0.000149	<0.000118	<0.000190	<0.000234
	RW-4	Mar-23			0.0162	0.000333 J	0.00560	<0.000118	0.0106	<0.000300	0.00111	0.00362	<0.000149	<0.000118	<0.000190	<0.000234
	RW-5R	Apr-15			0.0598	**0.522**	0.00691 J	<0.00310		<0.00370	**2.26**	**1.91**	<0.00400	<0.00420	<0.00400	**<0.00260**
	RW-6R	Apr-16			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			0.0329	0.0570	0.0148	<0.000307		<0.000372	0.448	0.150	<0.000396	<0.000419	<0.000398	<0.000259
	RW-6	Apr-19			0.0308	0.00804 J	0.0141 J	<0.00614		**<0.00744**	0.0211	0.0304 J	<0.00792	<0.00838	**<0.00796**	**<0.00518**
	RW-6	Mar-23			0.0352	**0.378**	0.0135 J	<0.00295	**0.449**	**<0.00750**	**2.78**	**1.31**	<0.00373	<0.00295 J3	<0.00475	**<0.00585**
	RW-15C	Apr-17			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			0.190	0.0285	0.0114	<0.000307		<0.000372	0.111	**3.01**	<0.000396	<0.000419	<0.000398	<0.000259
	RW-15C	Apr-19			0.215	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-21			<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			0.000457 J	<0.000174	0.00339	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-114	Apr-22			0.000414 J	<0.000174	0.00423	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-114	Oct-22			<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-114	Mar-23			<0.0000993	<0.000174	<0.000125	<0.000118	0.00493 J	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-114	Oct-23			<0.0000993	<0.000174	0.000448 J	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-115	Apr-21			<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			<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-115	Apr-22			<0.000993	<0.00174	<0.00125	<0.00118	<0.0406	<0.00300	<0.00278	<0.00174	<0.00149	<0.00118	<0.00190	**<0.00234**
	MW-115	Oct-22			<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-115	Mar-23			<0.0000993	<0.000174	<0.000125	<0.000118	0.00574	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-115	Oct-23			<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-21			<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			<0.0000993	<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-22			<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	Oct-22			<0.0000993	<0.000174	0.000475 J	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118 J4	<0.000190	<0.000234
	MW-116	Mar-23			<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-144	Mar-23														
	MW-144	Oct-23														
TEL	MW-49	Apr-21			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			0.0210	<0.00174	0.00491 J	<0.00118	<0.0406	<0.00300	0.00473 J	0.0675	<0.00149	<0.00118	<0.00190	**<0.00234**
	MW-49	Apr-22			0.0381	0.00125 J	0.00610	<0.000590	0.0466	<0.00150	0.00334 J	0.0882	<0.000745	<0.000590	<0.000950	<0.00117
	MW-49	Oct-22			0.0451	0.00131	0.00621	<0.000118	0.0443	<0.000300	0.00564	0.108	<0.000149	<0.000118 J4	<0.000190	**0.00213 J3**
	MW-49	Mar-23			0.0489	<0.00174	0.00696 J	<0.00118	<0.0406	<0.00300	0.00354 J	0.101	<0.00149	<0.00118	<0.00190	**<0.00234**
	MW-49	Oct-23			0.0799	0.00331 J	0.0122	<0.00118	<0.0406	<0.00300	0.0294	0.254	<0.00149	<0.00118	<0.00190	**<0.00234**
	TEL-1	Oct-18			<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			<0.000349	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			<0.000349	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			0.000241 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			0.0429	<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			0.0223	<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			0.0242	<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			0.0150	<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			0.00998	0.00313	0.0117	<0.000307		<0.000372	0.00394	0.0219	<0.000396	<0.000419	<0.000398	<0.000259
	TEL-3	Apr-19			0.0115	0.00165	0.00962	<0.000307		<0.000372	0.00166	0.00882	<0.000396	<0.000419	<0.000398	<0.000259
	TEL-3	Oct-19			0.0154	0.00191	0.00654	<0.000307		<0.000372	0.00150	0.0142	<0.000396	<0.000419	<0.000398	<0.000259
	TEL-3	Oct-20			0.0255	0.00640	0.00749	<0.000118		<0.000300	0.00449	0.0505	<0.000149	<0.000118	<0.000190 J4	<0.000234
	TEL-4	Apr-21			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		0.00328	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			0.00478	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		0.00513	0.000254 J	0.00921	<0.000118	0.147	<0.000300	0.00129	0.00132 J	<0.000149	<0.000118	<0.000190	<0.000234
	TEL-4	Apr-22			0.00171	0.000260 J	0.00826	<0.000118	0.0366	<0.000300	0.000648 J	0.00126 J	<0.000149	<0.000118	<0.000190	<0.000234
	TEL-4	Apr-22	FD		0.00361 J	<0.000870	0.00813	<0.000590	0.0496	<0.00150	<0.00139	<0.000870	<0.000745	<0.000590	<0.000950	<0.00117
	TEL-4	Oct-22			0.00232	0.000188 J	0.00928	<0.000118	0.0702	<0.000300	0.000573 J	0.00190 J	<0.000149	0.000393 JJ4	<0.000190	<0.000234 J3
	TEL-4	Oct-22	FD		0.00235	0.000178 J	0.00930	<0.000118	0.0579	<0.000300	0.000466 J	0.00206 J	<0.000149	0.000446 JJ4	<0.000190	<0.000234 J3
	TEL-4	Mar-23			<0.00199	<0.00348	0.00673 J	<0.00236	<0.0812	**<0.00600**	<0.00556	<0.00348	<0.00298	<0.00236	<0.00380	**<0.00468**
	TEL-4	Mar-23	FD		<0.00199	<0.00348	0.00695 J	<0.00236	<0.0812	**<0.00600**	<0.00556	<0.00348	<0.00298	<0.00236	<0.00380	**<0.00468**
	TEL-4	Oct-23			0.00159	<0.000174	0.0100	<0.000118	0.0196	<0.000300	0.000331 J	0.000497 J	<0.000149	<0.000118	<0.000190	<0.000234
	TEL-4	Oct-23	FD		0.00201	<0.000174	0.0103	<0.000118	0.0179	<0.000300	0.000383 J	0.000596 J	<0.000149	<0.000118	<0.000190	<0.000234
Three Mile Ditch	MW-8	Jun-20			<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			<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-8	Apr-22			<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-8	Mar-23			<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-16	Jun-20			<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			<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-16	Apr-22			<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-16	Mar-23			<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-20	Jun-20			<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			<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-20	Apr-22			0.000568 J	<0.000174	0.000268 J	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-20	Mar-23			<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-21	Apr-21			<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			<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-21	Apr-22			<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-21	Oct-22			<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-21	Mar-23			<0.0000993	<0.000174	<0.000125	<0.000118	0.0166	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-21	Oct-23			<0.000497	<0.000870	<0.000625	<0.000590	<0.0203	<0.00150	<0.00139	<0.000870	<0.000745	<0.000590	<0.000950 J4	<0.00117
	MW-25	Jun-20			<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			<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-25	Apr-22			<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	Mar-23			<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-26	Jun-20			<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			<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-26	Apr-22			<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-26	Mar-23			<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234

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Appendix B, Table B.4 - Summary of Groundwater Analytical Data - Volatile Organic Compounds

2023 Annual Groundwater Monitoring Report
HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	Volatile Organic Compounds											
				Analyte	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-Dichloro-propene	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
				CGWSL	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	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	Jun-20		<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		<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-27	Apr-22		<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-27	Mar-23		<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-46R	Apr-21		<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		<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-46R	Apr-22		<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-46R	Oct-22		<0.0000993	<0.000174	0.000347 J	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118 J4	<0.000190	<0.000234
	MW-46R	Mar-23		<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-46R	Oct-23		<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	Jun-20		<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		<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-68	Apr-22		<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	Mar-23		<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-71	Jun-20		<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		<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	MW-71	Apr-22		<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-71	Mar-23		<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-89	Jun-20		<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		<0.0000993	0.000241 J	<0.000125	<0.000118		<0.000300	<0.000278	0.000241 J	<0.000149	<0.000118	<0.000190	<0.000234
	MW-89	Apr-22		<0.0000993	0.000579 J	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	0.000579 J	<0.000149	<0.000118	<0.000190	<0.000234
	MW-89	Mar-23		<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-1	Apr-21		<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		<0.00248	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	NP-1	Apr-22		<0.0000993	<0.000174	<0.000125	<0.000118	0.00750	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	NP-1	Oct-22		<0.00199	<0.00348	<0.00250	<0.00236	<0.0812	**<0.00600**	<0.00556	<0.00348	<0.00298	<0.00236	<0.00380	**<0.00468**
	NP-1	Mar-23		<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-1	Oct-23		<0.00199	<0.00348	<0.00250	<0.00236	<0.0812	**<0.00600**	<0.00556	<0.00348	<0.00298	<0.00236	<0.00380 J4	**<0.00468**
	NP-6	Apr-17		<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		<0.000349	<0.000341	<0.000365	<0.000307		<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000398	<0.000259
	NP-6	Apr-21		<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	NP-6	Mar-23		<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
Upgradient	UG-1	Jun-20		<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		<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	UG-1	Apr-22		<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	UG-1	Mar-23		<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	UG-2	Jun-20		<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		<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	UG-2	Apr-22		<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	UG-2	Mar-23		<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	UG-3R	Jun-20		<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		<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	UG-3R	Apr-22		<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	UG-3R	Mar-23		<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	UG-4	Jun-20		<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		<0.0000993	<0.000174	<0.000125	<0.000118		<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	UG-4	Apr-22		<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<0.000300	<0.000278	<0.000174	<0.000149	<0.000118	<0.000190	<0.000234
	UG-4	Mar-23		<0.0000993	<0.000174	<0.000125	<0.000118	<0.00406	<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, November 2022, 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 2022
USEPA MCL	United States Environmental Protection Agency Maximum Contaminant Level, "Regional Screening Levels (RSL) Summary Table", November 2022
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.

Note - Irrigation well RA-4196R was installed in June 2022 to replace both irrigation wells RA-4196 and RA-4798 which were plugged and abandoned in April 2023.

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Appendix B, Table B.5 - Summary of Groundwater Analytical Data - Water Quality and Cyanide

2023 Annual Groundwater Monitoring Report
HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	Water Quality Parameters										Cyanide
				Analyte	Calcium	Chloride	Fluoride	Nitrate	Nitrate/Nitrite	Nitrite	Potassium	Sodium	Sulfate	TDS	Cyanide
				CAS	7440-70-2	16887-00-6	16984-48-8	14797-55-8	NO3NO2	14797-65-0	7440-09-7	7440-23-5	14808-79-8	TDS	57-12-5
				Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL	--	250	1.60	10.0	10.0	1.00	--	--	600	1000	0.200
				CGWSL Source	--	WQCC Dom	WQCC HH	WQCC HH	WQCC HH	WQCC HH	--	--	WQCC Dom	WQCC Dom	WQCC HH
Area	**Well ID**	**Date**	**Dup**												
Cross-Gradient	KWB-13	Jun-20		598	121	0.791		**14.9**		2.10	169	**2430**	**3710**	<0.00180
	KWB-13	Apr-21		660	128	0.689		**16.1 V**		3.54	181	**2090**	**3610**	<0.00180
	KWB-13	Apr-22		493	133	1.15 J		**15.7**		1.06 J	179	**2350**	**3540**	<0.00180
	KWB-13	Mar-23		519	118	1.36 JB	**13.4**		<0.420	1.12 J	150	**1860**	**2910**	<0.00900
	MW-136	Apr-21		580	**272**	1.57		**13.8**		2.25	128	**2020**	**3640**	<0.00180
	MW-136	Sep-21		542	**268 B**	1.53		**12.2**		2.42	115 V	**1700**	**3360**	<0.00180
	MW-136	Apr-22		528	**337**	**1.86**		**12.0**		2.33	108	**1940**	**3560**	<0.00180
	MW-136	Oct-22		549	**319**	1.36		**10.8**		2.12	102	**1650**	**2630**	<0.00180
	MW-136	Mar-23		520	**320**	1.48 J	9.58 Q		<0.420	2.09	96.7	**1660**	**3390**	<0.00360
	MW-136	Oct-23		537	**305**	1.25 J	9.24		<0.420	2.18	87.0	**1540**	**2810**	<0.00360
	MW-149	Oct-23		484	148	<0.640	**16.7**		<0.420	0.824 J	271	**2060**	**4070**	
	MW-150	Oct-23		517	141	<0.640	2.13		<0.420	0.726 J	174	**2150**	**3330**	
	NP-5	Apr-17		514	**444**	**1.63**		2.22		0.422 J	212	**3770**	**4810**	
	NP-5	Apr-19		529	**310**	**2.16**		1.06		0.320 J	206	**3370**	**5240**	
	NP-5	Apr-21		529	**253**	**2.49**		0.721		0.258 J	226	**3320**	**5410**	
	NP-5	Mar-23		488	206	**2.18**	0.642 J		<0.420	0.328 J	229	**2850**	**5660**	
	RA-3156	Apr-19		83.5	**807**	0.751		1.50		0.679 J	87.0	**1650**	**3240**	
	RA-3156	Jun-20		180	**280**	0.313		<0.0500		2.62	97.8	**603**	**1250**	
	RA-3156	Apr-21		338	**533**	0.587		0.0923 J		2.49	268	**1340**	**2970**	
	RA-3156	Apr-22		457	**1110**	0.716		0.0633 J		3.40	643	**1590**	**4080**	
Evaporation Ponds	MW-1R	Jun-20		540	**1430**	0.732		<0.0500		4.01	831	**2060**	**3200**	
	MW-1R	Apr-21		418	**1000**	0.706		1.88		3.48	704	**1430**	**3030**	
	MW-1R	Apr-22		473	**1160**	0.835		0.0763 J		3.80	662	**1730**	**4250**	
	MW-1R	Mar-23		413	**1000**	1.35 JB	<0.480		0.594 J	3.45	629	**1570**	**4380**	
	MW-2A	Apr-21		533	**2660**	**2.58**		0.930		3.74	2380	**3770**	**9880**	
	MW-2A	Sep-21		637	**3360**	**1.93**		<0.0500		4.43	3220	**4730**	**13100**	
	MW-2A	Apr-22		534	**3530**	1.18		0.0701 J		4.11	2440	**4710**	**11900 Q**	
	MW-2A	Oct-22		606	**3480**	**2.49**		0.111		4.99 J	2620	**4050**	**10900**	
	MW-2A	Mar-23		624	**4210**	**2.70**	0.750 J		<0.420	4.22	3110	**4780**	**15300**	
	MW-2A	Oct-23		577	**3150**	1.47 J	1.47		<0.420	5.14	2120	**3160**	**11100 Q**	
	MW-3	Apr-21		479	**1060**	**1.93**		0.214		5.09	785	**1690**	**3990**	
	MW-3	Apr-21	FD	493	**1110**	1.55		0.171		5.16 J	889	**1850**	**3790**	
	MW-3	Sep-21		680	**1510**	**1.80**		1.45		5.14	897	**2300**	**6070**	
	MW-3	Sep-21	FD		**1470**	**1.90**		1.46				**2400**	**6060**	
	MW-3	Apr-22		532	**1360**	**1.92**		<0.0500		5.29	879	**2140**	**5100 Q**	
	MW-3	Apr-22	FD	497	**1380**	**1.92**		<0.0500		5.00	814	**2190**	**4730 Q**	
	MW-3	Oct-22		602	**1480**	**2.01**		0.266		6.35 J	908	**2340**	**3970**	
	MW-3	Oct-22	FD	603	**1500**	**1.99**		0.288		6.25 J	889	**2350**	**4720**	
	MW-3	Mar-23		638	**1750**	**1.83 J**	<0.960 Q		<0.840 Q	5.35	1040	**2230**	**5850**	
	MW-3	Mar-23	FD	637	**1740**	**2.22**	2.08 Q		<0.420 Q	5.46	1050	**1930**	**4680**	
	MW-3	Oct-23		667	**1770**	**2.06**	<0.480		<0.420	7.04	1030	**2220**	**4660**	
	MW-3	Oct-23	FD	647	**1760**	**1.94**	1.45		<0.420	6.96	1070	**2100**	**5640**	
	MW-4A	Apr-21		414	**1280**	**2.04**		<0.0500		6.03	914	**1630**	**3210**	
	MW-4A	Sep-21		505	**1390**	**1.90**		1.35		5.14	924	**2060**	**5680**	
	MW-4A	Apr-22		394	**1410**	**2.40**		<0.0500		4.95	883	**1830**	**4810 Q**	
	MW-4A	Oct-22		391	**1350 V**	**2.23**		<0.0500		6.02 J	888	**1840 V**	**3890**	
	MW-4A	Mar-23		390	**1310**	**2.83**	<0.480 Q[R]		<0.420 Q[R]	4.62	971	**1700**	**4090 J3**	
	MW-4A	Oct-23		397	**1240**	**2.08**	<0.480		<0.420	5.58	898	**1620**	**3840**	
	MW-4B	Apr-17		360	**1330**	0.985		<0.0197		2.55	758	**1410**	**3690**	
	MW-4B	Apr-19		442	**1320**	0.775		<0.0197		2.50	703	**1430**	**4370**	
	MW-4B	Apr-21		406	**1130**	0.835		<0.0500		2.51	748	**1300**	**3310**	
	MW-4B	Mar-23		385	**1120**	1.43 JB	<0.480		0.685 J	2.84	665	**1310**	**3680**	
	MW-5A	Apr-21		419	**2540**	**3.07**		<0.0500		7.69	2480	**5140**	**11700**	
	MW-5A	Sep-21		549	**3210**	**3.45**		<0.0500		7.37	3540	**7090**	**15400**	
	MW-5A	Apr-22		396	**2850**	**4.06**		<0.0500		7.53	2980	**5440**	**11000 Q**	
	MW-5A	Oct-22		490	**2890**	**3.92**		<0.0500		4.87 J	3120	**7580**	**12800**	
	MW-5A	Mar-23		416	**3230**	**4.24**	<0.480		<0.420	5.54	3060	**6110**	**15200**	
	MW-5A	Oct-23		387	**2140**	**4.11**	<0.480		<0.420	9.29	2010	**3940**	**9640 Q**	
	MW-5B	Apr-17		420	**1560**	**1.73**		0.0210 J		9.18	1650	**2590**	**6290**	
	MW-5B	Apr-19		389	**1530**	**1.70**		<0.0197		9.69	1490	**2660**	**6370**	
	MW-5B	Apr-21		359	**524**	1.05		<0.0500		3.74	431	**1370**	**2930**	
	MW-5B	Mar-23		358	**1290**	**2.21**	<0.480		<0.420	9.69	1270	**2250**	**6160**	
	MW-5C	Apr-17		383	**576**	0.971		<0.0197		3.90	500	**1740**	**3110**	
	MW-5C	Apr-19		390	**591**	0.896		<0.0197		4.11	450	**1540**	**3200**	
	MW-5C	Apr-21		379	**1360**	**2.06**		<0.0500		10.5	1420	**2380**	**5050**	
	MW-5C	Mar-23		357	**578**	1.57 B	<0.480		0.460 J	3.74	439	**1410**	**2820 J3**	
	MW-6A	Jun-20		290	**669**	1.55		<0.0500		1.18 J	670	**1670**	**3640**	
	MW-6A	Apr-21		297	**647**	**1.67**		0.0885 J		1.24 J	697	**1450**	**3070**	
	MW-6A	Apr-22		301	**710**	**2.13**		<0.0500		1.35 J	673	**1730**	**3660**	
	MW-6A	Mar-23		361	**578**	**1.77**	<0.480		0.649 J	1.17 J	636	**1900**	**4020**	
	MW-6B	Apr-17		418	**1250**	0.694		<0.197		3.97	738	**1730**	**4150**	
	MW-6B	Apr-19		462	**1140**	0.519		<0.0197		4.45 O1	682	**1460**	**4190**	
	MW-6B	Apr-21		462	**970**	0.614		0.289		4.71	651	**1330**	**6950**	
	MW-6B	Mar-23		539	**1420 V**	0.848 J	<0.480		0.644 JJ6	5.66	760	**1670 V**	**4640**	
	MW-7A	Apr-21		334	**1690**	1.21		0.0648 J		3.68	1360	**2100**	**4800**	
	MW-7A	Apr-21	FD	341	**2870**	1.15		<0.0500		3.93	1430	**3460**	**6460**	
	MW-7A	Sep-21		484	**2190**	1.16		<0.0500		3.92	1750	**3060**	**8170**	
	MW-7A	Sep-21	FD	495	**2260**	1.14		<0.0500		3.83	1740	**3160**	**8250**	
	MW-7A	Apr-22		335 V	**2010**	**1.71**		0.0793 J		3.58	1340	**2470**	**6060 Q**	
	MW-7A	Apr-22	FD	339	**2000**	**1.72**		0.0694 J		3.71	1610	**2450**	**4820 Q**	
	MW-7A	Oct-22		425	**2450**	1.40 J		0.170		3.07 J	1680	**3160**	**4020**	
	MW-7A	Oct-22	FD	405	**2530**	1.45 J		0.141		4.07 J	1620	**3270**	**3680**	
	MW-7A	Mar-23		363	**1950**	1.40 J	<0.480		<0.420	3.41	1410	**2230**	**7590**	
	MW-7A	Mar-23	FD	359	**2090**	1.26 J	<0.480		<0.420	3.48	1460	**2370**	**7080**	
	MW-7A	Oct-23		371	**1750**	1.49 J	<0.480 Q[R]		<0.420 Q[R]	3.84	1310	**2240**	**5100**	
	MW-7A	Oct-23	FD	365	**1710**	1.47 J	<0.480 Q[R]		<0.420 Q[R]	3.85	1330	**2100**	**4490**	
	MW-7B	Apr-17		530	**1060**	0.966		0.0670 J		6.71	652	**1750**	**4720**	
	MW-7B	Apr-19		581	**1100**	0.823		<0.0197		6.70	581	**1910**	**4760**	
	MW-7B	Apr-21		562	**1030**	0.881		<0.0500		6.66	561	**1800**	**3430**	
	MW-7B	Mar-23		524	**1080**	0.788 J	<0.480		<0.420	8.17	576	**1720**	**3980**	
	MW-10	Apr-21		431	**1170**	0.804		<0.0500 J6		3.51	964	**1650**	**3620**	
	MW-10	Sep-21		612	**1640**	1.11		<0.0500		3.22	1330	**2270**	**6630**	
	MW-10	Apr-22		442	**1380**	1.27 J		<0.0500		3.40	971	**1890**	**4630 Q**	
	MW-10	Oct-22		651	**2320**	1.35 J		<0.0500		2.54 J	1410	**2950**	**6340**	
	MW-10	Mar-23		406	**1290**	1.44 JB	0.666 JBQ		<0.420 Q	3.05	956	**1770**	**5460**	
	MW-10	Oct-23		411	**1340 T8**	0.860 JT8	<0.480 T8[R]		<0.420 T8[R]	3.23	945	**1670 T8**	**4450 Q**	
	MW-11A	Apr-21		1130	**8110**	0.794		1.10		20.6	5040	**3180**	**16200**	
	MW-11A	Sep-21		1230	**8880**	0.114 J		<0.0500		22.2	5180	**3290**	**18600**	
	MW-11A	Apr-22		1050	**8990**	<0.0640		0.693		18.1	4570	**3480**	**19000 Q**	
	MW-11A	Oct-22		956	**8600**	0.882 J		<0.0500		18.2 J	4330	**3560**	**15000**	
	MW-11A	Mar-23		1110 V	**8720**	0.997 J	1.93 Q		<0.420 Q	18.1 J	4840 V	**2920**	**15400**	
	MW-11A	Oct-23		985	**7150**	0.868 J	1.39		<0.420	18.5	4070	**2870**	**15300**	

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Appendix B, Table B.5 - Summary of Groundwater Analytical Data - Water Quality and Cyanide

2023 Annual Groundwater Monitoring Report
HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	Water Quality Parameters										Cyanide
				Analyte	Calcium	Chloride	Fluoride	Nitrate	Nitrate/Nitrite	Nitrite	Potassium	Sodium	Sulfate	TDS	Cyanide
				CAS	7440-70-2	16887-00-6	16984-48-8	14797-55-8	NO3NO2	14797-65-0	7440-09-7	7440-23-5	14808-79-8	TDS	57-12-5
				Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL	--	250	1.60	10.0	10.0	1.00	--	--	600	1000	0.200
				CGWSL Source	--	WQCC Dom	WQCC HH	WQCC HH	WQCC HH	WQCC HH	--	--	WQCC Dom	WQCC Dom	WQCC HH
Area	Well ID	Date	Dup												
Evaporation Ponds	MW-11B	Apr-17		979	**6050**	0.825		<0.197		35.2	3660	**2890**	**14000**	
	MW-11B	Apr-19		935	**6410**	0.899		<0.197		32.2	3410	**3340**	**11600**	
	MW-11B	Apr-21		966	**6020**	0.829		<0.0500		34.1	3850	**3110**	**12800**	
	MW-11B	Mar-23		861	**5930**	0.816 J	1.25 BQ		<0.420 Q	29.4	3360	**2950**	**11600**	
	MW-15	Jun-20		480	**1200**	0.610		<0.0500		5.52	563	**1440**	**3830**	
	MW-15	Apr-21		581	**1220**	1.39		5.18		5.39	738	**1660**	**3490**	
	MW-15	Apr-22		650	**1500**	**3.53**		2.91		6.09	841	**2190**	**5410**	
	MW-15	Mar-23		587	**1390**	**2.85 B**	4.21 Q		0.845 JQ	4.89	822	**1910**	**5030**	
	MW-18A	Apr-21		661	**5540**	**2.60**		<0.0500		39.9	3700	**5570**	**15600**	<0.00180
	MW-18A	Sep-21		696	**5350**	**2.30**		<0.0500		38.0	3880	**5780**	**16500**	<0.00180
	MW-18A	Apr-22		618	**5400**	1.20		<0.0500		36.1	3100	**5730**	**16500 Q**	<0.00180
	MW-18A	Oct-22		646	**5580**	**2.73**		<0.0500		36.9	3410	**5700**	**13800**	<0.00180
	MW-18A	Mar-23		629	**4990**	**2.47**	<0.480		<0.420	36.8	3400	**4860**	**16700**	<0.00180
	MW-18A	Oct-23		647	**5570**	**2.46**	1.18		<0.420	39.1	3480	**4950**	**20900**	<0.00180
	MW-18B	Apr-17		576	**860**	0.797		<0.0197		5.91	481	**2070**	**4080**	
	MW-18B	Apr-19		807	**919**	0.727		<0.0197		8.43	506	**2030**	**4690**	
	MW-18B	Apr-21		612	**821**	0.802		<0.0500		6.66	534	**1790**	**4350**	
	MW-18B	Mar-23		550	**849**	0.984 J	<0.480		<0.420	5.64	460	**1840**	**3730**	
	MW-22A	Apr-21		383	**1490**	0.682		<0.0500		3.08	1280	**1750**	**4840**	
	MW-22A	Apr-21	FD	399	**1550**	0.712		<0.0500		3.14 J	1370	**1910**	**4940**	
	MW-22A	Sep-21		947	**12200**	0.447		1.76		8.27	7360	**6680**	**29300**	
	MW-22A	Sep-21	FD	976	**12600**	0.542		1.71		8.60	7080	**7100**	**28400**	
	MW-22A	Apr-22		488	**3570**	**1.62**		<0.0500		4.15	2190	**3380**	**9440 Q**	
	MW-22A	Apr-22	FD	452	**3590**	1.58		<0.0500		4.01	2710	**3400**	**9980 Q**	
	MW-22A	Oct-22		769	**13400**	**2.48**		1.55		6.19 J	7210	**8620**	**25900**	
	MW-22A	Oct-22	FD	767	**13600**	**2.49**		1.55		7.17 J	7270	**8740**	**25800**	
	MW-22A	Mar-23		740	**10900**	**2.28**	3.50 Q		<0.420 Q	5.90	6960	**6190**	**20100**	
	MW-22A	Mar-23	FD	725	**10300**	**2.51**	<0.480 Q		<0.420 Q	5.82	6340	**6360**	**22000**	
	MW-22A	Oct-23		397	**1800 T8**	0.863 JT8	<0.480 T8[R]		<0.420 T8[R]	3.19	1440	**1920 T8**	**4020**	
	MW-22A	Oct-23	FD	387	**1560**	1.08 J	<0.480 Q[R]		<0.420 Q[R]	3.12	1300	**1680**	**5620 Q**	
	MW-22B	Apr-17		396	**1400**	0.771		0.408 J		4.15	1150	**2080**	**5670**	
	MW-22B	Apr-19		414	**1300**	0.818		<0.197		4.30	985	**2170**	**5480**	
	MW-22B	Apr-21		420	**1190**	0.677		<0.0500		3.99	1080	**1830**	**4760**	
	MW-22B	Mar-23		409	**1250**	1.28 JB	0.783 JBQ		<0.420 Q	3.83	1060	**2030**	**8660**	
	MW-70	Apr-21		740	**1200**	0.595		<0.0500		5.52	832	**2060**	**5790**	
	MW-70	Sep-21												
	MW-70	Apr-22		668	**1440**	1.08 J		<0.0500		4.92	753	**2500**	**5830 Q**	
	MW-70	Oct-22												
	MW-70	Mar-23		650	**1250**	<0.640	<0.480		<0.420	4.79	751	**2130**	**4660**	
	MW-70	Oct-23												
	MW-72	Jun-20		627	**2830**	**5.71**		0.645		6.56	1730	**2810**	**8060**	
	MW-72	Apr-21		651	**2490**	**5.61**		4.22		6.98	1740	**2360**	**5940**	
	MW-72	Apr-22		663	**2830**	**4.88**		2.70		6.55	1470	**2610**	**8200 Q**	
	MW-72	Mar-23		723	**2920**	**5.68 B**	1.93		**1.47**	6.32	1590	**2530**	**8740**	
	MW-73	Jun-20		561	**2540**	**1.67**		<0.0500		2.29	2410	**3990**	**8860**	
	MW-73	Apr-21		609	**3100**	**1.83**		0.371		2.46	2590	**4570**	**9400**	
	MW-73	Apr-22		575	**2660**	1.30		0.374		2.46	2110	**3800**	**9780 Q**	
	MW-73	Mar-23		607	**2380**	**2.26**	<0.480		<0.420	2.82	2200	**3280**	**8440**	
	MW-74	Apr-21		562	**1850**	**7.50**		4.80		30.5	2120	**3400**	**6560**	
	MW-74	Sep-21		607	**1780**	**6.32**		<0.0500		29.6	2100	**3190**	**8640**	
	MW-74	Apr-22		563	**2000**	**6.38**		2.90		26.6	1740	**3660**	**8120 Q**	
	MW-74	Oct-22		543	**1960**	**7.82**				28.1	1870	**3220**	**4200**	
	MW-74	Mar-23		552	**1910**	**8.56**	4.32		<0.420	30.3	1860	**3360**	**7040**	
	MW-74	Oct-23		553	**1790**	**6.22**	<0.480 Q		<0.420 Q	25.3	1790	**2550**	858 Q	
	MW-75	Apr-21		370	**1350**	**6.71**		2.16		17.6	1370	**1770**	**4730**	
	MW-75	Sep-21		381	**1400**	**7.43**		<0.0500		18.2	1460	**1910**	**5720**	
	MW-75	Apr-22		384	**1570**	**7.45**		1.87		18.3	1290	**2100**	**5560 Q**	
	MW-75	Oct-22		364	**1390**	**7.02**		<0.0500		15.4 J	1360	**2070**	**3580**	
	MW-75	Mar-23		361	**1450**	**7.64**	<0.960 Q[R]		<0.840 Q [R]	17.6	1390	**1910**	**4680**	
	MW-75	Oct-23		372	**1390**	**6.99**	1.56		<0.420	18.4	1260	**1830**	**4730**	
	MW-76	Apr-21		425	**1090**	**3.00**		<0.0500		25.3	914	**1800**	**4300**	
	MW-76	Sep-21		490	**1130**	**2.94**		<0.0500		26.4	940	**1940**	**5420**	
	MW-76	Apr-22		438	**1260**	**3.19**		0.0893 J		25.4	954	**2130**	**4870 Q**	
	MW-76	Oct-22		464	**1240**	**3.71**		<0.0500		26.0	926	**2040**	**5050**	
	MW-76	Mar-23		423	**1180**	**3.50**	<0.960 Q[R]		<0.840 Q [R]	23.1	927	**1930**	**3080**	
	MW-76	Oct-23		423	**1170**	**2.74**	1.43		<0.420	24.8	836	**1710**	**3900**	
	MW-77	Jun-20		488	**428**	**2.53**		<0.0500		64.2	1070	**3950**	**7430**	
	MW-77	Apr-21		495	**514**	**3.61**		<0.0500		65.9	1060	**3200**	**5240**	
	MW-77	Apr-22		505	**353**	**10.3**		1.17		52.2	876	**4350**	**6030**	
	MW-77	Mar-23		444	**459**	**11.5**	<0.480 Q[R]		<0.420 Q [R]	37.5	778	**2840**	**5000**	
	MW-78	Jun-20		584	51.7	**13.9**		<0.0500		16.6	184	**2580**	**4460**	
	MW-78	Apr-21		319	**317**	**14.8**		8.33		17.8	365	**1410**	**3480**	
	MW-78	Apr-22		321	183	**17.0**		2.68		15.6	208	**1700**	**2500 J3**	
	MW-78	Mar-23		301	96.5	**18.4**	1.60 Q		<0.420 Q	13.0	147	**1460**	**2740**	
	MW-79	Apr-21		647	**1700**	**5.90**		2.35		6.84	1110	**2120**	**5550**	
	MW-79	Sep-21		615	**1500**	**5.24**		0.708		5.86	1180	**2070**	**6100**	
	MW-79	Apr-22		590 O1V	**1680**	**5.68**		2.25		6.52	1000	**2160**	**5910 Q**	
	MW-79	Oct-22		514	**1430**	**5.25**		0.902		5.88 J	966	**1830**	**3910**	
	MW-79	Mar-23		571	**1540**	**5.86 B**	1.83 BQ		<0.420 Q	6.54	945	**2050**	**5140**	
	MW-79	Oct-23		632	**1600**	**4.75**	3.50 Q		<0.420 Q	7.18	930	**1970**	**4370**	
	MW-80	Jun-20		620	**1210**	**2.19**		<0.0500		2.99	680	**1980**	**4990**	
	MW-80	Apr-21		592	**980**	**2.46**		2.02		2.77	684	**1750**	**3780**	
	MW-80	Apr-22		542	**983**	**2.57**		0.371		2.61	720	**1940**	**4700 Q**	
	MW-80	Mar-23		592	**1200**	**3.00 B**	0.794 JBQ		0.435 JQ	2.74	728	**2010**	**4350**	
	MW-81	Jun-20		441	**1050**	**5.73**		3.54		5.49	908	**1990**	**4750**	
	MW-81	Apr-21		456	**987**	**6.61**		1.65		6.52	962 V	**1840**	**4940**	
	MW-81	Apr-22		449	**1010**	**6.19**		8.37		6.31	1070	**2010**	**4930 Q**	
	MW-81	Mar-23		455	**1060**	**7.42**	**10.3**		<0.420	6.16	898	**1980**	**4200 J3**	
	MW-82	Jun-20		422	**1430**	**9.31 J**		<0.0500		8.75	1150	**2180**	**5560**	
	MW-82	Apr-21		520	**1410**	**8.40**		1.40		9.31	1080	**1870**	**5810**	
	MW-82	Apr-22		531	**1540**	**9.26**		1.12		9.50	1110	**2380**	**5620 Q**	
	MW-82	Mar-23		502	**1490**	**9.11**	2.16 Q		<0.420 Q	8.72	1100	**1870**	**5950**	
	MW-83	Apr-21		324	**992**	**3.94**		8.03		18.5	810	**1270**	**3430**	
	MW-83	Sep-21		552	126	**5.11**		**21.4**		94.1	220	**4840**	**8160**	
	MW-83	Apr-22		504	**633**	**5.18**		3.16		39.4	544	**3040**	**5250 Q**	
	MW-83	Oct-22		555	98.3	**5.54**		**12.4**		62.5	284	**4410**	**6220**	
	MW-83	Mar-23		508	132	**6.51**	6.29 Q		<0.420 Q	53.0	259	**3900**	**5500**	
	MW-83	Oct-23		446	**578**	**5.80**	1.59		<0.420	43.2	476	**3240**	**4680**	
	MW-84	Apr-21		592	**1320**	**5.81**		<0.0500		6.44	1370	**3930**	**9040**	
	MW-84	Sep-21		602	**1360**	**5.54**		<0.0500		8.18	1660	**5100**	**10600**	
	MW-84	Apr-22		616	**1490**	**5.97**		<0.250		6.94	1500	**5120**	**9140**	
	MW-84	Oct-22		559	**1370**	**5.68**		<0.250		5.84 J	1440	**4120**	**5980**	
	MW-84	Mar-23		594	**1290**	**4.18**	1.53 BQ		<0.420 Q	7.23	1520	**4640**	**8420 J3**	
	MW-84	Oct-23		557	**1210**	**<6.40**	7.89 JQ		**<4.20** Q	5.92	1280	**4100**	**7080**	

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Appendix B, Table B.5 - Summary of Groundwater Analytical Data - Water Quality and Cyanide

2023 Annual Groundwater Monitoring Report
HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	Water Quality Parameters										Cyanide
				Analyte	Calcium	Chloride	Fluoride	Nitrate	Nitrate/Nitrite	Nitrite	Potassium	Sodium	Sulfate	TDS	Cyanide
				CAS	7440-70-2	16887-00-6	16984-48-8	14797-55-8	NO3NO2	14797-65-0	7440-09-7	7440-23-5	14808-79-8	TDS	57-12-5
				Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL	--	250	1.60	10.0	10.0	1.00	--	--	600	1000	0.200
				CGWSL Source	--	WQCC Dom	WQCC HH	WQCC HH	WQCC HH	WQCC HH	--	--	WQCC Dom	WQCC Dom	WQCC HH
Area	Well ID	Date	Dup												
Evaporation Ponds	MW-86	Jun-20		544	**555**	**8.20**		<1.00		8.40	806	**4170**	**8130**	<0.0900
	MW-86	Oct-20		535	**671**	**6.03**		<0.0500		6.70	947	**3100**	**7830**	0.00261 J
	MW-87	Apr-21		649	**3420**	1.32		<0.0500		22.1	2640	**3780**	**13500**	
	MW-87	Sep-21												
	MW-87	Apr-22		602	**4040**	1.02		<0.0500		20.2	2430	**4760**	**12300 Q**	
	MW-87	Oct-22												
	MW-87	Mar-23		623	**3580**	**1.73**	<0.480		<0.420	20.7	2500	**4050**	**12300**	
	MW-87	Oct-23												
	MW-88	Apr-21		428	**1640**	1.16		<0.0500		3.22	1290	**2340**	**6300**	
	MW-88	Sep-21												
	MW-88	Apr-22		431	**1840**	**1.69**		<0.0500		3.17	1210	**2530**	**6020 Q**	
	MW-88	Oct-22												
	MW-88	Mar-23		402	**2040**	1.51	0.728 JB		<0.420	3.01	1610	**2920**	**6340**	
	MW-88	Oct-23		389						2.87 J	1480			
	MW-120	Apr-21		592	**1410**	**3.64**		<0.0500		2.28	1080	**2850**	**5450**	
	MW-120	Sep-21		607	**1330**	**3.75**		0.276		2.23	1300	**3010**	**7220**	
	MW-120	Apr-22		603	**1750**	**3.64**		0.0655 J		2.93	1190	**3080**	**6880**	
	MW-120	Oct-22		662 V	**2310**	**3.76**		0.166		3.17 J	1450 V	**2830**	**6060**	
	MW-120	Mar-23		548	**2160**	**2.89**	<0.480		<0.420	3.04	1290	**2410**	**7710**	
	MW-120	Oct-23		608	**1990**	**2.56**	1.01		<0.420	3.99	1300	**2210**	**6280**	
	MW-121	Apr-21		657	**1070**	**4.52**		0.0576 J		3.31	636	**2300**	**4360 J3**	
	MW-121	Sep-21		671	**987**	**4.75**		0.638		3.06	617	**2290**	**5430**	
	MW-121	Apr-22		651	**1030**	**5.18**		0.221		3.27	633	**2600**	**5160 Q**	
	MW-121	Oct-22		676	**1350**	**4.47**		0.536		3.80	680	**2200**	**4660**	
	MW-121	Mar-23		605	**1160**	**5.77**	0.951 J		<0.420	3.02	676	**2260**	**4810**	
	MW-121	Oct-23		597	**888**	**4.65**	1.59		<0.420	3.60	632	**2110**	**3980**	
	MW-122	Apr-21		357	**895**	**2.61**		0.0894 J		3.60	750	**1600**	**3300**	
	MW-122	Sep-21		395	**1450**	**1.74**		<0.0500		3.32	673	**2250**	**4240**	
	MW-122	Apr-22		350	**940**	**2.28**		0.0631 JP1		3.57	714	**1520**	**4090 Q**	
	MW-122	Oct-22		357	**980**	**1.89**		<0.0500		3.81	637	**1450**	**2830**	
	MW-122	Mar-23		508	**1650**	**3.11**	1.05		<0.420	4.06	1040	**2210**	**7010**	
	MW-122	Oct-23		391	**1120**	**1.61**	1.08		<0.420	3.96	708	**1470**	**3070**	
	MW-123	Apr-21		519	**1270**	0.938		<0.0500		3.54	970	**1780**	**3770**	
	MW-123	Sep-21		554	**1350**	0.968		<0.0500		3.16	981	**1820**	**5540**	
	MW-123	Apr-22		540	**1350 V**	0.897		<0.0500		3.68	1020	**1960 V**	**4990 Q**	
	MW-123	Oct-22		507 V	**1460**	1.01 J		<0.0500		2.87 J	1040 V	**2100**	**1810**	
	MW-123	Mar-23		503	**1370**	1.52	<0.480		<0.420	3.39	1070	**1890**	**4800 J3**	
	MW-123	Oct-23		519	**1170**	1.08 J	<0.480 Q[R]		<0.420 Q[R]	3.54	1040	**1640**	**5340 Q**	
	MW-124	Apr-21		792	**3080**	0.949		0.0985 J		6.88	1750	**3580**	**10500**	
	MW-124	Sep-21		799	**3280**	0.817		<0.0500		7.25	1740	**3890**	**10600**	
	MW-124	Apr-22		781	**3470**	1.58		0.147		6.60	1520	**4020**	**10600 Q**	
	MW-124	Oct-22		730	**3410**	1.26 J		<0.0500		6.02 J	1720	**3850**	**5340**	
	MW-124	Mar-23		746	**3100**	1.19 J	<0.480		<0.420	6.43	1690	**3430**	**10300**	
	MW-124	Oct-23		724	**3140**	1.17 J	1.33		<0.420	6.38 J	1730	**3440**	**11000**	
	OCD-1R	Apr-21		474	**1010**	**2.77**		0.335		2.92	834	**1800**	**4340**	
	OCD-1R	Sep-21		547	**1740**	**2.54**		<0.0500		3.15	1480	**4480**	**7020**	
	OCD-1R	Apr-22		471	**1190**	**2.52**		<0.0500		2.40	869	**2340**	**5500 Q**	
	OCD-1R	Oct-22		707	**2360**	**2.64**		<0.0500		4.08 J	1830	**3970**	**4400**	
	OCD-1R	Mar-23		562	**2390**	**2.98**	<0.480 Q		<0.420 Q	3.61	1850	**3120**	**7500**	
	OCD-1R	Oct-23		710	**1840**	**1.90**	<0.480		<0.420	4.17	1240	**2600**	**5170**	
	OCD-2A	Apr-21		592	**1150**	0.706		0.672		5.28	656	**1690**	**4070**	
	OCD-2A	Sep-21												
	OCD-2A	Apr-22		588	**1450**	0.709		0.177		5.40	810	**2070**	**5210 Q**	
	OCD-2A	Oct-22												
	OCD-2A	Mar-23		709	**1880**	0.763 J	<0.480		<0.420	5.41	1060	**2010**	**4660**	
	OCD-2A	Oct-23												
	OCD-3	Apr-21		398	**573**	0.887		0.149		7.28	447	**1480**	**2950**	
	OCD-3	Sep-21												
	OCD-3	Apr-22		402	**595**	0.809		0.113		7.11	420	**1500**	**3310 Q**	
	OCD-3	Oct-22												
	OCD-3	Mar-23		601	**1070**	1.26 J	<0.480 Q[R]		<0.420 Q [R]	8.36	546	**1720**	**3560**	
	OCD-3	Oct-23												
	OCD-4	Apr-21		858	**4670**	0.815		0.0991 J		36.1	2980	**3100**	**11600**	
	OCD-4	Sep-21												
	OCD-4	Apr-22		769	**4590**	0.390		0.0754 J		29.2	2430	**3260**	**11600 Q**	
	OCD-4	Oct-22												
	OCD-4	Mar-23		853	**5320**	**3.91 JB**	3.41 JBQ		**<2.10** Q	32.7	3250	**3240**	**11400**	
	OCD-4	Oct-23												
	OCD-5	Apr-21		851	**4420**	0.837		<0.0500		41.2	2980	**3030**	**11500**	
	OCD-5	Sep-21		898	**5170**	0.745		<0.0500		36.0	3550	**3300**	**13100**	
	OCD-5	Apr-22		787	**4820**	0.348		<0.0500		36.5	2530	**3320**	**12200 Q**	
	OCD-5	Oct-22		819 V	**5300**	0.885 J		<0.0500		31.7	3010 V	**3330**	**11000**	
	OCD-5	Mar-23		815	**4650**	**3.81 JB**	3.42 JBQ		**<2.10** Q	37.5	2840	**3230**	**10600**	
	OCD-5	Oct-23		833	**4560**	<0.640	1.10		<0.420	32.6	2690	**2730**	**10200**	
	OCD-6	Apr-21		925	**4320**	**2.19**		3.58		15.6	2770	**2650**	**7740**	
	OCD-6	Sep-21		979	**4590**	**2.06**		<0.0500		15.8	2910	**2720**	**12000**	
	OCD-6	Apr-22		890	**4860**	1.08		0.795		14.7	2220	**2920**	**11800 Q**	
	OCD-6	Oct-22		788 V	**4150**	**<6.40**		<0.0500		12.9	2360	**3240**	**9740**	
	OCD-6	Mar-23		913	**4510**	**2.81 B**	0.951 J		**2.00**	14.6	2460	**2760**	**12000**	
	OCD-6	Oct-23		894	**4620**	**2.26**	<0.480		<0.420	15.0	2600	**2670**	**8660 J3**	
	OCD-7AR	Apr-21		635	**2660**	**2.99**		1.95		6.42	2530	**3780**	**9800**	
	OCD-7AR	Sep-21		639	**2650**	**2.70**		<0.0500		5.57	2650	**3700**	**10600**	
	OCD-7AR	Apr-22		662	**2930**	**1.79**		0.242		6.09	2200	**4010**	**10400 Q**	
	OCD-7AR	Oct-22		662	**2970**	**<6.40**		<0.0500		6.81	2430	**4050**	**9300**	
	OCD-7AR	Mar-23		621	**2600**	**3.11 B**	0.792 J		**1.50**	5.46	2380	**3720**	**10800**	
	OCD-7AR	Oct-23		627 V	**2370**	**2.21**	<0.480		<0.420	6.30	2380	**3220**	**9240**	
	OCD-7B	Apr-17		564	**960**	1.05		<0.0197		11.0	629	**2100**	**4540**	
	OCD-7B	Apr-19		590	**874**	0.839		<0.0197		11.7	678	**2260**	**4760**	
	OCD-7B	Apr-21		590	**822**	0.950		<0.0500		11.6	680	**2170**	**4100**	
	OCD-7B	Mar-23		582	**903**	1.59 B	<0.480		0.493 J	11.1	689	**2220**	**5070**	
	OCD-8A	Apr-21		729	**4880**	**2.20**		<0.0500		9.88	3090	**4270**	**13700**	<0.00180
	OCD-8A	Sep-21		764	**5560**	**2.40**		<0.0500		11.7	3700	**4730**	**15600**	<0.00180
	OCD-8A	Apr-22		686	**5290**	**2.49**		0.0587 J		9.59	3660	**4900**	**13800 Q**	0.00362 J
	OCD-8A	Oct-22		688	**5000**	**2.30**		<0.0500		9.80 J	3060	**4740**	**12100**	<0.00180
	OCD-8A	Mar-23		674	**4490**	**2.13**	<0.480		<0.420	8.49	2950	**3750**	**14200**	<0.00180
	OCD-8A	Oct-23		659	**3500**	**2.71**	<0.480		<0.420	9.15 J	2530	**3710**	**11200**	<0.00180
	OCD-8B	Apr-17		660	**2030**	0.925		0.0320 J		9.07	1800	**2620**	**7390**	
	OCD-8B	Apr-19		715 V	**3230**	0.774		<0.0197		9.61	1490 V	**4950**	**7690**	
	OCD-8B	Apr-21		691	**2200**	0.744		<0.0500		9.76	1500	**2440**	**7480**	
	OCD-8B	Mar-23		689	**2480**	1.03 J	<0.480		<0.420	9.46	1490	**2430**	**7840**	

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Appendix B, Table B.5 - Summary of Groundwater Analytical Data - Water Quality and Cyanide

2023 Annual Groundwater Monitoring Report
HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	Water Quality Parameters										Cyanide
				Analyte	Calcium	Chloride	Fluoride	Nitrate	Nitrate/Nitrite	Nitrite	Potassium	Sodium	Sulfate	TDS	Cyanide
				CAS	7440-70-2	16887-00-6	16984-48-8	14797-55-8	NO3NO2	14797-65-0	7440-09-7	7440-23-5	14808-79-8	TDS	57-12-5
				Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL	--	250	1.60	10.0	10.0	1.00	--	--	600	1000	0.200
				CGWSL Source	--	WQCC Dom	WQCC HH	WQCC HH	WQCC HH	WQCC HH	--	--	WQCC Dom	WQCC Dom	WQCC HH
Area	**Well ID**	**Date**	**Dup**												
Field East of Refinery	KWB-1A	Oct-20		476	**266**	1.33		0.0862 J		0.994 JB	245	**2430**	**4320**	<0.00180
	KWB-1A	Oct-22		474	250	1.59		<0.0500		0.881 J	234	**2170**	**3360**	<0.00180
	KWB-1A	Mar-23		439	**254**	1.56	<0.480		<0.420	0.941 J	230	**2260**	**3670**	<0.00180
	KWB-1A	Oct-23		433	201	1.01 J	<0.480 Q		<0.420 Q	0.860 J	216	**1910**	**3100**	<0.00180
	KWB-1C	Apr-17		560	**508**	1.25		0.0350 JP1		1.36	267	**2860**	**5000**	
	KWB-1C	Apr-19		533	**317**	1.16		0.629		1.39	274	**2550**	**4680**	
	KWB-1C	Apr-21		488	**275**	1.15		0.0807 J		1.24 J	249	**2580**	**4490**	
	KWB-1C	Mar-23		441	**265**	1.16 J	<0.480		<0.420	1.13 J	229	**2310**	**4540**	
	KWB-7	Apr-21		251	**369**	0.710		0.109		0.376 J	269	349	**2000**	<0.0450
	KWB-7	Sep-21		371	**348**	0.736		<0.250		0.288 J	231	**1340**	**3020**	<0.0180
	KWB-7	Apr-22		239	**397 V**	0.883		<0.500		0.410 J	250	340 V	**1320**	<0.00900
	KWB-7	Oct-22		386	**404**	1.26 J		<0.250		0.287 J	265	**1270**	**2720**	<0.00180
	KWB-7	Mar-23		291	**398**	0.972	0.0650 JBQ		<0.0420 Q	0.358 J	244	538	**2020 J3**	<0.00900
	KWB-7	Oct-23		387	**291**	0.655 J	1.84		<0.420	0.304 J	210	**1200**	**2420 J3**	<0.00720
	KWB-8	Apr-17		237	**574**	0.623		0.0510 J		0.414 J	320	442	**2400**	<0.00180
	KWB-8	Oct-17		273	**913**	0.467		<0.985		0.411 J	462	417	**3270**	<0.00180
	KWB-8	Oct-20		301	**398**	0.694		<1.00		<0.534	546	**1660**	**4440**	<0.0180
	KWB-10R	Apr-17		134	230	1.57		<0.0197		0.521 J	131	0.475 J	**1130**	
	KWB-10R	Oct-17		138	186	1.39		0.440		0.453 J	123	3.08 J	**1080**	
	KWB-10R	Apr-18		138	183	1.35		0.0250 J		0.430 J	122	<0.0774	**1060**	
	KWB-10R	Oct-18		130	188	1.33		<0.0197		0.836 JB	110	<0.0774	**1040**	
	KWB-11A	Sep-21		385	**501**	0.822		<0.0500		0.676 J	270	**1110**	**3080**	<0.00180
	KWB-11A	Oct-22		410	**388**	1.00 J		<0.0500		0.642 J	266	**1390**	**2860**	<0.00180
	KWB-11A	Mar-23		367	**408**	1.50 JB	<0.480 Q		<0.420 Q	0.772 J	283	**1250**	**2620**	<0.00180
	KWB-11A	Oct-23		408	**340**	<0.640	1.15		<0.420	0.851 J	244	**1300**	**2910**	<0.00180
	KWB-11B	Apr-21		519	**313**	0.365		2.93		2.24	95.6	**1360**	**2810**	<0.00180
	KWB-11B	Sep-21		495	**367**	0.371		2.61		2.28	98.2	**1390**	**3000**	<0.00180 J6
	KWB-11B	Apr-22		405	**256**	0.365		2.60		2.36	78.0	**1420**	**2540**	<0.00180
	KWB-11B	Oct-22		499	**349**	0.832 J		2.08		2.09	106	**1470**	**2720**	<0.00180
	KWB-11B	Mar-23		497	**359**	<0.640	3.22		<0.420	2.37	103	**1410**	**2600**	<0.00180
	KWB-11B	Oct-23		501	**342**	<0.640	2.17		<0.420	2.28	109	**1430**	**2450**	<0.00180
	KWB-12A	Oct-20		541	129	0.537		6.85		1.07 JB	133	**2020**	**3520**	<0.00180
	KWB-12A	Sep-21		544	195 B	0.623		**10.6 V**		1.07 J	185	**2090**	**3960**	<0.00180
	KWB-12A	Oct-22		547	158	0.993 J		8.00		0.950 J	177	**1960**	**1790**	<0.00180
	KWB-12A	Oct-23		514	173	<0.640	6.46		<0.420	1.09 J	178	**1930**	**2990**	<0.00360
	KWB-12B	Apr-21		562	136	0.374		7.85		0.691 J	140	**2350**	**3890**	<0.00180
	KWB-12B	Apr-21	FD	556	121	0.394		8.05		0.669 J	143	**2070**	**3900**	<0.00180
	KWB-12B	Sep-21		553	204 B	0.419		**13.8**		0.653 J	172	**2050**	**4020**	0.00210 J
	KWB-12B	Sep-21	FD	545	201 B	0.413		**13.2**		0.618 J	165	**2090**	**3970**	<0.00180
	KWB-12B	Apr-22		550	132	0.825 J		6.75		0.695 J	143	**2700**	**3890**	<0.00180
	KWB-12B	Apr-22	FD	540	133	0.892 J		6.65		0.643 J	137	**2660**	**3930**	
	KWB-12B	Oct-22		539	174	0.969 J		**11.2**		0.581 J	165	**2030**	**2420**	<0.00180
	KWB-12B	Oct-22	FD	561	174	0.883 J		**11.3**		0.587 J	166	**2050**	**3590**	<0.00180
	KWB-12B	Mar-23		535	117	<0.640	3.96 Q		<0.420	0.717 J	146	**2050**	**3480**	<0.00180
	KWB-12B	Mar-23	FD	534	130	<0.640	7.19		<0.420	0.681 J	146	**2230**	**3290**	<0.00180
	KWB-12B	Oct-23		520	150	0.683 J	**10.4**		<0.420	0.613 J	160	**1980**	**2920**	<0.00360
	KWB-12B	Oct-23	FD	519	148	<0.640	9.14		<0.420	0.596 J	162	**1960**	**3040**	<0.00360
	KWB-P4	Apr-17												
	KWB-P4	Apr-19												
	KWB-P4	Apr-21												
	KWB-P4	Mar-23												
	MW-57	Oct-20		529	135	**1.99**		4.83		2.97	287	**2140**	**4040**	
	MW-57	Apr-21		460	210	**1.88**		7.90		1.50 J	265	**1910**	**3730**	
	MW-57	Sep-21		652	**496**	**3.42**		**34.2**		3.11	455	**3310**	**3170**	
	MW-57	Apr-22		436	**321**	**2.80**		3.10		2.13	319	**2270**	**3950**	
	MW-58	Oct-17		235	249	1.26		<0.0197		0.553 J	116	13.1	**1340**	<0.00180
	MW-58	Apr-18		215	207	1.37		<0.0985		0.290 J	98.5	2.59 J	**1250**	<0.00180
	MW-58	Oct-18		176	151	1.06		<0.394		1.20	74.3	56.9	**1040**	<0.00180 J3J6
	MW-58	Oct-19		229	**294**	1.33		<0.0197		2.06	70.3	1.49 JB	**1140**	<0.00180
	MW-111	Oct-18		203	**412**	1.46		<0.0197		0.588 JB	221	331	**1810**	
	MW-111	Apr-19		340	**375**	0.957		<0.0197		1.83	209	322	**2000**	
	MW-111	Oct-19		212	**429**	1.38		<0.0197		0.214 J	239	317	**2070**	
	MW-111	Jun-20		251	**409**	1.08		<0.0500		1.11 J	206	372	**1970**	
	MW-112	Nov-14		190	230	1.00		<0.0200		0.310 J	190	5.40	**1200**	
	MW-113	Apr-21		331	169 B	0.480		0.121		0.602 J	170	**956**	**2480**	
	MW-113	Apr-21	FD	318	185	0.554		<0.0500		0.519 J	155	**1130**	**2480**	
	MW-113	Sep-21		202	**348**	0.539		<0.0500		0.385 J	208	55.2	**1710**	
	MW-113	Sep-21	FD	200	**317 B**	0.537		<0.500		0.390 J	208	61.0	**1720**	
	MW-113	Apr-22		294	188	0.564		<0.0500		0.562 J	154	**996**	**2320**	
	MW-113	Apr-22	FD	278	177	0.511		<0.0500		0.471 J	149	**975**	**2370**	
	MW-113	Oct-22		231	**371**	0.630		<2.50		0.295 J	328	284	**2160**	
	MW-113	Oct-22	FD	225	**370**	0.616		**17.7**		0.231 J	318	370	**2090**	
	MW-113	Mar-23		273	216	0.541 B	<0.0480 Q[R]		<0.0420 Q [R]	0.421 J	171	**903**	**1910**	
	MW-113	Mar-23	FD	254	218	0.651 J	<0.480 Q[R]		<0.420 Q [R]	0.358 J	167	**862**	**2150**	
	MW-113	Oct-23		198	**343**	<0.640	0.503 J		<0.420	0.306 J	272	38.5 J	**1890**	
	MW-113	Oct-23	FD	204	**339**	<0.640	0.632 J		<0.420	0.314 J	279	36.7 J	**1890**	
	MW-125	Apr-21		549	**261 B**	0.983		0.155		1.36 J	224	**2300**	**4440**	
	MW-125	Sep-21		519	**271 B**	1.06		0.0618 J		1.32 J	213	**2210**	**4370**	
	MW-125	Apr-22		473	**273**	1.07		<0.0500		1.19 J	189	**2360**	**3330 Q**	
	MW-125	Oct-22		486	**261**	1.42 J		<0.0500		1.06 J	206	**2100**	**7840**	
	MW-125	Mar-23		466 V	**252**	1.28 J	<0.480 Q		<0.420 Q	1.21 J	190	**2140**	**3500**	
	MW-125	Oct-23		500	241	1.14 J	<0.480		0.579 J	1.26 J	199	**2150**	**4020**	
	MW-126A	Apr-19		382	191	0.757		<0.0197		0.547 JB	138	**1350**	**2540**	
	MW-126A	Oct-19		325	136	0.937		<0.0197 J5		0.670 J	152	**1330**	**2330**	
	MW-126A	Jun-20		357	198	0.869		<0.0500		<0.534	152	**1590**	**2680**	
	MW-126A	Oct-20		396	210	0.706		<0.0500		<0.534	189	**1510**	**3150**	
	MW-126B	Apr-21		552	243	0.739		0.509		2.31	202	**2210**	**4080**	
	MW-126B	Sep-21		539	249 B	0.712		0.399		2.28	198	**2010**	**4020**	
	MW-126B	Apr-22		516	**275**	1.19 J		0.423		2.25	201	**2410**	**3980**	
	MW-126B	Oct-22		532	**260**	1.24 J		0.371		2.17	207	**1950**	**3970**	
	MW-126B	Mar-23		497	**258**	<0.640	0.683 J		<0.420	2.23	196	**2060**	**3690**	
	MW-126B	Oct-23		522	**255**	0.861 J	1.79 Q		<0.420 Q	2.25	192	**1760**	**3220**	
	MW-127	Oct-17		262	231	0.993		0.146		1.46	142	**776**	**1970**	
	MW-127	Apr-18		245	225	0.997		<0.0985		0.279 J	148	**677**	**2010**	
	MW-127	Oct-18		240	219	0.979		<0.0197		1.29 JB	135	**670**	**1940**	
	MW-127	Apr-19		267	208	0.855		<0.0197		0.438 JB	163	**612**	**1990**	
	MW-128	Oct-17		186	200	1.29		<0.0197		0.354 JB	107	248	**1370**	
	MW-128	Apr-18		181	175	1.23		<0.0197		0.764 J	115	207	**1280**	
	MW-128	Oct-18		161 V	170	1.13		0.0230 JJ6		0.412 J	97.3 O1V	147	**1650**	
	MW-128	Apr-19		181	173	1.06		<0.0197		0.725 J	115	126	**1300**	
	MW-129	Apr-15		192	**302**	0.900		<0.200		0.530 J	195	69.4	**1330**	
	MW-129	Oct-15		169	**313**	1.08		<0.197		0.315 J	194	57.8	**1280**	
	MW-129	Apr-17		163	**300**	1.02		<0.197 J5		0.334 J	199	44.1	**1250**	
	MW-129	Apr-18		162	**282**	1.04		<0.0197		0.251 J	201	52.6	**1270**	

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Appendix B, Table B.5 - Summary of Groundwater Analytical Data - Water Quality and Cyanide

2023 Annual Groundwater Monitoring Report
HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	Water Quality Parameters										Cyanide
				Analyte	Calcium	Chloride	Fluoride	Nitrate	Nitrate/Nitrite	Nitrite	Potassium	Sodium	Sulfate	TDS	Cyanide
				CAS	7440-70-2	16887-00-6	16984-48-8	14797-55-8	NO3NO2	14797-65-0	7440-09-7	7440-23-5	14808-79-8	TDS	57-12-5
				Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL	--	250	1.60	10.0	10.0	1.00	--	--	600	1000	0.200
				CGWSL Source	--	WQCC Dom	WQCC HH	WQCC HH	WQCC HH	WQCC HH	--	--	WQCC Dom	WQCC Dom	WQCC HH
Area	**Well ID**	**Date**	**Dup**												
Field East of Refinery	MW-130	Apr-21		423	156 B	0.718		1.24		4.08	302	**874**	**2490**	
	MW-130	Sep-21		278	136	0.710		0.813		1.44 J	271	**877**	**2350**	
	MW-130	Apr-22		236	145	0.768		0.465		0.875 J	280	**885 V**	**1780 J3**	
	MW-130	Oct-22		242	141	0.951		0.358		1.14 J	264	**807**	**1800 J3**	
	MW-130	Mar-23		229	142	0.885	0.199		<0.0420	1.06 J	268	<0.594	**1700**	
	MW-130	Oct-23		229	150	0.732	0.711		0.0697 J	0.674 J	269	**679**	**1890**	
	MW-131	Apr-17		151	**285**	0.773		<0.197		0.275 J	153	10.3	**1230**	
	MW-131	Oct-17		149	**284**	0.807		<0.0197		0.200 J	149	15.5	**1290**	
	MW-131	Oct-19		145	**288**	0.845		<0.0197		0.251 J	150	19.7	**1210**	
	MW-131	Jun-20		153	**283**	0.865		<0.0500		<0.534	163	24.7	**1270**	
	MW-133	Nov-14		200	170	1.10		<0.0200		0.460 J	140	140	**1300**	
	MW-133	Apr-15		163	174	1.19		<0.200		0.323 J	122	116	**1190**	
	MW-134	Apr-21		540	**295 B**	0.959		1.17		1.77 J	269	**2610**	**4870**	
	MW-134	Apr-21	FD	513	**335**	1.45 J		1.09		1.64 J	241	**2780**	**4820**	
	MW-134	Sep-21		503	**324**	0.905		5.94		1.44 J	248	**2820**	**4900**	
	MW-134	Sep-21	FD	513	**313 B**	1.06		0.586		1.43 J	255	**2620**	**4800**	
	MW-134	Apr-22		488	**314**	1.11		0.697		1.80 J	235	**2700**	**4470**	
	MW-134	Apr-22	FD	461	**289**	0.935		0.676		1.62 J	224	**2610**	**3750**	
	MW-134	Oct-22		484	**305**	1.42 J		0.504		1.39 J	242	**2450**	**4070**	
	MW-134	Oct-22	FD	500	**302**	1.39 J		0.585		1.46 J	247	**2410**	**4380**	
	MW-134	Mar-23		503	**307**	1.53	2.27		<0.420	1.55 J	242	**2550**	**4300**	
	MW-134	Mar-23	FD	473	**307**	0.920 J	3.06		<0.420	1.43 J	233	**2550**	**4050**	
	MW-134	Oct-23		493	**305**	1.01 J	2.15 Q		<0.420 Q	1.63 J	237	**2360**	**3520 J3**	
	MW-134	Oct-23	FD	490	**297**	1.19 J	2.74		<0.420	1.53 J	232	**2300**	**3910**	
	MW-135	Apr-21		527	**440**	1.16		7.25		0.832 J	606	**3070**	**5550**	
	MW-135	Sep-21		538	**514**	1.24		**11.9**		0.875 J	560	**2960**	**5640**	
	MW-135	Apr-22		548	**579**	1.14		**12.7**		0.816 J	580	**3410**	**5600**	
	MW-135	Oct-22		538	**570**	1.41 J		**10.1**		0.684 J	621	**2830**	**4790**	
	MW-135	Mar-23		543	**532**	1.25 J	7.87		<0.420	0.860 J	600	**2810**	**4790**	
	MW-135	Oct-23		568	**568**	1.08 J	8.08		<0.420	0.854 J	568	**2300**	**3780**	
	MW-145	Apr-21			**334**	1.20						**2560**	**4920**	
	MW-145	Sep-21			**369**	1.11						**2640**	**4910**	
	MW-145	Apr-22		542	**383 B**	1.19				1.38 J	240	**2990**	**4640**	
	MW-145	Oct-22		574	**377**	1.55				1.17 J	247	**2400**	**4070**	
	MW-145	Mar-23		548	**372**	**1.73 B**				1.24 J	261	**2720**	**4580**	
	MW-145	Oct-23		569	**353**	1.21 J				1.38 J	239	**2810**	**2990**	
	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-146	Apr-22		498	**300 B**	1.21				1.45 J	235	**3340**	**5010**	
	MW-146	Apr-22	FD	502	**300 B**	1.15				1.34 J	232	**3280**	**5270 Q**	
	MW-146	Oct-22		548	**298**	1.58				1.25 J	262	**2670**	**4630**	
	MW-146	Oct-22	FD	542	**302**	1.59				1.33 J	263	**2660**	**4540**	
	MW-146	Mar-23		509	**279**	**1.82 B**				1.39 J	251	**2880**	**3860**	
	MW-146	Mar-23	FD	518	**272**	**1.87 B**				1.45 J	260	**2920**	**4510**	
	MW-146	Oct-23		513	**296**	1.24 J				1.38 J	246	**2940**	**3270**	
	MW-146	Oct-23	FD		**292**	1.18 J						**2700**	**4870**	
	MW-147	Apr-21			**475**	0.791						**2730**	**5340**	
	MW-147	Sep-21			**484**	**1.80**						**3420**	**6460**	
	MW-147	Apr-22		560	**499**	0.925				0.804 J	460	**3230**	**5170**	
	MW-147	Oct-22		572	**583**	**1.98**				0.726 J	672	**2990**	**4950**	
	MW-147	Mar-23		568	**431**	**1.79 B**				0.742 J	442	**2780**	**4010**	
	MW-147	Oct-23		581	**404**	**2.16**				0.589 J	351	**2870**	**2710**	
	MW-148	Apr-21			**255**	1.06						**2110**	**4190**	
	MW-148	Sep-21			**270**	1.07						**1890**	**3660**	
	MW-148	Apr-22		582	**291 B**	1.55				9.47	211	**2390**	**4100**	
	MW-148	Oct-22		569	243	1.53				4.94	166	**1780**	**3270**	
	MW-148	Mar-23		593	**322**	**2.29 B**				9.57	222	**2120**	**3630**	
	MW-148	Oct-23		573	**270**	**2.02**				7.90	180	**1970**	**2710**	
	RA-4196	Jun-20		365	126	0.324		<0.0500		2.17	90.1	**1330**	**2290**	
	RA-4196	Oct-20		382	123	0.348		0.842 J6		2.36	98.7	**1250**	**2340**	
	RA-4196R	Mar-23		387	147	0.697 J	2.21 Q		<0.420 Q	2.18	103	**1180**	**1950**	
	RA-4196R	Oct-23		372	147	<0.640	2.67		<0.420	2.09	98.6	**1060**	**2050**	
	RA-4798	Oct-20		356	104	0.358		1.18		2.36	87.6	**1080**	**2200**	
	RA-4798	Apr-21		424	122	0.347		1.49		2.45	106	**1410**	**2510**	
	RA-4798	Sep-21		461	171	0.281		1.05		2.29	126	**1660**	**2830**	
	RA-4798	Apr-22		236	65.3	0.386		0.811		2.04	41.2	**781**	**1330**	
	RW-12R	Apr-17		392	189	0.623		<0.197		0.293 J	152	**1740**	**2420 J3**	
	RW-12R	Apr-18		378	155	0.700		<0.0197		0.220 J	171	**1400**	**2400**	
	RW-12R	Apr-19		369 V	154	0.609		<0.0394		0.408 JB	164 V	**1180**	**2450**	
	RW-12R	Jun-20		337	143	0.716		<0.0500		<0.534	158	**1300**	**2750**	
	RW-13R	Apr-18		242	207	0.650		0.0260 JP1		0.378 J	183	525	**1700**	
	RW-13R	Mar-23		191	243	1.18	<0.0480 Q		<0.0420 Q	0.628 J	158	131	**1350**	
	RW-18A	Apr-18		491	206	**1.82**		0.408		0.832 J	132	**2750**	**3940**	
	RW-18A	Apr-19		549	199	**1.94**		0.286		0.832 J	130	**2390**	**3970**	
	RW-18A	Jun-20		515	211	**2.03**		0.460		0.990 J	120	**2490**	**4280**	
	RW-18A	Mar-23		500	**254**	**1.90**	1.83		<0.420	0.809 J	126	**2190**	**4360**	
	RW-20	Apr-15		228	**256**	0.530		<0.200		<0.180	228	125	**1430**	
	RW-22	Apr-15		184	**402**	0.860		<0.200		0.319 J	274	78.4	**1680**	
NCL	MW-18	Jun-20		421	154	**1.61**		**18.3**		1.66 J	58.7	**1510**	**2870**	<0.00180
	MW-18	Apr-21		393	206	**1.64**		9.30		1.56 J	63.7	**1150**	**2170**	<0.00180
	MW-18	Apr-22		367	216	1.34		**11.7**		1.61 JB	58.1	**1200**	**2390**	<0.00180
	MW-18	Mar-23		400	200	**1.63**	**10.8 Q**		<0.420	1.72 J	60.3	**1120**	**2200**	<0.00360
	MW-45	Apr-21		603	**372**	**1.97**		0.0756 J		4.42	375	**2450**	**3680**	<0.0180
	MW-45	Sep-21		548	**334**	1.34		<0.0500		4.12	339	**2110**	**4010**	<0.00180
	MW-45	Apr-22		534	**338**	1.34		<0.0500		3.45	324	**2350**	**4330 Q**	<0.00180
	MW-45	Oct-22		511	**291**	1.15 J		<0.0500		4.03	327	**2150**	**3400**	<0.00180
	MW-45	Mar-23		525	**338**	**1.86 B**	0.654 JBQ		0.508 JQ	4.23	341	**2230**	**4050**	<0.00180
	MW-45	Oct-23		489	**279**	1.40 J	<0.480		<0.420	4.18	329	**2130**	**4070**	<0.00180
	MW-53	Apr-15		348	**1010**	0.922		**34.5**		1.16	104	**1290**	**2810 J**	
	MW-53	Apr-17		340	222	0.904		**15.6**		1.12	130	**1330**	**2290**	
	MW-53	Apr-18		315	72.9	1.13		1.58 J6		1.12 B	118	**1250**	**1860**	
	MW-53	Apr-19		259	59.6	1.30		0.290		1.17	88.4	**1100**	**1880**	
	MW-53R	Oct-20		298	66.7	1.11		<0.0500		4.08	69.1	**955**	**1920**	
	MW-53R	Apr-21		312	64.8	1.29		0.132		2.37	78.2	**1110**	**1870**	
	MW-53R	Apr-22		288	64.7	1.27		<0.0500		2.12 B	74.7	**1140**	**1710**	
	MW-53R	Mar-23		295	66.5	**1.87 B**	1.23		<0.420	1.88 J	75.7	**1030**	**1760**	
	MW-54A	Apr-21		414	217	0.969		0.115		0.355 J	64.3	**916**	**1940**	
	MW-54A	Sep-21		410	221	1.03		<0.0500		0.319 J	61.1	**923**	**2300**	
	MW-54A	Apr-22		407	241	0.816		0.0516 J		0.414 JB	62.4	**1100**	**2300**	
	MW-54A	Oct-22		436	244	1.39 J		0.389		0.313 J	69.7	**1160**	**2270**	
	MW-54A	Mar-23		431	231	0.890	0.369 BQ		<0.0420 Q	0.390 JB	67.7	**1130**	**2310**	
	MW-54A	Oct-23		478	230	1.03 J	<0.480		0.572 J	0.353 J	73.5	**1260**	**2880**	

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Appendix B, Table B.5 - Summary of Groundwater Analytical Data - Water Quality and Cyanide

2023 Annual Groundwater Monitoring Report
HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	Water Quality Parameters										Cyanide
				Analyte	Calcium	Chloride	Fluoride	Nitrate	Nitrate/Nitrite	Nitrite	Potassium	Sodium	Sulfate	TDS	Cyanide
				CAS	7440-70-2	16887-00-6	16984-48-8	14797-55-8	NO3NO2	14797-65-0	7440-09-7	7440-23-5	14808-79-8	TDS	57-12-5
				Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL	--	250	1.60	10.0	10.0	1.00	--	--	600	1000	0.200
				CGWSL Source	--	WQCC Dom	WQCC HH	WQCC HH	WQCC HH	WQCC HH	--	--	WQCC Dom	WQCC Dom	WQCC HH
Area	**Well ID**	**Date**	**Dup**												
NCL	MW-54B	Apr-17		317	127	0.617		0.100 J		1.18	54.5	**1040**	**1840**	
	MW-54B	Apr-19		319	140	0.634		0.0410 J		0.811 J	50.5	**818**	**1870**	
	MW-54B	Apr-21		458	205	0.654		0.0845 J		1.47 J	69.9	**1320**	**2290**	
	MW-54B	Mar-23		473	214	<0.640	2.82		<0.420	1.51 JB	86.8	**1490**	**2900**	
	MW-55	Apr-21		293	**463**	**1.62**		0.0762 J		0.683 J	244	**781**	**2130**	<0.00180
	MW-55	Sep-21		282	**448**	1.58		<0.0500		0.644 J	199	**770**	**2520**	<0.00180
	MW-55	Apr-22		232	**408**	1.20		0.0550 J		0.640 JB	228	**685**	**2120**	<0.00180
	MW-55	Oct-22		291	**348**	1.44 J		<0.0500		0.679 J	191	**1020**	**2230**	<0.00180
	MW-55	Mar-23		248	**391**	1.36	<0.0480		<0.0420	0.577 J	219	**646**	**1930**	<0.00180
	MW-55	Oct-23		228	**315**	1.15	0.669		<0.0420	0.575 J	244	**638**	**1920**	<0.00180
	MW-56	Jun-20		496	219	1.08		<0.0500		1.70 J	142	**1990**	**3520**	
	MW-56	Apr-21		484	211	1.19		0.252		1.80 J	140	**1740**	**2860**	
	MW-56	Apr-22		388	193	1.15		<0.0500		1.55 J	121	**1400**	**2020**	
	MW-56	Mar-23		324	128	1.23	0.610 Q		<0.0420 Q	1.31 J	104	**1100**	**2270**	
	MW-108	Apr-21		209	27.0	**1.66**		<0.0500		0.412 J	64.6	**718**	**1610**	
	MW-108	Sep-21		308	40.3	**1.90**		<2.50		0.801 J	63.0	**963**	**2190**	
	MW-108	Apr-22		190	29.7	1.30		<1.00		0.593 JB	48.7	**737**	**1540**	
	MW-108	Oct-22		234	29.7	**1.81**		<2.50		0.472 J	49.3	**881**	**1750**	
	MW-108	Mar-23		238	146	1.08	<0.0480		<0.0420	0.484 J	45.4	105	**1750**	
	MW-108	Oct-23		252	27.3	0.817 J	0.738 J		<0.420	0.479 J	46.9	**829**	**1970**	
	NCL-31	Apr-21		251	45.1	**1.62**		0.118		0.539 J	70.8	**1100**	**1890**	
	NCL-31	Sep-21		206	50.2	**1.67**		<0.0500		0.346 J	43.1	**828**	**1680**	
	NCL-31	Apr-22		199	32.7	1.34		<0.0500		0.563 JB	33.4	**966**	**1610**	
	NCL-31	Oct-22		212	31.0	**1.73**		<0.0500		0.280 J	32.1	**895**	**1500**	
	NCL-31	Mar-23		190	27.6	1.25	<0.0480		<0.0420	0.266 J	30.3	**723**	**1320**	
	NCL-31	Oct-23		176	48.4	1.31	<0.0480		<0.0420	0.265 J	27.7	597	**1800**	
	NCL-32	Apr-21		511	87.3	1.47		6.30		3.79	113	**1670**	**2490**	
	NCL-32	Sep-21		453	92.6	1.45		4.59		3.39	98.0	**1650**	**2920**	
	NCL-32	Apr-22		454	99.8	1.21		2.89		3.71	101	**1780**	**2720**	
	NCL-32	Oct-22		513	204	1.51		0.855		3.51	111	**1750**	**2730**	
	NCL-32	Mar-23		500	181	1.04 J	2.45		<0.420	3.57	108	**1660**	**2780**	
	NCL-32	Oct-23		526	139	1.28 J	5.40		<0.420	3.45	107	**1810**	**3270**	
	NCL-33	Apr-21		678	**790**	**2.72**		0.0825 J		4.74	273	**1330**	**3420**	
	NCL-33	Sep-21		548	**647**	**2.90**		<0.0500		6.37	254	**1340**	**3690**	
	NCL-33	Apr-22		581 V	**794**	**2.28**		0.106		4.50	290 V	**1370**	**3930 Q**	
	NCL-33	Oct-22		542	**607**	**2.55**		<0.0500		4.55	279	**1100**	**3230 Q**	
	NCL-33	Mar-23		511	**570**	**2.79 B**	<0.480		<0.420	6.17	284	**1310**	**3190**	
	NCL-33	Oct-23		526	**589**	1.45 J	1.62		<0.420	5.93	314	**1170**	**3460**	
	NCL-34A	Oct-18		270	**289**	1.21 J3J5		<0.394		1.25	111	117	**1710**	
	NCL-34A	Apr-19		251 V	**262**	1.37		<0.394		1.11	107 V	42.6	**1370**	
	NCL-34A	Oct-19		235	245	1.38		0.110		1.15	116	119	**1470**	
	NCL-34A	Jun-20		283	**260**	1.31		<5.00		1.13 J	104	234	**1680**	
	NCL-44	Apr-21		362	121	**1.80**		0.114		2.27	146	**1200**	**2180**	
	NCL-44	Sep-21		334	125	**1.84**		<0.0500		2.12	136	**1170**	**2550**	
	NCL-44	Apr-22		332	118	**1.64**		0.0656 J		2.17 B	145	**1380**	**1870**	
	NCL-44	Oct-22		338	123	**2.05**		<0.0500		2.05	154	**1270**	**2150**	
	NCL-44	Mar-23		345	97.6	1.52	<0.480		<0.420	2.36	150	**1250**	**2330**	
	NCL-44	Oct-23		357	95.9	**1.66**	4.04		<0.420	2.11	164	**1380**	**2610**	
	NCL-49	Apr-21		501	115	0.692		6.70		0.786 J	154	**1970**	**2930**	
	NCL-49	Apr-21	FD	491	118	0.645		7.30		0.706 J	149 V	**2030**	**2910**	
	NCL-49	Sep-21		491	105	0.697		**13.3**		0.726 J	140	**1980**	**3400**	
	NCL-49	Sep-21	FD	483	105	0.704		**13.3**		0.710 J	140	**1970**	**3340**	
	NCL-49	Apr-22		473	128	0.794		**14.1**		0.661 JB	148	**2230**	**2600**	
	NCL-49	Apr-22	FD	473	126	0.820		**14.7**		0.790 JB	150	**2170**	**2370**	
	NCL-49	Oct-22		514	181	0.781 J		**13.2**		0.700 J	158	**2080**	**3040**	
	NCL-49	Oct-22	FD	472	182	0.781 J		**12.8**		0.704 J	155	**2080**	**2980**	
	NCL-49	Mar-23		503	189	1.51	**12.3 Q**		<0.420 Q	0.643 JB	161	**1920**	**3130 J3**	
	NCL-49	Mar-23	FD	496	189	1.21 JB	**11.4 Q**		<0.420 Q	0.571 JB	160	**1970**	**3810**	
	NCL-49	Oct-23		550	160	0.783 J	**17.3**		0.561 J	0.707 J	168	**2150**	**2560**	
	NCL-49	Oct-23	FD	556	161	0.847 J	**17.2**		0.518 J	0.705 J	167	**2180**	**3640**	
North Refinery	MW-23	Apr-19		97.5	**444**	**1.70**		<0.0197		1.12	482	18.9	**2000**	
	MW-23	Oct-19		95.6	**428**	1.59		<0.0197		1.27	410	18.7	**2020**	
	MW-23	Jun-20		96.4	**410**	1.42		<0.500		1.10 J	426 V	15.6	**1970**	
	MW-23	Oct-20		96.8	**408**	1.19		<0.0500		1.29 J	459	7.39	**1990**	
	MW-29	Apr-21		379	**457**	**1.83**		0.105		2.06	330	**1580**	**3730**	
	MW-29	Sep-21		590	**502**	1.47		0.0504 J		2.77	328	**2170**	**4180**	
	MW-29	Apr-22		378	**571**	**1.68**		<0.0500		2.14	317	**1720**	**3190**	
	MW-29	Oct-22		461	**631**	**1.62**		<0.0500		2.52	358	**1670**	**3130**	
	MW-29	Mar-23		421	**580**	**1.94 B**	0.694 JBQ		0.596 JQ	2.21	365	**1730**	**3800**	
	MW-29	Oct-23		388	**528**	0.970 J	<0.480 T8[R]		<0.420 T8[R]	1.94 J	381	**1100**	**3490 J3**	
	MW-39	Apr-19		52.6	111	**4.21**		<0.0197		0.164 J	891	**1000**	**2580**	
	MW-39	Oct-19		45.8	86.8	**4.26**		<0.0197		0.245 J	771	**929**	**2590**	
	MW-39	Jun-20		61.8	97.7	**3.45**		<0.0500		<0.534	721	**821**	**2410**	
	MW-39	Oct-20		63.8	91.5	**3.28**		<0.0500		<0.534	655	**686**	**2260**	
	MW-40	Apr-17		474	156	**1.76**		<0.197		1.62	110	**1550**	**3190**	
	MW-40	Apr-18		425	141	**1.80**		<0.985		1.41	107	**1440**	**2390**	
	MW-40	Apr-19		450	106	1.52		<0.394		1.39	107	**1400**	**2600 J3**	
	MW-40	Jun-20		374	88.4	**1.88**		<0.500		1.30 J	90.4	**1380**	**2430**	
	MW-41	Apr-18		329	**682**	0.934		<0.0197		0.571 J	624	**1500**	**4060**	
	MW-41	Apr-19		238	**721**	0.884		<0.394		0.590 J	624	**1140**	**4110**	
	MW-41	Jun-20		282	**875**	1.00		<0.0500		0.653 J	828	**1780**	**4930**	
	MW-41	Apr-21		274	**856**	1.02		0.117		0.586 J	812	**1590**	**5010**	
	MW-42	Apr-19		233	**319**	0.780		<0.394		0.449 J	425	**1010**	**2590**	
	MW-42	Jun-20		246	**336**	0.851		<2.50		<0.534	358	**1020**	**3310**	
	MW-42	Apr-21		314	**585**	0.869		0.0775 J		0.397 J	452	**1290**	**3870**	
	MW-42	Apr-22		265	**699**	0.722		**14.7**		0.452 J	425	**1120**	**3770 Q**	
	MW-43	Apr-19		152	**639**	**1.71**		<0.394		0.923 J	491	444	**2610**	<0.0180
	MW-43	Oct-19		205	**662**	**1.66**		<0.985		0.961 J	406	479	**2120**	<0.0180 J4
	MW-43	Jun-20		141	**547**	1.36		<0.250		0.828 J	341	198	**2210**	<0.0360
	MW-43	Oct-20		141	**550**	1.09		<0.0500		0.896 J	350	102	**2150**	<0.0180
	MW-59	Apr-17		467	184	1.13		<0.197		0.519 J	134	**1870**	**3160**	
	MW-59	Apr-18		492	180	1.31		<0.0197 J6		0.507 J	151	**1680**	**2760**	
	MW-59	Apr-19		475	173	1.10		<0.0197		0.468 J	153	**1400**	**3110**	
	MW-59	Jun-20		366	201	1.33		<0.0500		<0.534	184	**1340**	**2900**	
	MW-60	Jun-20		418	206	0.778		<2.50		<0.534	178	**1770**	**3720**	<0.0360
	MW-60	Jun-20	FD	424	219	1.18 J		<0.500		<0.534	176	**1660**	**3790**	<0.0360
	MW-60	Oct-20		418	202	0.715		0.203		<0.534	189	**1510**	**3560**	<0.0180
	MW-60	Oct-20	FD	401	219	1.21 J		<0.0500		<0.534	190	**1780**	**3660**	<0.0180
	MW-61	Apr-21		250	**339**	0.906		<0.500		0.637 J	273	475	**2140**	
	MW-61	Sep-21		225	**312**	0.933		<2.50		0.635 J	231	327	**2040**	
	MW-61	Apr-22		266	**352**	1.02		<2.50		0.788 J	243	500 J	**1770**	
	MW-61	Oct-22		279	**387**	1.18		<2.50		0.836 J	270	576	**1880**	
	MW-61	Mar-23		325	**365**	1.33 J	0.642 J		0.657 J	1.17 J	288	**784**	**2450**	
	MW-61	Oct-23		299	**483**	0.789 J	<0.480		<0.420	0.819 J	277	523	**2350**	

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Appendix B, Table B.5 - Summary of Groundwater Analytical Data - Water Quality and Cyanide

2023 Annual Groundwater Monitoring Report
HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	Water Quality Parameters										Cyanide
				Analyte	Calcium	Chloride	Fluoride	Nitrate	Nitrate/Nitrite	Nitrite	Potassium	Sodium	Sulfate	TDS	Cyanide
				CAS	7440-70-2	16887-00-6	16984-48-8	14797-55-8	NO3NO2	14797-65-0	7440-09-7	7440-23-5	14808-79-8	TDS	57-12-5
				Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL	--	250	1.60	10.0	10.0	1.00	--	--	600	1000	0.200
				CGWSL Source	--	WQCC Dom	WQCC HH	WQCC HH	WQCC HH	WQCC HH	--	--	WQCC Dom	WQCC Dom	WQCC HH
Area	**Well ID**	**Date**	**Dup**												
North Refinery	MW-62	Oct-20		304	**296**	1.08		<0.0500		1.11 JB	241	531	**2370**		
	MW-62	Sep-21		376	**386**	1.03		<2.50		1.07 J	225	**703**	**2750**		
	MW-62	Apr-22		394	**317**	1.16		<1.00		1.10 J	232	**855**	**2150** J3		
	MW-62	Oct-22		300	**364**	1.22		<2.50		1.06 J	236	426	**1790**		
	MW-62R	Apr-21		183	**280**	1.02		<0.0500		1.00 J	116	2.65 J	**1340**		
	MW-62R	Apr-22		212	**287**	0.736		<1.00		0.822 J	171	120	**1560** J3		
	MW-62R	Mar-23		196	**338**	0.900	<0.0480		<0.0420	0.758 J	229	111	**1610**		
	MW-67	Oct-17		207	**305**	0.568		<0.0985		0.500 JB	200	388	**1740**		<0.00180
	MW-67	Apr-18		220	**328**	0.636		<0.197		0.573 JB	245	404	**1660**		<0.180
	MW-67	Oct-18		240	221	0.611		<0.0197		0.636 J	202	493	**1580**		<0.00180
	MW-67	Apr-19		202	**302**	0.637		<0.0197		0.538 J	225	447	**1630**		<0.00180
	MW-90	Apr-21		314	230	1.06		<0.0500		0.760 J	170	**1250**	**2960**		
	MW-90	Sep-21		452	163	**3.03**		<1.00		1.75 J	133	**2330**	**4090**		
	MW-90	Apr-22		290	**265**	**1.78**		<1.00		0.993 J	177	**1570**	**3020**		
	MW-90	Oct-22		319	**262**	**1.89**		<2.50		1.09 J	185	**1430**	**2620**		
	MW-90	Mar-23		299	**251**	**2.06 B**	0.705 JBQ		<0.420 Q	1.06 JB	179	**1570**	**2650**		
	MW-90	Oct-23		329	**294**	1.27 J	0.767 J		<0.420	1.08 J	188	**1350**	**3110**		
	MW-91	Oct-18		433	221	1.27		<0.985		0.639 J	35.2	**966**	**2820**		
	MW-91	Apr-19		460	**295**	1.27		<1.97		0.468 J	38.9	**915**	**3290**		
	MW-91	Oct-19		451	**422**	1.29		<0.197		0.520 J	39.6	**1020**	**2430**		
	MW-91	Jun-20		478	**501**	1.19		<10.0		<0.534	36.7	**813**	**2830**		
	MW-93	Apr-17		489	192	**2.38**		<0.197		2.97	167	**1430**	**2930**		
	MW-93	Apr-18		537	193	**2.39**		<0.197		3.55	191	**1400**	**2760**		
	MW-93	Apr-19		505	214	**2.09**		0.0220 J		3.76	195	**1400**	**2810**		
	MW-93	Jun-20		491	233	**1.88**		<2.50		3.11	163	**1070**	**2820**		
	MW-94	Nov-14		190	230	0.590		<0.0200		0.580 J	370	240	**2600**		
	MW-94	Oct-15		109	245	1.01		<0.197		0.224 J	355	75.8	**2530**		
	MW-94	Apr-17		95.6	196	0.874		<0.197		0.331 J	427	85.7	**2660**		
	MW-95	Apr-17		203 V	**349**	0.868		<0.197		0.730 J	194 V	420	**1710**		
	MW-95	Apr-18		229	**258**	0.884		<0.0197		0.602 J	163	471	**1770**		
	MW-95	Apr-19		246	**264**	0.830		<0.0197		0.472 J	172	561	**2020**		
	MW-95	Jun-20		250	**300**	0.739		<0.0500		<0.534	151	**682**	**2020**		
	MW-96	Sep-21		207	129	1.37		<0.500		1.29 J	193	422	**1800**		
	MW-96	Apr-22		133	149	1.27		<1.00		1.16 J	195	104	**1430 Q**		
	MW-96	Oct-22		167	154	1.41		<2.50		1.10 J	205	191	**1340**		
	MW-96	Mar-23		148	146	1.04 J3	<0.0480		0.200 J5P1	0.982 J	209	117	**1340**		
	MW-96	Oct-23		159	153	1.04 J	1.25		<0.420	1.12 J	207	196	**1410**		
	MW-98	Apr-21		580	195	1.58		**<50.0**		0.219 J	166	**1390**	**3380**		
	MW-98	Sep-21		510	177	1.56		<2.50		0.284 J	175	**1320**	**3220**		
	MW-98	Apr-22		484	187 B	**1.70**		<2.50		0.222 J	156	**1590**	**3190 Q**		
	MW-98	Oct-22		536	90.4	**2.14**		<2.50		0.323 J	145	**1410**	**2190**		
	MW-98	Mar-23		493	73.7	**2.22**	<0.480 Q		<0.420 Q	0.255 J	113	**1450**	**2840**		
	MW-98	Oct-23		527	87.6	**2.23**	<0.480 Q		<0.420 Q	0.333 J	93.8	**1250**	**2790**		
	MW-137	Oct-17		141	**548**	1.11		<0.394		0.979 JB	759	**683**	**2910**		<0.00180
	MW-137	Apr-18		143	**446**	1.41		<0.985		1.23	955	**713**	**3420**		<0.180
	MW-137	Oct-18		133	**406**	0.873		<1.97		0.971 J	632	384	**2730**		<0.180
	MW-137	Apr-19		142	**407**	1.28		<1.97		1.14	845	**607**	**3380**		<0.0900
	MW-138	Oct-17		124	**453**	1.06		<0.0985		1.50 B	401	27.9	**2100**		<0.00180
	MW-138	Apr-18		130	**453**	0.874		<0.0197		1.58	436	26.8	**1910**		<0.00180
	MW-138	Oct-18		122	**408**	0.802		<0.0197		1.60	362	30.3	**1510**		<0.00180
	MW-138	Apr-19		130	**435**	0.966		<0.0197		1.62	402	41.4	**1730**		<0.00180
	RW-1	Apr-15		358	224	1.33		<0.200		3.57	210	**1330**	**2410**		
	RW-1	Apr-17		558	246	1.41		<0.197		7.37	268	**1860**	**3690**		
	RW-1	Apr-18		363	**255**	0.913		<1.97		2.24	247	**1030**	**1810**		
	RW-1	Apr-19		337	**286**	0.866		<1.97		1.87	266	**939**	**2690**		
	RW-2	Apr-15		726	**365**	**1.75**		<0.200		5.55 J	383	**3510**	**5310**		
	RW-2	Apr-17		519	**251**	**2.35**		<0.197		2.86	261	**1200**	**3030**		
	RW-2	Apr-18		402	**317**	**1.75**		<0.394		2.25	335	**731**	**2600**		
	RW-2	Mar-23		261	**274**	0.723	<0.0480		<0.0420	1.26 J	219	**687**	**2010**		
	RW-7	Apr-17		266	204	0.513		<0.197		0.922 J	105	**693**	**1740**		
	RW-7	Apr-18		295	217	1.22		<0.985		2.54	149	475	**1820**		
	RW-7	Apr-19		247	239	1.05		<0.197		1.63	150	426	**1830**		
	RW-7	Jun-20		184	218	0.995		<2.50		0.651 J	151	162	**1530**		
	RW-8	Apr-15		227	115	0.801		<0.200		0.353 J	209	473	**1600**		
	RW-8	Apr-17		218	163	0.731		<0.197		0.360 J	161	**665**	**1820**		
	RW-9	Jun-20		293	**469**	1.21		<2.50		1.51 J	425	**1140**	**3330**		
	RW-9	Apr-21		300	**556**	1.22		<0.500		1.27 J	439	**1180**	**3560**		
	RW-9	Apr-22		294	**554**	0.895		<2.50		1.12 J	432	**901**	**2980**		
	RW-9	Mar-23		263	**512**	1.04	0.0642 JBQ		0.0525 JQ	0.930 J	426	**967**	**3020**		
	RW-10	Apr-18		499	131	**3.41**		<0.985		3.49	143	**1530**	**2670**		
	RW-10	Apr-19		572	65.9	**3.66**		<0.197		3.68	102	**1470**	**2540** J3		
	RW-10	Jun-20		485	92.9	**3.87**		<0.0500		4.43	151	**1450**	**2520**		
	RW-10	Apr-21		353	193	**3.26**		0.0679 J		3.53	312	**1110**	**2730**		
	RW-16B	Apr-18		546	43.5	**4.89**		0.894 J6		0.788 J	259	**2660**	**4240**		
	RW-16B	Apr-19		540	83.0	**4.48**		1.47 J3J6		0.677 J	333	**2690**	**4440**		
	RW-16B	Jun-20		516	181	**3.78**		<0.0500		1.65 J	492	**2970**	**4720**		
	RW-16B	Mar-23		303	**301**	<0.640	<0.480		<0.420	1.18 J	358	**1400**	**3430**		
	RW-17A	Apr-18		635	**358**	**2.31**		0.0920 J		3.87	345	**3080**	**4430**		
	RW-17A	Apr-19		563	**398**	**2.64**		<0.0197		2.97	286	**3290**	**5430**		
	RW-17A	Jun-20		554	**389**	**2.58**		0.386		4.62	306	**2940**	**5730**		
	RW-17A	Mar-23		577 V	**423**	**2.56**	<0.480 Q[R]		<0.420 Q [R]	9.15	267 O1V	**2320**	**5610**		
North RO Field	MW-117	Apr-21		663	**304**	**2.89**		5.55		5.49	147	**2290**	**4080**		
	MW-117	Sep-21		614	**325 B**	**2.66**		1.76		5.98	144	**1910**	**4020**		
	MW-117	Apr-22		571	**365**	**3.03**		1.82		5.39	169	**2140**	**3830**		
	MW-117	Oct-22		507	248	**2.89**		0.527		4.52	163	**1730**	**2960**		
	MW-117	Mar-23		503	**298**	**3.59**	2.83		<0.420	5.40	167	**1680**	**3060**		
	MW-117	Oct-23		505	**322**	**3.09**	3.59		0.739 J	5.51	169	**1660**	**2990**		
	MW-118	Apr-21		575	241	**4.51**		2.29		2.85	192	**2880**	**4840**		
	MW-118	Sep-21		568	**253 B**	**4.12**		2.06		2.38	186	**2720**	**4770**		
	MW-118	Apr-22		562	**265**	**4.40**		2.25		2.09	186	**3180**	**4750**		
	MW-118	Oct-22		588	245	**4.36**		1.94		2.04	202	**2630**	**4440**		
	MW-118	Mar-23		548	248	**5.29**	4.10		<0.420	2.38	180	**2660**	**4330**		
	MW-118	Oct-23		574	246	**4.36**	5.72		0.610 J	2.18	185	**2690**	**4820**		
	MW-119	Apr-21		620	**278**	1.49		0.237		0.690 J	189 V	**2580**	**4400**		
	MW-119	Sep-21		607	**282 B**	**1.70**		0.314		0.786 J	192	**2320**	**4360**		
	MW-119	Apr-22		585	**294**	**1.88**		1.43		0.684 J	186	**2730**	**3520**		
	MW-119	Oct-22		582	**263**	**1.69**		0.107		0.724 J	183	**2140**	**3930**		
	MW-119	Mar-23		546	**270**	**1.63**	<0.480		<0.420	0.631 J	176	**2240**	**3460**		
	MW-119	Oct-23		555	**270**	**1.83**	<0.480		0.624 J	0.741 J	175	**2250**	**4110**		

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Appendix B, Table B.5 - Summary of Groundwater Analytical Data - Water Quality and Cyanide

2023 Annual Groundwater Monitoring Report
HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	Water Quality Parameters										Cyanide
				Analyte	Calcium	Chloride	Fluoride	Nitrate	Nitrate/Nitrite	Nitrite	Potassium	Sodium	Sulfate	TDS	Cyanide
				CAS	7440-70-2	16887-00-6	16984-48-8	14797-55-8	NO3NO2	14797-65-0	7440-09-7	7440-23-5	14808-79-8	TDS	57-12-5
				Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL	--	250	1.60	10.0	10.0	1.00	--	--	600	1000	0.200
				CGWSL Source	--	WQCC Dom	WQCC HH	WQCC HH	WQCC HH	WQCC HH	--	--	WQCC Dom	WQCC Dom	WQCC HH
Area	**Well ID**	**Date**	**Dup**												
North RO Field	MW-140	Mar-23		507	243	1.48 J	7.69 B		<0.420	36.7	198	**1730**	**3320**	
	MW-140	Oct-23		497	224	1.40 J	**14.3**		<0.420	31.2	208	**1520**	**3170**	
	MW-141	Mar-23		506	216	1.27 J	5.45 B		<0.420	2.09	51.6	**1430**	**2920**	
	MW-141	Oct-23		530	211	<0.640	5.14		<0.420	0.989 J	55.2	**1310**	**2590 Q**	
	MW-142	Mar-23		576	**262**	**1.81**	<0.480		<0.420	0.992 J	170	**2100**	**4680**	
	MW-142	Oct-23		558	**261**	**2.24**	1.37		<0.420	0.921 J	158	**2040**	**3810**	
	MW-143	Mar-23		510	228	**1.62**	<0.480		<0.420	0.725 J	198	**2370**	**3660**	
	MW-143	Oct-23		505	236	1.35 J	1.69		<0.420	0.754 J	197	**2460**	**4470**	
South Refinery	KWB-2R	Apr-19		322	246	0.656		0.991 J		0.516 JB	304	**1040**	**2370**	
	KWB-2R	Oct-19		169	**253**	0.927		<0.0197		0.534 J	246	345	**1590 J3**	
	KWB-2R	Mar-23		254	234	1.30 JB	<0.480 Q		<0.420 Q	0.568 J	258	**931**	**2260**	
	KWB-2R	Oct-23		285	**268**	0.716 J	1.01		<0.420	0.469 J	257	**1050**	**2650**	
	KWB-5	Oct-17		220	**565**	0.877		0.0530 J		1.41	208	21.9	**1560**	
	KWB-5	Apr-18		233	**546**	0.861		1.93		1.95	215	9.96	**1730**	
	KWB-5	Oct-18		200	**546**	0.869		<0.0197		1.76 JB	208	11.8	**1450**	
	KWB-5	Apr-19		244	**525**	0.761		<0.0197		2.10	241	18.7	**1680**	
	KWB-6	Apr-17		227	**260**	0.965		0.556 J		0.183 J	120	211	**1630**	
	KWB-6	Oct-17		256	**290**	0.842		<0.394		0.162 J	131	377	**1890**	
	KWB-6	Apr-18		248	248	0.897		0.0380 J		0.268 J	138	272	**1600**	
	KWB-6	Oct-18		223	240	0.801		<0.0197		0.230 J	122	324	**1680 J3**	
	MW-28	Apr-19		361	138	1.14		<0.985		0.964 J	112	**1030**	**2920**	<0.0180
	MW-28	Oct-19		360	143	1.60		<0.985		0.571 JB	101	**1630**	**2860**	<0.0180 J4
	MW-28	Jun-20		285	149	1.10		<0.250		4.23	109	**1310**	**2610**	<0.0360
	MW-28	Oct-20		281	132	1.02		<0.0500		4.03	114	**1140**	**2670**	<0.00180
	MW-48	Apr-18		200	**689**	**1.90**		0.0860 J		0.776 J	269	9.52	**2490**	
	MW-48	Oct-18		172 V	**498**	1.20		<0.394		0.863 J	293 V	125	**1730 J4**	
	MW-48	Apr-19		168	179	**1.82**		<0.394		1.16	290	**1210**	**1630 J4**	
	MW-48	Oct-19		159	**429**	1.08		<0.985		1.12	297	85.7	**1580 J3**	
	MW-50	Apr-21		387	191	1.47		0.0950 J		2.42	242	**1650**	**3370**	
	MW-50	Sep-21		513	**477**	**5.41**		**266**		9.75	851	**4950**	**9740**	
	MW-50	Apr-22		376	**281**	**2.99**		6.75		3.59	456	**3250**	**5260 Q**	
	MW-50	Oct-22		506	**313**	**3.94**		**50.8**		3.65	574	**3930**	**5930**	
	MW-50	Mar-23		431	183	**3.61**	**55.7 Q**		<0.420 Q	4.59	338	**2340**	**5750**	
	MW-50	Oct-23		427	166	**2.34**	**18.7**		0.566 J	5.21	299	**2070**	**4400**	
	MW-52	Apr-21		212	166 B	1.54		**11.0**		0.319 J	358	**958**	**2530**	<0.00180
	MW-52	Sep-21		211	179	1.53		**12.0**		0.240 J	308	**1050**	**2560**	<0.00180
	MW-52	Apr-22		187	176	**1.81**		**19.2**		0.373 J	309	**994**	**2450**	<0.00180
	MW-52	Oct-22		198	182	**1.99**		**11.1**		0.271 J	338	**1130**	**2040**	<0.00180
	MW-52	Mar-23		210	163	**2.03**	7.65 Q		<0.0420 Q	0.315 J	308	**1040**	**2150**	<0.00900
	MW-52	Oct-23		178	185	**1.70**	1.23		<0.0420	0.375 J	326	**748**	**2000**	<0.00180
	MW-64	Apr-21		93.9	**275**	0.750		<0.0500		0.581 J	350	23.4	**1580**	
	MW-64	Sep-21		88.9	**286 B**	0.878		<2.50		0.536 J	329	9.58	**1600**	
	MW-64	Apr-22		79.2	**295**	0.619		<0.500		0.571 J	318	1.81 J	**1310**	
	MW-64	Oct-22		87.2	**294**	0.723		<0.250		0.537 J	338	3.00 J	**1500**	
	MW-64	Mar-23		88.2	**309**	1.05	<0.0480		<0.0420	0.588 J	350	3.45 J	**1390**	
	MW-64	Oct-23		90.5	**289**	0.750	0.357		<0.0420	0.548 J	333	8.17	**1600**	
	MW-65	Apr-19		155	**284**	0.967		<0.0197		0.532 JB	262	1.23 J	**1310**	
	MW-65	Oct-19		113	234	1.23		<0.0197		0.466 J	223	5.53 B	**1080**	
	MW-65	Mar-23		158	**272**	1.46	0.0496 J		<0.0420	0.670 J	255	47.8	**1480**	
	MW-65	Oct-23		119	211	1.08	<0.0480		0.100	0.419 J	212	2.01 J	**1150**	
	MW-66	Oct-19		121	168	1.04		<0.0197 J6		1.18	131	6.99	912	<0.00180
	MW-66	Jun-20		136	188	1.13		0.0979 J		0.842 J	155	1.16 J	**1070**	<0.00180
	MW-66	Oct-20		140	189	1.12		<0.0500		1.71 JB	145	6.68	**1060**	<0.00180
	MW-66	Apr-21		176	**257**	1.26		0.0769 J		2.12	205	1.59 J	**1230**	<0.00180
	MW-99	Oct-18		162	**254**	0.612		<0.394		0.792 J	212	124	**1420**	
	MW-99	Apr-19		184	225	0.572		<0.394		1.31	214	145	**1390**	
	MW-99	Oct-19		109	66.7	0.517		0.0300 J		4.66	58.1	81.1	547	
	MW-99	Jun-20		138	73.2	0.323		<0.0500		7.77	60.7	109	727	
	MW-101	Apr-21		178	190	0.839		0.112		0.652 J	149	150	**1250**	
	MW-101	Sep-21		173	195	0.918		<2.50		0.934 J	138	200	**1270**	
	MW-101	Apr-22		164	190	0.931		<0.500		0.762 J	135	125	**1210**	
	MW-101	Oct-22		168	177	1.10		<0.250		0.715 J	148	114	**1130 J3**	
	MW-101	Mar-23		279	101	1.47 J	<0.480		<0.420	1.67 J	125	534	**1710**	
	MW-101	Oct-23		126	82.4 J6	1.07	0.119		<0.0420	0.602 J	134	80.4 J6	978	
	MW-102	Apr-21		98.1	242 B	0.823		0.0911 J		0.435 J	430	39.6	**1570**	
	MW-102	Sep-21		118	226 B	0.899		<2.50		0.532 J	410	55.5	**1650**	
	MW-102	Sep-21	FD	117	**253**	1.05		<2.50		0.601 J	423	55.0	**1620**	
	MW-102	Apr-22		77.1	153	0.815		<2.50		0.289 J	357	23.3	**1390**	
	MW-102	Apr-22	FD	78.1	143	0.812		<2.50		0.297 J	361	23.5	**1350**	
	MW-102	Oct-22		98.3	131	1.14 J		<2.50		0.279 J	358	84.5	**1280**	
	MW-102	Oct-22	FD	99.2	134	1.15 J		<2.50		0.291 J	366	97.1	**1380**	
	MW-102	Mar-23		169	150	1.30 JB	0.699 JBQ		<0.420 Q	0.469 J	351	353	**1650**	
	MW-102	Mar-23	FD	168	143	**2.31**	<0.480 Q		<0.420 Q	0.460 J	351	315	**1620**	
	MW-102	Oct-23		124	162	<0.640	0.514 J		<0.420	0.395 J	347	86.5	**1590**	
	MW-102	Oct-23	FD	125	153	1.23 J	0.927 J		<0.420	0.402 J	358	93.1	**1520**	
	MW-103	Jun-20		120	**4480**	**4.50**		<0.500		1.21 J	2830	44.3	**7620**	
	MW-103	Apr-21		186	**4530**	**3.47**		<0.500		1.26 J	3010	157 J	**8460**	
	MW-103	Apr-22		81.5	**4670**	**4.33**		<0.500		1.06 J	2800	67.2	**8280 Q**	
	MW-103	Mar-23		65.4	**2590**	**3.87**	<0.480		<0.420	0.809 J	2150	114	**5820**	
	MW-104	Apr-21		321	55.4	1.15		0.109		4.78	67.3	**935**	**1820**	
	MW-104	Apr-21	FD	314	55.8	1.18		<0.0500		4.58	67.3	**929**	**1760**	
	MW-104	Sep-21		306	69.0	1.31		<2.50		6.26	70.5	**834**	**1830**	
	MW-104	Apr-22		190	41.6	1.28		<0.500		3.79	47.4	**623**	**1060**	
	MW-104	Oct-22		198	58.2	1.58		<2.50		5.40	60.2	542	**1030**	
	MW-104	Mar-23		179	39.9	**1.91**	0.402		<0.0420	4.70	56.4	471	**1200 J3**	
	MW-104	Oct-23		269	81.3	**1.63**	0.868		<0.0420	7.17	74.4	<0.594	**1630**	
	MW-105	Apr-21		325	119 B	1.32		<0.0500		3.02	94.8	**683**	**1910**	
	MW-105	Apr-22		400	50.7	1.24		<2.50		3.58	58.4	**1020**	**1980**	
	MW-105	Oct-22		181	17.8	0.633		8.85		4.04	11.7	372	740 J3	
	MW-105	Mar-23		282	31.1	0.775 J	<0.480		0.652 J	3.58	32.9	418	**1390 J3**	
	MW-105	Oct-23		121	8.77	0.430	0.315		0.330	2.67	7.23	251	492	
	MW-106	Jun-20		295	206	1.11		<10.0		1.53 J	258	**1130**	**2890**	
	MW-106	Oct-20		285	213	0.865		<0.0500		0.777 J	318	**980**	**3110**	
	MW-106	Apr-21		308	**322**	1.01		<0.0500		1.02 J	333	**1580**	**3260**	
	MW-106	Oct-23		44.0	46.7	0.970	1.08 T8		**1.79 T8**	3.64	174	250	647	
	MW-107	Oct-15		176	**297**	**1.67**		<0.197		0.880 J	76.9	102	**1390**	
	MW-107	Apr-17		140	**313**	**1.76**		<0.197		0.655 J	75.4	<0.0774	**1260**	
	MW-107	Apr-18		147	**269**	**1.66**		0.0410 J		0.555 J	81.7	1.08 J	**1370**	
	MW-107	Apr-19		147	246	1.33		<0.0197		0.631 J	82.5	0.657 J	**1270**	
	MW-109	Apr-21		60.3	218	**1.78**		0.104		0.591 J	492	204	**1820**	
	MW-109	Sep-21		76.6	61.9	1.44		<0.500		0.758 J	394	321	**2020**	
	MW-109	Apr-22		60.9	201	**1.96**		<1.00		0.852 J	389	276	**1910**	
	MW-109	Oct-22		113	198	**1.83**		<0.250		1.12 J	431	207	**1210**	
	MW-109	Mar-23		62.3	188	**2.22**	<0.480 Q[R]		<0.420 Q [R]	0.609 J	416	315	**1460**	
	MW-109	Oct-23		78.1	198	1.58	0.490 J		<0.420	0.718 J	417	257	**1830**	

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Appendix B, Table B.5 - Summary of Groundwater Analytical Data - Water Quality and Cyanide

2023 Annual Groundwater Monitoring Report
HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	Water Quality Parameters										Cyanide
				Analyte	Calcium	Chloride	Fluoride	Nitrate	Nitrate/Nitrite	Nitrite	Potassium	Sodium	Sulfate	TDS	Cyanide
				CAS	7440-70-2	16887-00-6	16984-48-8	14797-55-8	NO3NO2	14797-65-0	7440-09-7	7440-23-5	14808-79-8	TDS	57-12-5
				Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL	--	250	1.60	10.0	10.0	1.00	--	--	600	1000	0.200
				CGWSL Source	--	WQCC Dom	WQCC HH	WQCC HH	WQCC HH	WQCC HH	--	--	WQCC Dom	WQCC Dom	WQCC HH
Area	**Well ID**	**Date**	**Dup**												
South Refinery	MW-110	Apr-21		101	75.8	1.33		0.0916 J		0.430 J	271	433	**1310**	
	MW-110	Sep-21		84.5	61.9	1.44		<0.0500		0.171 J	246	328	**1180**	
	MW-110	Apr-22		66.3	76.1	**1.82**		<0.0500		0.260 J	239	77.3	**1060**	
	MW-110	Oct-22		94.2	31.7	1.30		<0.0500		<0.108	251	483	**1230**	
	MW-110	Mar-23		102	32.3	1.55	<0.0480 Q		<0.0420 Q	<0.108	249	512	**1260**	
	MW-110	Oct-23		119	39.4	0.696 J	1.10		<0.420	<0.108	259	537	**1380**	
	MW-139	Apr-21		363	163	0.636		<0.0500		0.433 J	282	**1630**	**3620**	
	MW-139	Sep-21		361	116	0.795		<0.0500		0.466 J	207	**1710**	**3350**	
	MW-139	Apr-22		328	160 B	0.621		0.0594 J		0.463 J	234	**1870**	**2170**	
	MW-139	Oct-22		369	152	0.831 J		<2.50		0.471 J	244	**1830**	**2990**	
	MW-139	Mar-23		348	139	0.764 J	0.690 JB		<0.420	0.473 JB	265	**1720**	**3830**	
	MW-139	Oct-23		347	135	0.834 J	1.93		0.675 J	0.425 J	229	**1660**	**3250**	
	RA-313	Jun-20		221	190	0.898		0.570		1.66 J	99.9	**635**	**1400**	
	RA-313	Apr-21		214	153	0.817		0.640		1.50 J	99.8 V	545	**1310**	
	RA-313	Apr-22		214	144	0.938		0.604		1.52 J	100	553	**1220**	
	RA-313	Mar-23		184	70.8	1.45 J	0.997 JQ		<0.420 Q	1.18 J	45.0	443	912	
	RW-4	Apr-19		188	228	0.691		<0.197		1.24	151	325	**1660**	
	RW-4	Jun-20		201	232	0.778		<0.500		1.13 J	130	446	**1710**	
	RW-4	Apr-22		223	218	0.648		<2.50		0.912 J	125	523	**1480**	
	RW-4	Mar-23		205	159	0.729	<0.0480		0.0465 J	0.973 J	117	433	**1440**	
	RW-5R	Apr-15		4.82	**260**	0.965		<0.0200		0.461 J	189	0.376 J	565	
	RW-6R	Apr-16		191	**405**	0.747		0.485 JP1		0.356 J	226	104	**1470**	
	RW-6	Apr-18		183	**409**	0.804		0.0460 J		0.684 J	224	45.6	**1530**	
	RW-6	Apr-19		165	**325**	0.620		<0.394		0.598 J	191	3.36 J	**1350**	
	RW-6	Mar-23		331	**343**	0.881	<0.0480		0.0573 JP1	1.33 J	199	547	**2160**	
	RW-15C	Apr-17		160	**409**	0.774		0.442 J		1.59	269	19.4	**1610**	
	RW-15C	Apr-18		211 V	**652**	0.868		<0.0197		1.28	349 V	0.754 J	**1850**	
	RW-15C	Apr-19		247	**264**	0.882		<0.0197		1.63	322	**1070**	**2110 J4**	
South RO Field	MW-114	Apr-21		532	180 B	**1.98**		0.110		2.46	118	**1410**	**2960**	
	MW-114	Sep-21		466	227	**2.32**		<0.0500		2.26	109	**1380**	**2820**	
	MW-114	Apr-22		380	114	**2.75**		<0.0500		1.89 J	97.1	**1320**	**2080**	
	MW-114	Oct-22		467	**408**	**2.25**		<0.0500		2.09	158	**1170**	**2670**	
	MW-114	Mar-23		523	**364**	**3.42**	2.46 Q		<0.420 Q	1.61 J	123	**1600**	**2840**	
	MW-114	Oct-23		471	**300**	**2.29**	<0.480		0.684 J	2.13	169	**1320**	**2800**	
	MW-115	Apr-21		508	**357 B**	1.54		3.56		0.552 J	212	**2240**	**4560**	
	MW-115	Sep-21		466	**357**	**1.75**		1.85		0.547 J	215	**2170**	**4330**	
	MW-115	Apr-22		437	**342**	1.57		1.60		0.516 J	219	**2220**	**4070 Q**	
	MW-115	Oct-22		433	**306**	**1.85**		0.492		0.363 J	251	**1870**	**3390**	
	MW-115	Mar-23		442	**297**	**2.01**	1.21 Q		<0.420 Q	0.614 J	256	**1840**	**3280**	
	MW-115	Oct-23		440	**293**	**1.86**	0.788 J		<0.420	0.492 J	268	**1900**	**3330**	
	MW-116	Apr-21		588	**278 B**	1.52		0.636		1.39 J	186	**2080**	**4000**	
	MW-116	Sep-21		542	**283 B**	1.38		0.709		1.03 J	174	**1940**	**3860**	
	MW-116	Apr-22		534	**320 B**	1.56		0.505		1.09 J	164	**2300**	**4010**	
	MW-116	Oct-22		573	**321**	1.57		0.313		1.03 J	167	**1910**	**3980**	
	MW-116	Mar-23		531	**320**	**1.88**	<0.480 Q		<0.420 Q	1.08 J	160	**2110**	**3550**	
	MW-144	Mar-23		638	**421**	**4.06**	4.24		<0.420	1.59 J	189	**2380**	**3950**	
	MW-144	Oct-23		685	**652**	**2.39**	6.08		<0.420	1.54 J	210	**2170**	**3070**	
TEL	MW-49	Apr-21		184	**395**	1.24		<5.00		1.81 J	333	383	**1900**	0.0990 J
	MW-49	Sep-21		164	**333**	1.26		<2.50		1.96 J	290	317	**1810**	<0.0900
	MW-49	Apr-22		144 V	**265**	1.30		<0.500		1.76 J	270 V	258	**1470**	<0.0900
	MW-49	Oct-22		146	233	1.47		<2.50		1.93 J	277	179	**1410**	<0.0450
	MW-49	Mar-23		130	204	1.55	<0.0480		<0.0420	2.03	271	154 J6	**1530**	<0.0450
	MW-49	Oct-23		144	199 V	1.32	<0.0480 T8[R]		<0.0420 T8[R]	2.34	277	92.5	**1290**	<0.0720
	TEL-1	Oct-18		160	238	**2.13**		<0.394		0.650 J	474	**719**	**2080**	
	TEL-1	Apr-19		172	250	**2.14**		<0.394		0.685 J	460	**803**	**2000**	
	TEL-1	Oct-19		144	234	**2.23**		<0.0197		0.629 J	474	**640**	**2200**	
	TEL-1	Jun-20		143	184	**1.98**		<0.500		0.565 J	435	**699**	**2140**	
	TEL-2	Oct-18		266	205	0.967		<0.394		1.14	363	**1360**	**2730**	
	TEL-2	Apr-19		274	224	1.09		<0.394		1.73	377	**1250**	**2940**	
	TEL-2	Oct-19		298	159	1.28 B		<0.394		1.30	407	**1610**	**3550**	
	TEL-2	Jun-20		280	130	0.988		<0.500		1.05 J	373	**1540**	**3400**	
	TEL-3	Apr-18		302	**696**	**2.51**		<0.0985		6.00	308	442	**2440**	
	TEL-3	Apr-19		562	52.7	**2.77**		<0.0985		5.37	44.1	**1300**	**2290**	
	TEL-3	Oct-19		603	36.7	**3.06**		<0.985		5.26	36.2	**1470**	**2790**	
	TEL-3	Oct-20		424	114	**1.73**		<0.0500 J6		2.55	86.5	**1290**	**2880**	
	TEL-4	Apr-21		342	**290**	0.829		0.0747 J		0.513 J	367	**1240**	**3510**	
	TEL-4	Apr-21	FD	341	**325**	0.825		0.0730 J		0.521 J	356	**1410**	**3540**	
	TEL-4	Sep-21		441	**316**	0.765		0.0517 J		0.588 J	406	**1990**	**4670**	
	TEL-4	Sep-21	FD	442	**308**	0.767		<0.0500		0.669 J	396	**2030**	**4700**	
	TEL-4	Apr-22		245	138 B	1.14		<0.500		0.499 J	320	**1310**	**2330**	
	TEL-4	Apr-22	FD	242	132 B	1.13		<0.500		0.508 J	326	**1300**	**2130**	
	TEL-4	Oct-22		275	209	1.05		<0.250		0.570 J	382	**1290**	**2570**	
	TEL-4	Oct-22	FD	282	204	1.03		<0.250		0.580 J	385	**1290**	**2530**	
	TEL-4	Mar-23		343	154	**2.23**	<0.480 Q[R]		<0.420 Q [R]	0.613 J	301	**1720**	**3180**	
	TEL-4	Mar-23	FD	346	150	**2.71**	<0.480 Q[R]		<0.420 Q [R]	0.626 J	287	**1740**	**3510**	
	TEL-4	Oct-23		190	71.3	1.30	0.171 Q		<0.0420 Q[R]	0.504 J	279	**934**	**1930**	
	TEL-4	Oct-23	FD	195	71.6	1.10	0.207 T8		<0.0420 T8[R]	0.496 J	288	**897**	**1810**	
Three Mile Ditch	MW-8	Jun-20		534	**599**	**2.04**		**16.0**		1.98 J	393	**3060**	**5260**	
	MW-8	Apr-21		595	**625**	1.55		**19.4**		2.05	464	**2690**	**5790**	
	MW-8	Apr-22		542	**724**	**2.08**		**14.7**		2.06	433	**3040**	**5650 Q**	
	MW-8	Mar-23		546	**678**	**2.09**	9.45 Q		<0.420 Q	1.96 J	418	**2380**	**4110**	
	MW-16	Jun-20		500	**446**	**2.69**		0.331		8.82	424	**2610**	**4390**	
	MW-16	Apr-21		487	**339**	**2.34**		1.20		8.73	371	**2040**	**4000**	
	MW-16	Apr-22		500	**363**	**2.63**		0.512		7.99	305	**2350**	**3980 Q**	
	MW-16	Mar-23		508	**328**	**2.67**	3.57		<0.420	7.52	282	**2000**	**3580**	
	MW-20	Jun-20		522	**382**	**2.26**		2.38		0.601 J	284	**2830**	**4590**	
	MW-20	Apr-21		572	**399**	**1.85**		3.60		0.598 J	295	**2590**	**4820**	
	MW-20	Apr-22		513 V	**518**	**1.85**		5.45		0.566 J	250 V	**2570**	**4530**	
	MW-20	Mar-23		630	**833**	**2.22**	9.18 Q		<0.420 Q	0.661 J	283	**2150**	**4550**	
	MW-21	Apr-21		592	**601**	**1.77**		**17.8**		2.18	467	**2570**	**5560**	
	MW-21	Sep-21		546	**647**	**1.91**		**17.1**		2.06	423	**2770**	**5490**	
	MW-21	Apr-22		541	**703**	**2.22**		**13.5**		2.20	422	**2960**	**5190**	
	MW-21	Oct-22		545	**670**	**1.93**		**13.4**		1.80 J	423	**2440**	**4440**	
	MW-21	Mar-23		539	**661**	**1.90**	8.08 Q		<0.420 Q	2.06	410	**2310**	**4630**	
	MW-21	Oct-23		540	**654**	**1.73**	**12.1**		<0.420	2.02	404	**2300**	**3170**	
	MW-25	Jun-20		323	**976**	1.31		0.143		3.90	653	**1450**	**3610**	
	MW-25	Apr-21		358	**940**	1.01		0.466		3.54	472	**1350**	**3660**	
	MW-25	Apr-22		1250	**5220**	1.10		<0.0500		7.69	2480	**3430**	**25300**	
	MW-25	Mar-23		1220	**5740**	1.32 JB	<0.480		**2.51**	7.53	2530	**2520**	**14700**	
	MW-26	Jun-20		585	**671**	**2.06**		1.69		5.18	530	**3660**	**5990**	
	MW-26	Apr-21		517	**527**	**1.82**		1.79		4.86	530	**3130**	**5690**	
	MW-26	Apr-22		505	**605**	**2.36**		1.52		4.50	452	**3670**	**6070 Q**	
	MW-26	Mar-23		506	**489**	**1.91**	1.07 Q		0.645 J	4.32	442	**2950**	**4310**	

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Appendix B, Table B.5 - Summary of Groundwater Analytical Data - Water Quality and Cyanide

2023 Annual Groundwater Monitoring Report
HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	Water Quality Parameters										Cyanide
				Analyte	Calcium	Chloride	Fluoride	Nitrate	Nitrate/Nitrite	Nitrite	Potassium	Sodium	Sulfate	TDS	Cyanide
				CAS	7440-70-2	16887-00-6	16984-48-8	14797-55-8	NO3NO2	14797-65-0	7440-09-7	7440-23-5	14808-79-8	TDS	57-12-5
				Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL	--	250	1.60	10.0	10.0	1.00	--	--	600	1000	0.200
				CGWSL Source	--	WQCC Dom	WQCC HH	WQCC HH	WQCC HH	WQCC HH	--	--	WQCC Dom	WQCC Dom	WQCC HH
Area	**Well ID**	**Date**	**Dup**												
Three Mile Ditch	MW-27	Jun-20		301	56.7	1.38		1.78		7.62	91.0	**1070**	**1820**	
	MW-27	Apr-21		335	60.0	1.18		0.418		7.70	94.6	**1110**	**1990**	
	MW-27	Apr-22		338	45.5	1.16		0.598		8.41	86.4	**1270** V	**2060**	
	MW-27	Mar-23		308	39.1 B	**1.73 B**	0.826 J		<0.420	7.41	77.4	**1120**	**1870**	
	MW-46R	Apr-21		596	203	1.18		0.127		0.838 J	179	**2100**	**3850**	
	MW-46R	Sep-21		466	119 B	1.47		<0.0500		0.779 J	146	**1680**	**3110**	
	MW-46R	Apr-22		372	48.7	1.45		1.25		0.558 J	124	**1740**	**3970**	
	MW-46R	Oct-22		398	28.4	1.58		0.212		0.946 J	122	**1360**	**1720**	
	MW-46R	Mar-23		342	36.9	**1.83**	<0.480		<0.420	0.537 J	111	**1440**	**2240**	
	MW-46R	Oct-23		450	29.0	**1.73**	0.715 J		<0.420	0.918 J	104	**1190**	**2040**	
	MW-68	Jun-20		420	**354**	**1.89**		2.05		5.27	190	**1700**	**3040**	
	MW-68	Apr-21		412	244	**1.70**		1.70		5.09	235	**1520**	**3090**	
	MW-68	Apr-22		390	**261 B**	**1.67**		2.47		5.07	218	**1720**	**3010**	
	MW-68	Mar-23		337	231	**1.84**	1.91		<0.420	4.65	222	**1420**	**2900**	
	MW-71	Jun-20		630	**770**	**1.89**		**27.8**		3.51	510	**3130**	**6020**	<0.00180
	MW-71	Apr-21		625	**689**	**1.62**		**27.8**		3.42	532	**2810**	**6010**	<0.0450
	MW-71	Apr-22		573	**756**	**2.07**		**22.2**		3.31	512	**3280**	**5680**	<0.00180
	MW-71	Mar-23		592	**706**	**1.94 B**	**16.3 Q**		<0.420 Q	3.27	511	**3010**	**4930**	<0.00900
	MW-89	Jun-20		480	162	**2.92**		0.151		8.84	148	**1810**	**2810**	
	MW-89	Apr-21		451	196	**2.35**		1.05		7.06	139 V	**1370**	**2650**	
	MW-89	Apr-22		421	183	**2.82**		1.29		7.91	143	**1640**	**2710**	
	MW-89	Mar-23		410	184	**2.63**	0.914 J		<0.420	7.45	135	**1370**	**2520**	
	NP-1	Apr-21		479	**402**	1.50		3.17		1.69 J	325	**1870**	**4090**	
	NP-1	Sep-21												
	NP-1	Apr-22		392	**411**	**1.96**		1.29		1.70 J	279	**1920**	**3760 Q**	
	NP-1	Oct-22												
	NP-1	Mar-23		428	**472**	**1.98**	<0.480 Q		<0.420 Q	1.62 J	318	**1920**	**3610**	
	NP-1	Oct-23												
	NP-6	Apr-17												
	NP-6	Apr-19												
	NP-6	Apr-21												
	NP-6	Mar-23												
Upgradient	UG-1	Jun-20		503	97.3	0.784		**10.6**		1.16 J	84.0	**2060**	**3550 B**	<0.00180
	UG-1	Apr-21		499	93.5	0.638		**11.1**		1.19 JB	93.1	**1860**	**2950**	<0.00180
	UG-1	Apr-22		536	113	0.662		**12.4**		0.985 J	84.8	**2330**	**3570**	<0.00180
	UG-1	Mar-23		509	136	0.792 J	**12.9**		<0.420	0.959 J	93.3	**1970**	**3050**	<0.00360
	UG-2	Jun-20		342	75.9	1.52		9.75		1.41 J	85.7	**1190**	**2150 B**	<0.00180
	UG-2	Apr-21		330	66.3	1.36		7.30		1.33 JB	83.6	**1070**	**1710**	0.00321 J
	UG-2	Apr-22		310	70.4	1.41		9.64		1.20 J	78.9	**1080**	**1950**	<0.00180
	UG-2	Mar-23		302	56.0	1.24	6.05		<0.210	1.05 J	77.6	**960**	**1840**	<0.00360
	UG-3R	Jun-20		440	39.6	0.582		1.93		1.93 J	30.1	**1560**	**2430**	<0.00180
	UG-3R	Apr-21		489	61.7	0.466		3.16		2.10	34.9	**1530**	**2300**	<0.00180
	UG-3R	Apr-22		529 V	58.4	0.433		2.49		2.01	31.9	**1840**	**2860**	<0.00180
	UG-3R	Mar-23		491	73.6	0.664 J	4.61		<0.420	2.05	42.6	**1590**	**2350**	<0.00180
	UG-4	Jun-20		622	108	0.605		0.326		1.78 J	168	**2810**	**4210 B**	<0.00180
	UG-4	Apr-21		635	76.0	0.676 J		0.491		1.82 J	164	**2610**	**3800**	<0.00180
	UG-4	Apr-22		614	112	0.441		0.307 J3J6		1.96 J	197	**2890**	**4280**	<0.00180
	UG-4	Mar-23		548	79.5	0.770 J	<0.480		<0.420	1.94 J	306	**2760**	**4350**	<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.
[R]	Non-detect result qualified as not usable for project objectives due to significant holding time exceedance (see data validation summary provided in Appendix D)
T8	Sample received past/too close to holding time expiration.
V	The sample concentration is too high to evaluate accurate spike recoveries.

Note - Irrigation well RA-4196R was installed in June 2022 to replace both irrigation wells RA-4196 and RA-4798 which were plugged and abandoned in April 2023.

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Appendix B, Table B.6 - Summary of Groundwater Analytical Data - Semi-Volatile Organic Compounds

2023 Annual Groundwater Monitoring Report
HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	SVOC																				
				Analyte	1,1'-Biphenyl	1,2,4-Trichlorobenzene	1,4-Dioxane	1-Methylnaphthalene	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Chloronaphthalene	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol	2-Nitroaniline	2-Nitrophenol	3- & 4-Methylphenol (m,p-Cresol)	3,3'-Dichlorobenzidine	3-Nitroaniline	4,6-Dinitro-2-methylphenol	4-Bromophenyl phenyl ether
				CAS	92-52-4	120-82-1	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	65794-96-9	91-94-1	99-09-2	534-52-1	101-55-3
				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	mg/L	mg/L	mg/L	mg/L
				CGWSL	0.0371	0.0700	0.00459	0.0300				0.354						0.0300	0.930							
Area	**Well ID**	**Date**	**Dup**																						
Evaporation Ponds	MW-3	04/13/2022					0.000494																		
	MW-3	03/22/2023					0.000519																		
	MW-4A	04/13/2022					0.000324 J																		
	MW-4A	03/22/2023					0.000458																		
	MW-6A	04/13/2022					0.000292 J																		
	MW-6A	03/21/2023					0.000293 J																		
	MW-22A	04/13/2022					0.000929																		
	MW-22A	03/22/2023					0.000703																		
	MW-74	04/12/2022					0.00124																		
	MW-74	03/22/2023					0.00147																		
	MW-76	04/13/2022					0.000501																		
	MW-76	03/22/2023					0.000564																		
	MW-78	04/13/2022					<0.0000447																		
	MW-78	03/22/2023					<0.0000447																		
	MW-120	09/14/2021					<0.0000447																		
	MW-120	04/13/2022					<0.0000447																		
	MW-121	04/13/2022					<0.0000447																		
	MW-121	03/21/2023					<0.0000447																		
	MW-122	04/12/2022					<0.0000447																		
	MW-122	03/21/2023					0.0000966 J																		
	MW-123	04/13/2022					0.000895																		
	MW-123	03/22/2023					0.00107																		
	OCD-3	04/12/2022					<0.0000447																		
	OCD-3	03/22/2023					<0.0000447																		
	OCD-6	04/12/2022					<0.0000447																		
	OCD-6	03/21/2023					0.000176 J																		
Field East of Refinery	KWB-11A	09/14/2021					<0.0000447																		
	KWB-11A	10/11/2022					0.000378 J																		
	KWB-11B	09/14/2021					<0.0000447																		
	KWB-11B	04/13/2022					<0.0000447																		
	MW-113	09/14/2021					<0.0000447																		
	MW-113	09/14/2021	FD				<0.0000456																		
	MW-113	04/13/2022					<0.0000447																		
	MW-113	04/13/2022	FD				<0.0000447																		
	MW-126B	09/14/2021					<0.0000447																		
	MW-126B	04/12/2022					0.000113 J																		
	MW-134	09/15/2021					<0.0000447																		
	MW-134	09/15/2021	FD				<0.0000447																		
	MW-134	04/13/2022					<0.0000447																		
	MW-134	04/13/2022	FD				<0.0000469																		
	MW-135	09/14/2021					<0.0000447																		
	MW-135	04/12/2022					0.0000815 J																		
	RA-4196R	10/04/2023					0.000375 J																		
	RA-4798	09/14/2021					<0.0000447																		
	RA-4798	04/13/2022					<0.0000447																		
	RW-13R	03/22/2023					<0.0000447																		
NCL	MW-45	09/15/2021					0.000239 J																		
	MW-45	04/13/2022					0.000273 J																		
	MW-53R	04/12/2022					<0.0000447																		
	MW-53R	03/21/2023					<0.0000447																		
	MW-54A	09/14/2021					<0.0000447																		
	MW-54A	04/12/2022					<0.0000447																		
	MW-54B	03/22/2023					<0.0000447																		
	MW-108	09/14/2021					<0.0000447																		
	MW-108	04/12/2022					<0.0000447																		
	NCL-31	09/14/2021					<0.0000447																		
	NCL-31	04/12/2022					<0.0000447																		
	NCL-49	09/14/2021					<0.0000447																		
	NCL-49	09/14/2021	FD				<0.0000447																		
	NCL-49	04/12/2022					0.0000839 J																		
	NCL-49	04/12/2022	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	<0.00133	<0.0101	<0.00154	<0.0131	<0.00168
	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	<0.00532	<0.0404	<0.00616	<0.0524	<0.00670
	MW-29	09/15/2021					0.000826																		
	MW-29	04/12/2022					0.000477																		
	MW-42	04/12/2022					0.000880																		
	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	<0.000269	<0.00204	<0.000311	<0.00265	<0.000338
	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	<0.00532	<0.0404	<0.00616	<0.0524	<0.00670

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Appendix B, Table B.6 - Summary of Groundwater Analytical Data - Semi-Volatile Organic Compounds

2023 Annual Groundwater Monitoring Report
HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	SVOC																				
				Analyte	1,1'-Biphenyl	1,2,4-Trichlorobenzene	1,4-Dioxane	1-Methylnaphthalene	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Chloronaphthalene	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol	2-Nitroaniline	2-Nitrophenol	3- & 4-Methylphenol (m,p-Cresol)	3,3'-Dichlorobenzidine	3-Nitroaniline	4,6-Dinitro-2-methylphenol	4-Bromophenyl phenyl ether
				CAS	92-52-4	120-82-1	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	65794-96-9	91-94-1	99-09-2	534-52-1	101-55-3
				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	mg/L	mg/L	mg/L	mg/L
				CGWSL	0.0371	0.07	0.00459	0.0300				0.354						0.0300	0.930							
Area	**Well ID**	**Date**	**Dup**																						
North Refinery	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	<0.000266	<0.00202	<0.000308	<0.00262	<0.000335
	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	<0.000266	<0.00202	<0.000308	<0.00262	<0.000335
	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	<0.000168	<0.000212	<0.0000869	<0.00112	<0.0000877
	MW-61	04/13/2022		0.00540 J	<0.0000698	<0.0000447	**0.101**	<0.000109	<0.000100	<0.000102	<0.0000636	<0.00593	<0.0000983	<0.000250	<0.0000648	<0.000133	**0.0418**	<0.0000929	<0.000102	<0.000117	<0.000168	<0.000212	<0.0000869	<0.00112	<0.0000877
	MW-61	10/11/2022		0.00336 J	<0.0000698		**0.0738**	<0.000109	<0.000100	0.000268 J	0.000876 J	<0.00593	<0.0000983	<0.000250	<0.0000648	<0.000133	0.0280	<0.0000929	<0.000102	<0.000117	<0.000168	<0.000212	<0.0000869	<0.00112	<0.0000877
	MW-61	03/21/2023		0.00243 J	<0.0000698		**0.0475**	<0.000109	<0.000100	<0.000102	0.000799 J	<0.00593	<0.0000983	<0.000250	<0.0000648	<0.000133	0.0174	<0.0000929	<0.000102	<0.000117	<0.000168	<0.000212	<0.0000869	<0.00112	<0.0000877
	MW-61	10/03/2023		0.00383 J	<0.0000698		**0.0710**	<0.000109 [R]	<0.000100 [R]	<0.000102 [R]	<0.0000636 [R]	<0.00593 [R]	<0.0000983	<0.000250	<0.0000648	<0.000133 [R]	**0.0307**	<0.0000929 [R]	<0.000102	<0.000117 [R]	<0.000168 [R]	<0.000212	<0.0000869	<0.00112 [R]	<0.0000877
	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	<0.000266	<0.00202	<0.000308	<0.00262	<0.000335
	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	<0.00532	<0.0404	<0.00616	<0.0524	<0.00670
	MW-62	09/14/2021		0.00677 J	<0.000349	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	<0.000840	<0.00106	<0.000435	<0.00560	<0.000439
	MW-62	04/12/2022		0.00764 J	<0.000349	<0.0000447	**0.108**	<0.000545	<0.000500	<0.000510	0.0758	<0.0297	<0.000491	<0.00125	<0.000324	<0.000665	**0.0581**	<0.000465	<0.000510	<0.000585	<0.000840	<0.00106	<0.000435	<0.00560	<0.000439
	MW-62	10/11/2022		0.00237 J	<0.0000698		**0.0506**	<0.000109	<0.000100	<0.000102	0.0309	<0.00593	<0.0000983	<0.000250	<0.0000648	<0.000133	0.0124	0.00102 J	<0.000102	<0.000117	0.000474 J	<0.000212	<0.0000869	<0.00112	<0.0000877
	MW-90	09/14/2021				<0.0000447																			
	MW-90	04/12/2022				<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	<0.000266	<0.00202	<0.000308	<0.00262	<0.000335
	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	<0.000840	<0.00106	<0.000435	<0.00560	<0.000439
	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	<0.000266	<0.00202	<0.000308	<0.00262	<0.000335
	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	<0.000400	<0.000505	<0.000207	<0.00267	<0.000209
	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	<0.00532	<0.0404	<0.00616	<0.0524	<0.00670
	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	<0.000266	<0.00202	<0.000308	<0.00262	<0.000335
	RW-2	03/21/2023		0.00158 J	<0.0000698	0.000280 J	0.0187	<0.000109	<0.000100	<0.000102	<0.0000636	<0.00593	<0.0000983	<0.000250	<0.0000648	<0.000133	0.0148	<0.0000929	<0.000102	<0.000117	<0.000168	<0.000212	<0.0000869	<0.00112	<0.0000877
	RW-9	04/13/2022				0.000901																			
	RW-9	03/22/2023				0.000867																			
	RW-16B	03/22/2023				0.000367 J																			
	RW-17A	03/22/2023				<0.0000447																			
NRO	MW-117	09/14/2021				<0.0000447																			
	MW-117	04/12/2022				0.000160 J																			
South Refinery	KWB-2R	03/21/2023				0.000286 J																			
	KWB-2R	10/04/2023				0.000464																			
	MW-50	09/14/2021				<0.0000447																			
	MW-50	04/12/2022				<0.0000447																			
	MW-101	09/15/2021				0.000575																			
	MW-101	04/13/2022				0.000599																			
	MW-102	09/14/2021				<0.0000447																			
	MW-102	09/14/2021	FD			<0.0000447																			
	MW-102	04/13/2022				<0.0000447																			
	MW-102	04/13/2022	FD			<0.0000447																			
	MW-104	09/14/2021				<0.0000447																			
	MW-104	04/13/2022				<0.0000447																			
	MW-106	10/04/2023				0.000241 JB																			
	MW-109	09/15/2021				<0.0000447																			
	MW-109	04/13/2022				<0.0000447																			
	MW-110	09/15/2021				<0.0000447																			
	MW-110	04/13/2022				<0.0000447																			
	MW-139	09/14/2021				<0.0000447																			
	MW-139	04/12/2022				<0.0000447																			
	RA-313	04/13/2022				<0.0000447																			
	RA-313	03/22/2023				0.000180 JB																			
SRO	MW-114	09/14/2021				<0.0000447																			
	MW-114	04/13/2022				0.000464																			
TEL	MW-49	09/15/2021				0.000415																			
	MW-49	04/13/2022				0.000612																			
	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	<0.000266	<0.00202	<0.000308	<0.00262	<0.000335
	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	<0.000266	<0.00202	<0.000308	<0.00262	<0.000335
	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	<0.000266	<0.00202	<0.000308	<0.00262	<0.000335
	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	<0.000266	<0.00202	<0.000308	<0.00262	<0.000335
	TEL-4	09/14/2021				0.000499																			
	TEL-4	09/14/2021	FD			0.000558																			
	TEL-4	04/12/2022				<0.0000447																			
	TEL-4	04/12/2022	FD			0.000167 J																			
Three Mile Ditch	MW-21	09/15/2021				<0.0000447																			
	MW-21	04/12/2022				0.000149 J																			
	MW-71	04/12/2022				0.000148 J																			
	MW-71	03/22/2023				<0.0000447																			
	NP-1	09/15/2021				0.000228 J																			
	NP-1	04/12/2022				0.000123 J																			
UG	UG-1	04/11/2022				<0.0000447																			
	UG-1	03/20/2023				0.000157 J																			

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Appendix B, Table B.6 - Summary of Groundwater Analytical Data - Semi-Volatile Organic Compounds

2023 Annual Groundwater Monitoring Report
HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				SVOC																					
Analyte Group																									
Analyte				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	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	Butylbenzylphthalate	Caprolactam	Carbazole
CAS				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	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
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	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
CGWSL									0.535			1.72	0.00300			0.000200							0.00600	0.0160		
Area	Well ID	Date	Dup																								
Evaporation Ponds	MW-3	04/13/2022																									
	MW-3	03/22/2023																									
	MW-4A	04/13/2022																									
	MW-4A	03/22/2023																									
	MW-6A	04/13/2022																									
	MW-6A	03/21/2023																									
	MW-22A	04/13/2022																									
	MW-22A	03/22/2023																									
	MW-74	04/12/2022																									
	MW-74	03/22/2023																									
	MW-76	04/13/2022																									
	MW-76	03/22/2023																									
	MW-78	04/13/2022																									
	MW-78	03/22/2023																									
	MW-120	09/14/2021																									
	MW-120	04/13/2022																									
	MW-121	04/13/2022																									
	MW-121	03/21/2023																									
	MW-122	04/12/2022																									
	MW-122	03/21/2023																									
	MW-123	04/13/2022																									
	MW-123	03/22/2023																									
	OCD-3	04/12/2022																									
	OCD-3	03/22/2023																									
	OCD-6	04/12/2022																									
	OCD-6	03/21/2023																									
Field East of Refinery	KWB-11A	09/14/2021																									
	KWB-11A	10/11/2022																									
	KWB-11B	09/14/2021																									
	KWB-11B	04/13/2022																									
	MW-113	09/14/2021																									
	MW-113	09/14/2021	FD																								
	MW-113	04/13/2022																									
	MW-113	04/13/2022	FD																								
	MW-126B	09/14/2021																									
	MW-126B	04/12/2022																									
	MW-134	09/15/2021																									
	MW-134	09/15/2021	FD																								
	MW-134	04/13/2022																									
	MW-134	04/13/2022	FD																								
	MW-135	09/14/2021																									
	MW-135	04/12/2022																									
	RA-4196R	10/04/2023																									
	RA-4798	09/14/2021																									
	RA-4798	04/13/2022																									
	RW-13R	03/22/2023																									
NCL	MW-45	09/15/2021																									
	MW-45	04/13/2022																									
	MW-53R	04/12/2022																									
	MW-53R	03/21/2023																									
	MW-54A	09/14/2021																									
	MW-54A	04/12/2022																									
	MW-54B	03/22/2023																									
	MW-108	09/14/2021																									
	MW-108	04/12/2022																									
	NCL-31	09/14/2021																									
	NCL-31	04/12/2022																									
	NCL-49	09/14/2021																									
	NCL-49	09/14/2021	FD																								
	NCL-49	04/12/2022																									
	NCL-49	04/12/2022	FD																								
North Refinery	MW-23	04/03/2019		<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	<0.000448	<0.0000113	<0.00178	<0.00164	<0.00810	<0.00222	0.00460 J	<0.00138	<0.0130	0.0132 J
	MW-23	10/23/2019		<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**	<0.00179	<0.0000454	<0.00710	<0.00658	<0.0324	<0.00890	**<0.0142**	<0.00550	<0.0518	0.0251 J
	MW-29	09/15/2021																									
	MW-29	04/12/2022																									
	MW-42	04/12/2022																									
	MW-43	04/03/2019		<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	<0.0000905	<0.00000229	<0.000359	<0.000332	<0.00164	<0.000449	0.000920 J	0.00115 J	<0.00262	0.00772 J
	MW-43	10/23/2019		<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**	<0.00179	<0.0000454	<0.00710	<0.00658	<0.0324	<0.00890	**<0.0142**	<0.00550	<0.0518	0.0145 J

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2023 Annual Groundwater Monitoring Report
HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				SVOC																					
Analyte Group																									
Analyte				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	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	Butylbenzylphthalate	Caprolactam	Carbazole
CAS				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	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
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	mg/L	mg/L	mg/L	mg/L	mg/L
CGWSL									0.535			1.72	0.00300			0.000200							0.00600	0.0160		
Area	Well ID	Date	Dup																							
North Refinery	MW-61	04/03/2019		<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	<0.0000896	<0.00000227	<0.000355	<0.000329	<0.00162	<0.000445	**0.00818**	<0.000275	<0.00259	0.00142 J
	MW-61	10/23/2019		<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	<0.0000896	0.00000240 J	<0.000355	<0.000329	<0.00162	<0.000445	0.00187 J	<0.000275	<0.00259	0.00127 J
	MW-61	09/14/2021		<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	<0.000130	<0.000121	<0.000120	<0.000116	<0.000137	<0.000210	**0.00884**	<0.000765	<0.000309	0.00145 J
	MW-61	04/13/2022		<0.000131	<0.000234	<0.0000926	<0.0000910	<0.000143	0.000905 J	<0.0000921	<0.000208	<0.0000804	<0.000255	<0.00169 J4	<0.000199	<0.0000381	<0.000130	<0.000121	<0.000120	<0.000116	<0.000137	<0.000210	**0.0152**	<0.000765	<0.000309	0.00179 J
	MW-61	10/11/2022		<0.000131	<0.000234	<0.0000926	<0.0000910	<0.000143	0.000495 J	<0.0000921	<0.000208	<0.0000804	<0.000255	<0.00169	<0.000199	<0.0000381	<0.000130	<0.000121	<0.000120	<0.000116	<0.000137	<0.000210	**0.0143**	<0.000765	<0.000309	0.00128 J
	MW-61	03/21/2023		<0.000131	<0.000234	<0.0000926	<0.0000910	<0.000143	0.000446 J	<0.0000921	<0.000208	<0.0000804	<0.000255	<0.00169 J4	<0.000199	<0.0000381	<0.000130	<0.000121	<0.000120	<0.000116	<0.000137	<0.000210	**0.0317**	<0.000765	<0.000309	0.00125 J
	MW-61	10/03/2023		<0.000131 [R]	<0.000234	<0.0000926	<0.0000910	<0.000143 [R]	0.000625 J	<0.0000921	<0.000208	0.00139	<0.000255	<0.00169 J4	<0.000199	<0.0000381	<0.000130	<0.000121	<0.000120	<0.000116	<0.000137	<0.000210	**0.0103**	<0.000765	<0.000309	0.00146 J
	MW-62	04/03/2019		<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	<0.0000896	<0.00000227	<0.000355	<0.000329	<0.00162	<0.000445	0.00168 J	<0.000275	<0.00259	0.00472 J
	MW-62	10/23/2019		<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**	<0.00179	<0.0000454	<0.00710	<0.00658	<0.0324	<0.00890	**<0.0142**	<0.00550	<0.0518	0.0103 J
	MW-62	09/14/2021		<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	<0.000650	<0.000605	<0.000600	<0.000580	<0.000685	<0.00105	<0.00448	<0.00383	<0.00154	0.00470 J
	MW-62	04/12/2022		<0.000655	<0.00117	<0.000463	<0.000455	<0.000715	0.00186 J	<0.000461	<0.00104	<0.000402	<0.00128	<0.00845 J4	<0.000995	<0.000191	<0.000650	<0.000605	<0.000600	<0.000580	<0.000685	<0.00105	<0.00448	<0.00383	<0.00154	0.00435 J
	MW-62	10/11/2022		<0.000131	<0.000234	<0.0000926	<0.0000910	<0.000143	0.000977 J	<0.0000921	<0.000208	<0.0000804	<0.000255	<0.00169	<0.000199	<0.0000381	<0.000130	<0.000121	<0.000120	<0.000116	<0.000137	<0.000210	<0.000895	<0.000765	<0.000309	0.00348 J
	MW-90	09/14/2021																								
	MW-90	04/12/2022																								
	MW-93	04/03/2019		<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	<0.0000896	<0.00000227	<0.000355	<0.000329	<0.00162	<0.000445	0.00129 J	<0.000275	<0.00259	0.0257
	MW-93	06/17/2020		<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	<0.000650	<0.000605	<0.000600	<0.000580	<0.000685	<0.00105	<0.00448	<0.00383	<0.00154	0.0264 J
	MW-95	04/03/2019		<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	<0.0000896	<0.00000227	<0.000355	<0.000329	<0.00162	<0.000445	0.000850 J	<0.000275	<0.00259	<0.000260
	MW-95	06/16/2020		<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	<0.000309	<0.000288	<0.000286	<0.000276	<0.000326	<0.000500	<0.00213	<0.00182	<0.000735	<0.000264
	MW-137	04/03/2019		<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**	<0.00179	<0.0000454	<0.00710	<0.00658	<0.0324	<0.00890	**<0.0142**	<0.00550	<0.0518	<0.00520
	MW-138	04/03/2019		<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	<0.0000896	<0.00000227	<0.000355	<0.000329	<0.00162	<0.000445	<0.000709	<0.000275	<0.00259	0.000643 J
	RW-2	03/21/2023		<0.000131	<0.000234	<0.0000926	<0.0000910	<0.000143	0.00148	<0.0000921	<0.000208	0.000286 J	<0.000255	<0.00169 J4	<0.000199	<0.0000381	<0.000130	<0.000121	<0.000120	<0.000116	<0.000137	<0.000210	0.00546	<0.000765	<0.000309	0.00332 J
	RW-9	04/13/2022																								
	RW-9	03/22/2023																								
	RW-16B	03/22/2023																								
	RW-17A	03/22/2023																								
NRO	MW-117	09/14/2021																								
	MW-117	04/12/2022																								
South Refinery	KWB-2R	03/21/2023																								
	KWB-2R	10/04/2023																								
	MW-50	09/14/2021																								
	MW-50	04/12/2022																								
	MW-101	09/15/2021																								
	MW-101	04/13/2022																								
	MW-102	09/14/2021																								
	MW-102	09/14/2021	FD																							
	MW-102	04/13/2022																								
	MW-102	04/13/2022	FD																							
	MW-104	09/14/2021																								
	MW-104	04/13/2022																								
	MW-106	10/04/2023																								
	MW-109	09/15/2021																								
	MW-109	04/13/2022																								
	MW-110	09/15/2021																								
	MW-110	04/13/2022																								
	MW-139	09/14/2021																								
	MW-139	04/12/2022																								
	RA-313	04/13/2022																								
	RA-313	03/22/2023																								
SRO	MW-114	09/14/2021																								
	MW-114	04/13/2022																								
TEL	MW-49	09/15/2021																								
	MW-49	04/13/2022																								
	TEL-4	04/02/2019		<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	<0.0000896	<0.00000227	<0.000355	<0.000329	<0.00162	<0.000445	**0.0641**	<0.000275	<0.00259	<0.000260
	TEL-4	04/02/2019	FD	<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	<0.0000896	<0.00000227	<0.000355	<0.000329	<0.00162	<0.000445	0.000835 J	<0.000275	<0.00259	<0.000260
	TEL-4	10/22/2019		<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	<0.0000896	<0.00000227	<0.000355	<0.000329	<0.00162	<0.000445	0.00120 J	<0.000275	<0.00259	0.000400 J
	TEL-4	10/22/2019	FD	<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	<0.0000896	<0.00000227	<0.000355	<0.000329	<0.00162	<0.000445	0.00146 J	<0.000275	<0.00259	0.000289 J
	TEL-4	09/14/2021																								
	TEL-4	09/14/2021	FD																							
	TEL-4	04/12/2022																								
	TEL-4	04/12/2022	FD																							
Three Mile Ditch	MW-21	09/15/2021																								
	MW-21	04/12/2022																								
	MW-71	04/12/2022																								
	MW-71	03/22/2023																								
	NP-1	09/15/2021																								
	NP-1	04/12/2022																								
UG	UG-1	04/11/2022																								
	UG-1	03/20/2023																								

Appendix B, Table B.6 - Summary of Groundwater Analytical Data - Semi-Volatile Organic Compounds

2023 Annual Groundwater Monitoring Report
HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	SVOC																				
				Analyte	Chrysene	Dibenz(a,h)anthracene	Dibenzofuran	Diethyl phthalate	Dimethyl-phthalate	Di-n-butylphthalate	Di-n-octylphthalate	Fluoranthene	Fluorene	Hexachloro-benzene	Hexachloro-butadiene	Hexachloro-cyclopentadiene	Hexachloroethane	Indeno(1,2,3-cd)pyrene	Isophorone	Naphthalene	Nitrobenzene	n-Nitroso-di-n-propylamine	N-Nitro-sodi-phenylamine	Pentachloro-phenol	Phenanthrene	Phenol	Pyrene
				CAS	218-01-9	53-70-3	132-64-9	84-66-2	131-11-3	84-74-2	117-84-0	206-44-0	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	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL			0.00790	14.8		0.885		0.802	0.288	0.001	0.05					0.0300					0.001	0.170	0.00500	0.117
Area	**Well ID**	**Date**	**Dup**																								
Evaporation Ponds	MW-3	04/13/2022																									
	MW-3	03/22/2023																									
	MW-4A	04/13/2022																									
	MW-4A	03/22/2023																									
	MW-6A	04/13/2022																									
	MW-6A	03/21/2023																									
	MW-22A	04/13/2022																									
	MW-22A	03/22/2023																									
	MW-74	04/12/2022																									
	MW-74	03/22/2023																									
	MW-76	04/13/2022																									
	MW-76	03/22/2023																									
	MW-78	04/13/2022																									
	MW-78	03/22/2023																									
	MW-120	09/14/2021																									
	MW-120	04/13/2022																									
	MW-121	04/13/2022																									
	MW-121	03/21/2023																									
	MW-122	04/12/2022																									
	MW-122	03/21/2023																									
	MW-123	04/13/2022																									
	MW-123	03/22/2023																									
	OCD-3	04/12/2022																									
	OCD-3	03/22/2023																									
	OCD-6	04/12/2022																									
	OCD-6	03/21/2023																									
Field East of Refinery	KWB-11A	09/14/2021																									
	KWB-11A	10/11/2022																									
	KWB-11B	09/14/2021																									
	KWB-11B	04/13/2022																									
	MW-113	09/14/2021																									
	MW-113	09/14/2021	FD																								
	MW-113	04/13/2022																									
	MW-113	04/13/2022	FD																								
	MW-126B	09/14/2021																									
	MW-126B	04/12/2022																									
	MW-134	09/15/2021																									
	MW-134	09/15/2021	FD																								
	MW-134	04/13/2022																									
	MW-134	04/13/2022	FD																								
	MW-135	09/14/2021																									
	MW-135	04/12/2022																									
	RA-4196R	10/04/2023																									
	RA-4798	09/14/2021																									
	RA-4798	04/13/2022																									
	RW-13R	03/22/2023																									
NCL	MW-45	09/15/2021																									
	MW-45	04/13/2022																									
	MW-53R	04/12/2022																									
	MW-53R	03/21/2023																									
	MW-54A	09/14/2021																									
	MW-54A	04/12/2022																									
	MW-54B	03/22/2023																									
	MW-108	09/14/2021																									
	MW-108	04/12/2022																									
	NCL-31	09/14/2021																									
	NCL-31	04/12/2022																									
	NCL-49	09/14/2021																									
	NCL-49	09/14/2021	FD																								
	NCL-49	04/12/2022																									
	NCL-49	04/12/2022	FD																								
North Refinery	MW-23	04/03/2019		<0.00166	<0.000322	0.00394 J	<0.00141	<0.00141	<0.00133	<0.00139	<0.00155	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		<0.00664	<0.00129	**0.00924 J**	<0.00564	<0.00566	<0.00532	<0.00556	<0.00620	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-29	04/12/2022																									
	MW-42	04/12/2022																									
	MW-43	04/03/2019		<0.000335	<0.0000650	0.00192 J	<0.000285	<0.000286	<0.000269	<0.000281	<0.000313	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		<0.00664	<0.00129	<0.00676	<0.00564	<0.00566	<0.00532	<0.00556	<0.00620	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

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Appendix B, Table B.6 - Summary of Groundwater Analytical Data - Semi-Volatile Organic Compounds

2023 Annual Groundwater Monitoring Report
HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group	SVOC																				
				Analyte	Chrysene	Dibenz(a,h)anthracene	Dibenzofuran	Diethyl phthalate	Dimethyl-phthalate	Di-n-butylphthalate	Di-n-octylphthalate	Fluoranthene	Fluorene	Hexachloro-benzene	Hexachloro-butadiene	Hexachloro-cyclopentadiene	Hexachloroethane	Indeno(1,2,3-cd)pyrene	Isophorone	Naphthalene	Nitrobenzene	n-Nitroso-di-n-propylamine	N-Nitro-sodi-phenylamine	Pentachloro-phenol	Phenanthrene	Phenol	Pyrene
				CAS	218-01-9	53-70-3	132-64-9	84-66-2	131-11-3	84-74-2	117-84-0	206-44-0	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	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL			0.00790	14.8		0.885		0.802	0.288	0.001	0.05					0.0300					0.001	0.170	0.00500	0.117
Area	**Well ID**	**Date**	**Dup**																								
North Refinery	MW-61	04/03/2019			<0.000332	<0.0000644	0.00293 J	<0.000282	<0.000283	<0.000266	<0.000278	<0.000310	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			<0.000332	<0.0000644	0.00398 J	<0.000282	<0.000283	<0.000266	<0.000278	<0.000310	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			<0.000130	<0.0000644	0.00276 J	<0.000287	<0.000260	<0.000453	<0.000932	<0.000102	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-61	04/13/2022			<0.000130	<0.0000644	0.00406 J	<0.000287	<0.000260	<0.000453	<0.000932	<0.000102	0.00241	<0.0000755	<0.0000968	<0.0000598	<0.000127	<0.000279	<0.000143	**0.143**	<0.000297	<0.000261	<0.00237	<0.000313	0.00147	<0.00433	<0.000107
	MW-61	10/11/2022			<0.000130	<0.0000644	0.00311 J	<0.000287	<0.000260	<0.000453	<0.000932	<0.000102	0.00184	<0.0000755	<0.0000968	<0.0000598	<0.000127	<0.000279	<0.000143	**0.0978**	<0.000297	<0.000261	<0.00237 J4	<0.000313	0.00119	<0.00433	<0.000107
	MW-61	03/21/2023			<0.000130	<0.0000644	0.00207 J	<0.000287	<0.000260	<0.000453	<0.000932	<0.000102	0.00121	<0.0000755	<0.0000968	<0.0000598	<0.000127	<0.000279	<0.000143	**0.0676**	<0.000297	<0.000261	<0.00237	<0.000313	0.000741 J	<0.00433	<0.000107
	MW-61	10/03/2023			<0.000130	<0.0000644	0.00305 J	<0.000287	<0.000260	<0.000453	<0.000932	<0.000102	0.00199	<0.0000755	<0.0000968	<0.0000598	<0.000127	<0.000279	<0.000143	**0.101**	<0.000297	<0.000261	<0.00237	<0.000313 [R]	0.00134	<0.00433	<0.000107
	MW-62	04/03/2019			<0.000332	<0.0000644	0.00458 J	<0.000282	<0.000283	<0.000266	<0.000278	<0.000310	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			<0.00664	<0.00129	**0.0128 J**	<0.00564	<0.00566	<0.00532	<0.00556	<0.00620	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			<0.000650	<0.000322	0.00575 J	<0.00143	<0.00130	<0.00227	<0.00466	<0.000510	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-62	04/12/2022			<0.000650	<0.000322	0.00579 J	<0.00143	<0.00130	<0.00227	<0.00466	<0.000510	0.00369 J	<0.000378	<0.000484	<0.000299	<0.000635	<0.00140	<0.000715	**0.161**	<0.00148	<0.00131	<0.0119	**<0.00157**	0.00241 J	**<0.0217**	<0.000535
	MW-62	10/11/2022			<0.000130	<0.0000644	0.00334 J	<0.000287	<0.000260	<0.000453	<0.000932	<0.000102	0.00238	<0.0000755	<0.0000968	<0.0000598	<0.000127	<0.000279	<0.000143	**0.0534**	<0.000297	<0.000261	<0.00237 J4	<0.000313	0.00227	<0.00433	<0.000107
	MW-90	09/14/2021																									
	MW-90	04/12/2022																									
	MW-93	04/03/2019			<0.000332	<0.0000644	0.00397 J	<0.000282	<0.000283	<0.000266	<0.000278	0.000373 J	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			<0.000650	<0.000322	0.00396 J	<0.00143	<0.00130	<0.00227	<0.00466	<0.000510	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			<0.000332	<0.0000644	0.00173 J	<0.000282	<0.000283	<0.000266	<0.000278	<0.000310	<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			<0.000309	<0.000153	0.00259 J	<0.000683	<0.000619	<0.00108	<0.00222	<0.000243	<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			<0.00664	<0.00129	<0.00676	0.00635 J	<0.00566	<0.00532	<0.00556	<0.00620	<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			<0.000332	<0.0000644	0.000611 J	<0.000282	<0.000283	<0.000266	<0.000278	<0.000310	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
	RW-2	03/21/2023			<0.000130	<0.0000644	0.00259 J	<0.000287	<0.000260	<0.000453	<0.000932	0.000419 J	0.00359	<0.0000755	<0.0000968	<0.0000598	<0.000127	<0.000279	<0.000143	0.0149	<0.000297	<0.000261	<0.00237	<0.000313	0.00813	**0.00652 J**	0.000875 J
	RW-9	04/13/2022																									
	RW-9	03/22/2023																									
	RW-16B	03/22/2023																									
	RW-17A	03/22/2023																									
NRO	MW-117	09/14/2021																									
	MW-117	04/12/2022																									
South Refinery	KWB-2R	03/21/2023																									
	KWB-2R	10/04/2023																									
	MW-50	09/14/2021																									
	MW-50	04/12/2022																									
	MW-101	09/15/2021																									
	MW-101	04/13/2022																									
	MW-102	09/14/2021																									
	MW-102	09/14/2021	FD																								
	MW-102	04/13/2022																									
	MW-102	04/13/2022	FD																								
	MW-104	09/14/2021																									
	MW-104	04/13/2022																									
	MW-106	10/04/2023																									
	MW-109	09/15/2021																									
	MW-109	04/13/2022																									
	MW-110	09/15/2021																									
	MW-110	04/13/2022																									
	MW-139	09/14/2021																									
	MW-139	04/12/2022																									
	RA-313	04/13/2022																									
	RA-313	03/22/2023																									
SRO	MW-114	09/14/2021																									
	MW-114	04/13/2022																									
TEL	MW-49	09/15/2021																									
	MW-49	04/13/2022																									
	TEL-4	04/02/2019			<0.000332	<0.0000644	0.00177 J	<0.000282	<0.000283	0.000273 J	<0.000278	<0.000310	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		<0.000332	<0.0000644	0.00205 J	<0.000282	<0.000283	0.000267 J	<0.000278	<0.000310	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			<0.000332	<0.0000644	0.00161 J	<0.000282	<0.000283	0.000312 J	<0.000278	<0.000310	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		<0.000332	<0.0000644	0.00169 J	<0.000282	<0.000283	0.000278 J	<0.000278	<0.000310	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																								
	TEL-4	04/12/2022																									
	TEL-4	04/12/2022	FD																								
Three Mile Ditch	MW-21	09/15/2021																									
	MW-21	04/12/2022																									
	MW-71	04/12/2022																									
	MW-71	03/22/2023																									
	NP-1	09/15/2021																									
	NP-1	04/12/2022																									
UG	UG-1	04/11/2022																									
	UG-1	03/20/2023																									

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)
NRO	North RO Field
SRO	South RO Field
UG	Upgradient
Dup	Duplicate sample
FD	Field duplicate sample
mg/L	Milligrams per Liter

Lab Footnote

B	Analyte was also detected in the associated method blank.
J	Indicates an estimated value.
J4	The associated batch QC was outside the established quality control range for accuracy.
[R]	Non-detect result qualified as not usable for project objectives due to lack of surrogate recovery

ANALYTICAL REPORT

March 30, 2023

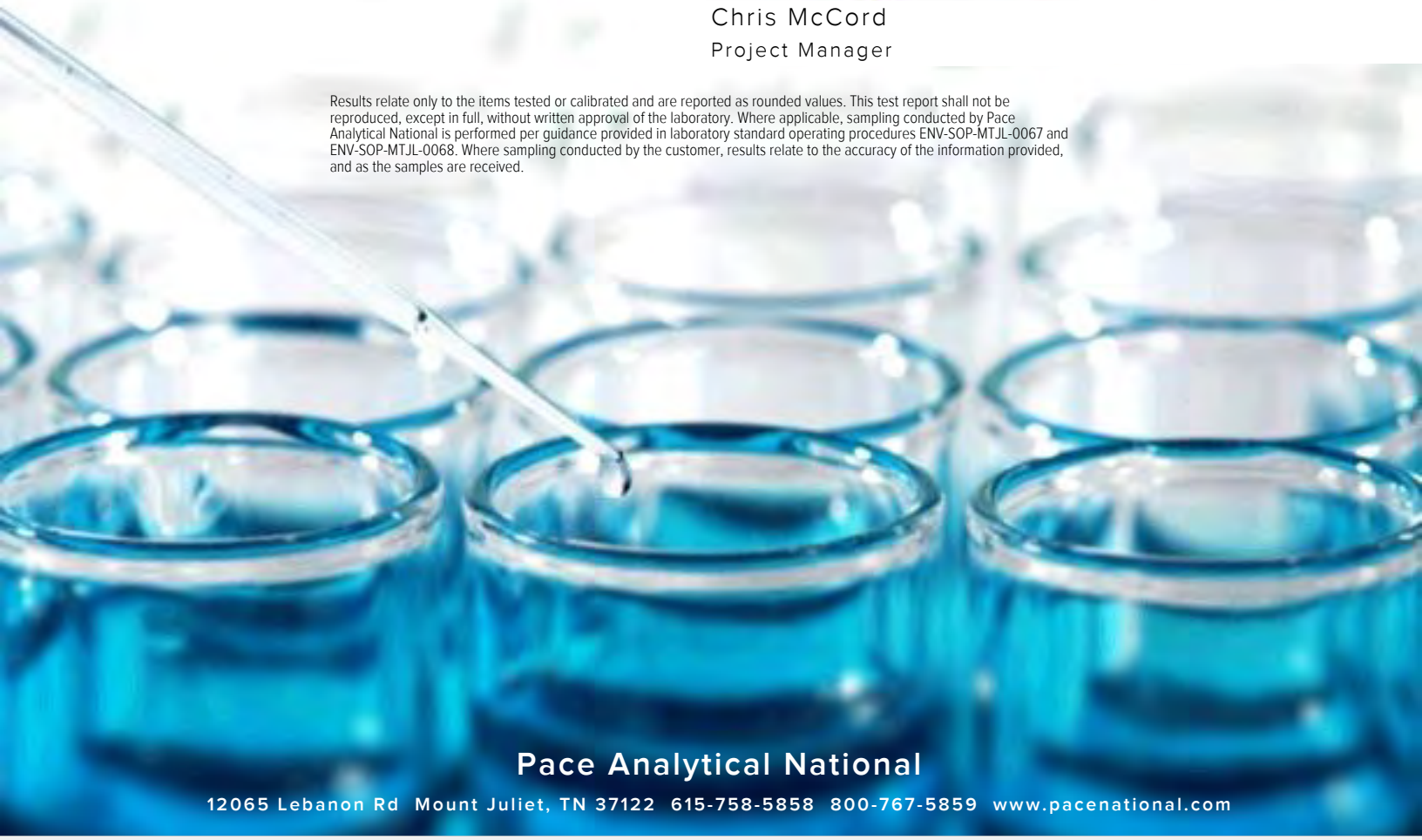
TRC Solutions - Austin, TX

Sample Delivery Group:	L1596664
Samples Received:	03/21/2023
Project Number:	
Description:	Artesia Spring 2023
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.



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RW-#18A L1596664-01 GW

Collected by: SU / HMI Team
Collected date/time: 03/20/23 07:25
Received date/time: 03/21/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2028223	1	03/23/23 02:28	03/23/23 04:32	AS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2027359	10	03/22/23 00:00	03/22/23 00:00	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2027359	100	03/22/23 04:31	03/22/23 04:31	LBR	Mt. Juliet, TN
Mercury by Method 7470A	WG2029442	1	03/26/23 17:11	03/27/23 07:57	SRT	Mt. Juliet, TN
Mercury by Method 7470A	WG2030410	1	03/27/23 16:13	03/28/23 10:14	SRT	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2029740	1	03/25/23 14:32	03/26/23 20:13	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2029748	1	03/26/23 09:49	03/26/23 21:59	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2027352	1	03/22/23 09:58	03/23/23 12:40	JDG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2027358	1	03/22/23 04:12	03/23/23 13:57	JDG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2029960	1	03/26/23 02:17	03/26/23 02:17	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030727	1	03/27/23 19:42	03/27/23 19:42	JAH	Mt. Juliet, TN

MW-145 L1596664-02 GW

Collected by: SU / HMI Team
Collected date/time: 03/20/23 08:15
Received date/time: 03/21/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2028223	1	03/23/23 02:28	03/23/23 04:32	AS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2030264	10	03/26/23 13:59	03/26/23 13:59	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2030264	100	03/26/23 14:12	03/26/23 14:12	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2027352	1	03/22/23 09:58	03/23/23 12:43	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2027358	1	03/22/23 04:12	03/23/23 14:07	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2027498	1	03/22/23 11:32	03/22/23 11:32	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2029960	1	03/26/23 02:39	03/26/23 02:39	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030727	1	03/27/23 20:02	03/27/23 20:02	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2029729	1	03/25/23 06:06	03/27/23 23:57	MWS	Mt. Juliet, TN

MW-146 L1596664-03 GW

Collected by: SU / HMI Team
Collected date/time: 03/20/23 09:00
Received date/time: 03/21/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2028223	1	03/23/23 02:28	03/23/23 04:32	AS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2030264	10	03/26/23 14:25	03/26/23 14:25	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2030264	100	03/26/23 14:39	03/26/23 14:39	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2027352	1	03/22/23 09:58	03/23/23 12:26	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2027358	1	03/22/23 04:12	03/23/23 14:10	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2027498	1	03/22/23 11:54	03/22/23 11:54	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2029960	1	03/26/23 03:01	03/26/23 03:01	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2031005	1	03/27/23 23:56	03/27/23 23:56	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2029729	1	03/25/23 06:06	03/28/23 00:17	MWS	Mt. Juliet, TN

MW-135 L1596664-04 GW

Collected by: SU / HMI Team
Collected date/time: 03/20/23 10:00
Received date/time: 03/21/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2028223	1	03/23/23 02:28	03/23/23 04:32	AS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2027359	10	03/22/23 00:14	03/22/23 00:14	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2027359	100	03/22/23 05:11	03/22/23 05:11	LBR	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2027352	1	03/22/23 09:58	03/23/23 13:12	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2027358	1	03/22/23 04:12	03/23/23 14:15	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2027498	1	03/22/23 12:16	03/22/23 12:16	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030006	1	03/25/23 12:53	03/25/23 12:53	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2029729	1	03/25/23 06:06	03/28/23 00:37	MWS	Mt. Juliet, TN

MW-147 L1596664-05 GW

Collected by: SU / HMI Team
Collected date/time: 03/20/23 10:50
Received date/time: 03/21/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2028223	1	03/23/23 02:28	03/23/23 04:32	AS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2030264	10	03/26/23 14:52	03/26/23 14:52	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2030264	100	03/26/23 15:06	03/26/23 15:06	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2027352	1	03/22/23 09:58	03/23/23 13:23	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2027358	1	03/22/23 04:12	03/23/23 14:18	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2027498	1	03/22/23 12:38	03/22/23 12:38	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030006	1	03/25/23 13:16	03/25/23 13:16	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2029729	1	03/25/23 06:06	03/28/23 00:58	MWS	Mt. Juliet, TN

MW-148 L1596664-06 GW

Collected by: SU / HMI Team
Collected date/time: 03/20/23 11:40
Received date/time: 03/21/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2028223	1	03/23/23 02:28	03/23/23 04:32	AS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2030264	10	03/26/23 15:46	03/26/23 15:46	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2030264	100	03/26/23 15:59	03/26/23 15:59	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2027352	1	03/22/23 09:58	03/23/23 13:26	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2027358	1	03/22/23 04:12	03/23/23 14:21	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2027498	1	03/22/23 13:00	03/22/23 13:00	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030006	1	03/25/23 13:40	03/25/23 13:40	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2029729	1	03/25/23 06:06	03/28/23 01:18	MWS	Mt. Juliet, TN

UG-3R L1596664-07 GW

Collected by: SU / HMI Team
Collected date/time: 03/20/23 13:20
Received date/time: 03/21/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2028223	1	03/23/23 02:28	03/23/23 04:32	AS	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG2028157	1	03/22/23 16:52	03/22/23 23:38	LDT	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2027359	10	03/22/23 00:27	03/22/23 00:27	LBR	Mt. Juliet, TN
Mercury by Method 7470A	WG2027332	1	03/21/23 21:30	03/22/23 11:18	SRT	Mt. Juliet, TN
Mercury by Method 7470A	WG2027334	1	03/22/23 11:20	03/22/23 18:50	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2027344	1	03/22/23 07:50	03/22/23 14:43	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2027354	1	03/22/23 10:24	03/22/23 19:52	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2027352	1	03/22/23 09:58	03/23/23 13:30	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2027358	1	03/22/23 04:12	03/23/23 14:24	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2027498	1	03/22/23 13:21	03/22/23 13:21	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030006	1	03/25/23 14:04	03/25/23 14:04	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2029729	1	03/25/23 06:06	03/28/23 01:38	MWS	Mt. Juliet, TN

UG-4 L1596664-08 GW

Collected by: SU / HMI Team
Collected date/time: 03/20/23 12:35
Received date/time: 03/21/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2028223	1	03/23/23 02:28	03/23/23 04:32	AS	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG2028157	1	03/22/23 16:52	03/22/23 23:39	LDT	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2027359	10	03/22/23 00:41	03/22/23 00:41	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2027359	100	03/22/23 05:38	03/22/23 05:38	LBR	Mt. Juliet, TN
Mercury by Method 7470A	WG2027332	1	03/21/23 21:30	03/22/23 11:20	SRT	Mt. Juliet, TN
Mercury by Method 7470A	WG2027334	1	03/22/23 11:20	03/22/23 18:52	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2027344	1	03/22/23 07:50	03/22/23 14:46	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2027354	1	03/22/23 10:24	03/22/23 20:04	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2027352	1	03/22/23 09:58	03/23/23 13:33	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2027358	1	03/22/23 04:12	03/23/23 14:28	JPD	Mt. Juliet, TN

UG-4 L1596664-08 GW

Collected by: SU / HMI Team
Collected date/time: 03/20/23 12:35
Received date/time: 03/21/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2027498	1	03/22/23 13:43	03/22/23 13:43	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030006	1	03/25/23 14:27	03/25/23 14:27	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2029729	1	03/25/23 06:06	03/28/23 01:58	MWS	Mt. Juliet, TN

UG-1 L1596664-09 GW

Collected by: SU / HMI Team
Collected date/time: 03/20/23 14:15
Received date/time: 03/21/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2028223	1	03/23/23 02:28	03/23/23 04:32	AS	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG2028157	2	03/22/23 16:52	03/22/23 23:41	LDT	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2027359	10	03/22/23 00:54	03/22/23 00:54	LBR	Mt. Juliet, TN
Mercury by Method 7470A	WG2027332	1	03/21/23 21:30	03/22/23 10:51	SRT	Mt. Juliet, TN
Mercury by Method 7470A	WG2027334	1	03/22/23 11:20	03/22/23 18:55	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2027344	1	03/22/23 07:50	03/22/23 14:49	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2027354	1	03/22/23 10:24	03/22/23 20:08	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2027352	1	03/22/23 09:58	03/23/23 13:36	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2027358	1	03/22/23 04:12	03/23/23 14:31	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2027498	1	03/22/23 14:05	03/22/23 14:05	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030006	1	03/25/23 14:51	03/25/23 14:51	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2029729	1	03/25/23 06:06	03/28/23 02:18	MWS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod	WG2027707	1	03/23/23 03:34	03/23/23 10:25	AGW	Mt. Juliet, TN

UG-2 L1596664-10 GW

Collected by: SU / HMI Team
Collected date/time: 03/20/23 15:00
Received date/time: 03/21/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2028223	1	03/23/23 02:28	03/23/23 04:32	AS	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG2028157	2	03/22/23 16:52	03/22/23 23:42	LDT	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2027359	5	03/22/23 01:08	03/22/23 01:08	LBR	Mt. Juliet, TN
Mercury by Method 7470A	WG2027332	1	03/21/23 21:30	03/22/23 11:22	SRT	Mt. Juliet, TN
Mercury by Method 7470A	WG2027334	1	03/22/23 11:20	03/22/23 18:57	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2027344	1	03/22/23 07:50	03/22/23 12:32	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2027354	1	03/22/23 10:24	03/22/23 20:11	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2027352	1	03/22/23 09:58	03/23/23 13:39	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2027358	1	03/22/23 04:12	03/23/23 14:34	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2027498	1	03/22/23 14:27	03/22/23 14:27	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030006	1	03/25/23 15:14	03/25/23 15:14	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2029729	1	03/25/23 06:06	03/28/23 02:39	MWS	Mt. Juliet, TN

DUP-REST-04 L1596664-11 GW

Collected by: SU / HMI Team
Collected date/time: 03/20/23 12:00
Received date/time: 03/21/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2028223	1	03/23/23 02:28	03/23/23 04:32	AS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2030264	10	03/26/23 16:13	03/26/23 16:13	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2030264	100	03/26/23 16:26	03/26/23 16:26	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2027352	1	03/22/23 09:58	03/23/23 13:49	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2027358	1	03/22/23 04:12	03/23/23 14:38	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2027498	1	03/22/23 14:49	03/22/23 14:49	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030006	1	03/25/23 15:38	03/25/23 15:38	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2029729	1	03/25/23 06:06	03/28/23 02:59	MWS	Mt. Juliet, TN

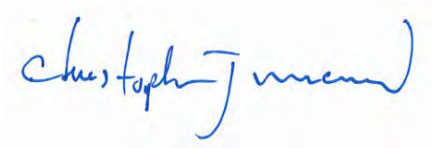
SAMPLE SUMMARY

EB-REST-04 L1596664-12 GW

Collected by: SU / HMI Team
Collected date/time: 03/20/23 09:10
Received date/time: 03/21/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2028223	1	03/23/23 02:28	03/23/23 04:32	AS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2030264	1	03/26/23 16:39	03/26/23 16:39	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2027352	1	03/22/23 09:58	03/23/23 13:53	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2027358	1	03/22/23 04:12	03/23/23 14:51	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2027498	1	03/22/23 15:11	03/22/23 15:11	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030006	1	03/25/23 16:01	03/25/23 16:01	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2029729	1	03/25/23 06:06	03/28/23 03:19	MWS	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 mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4360		50.0	1	03/23/2023 04:32	WG2028223

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	254		3.79	10.0	10	03/22/2023 00:00	WG2027359
Fluoride	1.90		0.640	1.50	10	03/22/2023 00:00	WG2027359
Nitrate	1.83		0.480	1.00	10	03/22/2023 00:00	WG2027359
Nitrite	U		0.420	1.00	10	03/22/2023 00:00	WG2027359
Sulfate	2190		59.4	500	100	03/22/2023 04:31	WG2027359

Sample Narrative:

L1596664-01 WG2027359: Dilution due to matrix.

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	03/27/2023 07:57	WG2029442
Mercury,Dissolved	U		0.000100	0.000200	1	03/28/2023 10:14	WG2030410

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	0.700		0.0200	0.200	1	03/26/2023 21:59	WG2029748
Boron,Dissolved	0.581		0.0200	0.200	1	03/26/2023 20:13	WG2029740

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00354		0.000180	0.00200	1	03/23/2023 12:40	WG2027352
Arsenic,Dissolved	0.00268		0.000180	0.00200	1	03/23/2023 13:57	WG2027358
Barium	0.0172		0.000381	0.00200	1	03/23/2023 12:40	WG2027352
Barium,Dissolved	0.0127		0.000381	0.00200	1	03/23/2023 13:57	WG2027358
Cadmium	U		0.000150	0.00100	1	03/23/2023 12:40	WG2027352
Cadmium,Dissolved	U		0.000150	0.00100	1	03/23/2023 13:57	WG2027358
Calcium	500		0.0936	1.00	1	03/23/2023 12:40	WG2027352
Chromium	U		0.00124	0.00200	1	03/23/2023 12:40	WG2027352
Chromium,Dissolved	U		0.00124	0.00200	1	03/23/2023 13:57	WG2027358
Cobalt	0.000357	J	0.0000596	0.00200	1	03/23/2023 12:40	WG2027352
Cobalt,Dissolved	0.000193	J	0.0000596	0.00200	1	03/23/2023 13:57	WG2027358
Iron	0.675		0.0281	0.100	1	03/23/2023 12:40	WG2027352
Iron,Dissolved	U		0.0281	0.100	1	03/23/2023 13:57	WG2027358
Lead	U		0.000849	0.00200	1	03/23/2023 12:40	WG2027352
Lead,Dissolved	U		0.000849	0.00200	1	03/23/2023 13:57	WG2027358
Manganese	0.00817	B	0.000704	0.00500	1	03/23/2023 12:40	WG2027352
Manganese,Dissolved	0.00355	J	0.000704	0.00500	1	03/23/2023 13:57	WG2027358
Nickel	0.00138	J	0.000816	0.00200	1	03/23/2023 12:40	WG2027352
Nickel,Dissolved	0.00102	J	0.000816	0.00200	1	03/23/2023 13:57	WG2027358
Potassium	0.809	J	0.108	2.00	1	03/23/2023 12:40	WG2027352
Selenium	0.00684		0.000300	0.00200	1	03/23/2023 12:40	WG2027352
Selenium,Dissolved	0.00770		0.000300	0.00200	1	03/23/2023 13:57	WG2027358
Sodium	126		0.376	2.00	1	03/23/2023 12:40	WG2027352
Uranium	0.0595		0.0000789	0.00100	1	03/23/2023 12:40	WG2027352
Uranium,Dissolved	0.0596		0.0000789	0.00100	1	03/23/2023 13:57	WG2027358

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Vanadium	0.0256		0.000664	0.00500	1	03/23/2023 12:40	WG2027352
Vanadium,Dissolved	0.0189		0.000664	0.00500	1	03/23/2023 13:57	WG2027358

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	03/26/2023 02:17	WG2029960
Benzene	U		0.0000941	0.00100	1	03/26/2023 02:17	WG2029960
Bromodichloromethane	U		0.000136	0.00100	1	03/26/2023 02:17	WG2029960
Bromoform	U		0.000129	0.00100	1	03/26/2023 02:17	WG2029960
Bromomethane	U		0.000605	0.00500	1	03/26/2023 02:17	WG2029960
n-Butylbenzene	U		0.000157	0.00100	1	03/26/2023 02:17	WG2029960
sec-Butylbenzene	U		0.000125	0.00100	1	03/26/2023 02:17	WG2029960
Carbon disulfide	U		0.0000962	0.00100	1	03/26/2023 02:17	WG2029960
Carbon tetrachloride	U		0.000128	0.00100	1	03/26/2023 02:17	WG2029960
Chlorobenzene	U		0.000116	0.00100	1	03/26/2023 02:17	WG2029960
Chlorodibromomethane	U		0.000140	0.00100	1	03/26/2023 02:17	WG2029960
Chloroethane	U		0.000192	0.00500	1	03/26/2023 02:17	WG2029960
Chloroform	U		0.000111	0.00500	1	03/27/2023 19:42	WG2030727
Chloromethane	U		0.000960	0.00250	1	03/26/2023 02:17	WG2029960
1,2-Dibromoethane	U		0.000126	0.00100	1	03/26/2023 02:17	WG2029960
1,1-Dichloroethane	U		0.000100	0.00100	1	03/26/2023 02:17	WG2029960
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/26/2023 02:17	WG2029960
1,1-Dichloroethene	U		0.000188	0.00100	1	03/26/2023 02:17	WG2029960
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/26/2023 02:17	WG2029960
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/26/2023 02:17	WG2029960
1,2-Dichloropropane	U		0.000149	0.00100	1	03/26/2023 02:17	WG2029960
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/26/2023 02:17	WG2029960
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/26/2023 02:17	WG2029960
Ethylbenzene	U		0.000137	0.00100	1	03/26/2023 02:17	WG2029960
Isopropylbenzene	U		0.000105	0.00100	1	03/26/2023 02:17	WG2029960
p-Isopropyltoluene	U		0.000120	0.00100	1	03/26/2023 02:17	WG2029960
2-Butanone (MEK)	U		0.00119	0.0100	1	03/26/2023 02:17	WG2029960
2-Hexanone	U		0.000787	0.0100	1	03/26/2023 02:17	WG2029960
Methylene Chloride	U		0.000430	0.00500	1	03/26/2023 02:17	WG2029960
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/26/2023 02:17	WG2029960
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/26/2023 02:17	WG2029960
Naphthalene	U	J3 J4	0.00100	0.00500	1	03/26/2023 02:17	WG2029960
n-Propylbenzene	U		0.0000993	0.00100	1	03/26/2023 02:17	WG2029960
Styrene	U		0.000118	0.00100	1	03/26/2023 02:17	WG2029960
tert-Butyl alcohol	U		0.00406	0.00500	1	03/26/2023 02:17	WG2029960
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/26/2023 02:17	WG2029960
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/26/2023 02:17	WG2029960
Tetrachloroethene	U		0.000300	0.00100	1	03/26/2023 02:17	WG2029960
Toluene	U		0.000278	0.00100	1	03/26/2023 02:17	WG2029960
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/26/2023 02:17	WG2029960
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/26/2023 02:17	WG2029960
Trichloroethene	U		0.000190	0.00100	1	03/26/2023 02:17	WG2029960
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/26/2023 02:17	WG2029960
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/26/2023 02:17	WG2029960
Vinyl chloride	U		0.000234	0.00100	1	03/26/2023 02:17	WG2029960
o-Xylene	U		0.000174	0.00100	1	03/26/2023 02:17	WG2029960
m&p-Xylene	U		0.000430	0.00200	1	03/26/2023 02:17	WG2029960
Xylenes, Total	U		0.000174	0.00300	1	03/26/2023 02:17	WG2029960
(S) Toluene-d8	*94.9*			*80.0-120*		*03/26/2023 02:17*	WG2029960
(S) Toluene-d8	*98.4*			*80.0-120*		*03/27/2023 19:42*	WG2030727

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	*81.6*			*77.0-126*		*03/26/2023 02:17*	WG2029960
(S) 4-Bromofluorobenzene	*93.8*			*77.0-126*		*03/27/2023 19:42*	WG2030727
(S) 1,2-Dichloroethane-d4	*85.5*			*70.0-130*		*03/26/2023 02:17*	WG2029960
(S) 1,2-Dichloroethane-d4	*79.0*			*70.0-130*		*03/27/2023 19:42*	WG2030727

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4580		100	1	03/23/2023 04:32	WG2028223

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	372		3.79	10.0	10	03/26/2023 13:59	WG2030264
Fluoride	1.73	B	0.640	1.50	10	03/26/2023 13:59	WG2030264
Sulfate	2720		59.4	500	100	03/26/2023 14:12	WG2030264

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00376		0.000180	0.00200	1	03/23/2023 12:43	WG2027352
Arsenic,Dissolved	0.00342		0.000180	0.00200	1	03/23/2023 14:07	WG2027358
Barium	0.00899		0.000381	0.00200	1	03/23/2023 12:43	WG2027352
Barium,Dissolved	0.00861		0.000381	0.00200	1	03/23/2023 14:07	WG2027358
Calcium	548		0.0936	1.00	1	03/23/2023 12:43	WG2027352
Chromium	U		0.00124	0.00200	1	03/23/2023 12:43	WG2027352
Chromium,Dissolved	U		0.00124	0.00200	1	03/23/2023 14:07	WG2027358
Iron	U		0.0281	0.100	1	03/23/2023 12:43	WG2027352
Iron,Dissolved	U		0.0281	0.100	1	03/23/2023 14:07	WG2027358
Lead	U		0.000849	0.00200	1	03/23/2023 12:43	WG2027352
Lead,Dissolved	0.00113	J	0.000849	0.00200	1	03/23/2023 14:07	WG2027358
Manganese	0.0268		0.000704	0.00500	1	03/23/2023 12:43	WG2027352
Manganese,Dissolved	0.0250		0.000704	0.00500	1	03/23/2023 14:07	WG2027358
Potassium	1.24	J	0.108	2.00	1	03/23/2023 12:43	WG2027352
Selenium	0.00297		0.000300	0.00200	1	03/23/2023 12:43	WG2027352
Selenium,Dissolved	0.00243		0.000300	0.00200	1	03/23/2023 14:07	WG2027358
Sodium	261		0.376	2.00	1	03/23/2023 12:43	WG2027352

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	0.0334	B J	0.0314	0.100	1	03/22/2023 11:32	WG2027498
(S) a,a,a-Trifluorotoluene(FID)	*96.7*			*78.0-120*		*03/22/2023 11:32*	WG2027498

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	03/26/2023 02:39	WG2029960
Benzene	U		0.0000941	0.00100	1	03/26/2023 02:39	WG2029960
Bromodichloromethane	U		0.000136	0.00100	1	03/26/2023 02:39	WG2029960
Bromoform	U		0.000129	0.00100	1	03/26/2023 02:39	WG2029960
Bromomethane	U		0.000605	0.00500	1	03/26/2023 02:39	WG2029960
n-Butylbenzene	U		0.000157	0.00100	1	03/26/2023 02:39	WG2029960
sec-Butylbenzene	U		0.000125	0.00100	1	03/26/2023 02:39	WG2029960
Carbon disulfide	U		0.0000962	0.00100	1	03/26/2023 02:39	WG2029960
Carbon tetrachloride	U		0.000128	0.00100	1	03/26/2023 02:39	WG2029960
Chlorobenzene	U		0.000116	0.00100	1	03/26/2023 02:39	WG2029960
Chlorodibromomethane	U		0.000140	0.00100	1	03/26/2023 02:39	WG2029960
Chloroethane	U		0.000192	0.00500	1	03/26/2023 02:39	WG2029960
Chloroform	U		0.000111	0.00500	1	03/27/2023 20:02	WG2030727
Chloromethane	U		0.000960	0.00250	1	03/26/2023 02:39	WG2029960

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-Dibromoethane	U		0.000126	0.00100	1	03/26/2023 02:39	WG2029960
1,1-Dichloroethane	U		0.000100	0.00100	1	03/26/2023 02:39	WG2029960
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/26/2023 02:39	WG2029960
1,1-Dichloroethene	U		0.000188	0.00100	1	03/26/2023 02:39	WG2029960
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/26/2023 02:39	WG2029960
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/26/2023 02:39	WG2029960
1,2-Dichloropropane	U		0.000149	0.00100	1	03/26/2023 02:39	WG2029960
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/26/2023 02:39	WG2029960
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/26/2023 02:39	WG2029960
Ethylbenzene	U		0.000137	0.00100	1	03/26/2023 02:39	WG2029960
Isopropylbenzene	U		0.000105	0.00100	1	03/26/2023 02:39	WG2029960
p-Isopropyltoluene	U		0.000120	0.00100	1	03/26/2023 02:39	WG2029960
2-Butanone (MEK)	U		0.00119	0.0100	1	03/26/2023 02:39	WG2029960
2-Hexanone	U		0.000787	0.0100	1	03/26/2023 02:39	WG2029960
Methylene Chloride	U		0.000430	0.00500	1	03/26/2023 02:39	WG2029960
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/26/2023 02:39	WG2029960
Methyl tert-butyl ether	0.000756	J	0.000101	0.00100	1	03/26/2023 02:39	WG2029960
Naphthalene	U	J3 J4	0.00100	0.00500	1	03/26/2023 02:39	WG2029960
n-Propylbenzene	U		0.0000993	0.00100	1	03/26/2023 02:39	WG2029960
Styrene	U		0.000118	0.00100	1	03/26/2023 02:39	WG2029960
tert-Butyl alcohol	U		0.00406	0.00500	1	03/26/2023 02:39	WG2029960
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/26/2023 02:39	WG2029960
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/26/2023 02:39	WG2029960
Tetrachloroethene	U		0.000300	0.00100	1	03/26/2023 02:39	WG2029960
Toluene	U		0.000278	0.00100	1	03/26/2023 02:39	WG2029960
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/26/2023 02:39	WG2029960
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/26/2023 02:39	WG2029960
Trichloroethene	U		0.000190	0.00100	1	03/26/2023 02:39	WG2029960
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/26/2023 02:39	WG2029960
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/26/2023 02:39	WG2029960
Vinyl chloride	U		0.000234	0.00100	1	03/26/2023 02:39	WG2029960
o-Xylene	U		0.000174	0.00100	1	03/26/2023 02:39	WG2029960
m&p-Xylene	U		0.000430	0.00200	1	03/26/2023 02:39	WG2029960
Xylenes, Total	U		0.000174	0.00300	1	03/26/2023 02:39	WG2029960
(S) Toluene-d8	*95.6*			*80.0-120*		*03/26/2023 02:39*	WG2029960
(S) Toluene-d8	*98.3*			*80.0-120*		*03/27/2023 20:02*	WG2030727
(S) 4-Bromofluorobenzene	*81.9*			*77.0-126*		*03/26/2023 02:39*	WG2029960
(S) 4-Bromofluorobenzene	*100*			*77.0-126*		*03/27/2023 20:02*	WG2030727
(S) 1,2-Dichloroethane-d4	*89.7*			*70.0-130*		*03/26/2023 02:39*	WG2029960
(S) 1,2-Dichloroethane-d4	*81.2*			*70.0-130*		*03/27/2023 20:02*	WG2030727

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	0.274	B	0.0247	0.100	1	03/27/2023 23:57	WG2029729
(S) o-Terphenyl	*109*			*31.0-160*		*03/27/2023 23:57*	WG2029729

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3860		100	1	03/23/2023 04:32	WG2028223

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	279		3.79	10.0	10	03/26/2023 14:25	WG2030264
Fluoride	1.82	B	0.640	1.50	10	03/26/2023 14:25	WG2030264
Sulfate	2880		59.4	500	100	03/26/2023 14:39	WG2030264

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00438		0.000180	0.00200	1	03/23/2023 12:26	WG2027352
Arsenic,Dissolved	0.00428		0.000180	0.00200	1	03/23/2023 14:10	WG2027358
Barium	0.00846		0.000381	0.00200	1	03/23/2023 12:26	WG2027352
Barium,Dissolved	0.00776		0.000381	0.00200	1	03/23/2023 14:10	WG2027358
Calcium	509		0.0936	1.00	1	03/23/2023 12:26	WG2027352
Chromium	U		0.00124	0.00200	1	03/23/2023 12:26	WG2027352
Chromium,Dissolved	U		0.00124	0.00200	1	03/23/2023 14:10	WG2027358
Iron	U		0.0281	0.100	1	03/23/2023 12:26	WG2027352
Iron,Dissolved	U		0.0281	0.100	1	03/23/2023 14:10	WG2027358
Lead	U		0.000849	0.00200	1	03/23/2023 12:26	WG2027352
Lead,Dissolved	U		0.000849	0.00200	1	03/23/2023 14:10	WG2027358
Manganese	0.00109	B J	0.000704	0.00500	1	03/23/2023 12:26	WG2027352
Manganese,Dissolved	0.000794	J	0.000704	0.00500	1	03/23/2023 14:10	WG2027358
Potassium	1.39	J	0.108	2.00	1	03/23/2023 12:26	WG2027352
Selenium	0.00675		0.000300	0.00200	1	03/23/2023 12:26	WG2027352
Selenium,Dissolved	0.00670		0.000300	0.00200	1	03/23/2023 14:10	WG2027358
Sodium	251		0.376	2.00	1	03/23/2023 12:26	WG2027352

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	0.0328	B J	0.0314	0.100	1	03/22/2023 11:54	WG2027498
(S) a,a,a-Trifluorotoluene(FID)	*95.8*			*78.0-120*		*03/22/2023 11:54*	WG2027498

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	03/26/2023 03:01	WG2029960
Benzene	U		0.0000941	0.00100	1	03/26/2023 03:01	WG2029960
Bromodichloromethane	U		0.000136	0.00100	1	03/26/2023 03:01	WG2029960
Bromoform	U		0.000129	0.00100	1	03/26/2023 03:01	WG2029960
Bromomethane	U		0.000605	0.00500	1	03/26/2023 03:01	WG2029960
n-Butylbenzene	U		0.000157	0.00100	1	03/26/2023 03:01	WG2029960
sec-Butylbenzene	U		0.000125	0.00100	1	03/26/2023 03:01	WG2029960
Carbon disulfide	U		0.0000962	0.00100	1	03/26/2023 03:01	WG2029960
Carbon tetrachloride	U		0.000128	0.00100	1	03/26/2023 03:01	WG2029960
Chlorobenzene	U		0.000116	0.00100	1	03/26/2023 03:01	WG2029960
Chlorodibromomethane	U		0.000140	0.00100	1	03/26/2023 03:01	WG2029960
Chloroethane	U		0.000192	0.00500	1	03/26/2023 03:01	WG2029960
Chloroform	U		0.000111	0.00500	1	03/27/2023 23:56	WG2031005
Chloromethane	U		0.000960	0.00250	1	03/26/2023 03:01	WG2029960

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-Dibromoethane	U		0.000126	0.00100	1	03/26/2023 03:01	WG2029960
1,1-Dichloroethane	U		0.000100	0.00100	1	03/26/2023 03:01	WG2029960
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/26/2023 03:01	WG2029960
1,1-Dichloroethene	U		0.000188	0.00100	1	03/26/2023 03:01	WG2029960
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/26/2023 03:01	WG2029960
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/26/2023 03:01	WG2029960
1,2-Dichloropropane	U		0.000149	0.00100	1	03/26/2023 03:01	WG2029960
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/26/2023 03:01	WG2029960
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/26/2023 03:01	WG2029960
Ethylbenzene	U		0.000137	0.00100	1	03/26/2023 03:01	WG2029960
Isopropylbenzene	U		0.000105	0.00100	1	03/26/2023 03:01	WG2029960
p-Isopropyltoluene	U		0.000120	0.00100	1	03/26/2023 03:01	WG2029960
2-Butanone (MEK)	U		0.00119	0.0100	1	03/26/2023 03:01	WG2029960
2-Hexanone	U		0.000787	0.0100	1	03/26/2023 03:01	WG2029960
Methylene Chloride	U		0.000430	0.00500	1	03/26/2023 03:01	WG2029960
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/26/2023 03:01	WG2029960
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/26/2023 03:01	WG2029960
Naphthalene	U	J3 J4	0.00100	0.00500	1	03/26/2023 03:01	WG2029960
n-Propylbenzene	U		0.0000993	0.00100	1	03/26/2023 03:01	WG2029960
Styrene	U		0.000118	0.00100	1	03/26/2023 03:01	WG2029960
tert-Butyl alcohol	U		0.00406	0.00500	1	03/26/2023 03:01	WG2029960
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/26/2023 03:01	WG2029960
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/26/2023 03:01	WG2029960
Tetrachloroethene	U		0.000300	0.00100	1	03/26/2023 03:01	WG2029960
Toluene	U		0.000278	0.00100	1	03/26/2023 03:01	WG2029960
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/26/2023 03:01	WG2029960
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/26/2023 03:01	WG2029960
Trichloroethene	U		0.000190	0.00100	1	03/26/2023 03:01	WG2029960
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/26/2023 03:01	WG2029960
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/26/2023 03:01	WG2029960
Vinyl chloride	U		0.000234	0.00100	1	03/26/2023 03:01	WG2029960
o-Xylene	U		0.000174	0.00100	1	03/26/2023 03:01	WG2029960
m&p-Xylene	U		0.000430	0.00200	1	03/26/2023 03:01	WG2029960
Xylenes, Total	U		0.000174	0.00300	1	03/26/2023 03:01	WG2029960
(S) Toluene-d8	*95.9*			*80.0-120*		*03/26/2023 03:01*	WG2029960
(S) Toluene-d8	*106*			*80.0-120*		*03/27/2023 23:56*	WG2031005
(S) 4-Bromofluorobenzene	*82.0*			*77.0-126*		*03/26/2023 03:01*	WG2029960
(S) 4-Bromofluorobenzene	*94.2*			*77.0-126*		*03/27/2023 23:56*	WG2031005
(S) 1,2-Dichloroethane-d4	*87.7*			*70.0-130*		*03/26/2023 03:01*	WG2029960
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*03/27/2023 23:56*	WG2031005

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	0.0756	B J	0.0247	0.100	1	03/28/2023 00:17	WG2029729
(S) o-Terphenyl	*111*			*31.0-160*		*03/28/2023 00:17*	WG2029729

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4790		100	1	03/23/2023 04:32	WG2028223

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	532		3.79	10.0	10	03/22/2023 00:14	WG2027359
Fluoride	1.25	J	0.640	1.50	10	03/22/2023 00:14	WG2027359
Nitrate	7.87		0.480	1.00	10	03/22/2023 00:14	WG2027359
Nitrite	U		0.420	1.00	10	03/22/2023 00:14	WG2027359
Sulfate	2810		59.4	500	100	03/22/2023 05:11	WG2027359

Sample Narrative:

L1596664-04 WG2027359: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00341		0.000180	0.00200	1	03/23/2023 13:12	WG2027352
Arsenic,Dissolved	0.00288		0.000180	0.00200	1	03/23/2023 14:15	WG2027358
Barium	0.0129		0.000381	0.00200	1	03/23/2023 13:12	WG2027352
Barium,Dissolved	0.00664		0.000381	0.00200	1	03/23/2023 14:15	WG2027358
Calcium	543		0.0936	1.00	1	03/23/2023 13:12	WG2027352
Chromium	U		0.00124	0.00200	1	03/23/2023 13:12	WG2027352
Chromium,Dissolved	U		0.00124	0.00200	1	03/23/2023 14:15	WG2027358
Iron	0.219		0.0281	0.100	1	03/23/2023 13:12	WG2027352
Iron,Dissolved	U		0.0281	0.100	1	03/23/2023 14:15	WG2027358
Lead	U		0.000849	0.00200	1	03/23/2023 13:12	WG2027352
Lead,Dissolved	U		0.000849	0.00200	1	03/23/2023 14:15	WG2027358
Manganese	0.0140		0.000704	0.00500	1	03/23/2023 13:12	WG2027352
Manganese,Dissolved	U		0.000704	0.00500	1	03/23/2023 14:15	WG2027358
Potassium	0.860	J	0.108	2.00	1	03/23/2023 13:12	WG2027352
Selenium	0.0226		0.000300	0.00200	1	03/23/2023 13:12	WG2027352
Selenium,Dissolved	0.0231		0.000300	0.00200	1	03/23/2023 14:15	WG2027358
Sodium	600		0.376	2.00	1	03/23/2023 13:12	WG2027352

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	0.0336	B J	0.0314	0.100	1	03/22/2023 12:16	WG2027498
(S) a,a,a-Trifluorotoluene(FID)	*95.6*			*78.0-120*		*03/22/2023 12:16*	WG2027498

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	03/25/2023 12:53	WG2030006
Benzene	U		0.0000941	0.00100	1	03/25/2023 12:53	WG2030006
Bromodichloromethane	U		0.000136	0.00100	1	03/25/2023 12:53	WG2030006
Bromoform	U		0.000129	0.00100	1	03/25/2023 12:53	WG2030006
Bromomethane	U	J3	0.000605	0.00500	1	03/25/2023 12:53	WG2030006
n-Butylbenzene	U		0.000157	0.00100	1	03/25/2023 12:53	WG2030006
sec-Butylbenzene	U		0.000125	0.00100	1	03/25/2023 12:53	WG2030006
Carbon disulfide	U		0.0000962	0.00100	1	03/25/2023 12:53	WG2030006
Carbon tetrachloride	U		0.000128	0.00100	1	03/25/2023 12:53	WG2030006

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	03/25/2023 12:53	WG2030006
Chlorodibromomethane	U		0.000140	0.00100	1	03/25/2023 12:53	WG2030006
Chloroethane	U		0.000192	0.00500	1	03/25/2023 12:53	WG2030006
Chloroform	U		0.000111	0.00500	1	03/25/2023 12:53	WG2030006
Chloromethane	U		0.000960	0.00250	1	03/25/2023 12:53	WG2030006
1,2-Dibromoethane	U		0.000126	0.00100	1	03/25/2023 12:53	WG2030006
1,1-Dichloroethane	U		0.000100	0.00100	1	03/25/2023 12:53	WG2030006
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/25/2023 12:53	WG2030006
1,1-Dichloroethene	U		0.000188	0.00100	1	03/25/2023 12:53	WG2030006
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/25/2023 12:53	WG2030006
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/25/2023 12:53	WG2030006
1,2-Dichloropropane	U		0.000149	0.00100	1	03/25/2023 12:53	WG2030006
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/25/2023 12:53	WG2030006
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/25/2023 12:53	WG2030006
Ethylbenzene	U		0.000137	0.00100	1	03/25/2023 12:53	WG2030006
Isopropylbenzene	U		0.000105	0.00100	1	03/25/2023 12:53	WG2030006
p-Isopropyltoluene	U		0.000120	0.00100	1	03/25/2023 12:53	WG2030006
2-Butanone (MEK)	U		0.00119	0.0100	1	03/25/2023 12:53	WG2030006
2-Hexanone	U		0.000787	0.0100	1	03/25/2023 12:53	WG2030006
Methylene Chloride	U		0.000430	0.00500	1	03/25/2023 12:53	WG2030006
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/25/2023 12:53	WG2030006
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/25/2023 12:53	WG2030006
Naphthalene	U		0.00100	0.00500	1	03/25/2023 12:53	WG2030006
n-Propylbenzene	U		0.0000993	0.00100	1	03/25/2023 12:53	WG2030006
Styrene	U		0.000118	0.00100	1	03/25/2023 12:53	WG2030006
tert-Butyl alcohol	U		0.00406	0.00500	1	03/25/2023 12:53	WG2030006
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/25/2023 12:53	WG2030006
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/25/2023 12:53	WG2030006
Tetrachloroethene	U		0.000300	0.00100	1	03/25/2023 12:53	WG2030006
Toluene	U		0.000278	0.00100	1	03/25/2023 12:53	WG2030006
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/25/2023 12:53	WG2030006
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/25/2023 12:53	WG2030006
Trichloroethene	U		0.000190	0.00100	1	03/25/2023 12:53	WG2030006
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/25/2023 12:53	WG2030006
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/25/2023 12:53	WG2030006
Vinyl chloride	U		0.000234	0.00100	1	03/25/2023 12:53	WG2030006
o-Xylene	U		0.000174	0.00100	1	03/25/2023 12:53	WG2030006
m&p-Xylene	U		0.000430	0.00200	1	03/25/2023 12:53	WG2030006
Xylenes, Total	U		0.000174	0.00300	1	03/25/2023 12:53	WG2030006
(S) Toluene-d8	*112*			*80.0-120*		*03/25/2023 12:53*	WG2030006
(S) 4-Bromofluorobenzene	*106*			*77.0-126*		*03/25/2023 12:53*	WG2030006
(S) 1,2-Dichloroethane-d4	*100*			*70.0-130*		*03/25/2023 12:53*	WG2030006

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	0.0386	B J	0.0247	0.100	1	03/28/2023 00:37	WG2029729
(S) o-Terphenyl	*107*			*31.0-160*		*03/28/2023 00:37*	WG2029729

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4010		100	1	03/23/2023 04:32	WG2028223

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	431		3.79	10.0	10	03/26/2023 14:52	WG2030264
Fluoride	1.79	B	0.640	1.50	10	03/26/2023 14:52	WG2030264
Sulfate	2780		59.4	500	100	03/26/2023 15:06	WG2030264

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00314		0.000180	0.00200	1	03/23/2023 13:23	WG2027352
Arsenic,Dissolved	0.00262		0.000180	0.00200	1	03/23/2023 14:18	WG2027358
Barium	0.0210		0.000381	0.00200	1	03/23/2023 13:23	WG2027352
Barium,Dissolved	0.00777		0.000381	0.00200	1	03/23/2023 14:18	WG2027358
Calcium	568		0.0936	1.00	1	03/23/2023 13:23	WG2027352
Chromium	U		0.00124	0.00200	1	03/23/2023 13:23	WG2027352
Chromium,Dissolved	U		0.00124	0.00200	1	03/23/2023 14:18	WG2027358
Iron	0.289		0.0281	0.100	1	03/23/2023 13:23	WG2027352
Iron,Dissolved	U		0.0281	0.100	1	03/23/2023 14:18	WG2027358
Lead	0.00410		0.000849	0.00200	1	03/23/2023 13:23	WG2027352
Lead,Dissolved	U		0.000849	0.00200	1	03/23/2023 14:18	WG2027358
Manganese	0.0334		0.000704	0.00500	1	03/23/2023 13:23	WG2027352
Manganese,Dissolved	U		0.000704	0.00500	1	03/23/2023 14:18	WG2027358
Potassium	0.742	J	0.108	2.00	1	03/23/2023 13:23	WG2027352
Selenium	0.0171		0.000300	0.00200	1	03/23/2023 13:23	WG2027352
Selenium,Dissolved	0.0182		0.000300	0.00200	1	03/23/2023 14:18	WG2027358
Sodium	442		0.376	2.00	1	03/23/2023 13:23	WG2027352

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	0.0317	B J	0.0314	0.100	1	03/22/2023 12:38	WG2027498
(S) a,a,a-Trifluorotoluene(FID)	*96.2*			*78.0-120*		*03/22/2023 12:38*	WG2027498

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	03/25/2023 13:16	WG2030006
Benzene	U		0.0000941	0.00100	1	03/25/2023 13:16	WG2030006
Bromodichloromethane	U		0.000136	0.00100	1	03/25/2023 13:16	WG2030006
Bromoform	U		0.000129	0.00100	1	03/25/2023 13:16	WG2030006
Bromomethane	U	J3	0.000605	0.00500	1	03/25/2023 13:16	WG2030006
n-Butylbenzene	U		0.000157	0.00100	1	03/25/2023 13:16	WG2030006
sec-Butylbenzene	U		0.000125	0.00100	1	03/25/2023 13:16	WG2030006
Carbon disulfide	U		0.0000962	0.00100	1	03/25/2023 13:16	WG2030006
Carbon tetrachloride	U		0.000128	0.00100	1	03/25/2023 13:16	WG2030006
Chlorobenzene	U		0.000116	0.00100	1	03/25/2023 13:16	WG2030006
Chlorodibromomethane	U		0.000140	0.00100	1	03/25/2023 13:16	WG2030006
Chloroethane	U		0.000192	0.00500	1	03/25/2023 13:16	WG2030006
Chloroform	U		0.000111	0.00500	1	03/25/2023 13:16	WG2030006
Chloromethane	U		0.000960	0.00250	1	03/25/2023 13:16	WG2030006

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-Dibromoethane	U		0.000126	0.00100	1	03/25/2023 13:16	WG2030006
1,1-Dichloroethane	U		0.000100	0.00100	1	03/25/2023 13:16	WG2030006
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/25/2023 13:16	WG2030006
1,1-Dichloroethene	U		0.000188	0.00100	1	03/25/2023 13:16	WG2030006
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/25/2023 13:16	WG2030006
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/25/2023 13:16	WG2030006
1,2-Dichloropropane	U		0.000149	0.00100	1	03/25/2023 13:16	WG2030006
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/25/2023 13:16	WG2030006
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/25/2023 13:16	WG2030006
Ethylbenzene	U		0.000137	0.00100	1	03/25/2023 13:16	WG2030006
Isopropylbenzene	U		0.000105	0.00100	1	03/25/2023 13:16	WG2030006
p-Isopropyltoluene	U		0.000120	0.00100	1	03/25/2023 13:16	WG2030006
2-Butanone (MEK)	U		0.00119	0.0100	1	03/25/2023 13:16	WG2030006
2-Hexanone	U		0.000787	0.0100	1	03/25/2023 13:16	WG2030006
Methylene Chloride	U		0.000430	0.00500	1	03/25/2023 13:16	WG2030006
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/25/2023 13:16	WG2030006
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/25/2023 13:16	WG2030006
Naphthalene	U		0.00100	0.00500	1	03/25/2023 13:16	WG2030006
n-Propylbenzene	U		0.0000993	0.00100	1	03/25/2023 13:16	WG2030006
Styrene	U		0.000118	0.00100	1	03/25/2023 13:16	WG2030006
tert-Butyl alcohol	U		0.00406	0.00500	1	03/25/2023 13:16	WG2030006
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/25/2023 13:16	WG2030006
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/25/2023 13:16	WG2030006
Tetrachloroethene	U		0.000300	0.00100	1	03/25/2023 13:16	WG2030006
Toluene	U		0.000278	0.00100	1	03/25/2023 13:16	WG2030006
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/25/2023 13:16	WG2030006
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/25/2023 13:16	WG2030006
Trichloroethene	U		0.000190	0.00100	1	03/25/2023 13:16	WG2030006
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/25/2023 13:16	WG2030006
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/25/2023 13:16	WG2030006
Vinyl chloride	U		0.000234	0.00100	1	03/25/2023 13:16	WG2030006
o-Xylene	U		0.000174	0.00100	1	03/25/2023 13:16	WG2030006
m&p-Xylene	U		0.000430	0.00200	1	03/25/2023 13:16	WG2030006
Xylenes, Total	U		0.000174	0.00300	1	03/25/2023 13:16	WG2030006
(S) Toluene-d8	*115*			*80.0-120*		*03/25/2023 13:16*	WG2030006
(S) 4-Bromofluorobenzene	*107*			*77.0-126*		*03/25/2023 13:16*	WG2030006
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*03/25/2023 13:16*	WG2030006

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	0.0446	B J	0.0247	0.100	1	03/28/2023 00:58	WG2029729
(S) o-Terphenyl	*105*			*31.0-160*		*03/28/2023 00:58*	WG2029729

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3630		50.0	1	03/23/2023 04:32	WG2028223

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	322		3.79	10.0	10	03/26/2023 15:46	WG2030264
Fluoride	2.29	B	0.640	1.50	10	03/26/2023 15:46	WG2030264
Sulfate	2120		59.4	500	100	03/26/2023 15:59	WG2030264

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00315		0.000180	0.00200	1	03/23/2023 13:26	WG2027352
Arsenic,Dissolved	0.00297		0.000180	0.00200	1	03/23/2023 14:21	WG2027358
Barium	0.0113		0.000381	0.00200	1	03/23/2023 13:26	WG2027352
Barium,Dissolved	0.0102		0.000381	0.00200	1	03/23/2023 14:21	WG2027358
Calcium	593		0.0936	1.00	1	03/23/2023 13:26	WG2027352
Chromium	U		0.00124	0.00200	1	03/23/2023 13:26	WG2027352
Chromium,Dissolved	U		0.00124	0.00200	1	03/23/2023 14:21	WG2027358
Iron	0.0603	J	0.0281	0.100	1	03/23/2023 13:26	WG2027352
Iron,Dissolved	U		0.0281	0.100	1	03/23/2023 14:21	WG2027358
Lead	0.00138	J	0.000849	0.00200	1	03/23/2023 13:26	WG2027352
Lead,Dissolved	0.000858	J	0.000849	0.00200	1	03/23/2023 14:21	WG2027358
Manganese	0.0122		0.000704	0.00500	1	03/23/2023 13:26	WG2027352
Manganese,Dissolved	0.000780	J	0.000704	0.00500	1	03/23/2023 14:21	WG2027358
Potassium	9.57		0.108	2.00	1	03/23/2023 13:26	WG2027352
Selenium	0.0127		0.000300	0.00200	1	03/23/2023 13:26	WG2027352
Selenium,Dissolved	0.0134		0.000300	0.00200	1	03/23/2023 14:21	WG2027358
Sodium	222		0.376	2.00	1	03/23/2023 13:26	WG2027352

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	03/22/2023 13:00	WG2027498
(S) a,a,a-Trifluorotoluene(FID)	*96.2*			*78.0-120*		*03/22/2023 13:00*	WG2027498

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	03/25/2023 13:40	WG2030006
Benzene	U		0.0000941	0.00100	1	03/25/2023 13:40	WG2030006
Bromodichloromethane	U		0.000136	0.00100	1	03/25/2023 13:40	WG2030006
Bromoform	U		0.000129	0.00100	1	03/25/2023 13:40	WG2030006
Bromomethane	U	J3	0.000605	0.00500	1	03/25/2023 13:40	WG2030006
n-Butylbenzene	U		0.000157	0.00100	1	03/25/2023 13:40	WG2030006
sec-Butylbenzene	U		0.000125	0.00100	1	03/25/2023 13:40	WG2030006
Carbon disulfide	U		0.0000962	0.00100	1	03/25/2023 13:40	WG2030006
Carbon tetrachloride	U		0.000128	0.00100	1	03/25/2023 13:40	WG2030006
Chlorobenzene	U		0.000116	0.00100	1	03/25/2023 13:40	WG2030006
Chlorodibromomethane	U		0.000140	0.00100	1	03/25/2023 13:40	WG2030006
Chloroethane	U		0.000192	0.00500	1	03/25/2023 13:40	WG2030006
Chloroform	U		0.000111	0.00500	1	03/25/2023 13:40	WG2030006
Chloromethane	U		0.000960	0.00250	1	03/25/2023 13:40	WG2030006

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-Dibromoethane	U		0.000126	0.00100	1	03/25/2023 13:40	WG2030006
1,1-Dichloroethane	U		0.000100	0.00100	1	03/25/2023 13:40	WG2030006
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/25/2023 13:40	WG2030006
1,1-Dichloroethene	U		0.000188	0.00100	1	03/25/2023 13:40	WG2030006
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/25/2023 13:40	WG2030006
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/25/2023 13:40	WG2030006
1,2-Dichloropropane	U		0.000149	0.00100	1	03/25/2023 13:40	WG2030006
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/25/2023 13:40	WG2030006
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/25/2023 13:40	WG2030006
Ethylbenzene	U		0.000137	0.00100	1	03/25/2023 13:40	WG2030006
Isopropylbenzene	U		0.000105	0.00100	1	03/25/2023 13:40	WG2030006
p-Isopropyltoluene	U		0.000120	0.00100	1	03/25/2023 13:40	WG2030006
2-Butanone (MEK)	U		0.00119	0.0100	1	03/25/2023 13:40	WG2030006
2-Hexanone	U		0.000787	0.0100	1	03/25/2023 13:40	WG2030006
Methylene Chloride	U		0.000430	0.00500	1	03/25/2023 13:40	WG2030006
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/25/2023 13:40	WG2030006
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/25/2023 13:40	WG2030006
Naphthalene	U		0.00100	0.00500	1	03/25/2023 13:40	WG2030006
n-Propylbenzene	U		0.0000993	0.00100	1	03/25/2023 13:40	WG2030006
Styrene	U		0.000118	0.00100	1	03/25/2023 13:40	WG2030006
tert-Butyl alcohol	U		0.00406	0.00500	1	03/25/2023 13:40	WG2030006
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/25/2023 13:40	WG2030006
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/25/2023 13:40	WG2030006
Tetrachloroethene	U		0.000300	0.00100	1	03/25/2023 13:40	WG2030006
Toluene	U		0.000278	0.00100	1	03/25/2023 13:40	WG2030006
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/25/2023 13:40	WG2030006
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/25/2023 13:40	WG2030006
Trichloroethene	U		0.000190	0.00100	1	03/25/2023 13:40	WG2030006
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/25/2023 13:40	WG2030006
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/25/2023 13:40	WG2030006
Vinyl chloride	U		0.000234	0.00100	1	03/25/2023 13:40	WG2030006
o-Xylene	U		0.000174	0.00100	1	03/25/2023 13:40	WG2030006
m&p-Xylene	U		0.000430	0.00200	1	03/25/2023 13:40	WG2030006
Xylenes, Total	U		0.000174	0.00300	1	03/25/2023 13:40	WG2030006
(S) Toluene-d8	*116*			*80.0-120*		*03/25/2023 13:40*	WG2030006
(S) 4-Bromofluorobenzene	*105*			*77.0-126*		*03/25/2023 13:40*	WG2030006
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*03/25/2023 13:40*	WG2030006

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	0.0846	B J	0.0247	0.100	1	03/28/2023 01:18	WG2029729
(S) o-Terphenyl	*111*			*31.0-160*		*03/28/2023 01:18*	WG2029729

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2350		50.0	1	03/23/2023 04:32	WG2028223

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	03/22/2023 23:38	WG2028157

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	73.6		3.79	10.0	10	03/22/2023 00:27	WG2027359
Fluoride	0.664	J	0.640	1.50	10	03/22/2023 00:27	WG2027359
Nitrate	4.61		0.480	1.00	10	03/22/2023 00:27	WG2027359
Nitrite	U		0.420	1.00	10	03/22/2023 00:27	WG2027359
Sulfate	1590		5.94	50.0	10	03/22/2023 00:27	WG2027359

Sample Narrative:

L1596664-07 WG2027359: Dilution due to matrix.

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	03/22/2023 11:18	WG2027332
Mercury,Dissolved	U		0.000100	0.000200	1	03/22/2023 18:50	WG2027334

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	0.162	J	0.0200	0.200	1	03/22/2023 14:43	WG2027344
Boron,Dissolved	0.157	J	0.0200	0.200	1	03/22/2023 19:52	WG2027354

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00141	J	0.000180	0.00200	1	03/23/2023 13:30	WG2027352
Arsenic,Dissolved	0.00122	J	0.000180	0.00200	1	03/23/2023 14:24	WG2027358
Barium	0.0250		0.000381	0.00200	1	03/23/2023 13:30	WG2027352
Barium,Dissolved	0.0245		0.000381	0.00200	1	03/23/2023 14:24	WG2027358
Cadmium	U		0.000150	0.00100	1	03/23/2023 13:30	WG2027352
Cadmium,Dissolved	U		0.000150	0.00100	1	03/23/2023 14:24	WG2027358
Calcium	491		0.0936	1.00	1	03/23/2023 13:30	WG2027352
Chromium	U		0.00124	0.00200	1	03/23/2023 13:30	WG2027352
Chromium,Dissolved	0.00130	J	0.00124	0.00200	1	03/23/2023 14:24	WG2027358
Cobalt	0.0000610	J	0.0000596	0.00200	1	03/23/2023 13:30	WG2027352
Cobalt,Dissolved	0.000122	J	0.0000596	0.00200	1	03/23/2023 14:24	WG2027358
Iron	U		0.0281	0.100	1	03/23/2023 13:30	WG2027352
Iron,Dissolved	0.198		0.0281	0.100	1	03/23/2023 14:24	WG2027358
Lead	U		0.000849	0.00200	1	03/23/2023 13:30	WG2027352
Lead,Dissolved	0.000862	J	0.000849	0.00200	1	03/23/2023 14:24	WG2027358
Manganese	0.000918	B J	0.000704	0.00500	1	03/23/2023 13:30	WG2027352
Manganese,Dissolved	0.000805	J	0.000704	0.00500	1	03/23/2023 14:24	WG2027358
Nickel	0.00131	J	0.000816	0.00200	1	03/23/2023 13:30	WG2027352
Nickel,Dissolved	0.00134	J	0.000816	0.00200	1	03/23/2023 14:24	WG2027358

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Potassium	2.05		0.108	2.00	1	03/23/2023 13:30	WG2027352
Selenium	0.00566		0.000300	0.00200	1	03/23/2023 13:30	WG2027352
Selenium,Dissolved	0.00548		0.000300	0.00200	1	03/23/2023 14:24	WG2027358
Sodium	42.6		0.376	2.00	1	03/23/2023 13:30	WG2027352
Uranium	0.0189		0.0000789	0.00100	1	03/23/2023 13:30	WG2027352
Uranium,Dissolved	0.0192		0.0000789	0.00100	1	03/23/2023 14:24	WG2027358
Vanadium	0.00964		0.000664	0.00500	1	03/23/2023 13:30	WG2027352
Vanadium,Dissolved	0.00874		0.000664	0.00500	1	03/23/2023 14:24	WG2027358

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	03/22/2023 13:21	WG2027498
(S) a,a,a-Trifluorotoluene(FID)	*97.1*			*78.0-120*		*03/22/2023 13:21*	WG2027498

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	03/25/2023 14:04	WG2030006
Benzene	U		0.0000941	0.00100	1	03/25/2023 14:04	WG2030006
Bromodichloromethane	U		0.000136	0.00100	1	03/25/2023 14:04	WG2030006
Bromoform	U		0.000129	0.00100	1	03/25/2023 14:04	WG2030006
Bromomethane	U	J3	0.000605	0.00500	1	03/25/2023 14:04	WG2030006
n-Butylbenzene	U		0.000157	0.00100	1	03/25/2023 14:04	WG2030006
sec-Butylbenzene	U		0.000125	0.00100	1	03/25/2023 14:04	WG2030006
Carbon disulfide	U		0.0000962	0.00100	1	03/25/2023 14:04	WG2030006
Carbon tetrachloride	U		0.000128	0.00100	1	03/25/2023 14:04	WG2030006
Chlorobenzene	U		0.000116	0.00100	1	03/25/2023 14:04	WG2030006
Chlorodibromomethane	U		0.000140	0.00100	1	03/25/2023 14:04	WG2030006
Chloroethane	U		0.000192	0.00500	1	03/25/2023 14:04	WG2030006
Chloroform	U		0.000111	0.00500	1	03/25/2023 14:04	WG2030006
Chloromethane	U		0.000960	0.00250	1	03/25/2023 14:04	WG2030006
1,2-Dibromoethane	U		0.000126	0.00100	1	03/25/2023 14:04	WG2030006
1,1-Dichloroethane	U		0.000100	0.00100	1	03/25/2023 14:04	WG2030006
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/25/2023 14:04	WG2030006
1,1-Dichloroethene	U		0.000188	0.00100	1	03/25/2023 14:04	WG2030006
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/25/2023 14:04	WG2030006
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/25/2023 14:04	WG2030006
1,2-Dichloropropane	U		0.000149	0.00100	1	03/25/2023 14:04	WG2030006
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/25/2023 14:04	WG2030006
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/25/2023 14:04	WG2030006
Ethylbenzene	U		0.000137	0.00100	1	03/25/2023 14:04	WG2030006
Isopropylbenzene	U		0.000105	0.00100	1	03/25/2023 14:04	WG2030006
p-Isopropyltoluene	U		0.000120	0.00100	1	03/25/2023 14:04	WG2030006
2-Butanone (MEK)	U		0.00119	0.0100	1	03/25/2023 14:04	WG2030006
2-Hexanone	U		0.000787	0.0100	1	03/25/2023 14:04	WG2030006
Methylene Chloride	U		0.000430	0.00500	1	03/25/2023 14:04	WG2030006
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/25/2023 14:04	WG2030006
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/25/2023 14:04	WG2030006
Naphthalene	U		0.00100	0.00500	1	03/25/2023 14:04	WG2030006
n-Propylbenzene	U		0.0000993	0.00100	1	03/25/2023 14:04	WG2030006
Styrene	U		0.000118	0.00100	1	03/25/2023 14:04	WG2030006
tert-Butyl alcohol	U		0.00406	0.00500	1	03/25/2023 14:04	WG2030006
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/25/2023 14:04	WG2030006
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/25/2023 14:04	WG2030006

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Tetrachloroethene	U		0.000300	0.00100	1	03/25/2023 14:04	WG2030006
Toluene	U		0.000278	0.00100	1	03/25/2023 14:04	WG2030006
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/25/2023 14:04	WG2030006
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/25/2023 14:04	WG2030006
Trichloroethene	U		0.000190	0.00100	1	03/25/2023 14:04	WG2030006
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/25/2023 14:04	WG2030006
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/25/2023 14:04	WG2030006
Vinyl chloride	U		0.000234	0.00100	1	03/25/2023 14:04	WG2030006
o-Xylene	U		0.000174	0.00100	1	03/25/2023 14:04	WG2030006
m&p-Xylene	U		0.000430	0.00200	1	03/25/2023 14:04	WG2030006
Xylenes, Total	U		0.000174	0.00300	1	03/25/2023 14:04	WG2030006
(S) Toluene-d8	*108*			*80.0-120*		*03/25/2023 14:04*	WG2030006
(S) 4-Bromofluorobenzene	*98.5*			*77.0-126*		*03/25/2023 14:04*	WG2030006
(S) 1,2-Dichloroethane-d4	*99.8*			*70.0-130*		*03/25/2023 14:04*	WG2030006

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	0.0306	B J	0.0247	0.100	1	03/28/2023 01:38	WG2029729
(S) o-Terphenyl	*113*			*31.0-160*		*03/28/2023 01:38*	WG2029729

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		50.0	1	03/23/2023 04:32	WG2028223

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	03/22/2023 23:39	WG2028157

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	79.5		3.79	10.0	10	03/22/2023 00:41	WG2027359
Fluoride	0.770	J	0.640	1.50	10	03/22/2023 00:41	WG2027359
Nitrate	U		0.480	1.00	10	03/22/2023 00:41	WG2027359
Nitrite	U		0.420	1.00	10	03/22/2023 00:41	WG2027359
Sulfate	2760		59.4	500	100	03/22/2023 05:38	WG2027359

Sample Narrative:

L1596664-08 WG2027359: Dilution due to matrix.

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	03/22/2023 11:20	WG2027332
Mercury,Dissolved	U		0.000100	0.000200	1	03/22/2023 18:52	WG2027334

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	1.22		0.0200	0.200	1	03/22/2023 14:46	WG2027344
Boron,Dissolved	1.21		0.0200	0.200	1	03/22/2023 20:04	WG2027354

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00150	J	0.000180	0.00200	1	03/23/2023 13:33	WG2027352
Arsenic,Dissolved	0.00114	J	0.000180	0.00200	1	03/23/2023 14:28	WG2027358
Barium	0.0196		0.000381	0.00200	1	03/23/2023 13:33	WG2027352
Barium,Dissolved	0.0175		0.000381	0.00200	1	03/23/2023 14:28	WG2027358
Cadmium	U		0.000150	0.00100	1	03/23/2023 13:33	WG2027352
Cadmium,Dissolved	U		0.000150	0.00100	1	03/23/2023 14:28	WG2027358
Calcium	548		0.0936	1.00	1	03/23/2023 13:33	WG2027352
Chromium	U		0.00124	0.00200	1	03/23/2023 13:33	WG2027352
Chromium,Dissolved	U		0.00124	0.00200	1	03/23/2023 14:28	WG2027358
Cobalt	0.000340	J	0.0000596	0.00200	1	03/23/2023 13:33	WG2027352
Cobalt,Dissolved	0.0000832	J	0.0000596	0.00200	1	03/23/2023 14:28	WG2027358
Iron	0.235		0.0281	0.100	1	03/23/2023 13:33	WG2027352
Iron,Dissolved	U		0.0281	0.100	1	03/23/2023 14:28	WG2027358
Lead	U		0.000849	0.00200	1	03/23/2023 13:33	WG2027352
Lead,Dissolved	U		0.000849	0.00200	1	03/23/2023 14:28	WG2027358
Manganese	0.0347		0.000704	0.00500	1	03/23/2023 13:33	WG2027352
Manganese,Dissolved	0.00162	J	0.000704	0.00500	1	03/23/2023 14:28	WG2027358
Nickel	0.00228		0.000816	0.00200	1	03/23/2023 13:33	WG2027352
Nickel,Dissolved	0.00189	J	0.000816	0.00200	1	03/23/2023 14:28	WG2027358

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Potassium	1.94	J	0.108	2.00	1	03/23/2023 13:33	WG2027352
Selenium	0.00789		0.000300	0.00200	1	03/23/2023 13:33	WG2027352
Selenium,Dissolved	0.00852		0.000300	0.00200	1	03/23/2023 14:28	WG2027358
Sodium	306		0.376	2.00	1	03/23/2023 13:33	WG2027352
Uranium	0.0421		0.0000789	0.00100	1	03/23/2023 13:33	WG2027352
Uranium,Dissolved	0.0420		0.0000789	0.00100	1	03/23/2023 14:28	WG2027358
Vanadium	0.00876		0.000664	0.00500	1	03/23/2023 13:33	WG2027352
Vanadium,Dissolved	0.00667		0.000664	0.00500	1	03/23/2023 14:28	WG2027358

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	03/22/2023 13:43	WG2027498
(S) a,a,a-Trifluorotoluene(FID)	*96.4*			*78.0-120*		*03/22/2023 13:43*	WG2027498

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	03/25/2023 14:27	WG2030006
Benzene	U		0.0000941	0.00100	1	03/25/2023 14:27	WG2030006
Bromodichloromethane	U		0.000136	0.00100	1	03/25/2023 14:27	WG2030006
Bromoform	U		0.000129	0.00100	1	03/25/2023 14:27	WG2030006
Bromomethane	U	J3	0.000605	0.00500	1	03/25/2023 14:27	WG2030006
n-Butylbenzene	U		0.000157	0.00100	1	03/25/2023 14:27	WG2030006
sec-Butylbenzene	U		0.000125	0.00100	1	03/25/2023 14:27	WG2030006
Carbon disulfide	U		0.0000962	0.00100	1	03/25/2023 14:27	WG2030006
Carbon tetrachloride	U		0.000128	0.00100	1	03/25/2023 14:27	WG2030006
Chlorobenzene	U		0.000116	0.00100	1	03/25/2023 14:27	WG2030006
Chlorodibromomethane	U		0.000140	0.00100	1	03/25/2023 14:27	WG2030006
Chloroethane	U		0.000192	0.00500	1	03/25/2023 14:27	WG2030006
Chloroform	U		0.000111	0.00500	1	03/25/2023 14:27	WG2030006
Chloromethane	U		0.000960	0.00250	1	03/25/2023 14:27	WG2030006
1,2-Dibromoethane	U		0.000126	0.00100	1	03/25/2023 14:27	WG2030006
1,1-Dichloroethane	U		0.000100	0.00100	1	03/25/2023 14:27	WG2030006
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/25/2023 14:27	WG2030006
1,1-Dichloroethene	U		0.000188	0.00100	1	03/25/2023 14:27	WG2030006
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/25/2023 14:27	WG2030006
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/25/2023 14:27	WG2030006
1,2-Dichloropropane	U		0.000149	0.00100	1	03/25/2023 14:27	WG2030006
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/25/2023 14:27	WG2030006
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/25/2023 14:27	WG2030006
Ethylbenzene	U		0.000137	0.00100	1	03/25/2023 14:27	WG2030006
Isopropylbenzene	U		0.000105	0.00100	1	03/25/2023 14:27	WG2030006
p-Isopropyltoluene	U		0.000120	0.00100	1	03/25/2023 14:27	WG2030006
2-Butanone (MEK)	U		0.00119	0.0100	1	03/25/2023 14:27	WG2030006
2-Hexanone	U		0.000787	0.0100	1	03/25/2023 14:27	WG2030006
Methylene Chloride	U		0.000430	0.00500	1	03/25/2023 14:27	WG2030006
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/25/2023 14:27	WG2030006
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/25/2023 14:27	WG2030006
Naphthalene	U		0.00100	0.00500	1	03/25/2023 14:27	WG2030006
n-Propylbenzene	U		0.0000993	0.00100	1	03/25/2023 14:27	WG2030006
Styrene	U		0.000118	0.00100	1	03/25/2023 14:27	WG2030006
tert-Butyl alcohol	U		0.00406	0.00500	1	03/25/2023 14:27	WG2030006
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/25/2023 14:27	WG2030006
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/25/2023 14:27	WG2030006

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Tetrachloroethene	U		0.000300	0.00100	1	03/25/2023 14:27	WG2030006
Toluene	U		0.000278	0.00100	1	03/25/2023 14:27	WG2030006
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/25/2023 14:27	WG2030006
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/25/2023 14:27	WG2030006
Trichloroethene	U		0.000190	0.00100	1	03/25/2023 14:27	WG2030006
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/25/2023 14:27	WG2030006
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/25/2023 14:27	WG2030006
Vinyl chloride	U		0.000234	0.00100	1	03/25/2023 14:27	WG2030006
o-Xylene	U		0.000174	0.00100	1	03/25/2023 14:27	WG2030006
m&p-Xylene	U		0.000430	0.00200	1	03/25/2023 14:27	WG2030006
Xylenes, Total	U		0.000174	0.00300	1	03/25/2023 14:27	WG2030006
(S) Toluene-d8	*108*			*80.0-120*		*03/25/2023 14:27*	WG2030006
(S) 4-Bromofluorobenzene	*100*			*77.0-126*		*03/25/2023 14:27*	WG2030006
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*03/25/2023 14:27*	WG2030006

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	0.0826	B J	0.0247	0.100	1	03/28/2023 01:58	WG2029729
(S) o-Terphenyl	*115*			*31.0-160*		*03/28/2023 01:58*	WG2029729

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	3050		50.0	1	03/23/2023 04:32	WG2028223

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		0.00360	0.0100	2	03/22/2023 23:41	WG2028157

Sample Narrative:

L1596664-09 WG2028157: Dilution due to matrix.

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	136		3.79	10.0	10	03/22/2023 00:54	WG2027359
Fluoride	0.792	J	0.640	1.50	10	03/22/2023 00:54	WG2027359
Nitrate	12.9		0.480	1.00	10	03/22/2023 00:54	WG2027359
Nitrite	U		0.420	1.00	10	03/22/2023 00:54	WG2027359
Sulfate	1970		5.94	50.0	10	03/22/2023 00:54	WG2027359

Sample Narrative:

L1596664-09 WG2027359: Dilution due to matrix.

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	03/22/2023 10:51	WG2027332
Mercury,Dissolved	U		0.000100	0.000200	1	03/22/2023 18:55	WG2027334

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Boron	0.728		0.0200	0.200	1	03/22/2023 14:49	WG2027344
Boron,Dissolved	0.740		0.0200	0.200	1	03/22/2023 20:08	WG2027354

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00142	J	0.000180	0.00200	1	03/23/2023 13:36	WG2027352
Arsenic,Dissolved	0.00123	J	0.000180	0.00200	1	03/23/2023 14:31	WG2027358
Barium	0.0129		0.000381	0.00200	1	03/23/2023 13:36	WG2027352
Barium,Dissolved	0.0118		0.000381	0.00200	1	03/23/2023 14:31	WG2027358
Cadmium	U		0.000150	0.00100	1	03/23/2023 13:36	WG2027352
Cadmium,Dissolved	U		0.000150	0.00100	1	03/23/2023 14:31	WG2027358
Calcium	509		0.0936	1.00	1	03/23/2023 13:36	WG2027352
Chromium	U		0.00124	0.00200	1	03/23/2023 13:36	WG2027352
Chromium,Dissolved	U		0.00124	0.00200	1	03/23/2023 14:31	WG2027358
Cobalt	0.0000741	J	0.0000596	0.00200	1	03/23/2023 13:36	WG2027352
Cobalt,Dissolved	0.0000764	J	0.0000596	0.00200	1	03/23/2023 14:31	WG2027358
Iron	U		0.0281	0.100	1	03/23/2023 13:36	WG2027352
Iron,Dissolved	U		0.0281	0.100	1	03/23/2023 14:31	WG2027358
Lead	U		0.000849	0.00200	1	03/23/2023 13:36	WG2027352
Lead,Dissolved	U		0.000849	0.00200	1	03/23/2023 14:31	WG2027358
Manganese	U		0.000704	0.00500	1	03/23/2023 13:36	WG2027352

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Manganese,Dissolved	U		0.000704	0.00500	1	03/23/2023 14:31	WG2027358
Nickel	U		0.000816	0.00200	1	03/23/2023 13:36	WG2027352
Nickel,Dissolved	U		0.000816	0.00200	1	03/23/2023 14:31	WG2027358
Potassium	0.959	J	0.108	2.00	1	03/23/2023 13:36	WG2027352
Selenium	0.0128		0.000300	0.00200	1	03/23/2023 13:36	WG2027352
Selenium,Dissolved	0.0135		0.000300	0.00200	1	03/23/2023 14:31	WG2027358
Sodium	93.3		0.376	2.00	1	03/23/2023 13:36	WG2027352
Uranium	0.0373		0.0000789	0.00100	1	03/23/2023 13:36	WG2027352
Uranium,Dissolved	0.0398		0.0000789	0.00100	1	03/23/2023 14:31	WG2027358
Vanadium	0.0144		0.000664	0.00500	1	03/23/2023 13:36	WG2027352
Vanadium,Dissolved	0.0126		0.000664	0.00500	1	03/23/2023 14:31	WG2027358

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	0.0326	B J	0.0314	0.100	1	03/22/2023 14:05	WG2027498
(S) a,a,a-Trifluorotoluene(FID)	*96.9*			*78.0-120*		*03/22/2023 14:05*	WG2027498

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	03/25/2023 14:51	WG2030006
Benzene	U		0.0000941	0.00100	1	03/25/2023 14:51	WG2030006
Bromodichloromethane	U		0.000136	0.00100	1	03/25/2023 14:51	WG2030006
Bromoform	U		0.000129	0.00100	1	03/25/2023 14:51	WG2030006
Bromomethane	U	J3	0.000605	0.00500	1	03/25/2023 14:51	WG2030006
n-Butylbenzene	U		0.000157	0.00100	1	03/25/2023 14:51	WG2030006
sec-Butylbenzene	U		0.000125	0.00100	1	03/25/2023 14:51	WG2030006
Carbon disulfide	U		0.0000962	0.00100	1	03/25/2023 14:51	WG2030006
Carbon tetrachloride	U		0.000128	0.00100	1	03/25/2023 14:51	WG2030006
Chlorobenzene	U		0.000116	0.00100	1	03/25/2023 14:51	WG2030006
Chlorodibromomethane	U		0.000140	0.00100	1	03/25/2023 14:51	WG2030006
Chloroethane	U		0.000192	0.00500	1	03/25/2023 14:51	WG2030006
Chloroform	U		0.000111	0.00500	1	03/25/2023 14:51	WG2030006
Chloromethane	U		0.000960	0.00250	1	03/25/2023 14:51	WG2030006
1,2-Dibromoethane	U		0.000126	0.00100	1	03/25/2023 14:51	WG2030006
1,1-Dichloroethane	U		0.000100	0.00100	1	03/25/2023 14:51	WG2030006
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/25/2023 14:51	WG2030006
1,1-Dichloroethene	U		0.000188	0.00100	1	03/25/2023 14:51	WG2030006
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/25/2023 14:51	WG2030006
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/25/2023 14:51	WG2030006
1,2-Dichloropropane	U		0.000149	0.00100	1	03/25/2023 14:51	WG2030006
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/25/2023 14:51	WG2030006
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/25/2023 14:51	WG2030006
Ethylbenzene	U		0.000137	0.00100	1	03/25/2023 14:51	WG2030006
Isopropylbenzene	U		0.000105	0.00100	1	03/25/2023 14:51	WG2030006
p-Isopropyltoluene	U		0.000120	0.00100	1	03/25/2023 14:51	WG2030006
2-Butanone (MEK)	U		0.00119	0.0100	1	03/25/2023 14:51	WG2030006
2-Hexanone	U		0.000787	0.0100	1	03/25/2023 14:51	WG2030006
Methylene Chloride	U		0.000430	0.00500	1	03/25/2023 14:51	WG2030006
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/25/2023 14:51	WG2030006
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/25/2023 14:51	WG2030006
Naphthalene	U		0.00100	0.00500	1	03/25/2023 14:51	WG2030006
n-Propylbenzene	U		0.0000993	0.00100	1	03/25/2023 14:51	WG2030006
Styrene	U		0.000118	0.00100	1	03/25/2023 14:51	WG2030006

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
tert-Butyl alcohol	U		0.00406	0.00500	1	03/25/2023 14:51	WG2030006
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/25/2023 14:51	WG2030006
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/25/2023 14:51	WG2030006
Tetrachloroethene	U		0.000300	0.00100	1	03/25/2023 14:51	WG2030006
Toluene	U		0.000278	0.00100	1	03/25/2023 14:51	WG2030006
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/25/2023 14:51	WG2030006
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/25/2023 14:51	WG2030006
Trichloroethene	U		0.000190	0.00100	1	03/25/2023 14:51	WG2030006
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/25/2023 14:51	WG2030006
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/25/2023 14:51	WG2030006
Vinyl chloride	U		0.000234	0.00100	1	03/25/2023 14:51	WG2030006
o-Xylene	U		0.000174	0.00100	1	03/25/2023 14:51	WG2030006
m&p-Xylene	U		0.000430	0.00200	1	03/25/2023 14:51	WG2030006
Xylenes, Total	U		0.000174	0.00300	1	03/25/2023 14:51	WG2030006
(S) Toluene-d8	*116*			*80.0-120*		*03/25/2023 14:51*	WG2030006
(S) 4-Bromofluorobenzene	*99.9*			*77.0-126*		*03/25/2023 14:51*	WG2030006
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*03/25/2023 14:51*	WG2030006

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	03/28/2023 02:18	WG2029729
(S) o-Terphenyl	*106*			*31.0-160*		*03/28/2023 02:18*	WG2029729

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	0.000157	J	0.0000447	0.000400	1	03/23/2023 10:25	WG2027707
(S) Nitrobenzene-d5	*47.9*			*10.0-120*		*03/23/2023 10:25*	WG2027707

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	1840		25.0	1	03/23/2023 04:32	WG2028223

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		0.00360	0.0100	2	03/22/2023 23:42	WG2028157

Sample Narrative:

L1596664-10 WG2028157: Dilution due to matrix.

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	56.0		1.90	5.00	5	03/22/2023 01:08	WG2027359
Fluoride	1.24		0.320	0.750	5	03/22/2023 01:08	WG2027359
Nitrate	6.05		0.240	0.500	5	03/22/2023 01:08	WG2027359
Nitrite	U		0.210	0.500	5	03/22/2023 01:08	WG2027359
Sulfate	960		2.97	25.0	5	03/22/2023 01:08	WG2027359

Sample Narrative:

L1596664-10 WG2027359: Dilution due to matrix.

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	03/22/2023 11:22	WG2027332
Mercury,Dissolved	U		0.000100	0.000200	1	03/22/2023 18:57	WG2027334

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Boron	0.264		0.0200	0.200	1	03/22/2023 12:32	WG2027344
Boron,Dissolved	0.264		0.0200	0.200	1	03/22/2023 20:11	WG2027354

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00245		0.000180	0.00200	1	03/23/2023 13:39	WG2027352
Arsenic,Dissolved	0.00218		0.000180	0.00200	1	03/23/2023 14:34	WG2027358
Barium	0.0146		0.000381	0.00200	1	03/23/2023 13:39	WG2027352
Barium,Dissolved	0.0137		0.000381	0.00200	1	03/23/2023 14:34	WG2027358
Cadmium	U		0.000150	0.00100	1	03/23/2023 13:39	WG2027352
Cadmium,Dissolved	U		0.000150	0.00100	1	03/23/2023 14:34	WG2027358
Calcium	302		0.0936	1.00	1	03/23/2023 13:39	WG2027352
Chromium	U		0.00124	0.00200	1	03/23/2023 13:39	WG2027352
Chromium,Dissolved	U		0.00124	0.00200	1	03/23/2023 14:34	WG2027358
Cobalt	U		0.0000596	0.00200	1	03/23/2023 13:39	WG2027352
Cobalt,Dissolved	U		0.0000596	0.00200	1	03/23/2023 14:34	WG2027358
Iron	U		0.0281	0.100	1	03/23/2023 13:39	WG2027352
Iron,Dissolved	0.0616	J	0.0281	0.100	1	03/23/2023 14:34	WG2027358
Lead	U		0.000849	0.00200	1	03/23/2023 13:39	WG2027352
Lead,Dissolved	U		0.000849	0.00200	1	03/23/2023 14:34	WG2027358
Manganese	U		0.000704	0.00500	1	03/23/2023 13:39	WG2027352

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Manganese,Dissolved	U		0.000704	0.00500	1	03/23/2023 14:34	WG2027358
Nickel	0.00162	J	0.000816	0.00200	1	03/23/2023 13:39	WG2027352
Nickel,Dissolved	0.00162	J	0.000816	0.00200	1	03/23/2023 14:34	WG2027358
Potassium	1.05	J	0.108	2.00	1	03/23/2023 13:39	WG2027352
Selenium	0.00531		0.000300	0.00200	1	03/23/2023 13:39	WG2027352
Selenium,Dissolved	0.00523		0.000300	0.00200	1	03/23/2023 14:34	WG2027358
Sodium	77.6		0.376	2.00	1	03/23/2023 13:39	WG2027352
Uranium	0.0143		0.0000789	0.00100	1	03/23/2023 13:39	WG2027352
Uranium,Dissolved	0.0145		0.0000789	0.00100	1	03/23/2023 14:34	WG2027358
Vanadium	0.0228		0.000664	0.00500	1	03/23/2023 13:39	WG2027352
Vanadium,Dissolved	0.0201		0.000664	0.00500	1	03/23/2023 14:34	WG2027358

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	03/22/2023 14:27	WG2027498
(S) a,a,a-Trifluorotoluene(FID)	*96.1*			*78.0-120*		*03/22/2023 14:27*	WG2027498

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	03/25/2023 15:14	WG2030006
Benzene	U		0.0000941	0.00100	1	03/25/2023 15:14	WG2030006
Bromodichloromethane	U		0.000136	0.00100	1	03/25/2023 15:14	WG2030006
Bromoform	U		0.000129	0.00100	1	03/25/2023 15:14	WG2030006
Bromomethane	U	J3	0.000605	0.00500	1	03/25/2023 15:14	WG2030006
n-Butylbenzene	U		0.000157	0.00100	1	03/25/2023 15:14	WG2030006
sec-Butylbenzene	U		0.000125	0.00100	1	03/25/2023 15:14	WG2030006
Carbon disulfide	U		0.0000962	0.00100	1	03/25/2023 15:14	WG2030006
Carbon tetrachloride	U		0.000128	0.00100	1	03/25/2023 15:14	WG2030006
Chlorobenzene	U		0.000116	0.00100	1	03/25/2023 15:14	WG2030006
Chlorodibromomethane	U		0.000140	0.00100	1	03/25/2023 15:14	WG2030006
Chloroethane	U		0.000192	0.00500	1	03/25/2023 15:14	WG2030006
Chloroform	U		0.000111	0.00500	1	03/25/2023 15:14	WG2030006
Chloromethane	U		0.000960	0.00250	1	03/25/2023 15:14	WG2030006
1,2-Dibromoethane	U		0.000126	0.00100	1	03/25/2023 15:14	WG2030006
1,1-Dichloroethane	U		0.000100	0.00100	1	03/25/2023 15:14	WG2030006
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/25/2023 15:14	WG2030006
1,1-Dichloroethene	U		0.000188	0.00100	1	03/25/2023 15:14	WG2030006
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/25/2023 15:14	WG2030006
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/25/2023 15:14	WG2030006
1,2-Dichloropropane	U		0.000149	0.00100	1	03/25/2023 15:14	WG2030006
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/25/2023 15:14	WG2030006
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/25/2023 15:14	WG2030006
Ethylbenzene	U		0.000137	0.00100	1	03/25/2023 15:14	WG2030006
Isopropylbenzene	U		0.000105	0.00100	1	03/25/2023 15:14	WG2030006
p-Isopropyltoluene	U		0.000120	0.00100	1	03/25/2023 15:14	WG2030006
2-Butanone (MEK)	U		0.00119	0.0100	1	03/25/2023 15:14	WG2030006
2-Hexanone	U		0.000787	0.0100	1	03/25/2023 15:14	WG2030006
Methylene Chloride	U		0.000430	0.00500	1	03/25/2023 15:14	WG2030006
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/25/2023 15:14	WG2030006
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/25/2023 15:14	WG2030006
Naphthalene	U		0.00100	0.00500	1	03/25/2023 15:14	WG2030006
n-Propylbenzene	U		0.0000993	0.00100	1	03/25/2023 15:14	WG2030006
Styrene	U		0.000118	0.00100	1	03/25/2023 15:14	WG2030006

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
tert-Butyl alcohol	U		0.00406	0.00500	1	03/25/2023 15:14	WG2030006
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/25/2023 15:14	WG2030006
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/25/2023 15:14	WG2030006
Tetrachloroethene	U		0.000300	0.00100	1	03/25/2023 15:14	WG2030006
Toluene	U		0.000278	0.00100	1	03/25/2023 15:14	WG2030006
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/25/2023 15:14	WG2030006
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/25/2023 15:14	WG2030006
Trichloroethene	U		0.000190	0.00100	1	03/25/2023 15:14	WG2030006
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/25/2023 15:14	WG2030006
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/25/2023 15:14	WG2030006
Vinyl chloride	U		0.000234	0.00100	1	03/25/2023 15:14	WG2030006
o-Xylene	U		0.000174	0.00100	1	03/25/2023 15:14	WG2030006
m&p-Xylene	U		0.000430	0.00200	1	03/25/2023 15:14	WG2030006
Xylenes, Total	U		0.000174	0.00300	1	03/25/2023 15:14	WG2030006
(S) Toluene-d8	*113*			*80.0-120*		*03/25/2023 15:14*	WG2030006
(S) 4-Bromofluorobenzene	*102*			*77.0-126*		*03/25/2023 15:14*	WG2030006
(S) 1,2-Dichloroethane-d4	*100*			*70.0-130*		*03/25/2023 15:14*	WG2030006

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	03/28/2023 02:39	WG2029729
(S) o-Terphenyl	*111*			*31.0-160*		*03/28/2023 02:39*	WG2029729

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4510		100	1	03/23/2023 04:32	WG2028223

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	272		3.79	10.0	10	03/26/2023 16:13	WG2030264
Fluoride	1.87	B	0.640	1.50	10	03/26/2023 16:13	WG2030264
Sulfate	2920		59.4	500	100	03/26/2023 16:26	WG2030264

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00449		0.000180	0.00200	1	03/23/2023 13:49	WG2027352
Arsenic,Dissolved	0.00420		0.000180	0.00200	1	03/23/2023 14:38	WG2027358
Barium	0.00873		0.000381	0.00200	1	03/23/2023 13:49	WG2027352
Barium,Dissolved	0.00804		0.000381	0.00200	1	03/23/2023 14:38	WG2027358
Calcium	518		0.0936	1.00	1	03/23/2023 13:49	WG2027352
Chromium	U		0.00124	0.00200	1	03/23/2023 13:49	WG2027352
Chromium,Dissolved	U		0.00124	0.00200	1	03/23/2023 14:38	WG2027358
Iron	U		0.0281	0.100	1	03/23/2023 13:49	WG2027352
Iron,Dissolved	U		0.0281	0.100	1	03/23/2023 14:38	WG2027358
Lead	U		0.000849	0.00200	1	03/23/2023 13:49	WG2027352
Lead,Dissolved	U		0.000849	0.00200	1	03/23/2023 14:38	WG2027358
Manganese	U		0.000704	0.00500	1	03/23/2023 13:49	WG2027352
Manganese,Dissolved	U		0.000704	0.00500	1	03/23/2023 14:38	WG2027358
Potassium	1.45	J	0.108	2.00	1	03/23/2023 13:49	WG2027352
Selenium	0.00639		0.000300	0.00200	1	03/23/2023 13:49	WG2027352
Selenium,Dissolved	0.00637		0.000300	0.00200	1	03/23/2023 14:38	WG2027358
Sodium	260		0.376	2.00	1	03/23/2023 13:49	WG2027352

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	0.0321	B J	0.0314	0.100	1	03/22/2023 14:49	WG2027498
(S) a,a,a-Trifluorotoluene(FID)	*96.3*			*78.0-120*		*03/22/2023 14:49*	WG2027498

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	03/25/2023 15:38	WG2030006
Benzene	U		0.0000941	0.00100	1	03/25/2023 15:38	WG2030006
Bromodichloromethane	U		0.000136	0.00100	1	03/25/2023 15:38	WG2030006
Bromoform	U		0.000129	0.00100	1	03/25/2023 15:38	WG2030006
Bromomethane	U	J3	0.000605	0.00500	1	03/25/2023 15:38	WG2030006
n-Butylbenzene	U		0.000157	0.00100	1	03/25/2023 15:38	WG2030006
sec-Butylbenzene	U		0.000125	0.00100	1	03/25/2023 15:38	WG2030006
Carbon disulfide	U		0.0000962	0.00100	1	03/25/2023 15:38	WG2030006
Carbon tetrachloride	U		0.000128	0.00100	1	03/25/2023 15:38	WG2030006
Chlorobenzene	U		0.000116	0.00100	1	03/25/2023 15:38	WG2030006
Chlorodibromomethane	U		0.000140	0.00100	1	03/25/2023 15:38	WG2030006
Chloroethane	U		0.000192	0.00500	1	03/25/2023 15:38	WG2030006
Chloroform	U		0.000111	0.00500	1	03/25/2023 15:38	WG2030006
Chloromethane	U		0.000960	0.00250	1	03/25/2023 15:38	WG2030006

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-Dibromoethane	U		0.000126	0.00100	1	03/25/2023 15:38	WG2030006
1,1-Dichloroethane	U		0.000100	0.00100	1	03/25/2023 15:38	WG2030006
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/25/2023 15:38	WG2030006
1,1-Dichloroethene	U		0.000188	0.00100	1	03/25/2023 15:38	WG2030006
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/25/2023 15:38	WG2030006
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/25/2023 15:38	WG2030006
1,2-Dichloropropane	U		0.000149	0.00100	1	03/25/2023 15:38	WG2030006
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/25/2023 15:38	WG2030006
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/25/2023 15:38	WG2030006
Ethylbenzene	U		0.000137	0.00100	1	03/25/2023 15:38	WG2030006
Isopropylbenzene	U		0.000105	0.00100	1	03/25/2023 15:38	WG2030006
p-Isopropyltoluene	U		0.000120	0.00100	1	03/25/2023 15:38	WG2030006
2-Butanone (MEK)	U		0.00119	0.0100	1	03/25/2023 15:38	WG2030006
2-Hexanone	U		0.000787	0.0100	1	03/25/2023 15:38	WG2030006
Methylene Chloride	U		0.000430	0.00500	1	03/25/2023 15:38	WG2030006
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/25/2023 15:38	WG2030006
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/25/2023 15:38	WG2030006
Naphthalene	U		0.00100	0.00500	1	03/25/2023 15:38	WG2030006
n-Propylbenzene	U		0.0000993	0.00100	1	03/25/2023 15:38	WG2030006
Styrene	U		0.000118	0.00100	1	03/25/2023 15:38	WG2030006
tert-Butyl alcohol	U		0.00406	0.00500	1	03/25/2023 15:38	WG2030006
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/25/2023 15:38	WG2030006
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/25/2023 15:38	WG2030006
Tetrachloroethene	U		0.000300	0.00100	1	03/25/2023 15:38	WG2030006
Toluene	U		0.000278	0.00100	1	03/25/2023 15:38	WG2030006
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/25/2023 15:38	WG2030006
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/25/2023 15:38	WG2030006
Trichloroethene	U		0.000190	0.00100	1	03/25/2023 15:38	WG2030006
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/25/2023 15:38	WG2030006
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/25/2023 15:38	WG2030006
Vinyl chloride	U		0.000234	0.00100	1	03/25/2023 15:38	WG2030006
o-Xylene	U		0.000174	0.00100	1	03/25/2023 15:38	WG2030006
m&p-Xylene	U		0.000430	0.00200	1	03/25/2023 15:38	WG2030006
Xylenes, Total	U		0.000174	0.00300	1	03/25/2023 15:38	WG2030006
(S) Toluene-d8	*116*			*80.0-120*		*03/25/2023 15:38*	WG2030006
(S) 4-Bromofluorobenzene	*104*			*77.0-126*		*03/25/2023 15:38*	WG2030006
(S) 1,2-Dichloroethane-d4	*98.3*			*70.0-130*		*03/25/2023 15:38*	WG2030006

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	0.0456	B J	0.0247	0.100	1	03/28/2023 02:59	WG2029729
(S) o-Terphenyl	*108*			*31.0-160*		*03/28/2023 02:59*	WG2029729

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Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	200		10.0	1	03/23/2023 04:32	WG2028223

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	54.4		0.379	1.00	1	03/26/2023 16:39	WG2030264
Fluoride	0.206	B	0.0640	0.150	1	03/26/2023 16:39	WG2030264
Sulfate	28.2		0.594	5.00	1	03/26/2023 16:39	WG2030264

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.000464	J	0.000180	0.00200	1	03/23/2023 13:53	WG2027352
Arsenic,Dissolved	0.000343	J	0.000180	0.00200	1	03/23/2023 14:51	WG2027358
Barium	0.00852		0.000381	0.00200	1	03/23/2023 13:53	WG2027352
Barium,Dissolved	0.00802		0.000381	0.00200	1	03/23/2023 14:51	WG2027358
Calcium	17.7		0.0936	1.00	1	03/23/2023 13:53	WG2027352
Chromium	U		0.00124	0.00200	1	03/23/2023 13:53	WG2027352
Chromium,Dissolved	U		0.00124	0.00200	1	03/23/2023 14:51	WG2027358
Iron	U		0.0281	0.100	1	03/23/2023 13:53	WG2027352
Iron,Dissolved	U		0.0281	0.100	1	03/23/2023 14:51	WG2027358
Lead	U		0.000849	0.00200	1	03/23/2023 13:53	WG2027352
Lead,Dissolved	U		0.000849	0.00200	1	03/23/2023 14:51	WG2027358
Manganese	0.00213	B J	0.000704	0.00500	1	03/23/2023 13:53	WG2027352
Manganese,Dissolved	0.00216	J	0.000704	0.00500	1	03/23/2023 14:51	WG2027358
Potassium	5.65		0.108	2.00	1	03/23/2023 13:53	WG2027352
Selenium	U		0.000300	0.00200	1	03/23/2023 13:53	WG2027352
Selenium,Dissolved	U		0.000300	0.00200	1	03/23/2023 14:51	WG2027358
Sodium	39.0		0.376	2.00	1	03/23/2023 13:53	WG2027352

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	03/22/2023 15:11	WG2027498
(S) a,a,a-Trifluorotoluene(FID)	*96.8*			*78.0-120*		*03/22/2023 15:11*	WG2027498

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	03/25/2023 16:01	WG2030006
Benzene	U		0.0000941	0.00100	1	03/25/2023 16:01	WG2030006
Bromodichloromethane	U		0.000136	0.00100	1	03/25/2023 16:01	WG2030006
Bromoform	U		0.000129	0.00100	1	03/25/2023 16:01	WG2030006
Bromomethane	U	J3	0.000605	0.00500	1	03/25/2023 16:01	WG2030006
n-Butylbenzene	U		0.000157	0.00100	1	03/25/2023 16:01	WG2030006
sec-Butylbenzene	U		0.000125	0.00100	1	03/25/2023 16:01	WG2030006
Carbon disulfide	U		0.0000962	0.00100	1	03/25/2023 16:01	WG2030006
Carbon tetrachloride	0.000210	J	0.000128	0.00100	1	03/25/2023 16:01	WG2030006
Chlorobenzene	U		0.000116	0.00100	1	03/25/2023 16:01	WG2030006
Chlorodibromomethane	U		0.000140	0.00100	1	03/25/2023 16:01	WG2030006
Chloroethane	U		0.000192	0.00500	1	03/25/2023 16:01	WG2030006
Chloroform	U		0.000111	0.00500	1	03/25/2023 16:01	WG2030006
Chloromethane	U		0.000960	0.00250	1	03/25/2023 16:01	WG2030006

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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-Dibromoethane	U		0.000126	0.00100	1	03/25/2023 16:01	WG2030006
1,1-Dichloroethane	U		0.000100	0.00100	1	03/25/2023 16:01	WG2030006
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/25/2023 16:01	WG2030006
1,1-Dichloroethene	U		0.000188	0.00100	1	03/25/2023 16:01	WG2030006
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/25/2023 16:01	WG2030006
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/25/2023 16:01	WG2030006
1,2-Dichloropropane	U		0.000149	0.00100	1	03/25/2023 16:01	WG2030006
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/25/2023 16:01	WG2030006
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/25/2023 16:01	WG2030006
Ethylbenzene	U		0.000137	0.00100	1	03/25/2023 16:01	WG2030006
Isopropylbenzene	U		0.000105	0.00100	1	03/25/2023 16:01	WG2030006
p-Isopropyltoluene	U		0.000120	0.00100	1	03/25/2023 16:01	WG2030006
2-Butanone (MEK)	U		0.00119	0.0100	1	03/25/2023 16:01	WG2030006
2-Hexanone	U		0.000787	0.0100	1	03/25/2023 16:01	WG2030006
Methylene Chloride	U		0.000430	0.00500	1	03/25/2023 16:01	WG2030006
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/25/2023 16:01	WG2030006
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/25/2023 16:01	WG2030006
Naphthalene	U		0.00100	0.00500	1	03/25/2023 16:01	WG2030006
n-Propylbenzene	U		0.0000993	0.00100	1	03/25/2023 16:01	WG2030006
Styrene	U		0.000118	0.00100	1	03/25/2023 16:01	WG2030006
tert-Butyl alcohol	U		0.00406	0.00500	1	03/25/2023 16:01	WG2030006
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/25/2023 16:01	WG2030006
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/25/2023 16:01	WG2030006
Tetrachloroethene	U		0.000300	0.00100	1	03/25/2023 16:01	WG2030006
Toluene	U		0.000278	0.00100	1	03/25/2023 16:01	WG2030006
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/25/2023 16:01	WG2030006
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/25/2023 16:01	WG2030006
Trichloroethene	U		0.000190	0.00100	1	03/25/2023 16:01	WG2030006
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/25/2023 16:01	WG2030006
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/25/2023 16:01	WG2030006
Vinyl chloride	U		0.000234	0.00100	1	03/25/2023 16:01	WG2030006
o-Xylene	U		0.000174	0.00100	1	03/25/2023 16:01	WG2030006
m&p-Xylene	U		0.000430	0.00200	1	03/25/2023 16:01	WG2030006
Xylenes, Total	U		0.000174	0.00300	1	03/25/2023 16:01	WG2030006
(S) Toluene-d8	*114*			*80.0-120*		*03/25/2023 16:01*	WG2030006
(S) 4-Bromofluorobenzene	*98.5*			*77.0-126*		*03/25/2023 16:01*	WG2030006
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*03/25/2023 16:01*	WG2030006

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	03/28/2023 03:19	WG2029729
(S) o-Terphenyl	*112*			*31.0-160*		*03/28/2023 03:19*	WG2029729

Received by OCD: 6/12/2024 3:31:05 PM

Method Blank (MB)

(MB) R3905299-1 03/23/23 04:32

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1596420-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1596420-01 03/23/23 04:32 • (DUP) R3905299-3 03/23/23 04:32

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	207	199	1	3.94		5

L1596664-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1596664-12 03/23/23 04:32 • (DUP) R3905299-4 03/23/23 04:32

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	200	191	1	4.60		5

Laboratory Control Sample (LCS)

(LCS) R3905299-2 03/23/23 04:32

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	7670	87.2	77.3-123	

Released to Imaging: 6/28/2024 11:23:28 AM

Method Blank (MB)

(MB) R3904318-1 03/22/23 23:21

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Cyanide	U		0.00180	0.00500

L1596985-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1596985-05 03/23/23 00:02 • (DUP) R3904318-7 03/23/23 00:04

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	U	U	1	0.000		20

L1596987-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1596987-01 03/23/23 00:05 • (DUP) R3904318-8 03/23/23 00:07

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) R3904318-2 03/22/23 23:22

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Cyanide	0.100	0.0927	92.7	87.1-120	

L1596985-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1596985-01 03/22/23 23:48 • (MS) R3904318-3 03/22/23 23:49 • (MSD) R3904318-4 03/22/23 23:51

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 %
Cyanide	0.100	U	0.0914	0.0914	91.4	91.4	1	90.0-110			0.000	20

L1596985-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1596985-04 03/22/23 23:58 • (MS) R3904318-5 03/23/23 00:00 • (MSD) R3904318-6 03/23/23 00:01

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 %
Cyanide	0.100	U	0.0960	0.0929	96.0	92.9	1	90.0-110			3.28	20

Method Blank (MB)

(MB) R3905379-1 03/21/23 19:41

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	0.384	J	0.379	1.00
Fluoride	U		0.0640	0.150
Nitrate	U		0.0480	0.100
Nitrite	U		0.0420	0.100
Sulfate	U		0.594	5.00

L1596620-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1596620-02 03/21/23 21:40 • (DUP) R3905379-3 03/22/23 01:22

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	636	637	1	0.144	E	15
Fluoride	0.292	0.284	1	2.64		15
Nitrate	U	U	1	0.000		15
Nitrite	U	U	1	0.000		15
Sulfate	187	187	1	0.0508		15

L1596620-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1596620-04 03/21/23 22:07 • (DUP) R3905379-6 03/22/23 02:56

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	909	907	1	0.217	E	15
Fluoride	0.178	0.276	1	42.8	P1	15
Nitrate	0.313	0.303	1	3.08		15
Nitrite	U	U	1	0.000		15
Sulfate	86.1	85.8	1	0.281		15

Laboratory Control Sample (LCS)

(LCS) R3905379-2 03/21/23 19:54

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	8.19	102	80.0-120	
Nitrate	8.00	7.67	95.9	80.0-120	
Nitrite	8.00	8.13	102	80.0-120	

Laboratory Control Sample (LCS)

(LCS) R3905379-2 03/21/23 19:54

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Sulfate	40.0	38.8	96.9	80.0-120	

L1596620-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1596620-02 03/21/23 21:40 • (MS) R3905379-4 03/22/23 01:35 • (MSD) R3905379-5 03/22/23 01:49

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 %
Chloride	50.0	636	650	649	28.1	25.6	1	80.0-120	E V	E V	0.195	15
Fluoride	5.00	0.292	5.24	5.23	99.1	98.7	1	80.0-120			0.306	15
Nitrate	5.00	U	4.66	4.67	93.2	93.3	1	80.0-120			0.0965	15
Nitrite	5.00	U	5.00	5.01	100	100	1	80.0-120			0.132	15
Sulfate	50.0	187	225	224	75.5	74.9	1	80.0-120	E J6	E J6	0.122	15

L1596620-04 Original Sample (OS) • Matrix Spike (MS)

(OS) L1596620-04 03/21/23 22:07 • (MS) R3905379-7 03/22/23 03:10

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	909	910	1.01	1	80.0-120	E V
Fluoride	5.00	0.178	5.18	100	1	80.0-120	
Nitrate	5.00	0.313	5.00	93.8	1	80.0-120	
Nitrite	5.00	U	5.06	101	1	80.0-120	
Sulfate	50.0	86.1	131	89.7	1	80.0-120	

Method Blank (MB)

(MB) R3905745-1 03/26/23 09:43

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	0.444	J	0.379	1.00
Fluoride	0.0704	J	0.0640	0.150
Sulfate	U		0.594	5.00

L1596632-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1596632-01 03/26/23 11:04 • (DUP) R3905745-3 03/26/23 11:18

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	8.24	8.13	1	1.37		15
Fluoride	0.310	0.320	1	3.33		15
Sulfate	11.4	11.4	1	0.392		15

L1596798-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1596798-08 03/26/23 18:53 • (DUP) R3905745-6 03/26/23 19:07

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	91.3	90.9	1	0.392		15
Fluoride	0.939	0.998	1	6.13		15
Sulfate	14.5	14.4	1	0.731		15

Laboratory Control Sample (LCS)

(LCS) R3905745-2 03/26/23 09:56

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	8.22	103	80.0-120	
Sulfate	40.0	40.2	100	80.0-120	

L1596632-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1596632-01 03/26/23 11:04 • (MS) R3905745-4 03/26/23 11:31 • (MSD) R3905745-5 03/26/23 11:44

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 %
Chloride	50.0	8.24	57.6	57.8	98.6	99.0	1	80.0-120			0.336	15
Fluoride	5.00	0.310	5.39	5.35	102	101	1	80.0-120			0.791	15
Sulfate	50.0	11.4	62.3	62.5	102	102	1	80.0-120			0.429	15

L1596798-08 Original Sample (OS) • Matrix Spike (MS)

(OS) L1596798-08 03/26/23 18:53 • (MS) R3905745-7 03/26/23 19:20

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	91.3	137	91.6	1	80.0-120	
Fluoride	5.00	0.939	6.26	106	1	80.0-120	
Sulfate	50.0	14.5	65.3	102	1	80.0-120	

Received by OCD: 6/12/2024 3:31:05 PM

Method Blank (MB)

(MB) R3903990-1 03/22/23 10:42

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) R3903990-2 03/22/23 10:45

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.00300	0.00294	98.0	80.0-120	

L1596664-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1596664-09 03/22/23 10:51 • (MS) R3903990-3 03/22/23 10:53 • (MSD) R3903990-4 03/22/23 10:56

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 %
Mercury	0.00300	U	0.00289	0.00287	96.3	95.7	1	75.0-125			0.694	20

Released to Imaging: 6/28/2024 11:23:28 AM

Method Blank (MB)

(MB) R3904275-1 03/22/23 18:30

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) R3904275-2 03/22/23 18:33

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury,Dissolved	0.00300	0.00293	97.7	80.0-120	

L1596653-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1596653-03 03/22/23 18:35 • (MS) R3904275-3 03/22/23 18:37 • (MSD) R3904275-4 03/22/23 18:44

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 %
Mercury,Dissolved	0.00300	U	0.00310	0.00307	103	102	1	75.0-125			0.972	20

Method Blank (MB)

(MB) R3905637-1 03/27/23 07:47

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) R3905637-2 03/27/23 07:49

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.00300	0.00293	97.6	80.0-120	

L1597201-53 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597201-53 03/27/23 07:51 • (MS) R3905637-3 03/27/23 07:53 • (MSD) R3905637-4 03/27/23 07:55

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 %
Mercury	0.00300	U	0.00278	0.00269	92.8	89.8	1	75.0-125			3.29	20

Method Blank (MB)

(MB) R3906266-1 03/28/23 10:04

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) R3906266-2 03/28/23 10:06

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury,Dissolved	0.00300	0.00298	99.4	80.0-120	

L1597201-54 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597201-54 03/28/23 10:08 • (MS) R3906266-3 03/28/23 10:10 • (MSD) R3906266-4 03/28/23 10:12

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 %
Mercury,Dissolved	0.00300	U	0.00293	0.00293	97.7	97.6	1	75.0-125			0.0102	20

Method Blank (MB)

(MB) R3904047-1 03/22/23 12:27

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) R3904047-2 03/22/23 12:29

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron	1.00	0.980	98.0	80.0-120	

L1596664-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1596664-10 03/22/23 12:32 • (MS) R3904047-4 03/22/23 12:38 • (MSD) R3904047-5 03/22/23 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 %
Boron	1.00	0.264	1.22	1.23	95.2	97.0	1	75.0-125			1.45	20

Method Blank (MB)

(MB) R3904288-1 03/22/23 19:47

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) R3904288-2 03/22/23 19:49

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron,Dissolved	1.00	0.992	99.2	80.0-120	

L1596664-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1596664-07 03/22/23 19:52 • (MS) R3904288-4 03/22/23 19:58 • (MSD) R3904288-5 03/22/23 20:01

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 %
Boron,Dissolved	1.00	0.157	1.16	1.16	99.9	101	1	75.0-125			0.580	20

Method Blank (MB)

(MB) R3905588-1 03/26/23 20:08

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) R3905588-2 03/26/23 20:10

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron,Dissolved	1.00	0.931	93.1	80.0-120	

L1596664-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1596664-01 03/26/23 20:13 • (MS) R3905588-4 03/26/23 20:24 • (MSD) R3905588-5 03/26/23 20:26

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	0.581	1.52	1.54	93.7	95.5	1	75.0-125			1.19	20

Method Blank (MB)

(MB) R3905581-1 03/26/23 21:54

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) R3905581-2 03/26/23 21:56

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron	1.00	0.998	99.8	80.0-120	

L1596664-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1596664-01 03/26/23 21:59 • (MS) R3905581-4 03/26/23 22:04 • (MSD) R3905581-5 03/26/23 22:07

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	0.700	1.73	1.71	103	101	1	75.0-125			1.04	20

Method Blank (MB)

(MB) R3904613-1 03/23/23 12:20

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	0.00116	J	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) R3904613-2 03/23/23 12:23

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	0.0500	0.0483	96.6	80.0-120	
Barium	0.0500	0.0478	95.6	80.0-120	
Cadmium	0.0500	0.0523	105	80.0-120	
Calcium	5.00	5.01	100	80.0-120	
Chromium	0.0500	0.0502	100	80.0-120	
Cobalt	0.0500	0.0509	102	80.0-120	
Iron	5.00	5.03	101	80.0-120	
Lead	0.0500	0.0520	104	80.0-120	
Manganese	0.0500	0.0503	101	80.0-120	
Nickel	0.0500	0.0506	101	80.0-120	
Potassium	5.00	4.93	98.5	80.0-120	
Selenium	0.0500	0.0527	105	80.0-120	
Sodium	5.00	5.43	109	80.0-120	
Uranium	0.0500	0.0511	102	80.0-120	
Vanadium	0.0500	0.0503	101	80.0-120	

Received by OCD: 6/12/2024 3:31:05 PM

L1596664-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1596664-03 03/23/23 12:26 • (MS) R3904613-4 03/23/23 12:33 • (MSD) R3904613-5 03/23/23 12:36

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	0.0500	0.00438	0.0552	0.0538	102	98.9	1	75.0-125			2.48	20
Barium	0.0500	0.00846	0.0573	0.0563	97.7	95.7	1	75.0-125			1.75	20
Cadmium	0.0500	U	0.0509	0.0511	102	102	1	75.0-125			0.394	20
Calcium	5.00	509	516	526	124	330	1	75.0-125		V	1.98	20
Chromium	0.0500	U	0.0518	0.0507	104	101	1	75.0-125			2.29	20
Cobalt	0.0500	U	0.0501	0.0495	100	99.0	1	75.0-125			1.32	20
Iron	5.00	U	4.99	5.06	99.8	101	1	75.0-125			1.41	20
Lead	0.0500	U	0.0513	0.0471	103	94.3	1	75.0-125			8.45	20
Manganese	0.0500	0.00109	0.0529	0.0508	104	99.4	1	75.0-125			4.14	20
Nickel	0.0500	U	0.0491	0.0488	98.3	97.6	1	75.0-125			0.736	20
Potassium	5.00	1.39	6.23	6.21	96.8	96.3	1	75.0-125			0.426	20
Selenium	0.0500	0.00675	0.0634	0.0629	113	112	1	75.0-125			0.773	20
Sodium	5.00	251	259	253	158	43.6	1	75.0-125	V	V	2.23	20
Uranium	0.0500	0.0473	0.0986	0.0922	103	89.8	1	75.0-125			6.76	20
Vanadium	0.0500	0.0231	0.0760	0.0763	106	106	1	75.0-125			0.481	20

Released to Imaging: 6/28/2024 11:23:28 AM

Method Blank (MB)

(MB) R3904677-1 03/23/23 13:28

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic,Dissolved	U		0.000180	0.00200
Barium,Dissolved	U		0.000381	0.00200
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		0.0000789	0.00100
Vanadium,Dissolved	U		0.000664	0.00500

Laboratory Control Sample (LCS)

(LCS) R3904677-2 03/23/23 13:31

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic,Dissolved	0.0500	0.0485	97.1	80.0-120	
Barium,Dissolved	0.0500	0.0479	95.8	80.0-120	
Cadmium,Dissolved	0.0500	0.0514	103	80.0-120	
Chromium,Dissolved	0.0500	0.0496	99.2	80.0-120	
Cobalt,Dissolved	0.0500	0.0508	102	80.0-120	
Iron,Dissolved	5.00	5.00	100	80.0-120	
Lead,Dissolved	0.0500	0.0495	99.0	80.0-120	
Manganese,Dissolved	0.0500	0.0509	102	80.0-120	
Nickel,Dissolved	0.0500	0.0508	102	80.0-120	
Selenium,Dissolved	0.0500	0.0560	112	80.0-120	
Uranium,Dissolved	0.0500	0.0509	102	80.0-120	
Vanadium,Dissolved	0.0500	0.0500	99.9	80.0-120	

L1596637-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1596637-01 03/23/23 13:34 • (MS) R3904677-4 03/23/23 13:41 • (MSD) R3904677-5 03/23/23 13:44

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	0.000722	0.0489	0.0467	96.3	91.9	1	75.0-125			4.63	20
Barium,Dissolved	0.0500	0.0884	0.159	0.134	140	90.8	1	75.0-125	J5		16.9	20
Cadmium,Dissolved	0.0500	U	0.0511	0.0508	102	102	1	75.0-125			0.579	20

L1596637-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1596637-01 03/23/23 13:34 • (MS) R3904677-4 03/23/23 13:41 • (MSD) R3904677-5 03/23/23 13:44

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	0.0485	0.0466	97.0	93.3	1	75.0-125			3.88	20
Cobalt,Dissolved	0.0500	0.000207	0.0480	0.0460	95.6	91.6	1	75.0-125			4.26	20
Iron,Dissolved	5.00	U	4.83	4.57	96.7	91.5	1	75.0-125			5.53	20
Lead,Dissolved	0.0500	U	0.0492	0.0486	98.3	97.1	1	75.0-125			1.25	20
Manganese,Dissolved	0.0500	0.00501	0.0544	0.0503	98.8	90.6	1	75.0-125			7.89	20
Nickel,Dissolved	0.0500	0.00318	0.0509	0.0478	95.4	89.2	1	75.0-125			6.24	20
Selenium,Dissolved	0.0500	0.00960	0.0657	0.0638	112	108	1	75.0-125			3.02	20
Uranium,Dissolved	0.0500	0.0367	0.0880	0.0877	103	102	1	75.0-125			0.318	20
Vanadium,Dissolved	0.0500	0.00110	0.0506	0.0484	99.0	94.6	1	75.0-125			4.48	20

Method Blank (MB)

(MB) R3905894-2 03/22/23 10:03

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	0.0373	J	0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*97.1*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R3905894-1 03/22/23 08:44

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	4.97	90.4	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*101*	*78.0-120*	

Method Blank (MB)

(MB) R3905736-3 03/25/23 21:39

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
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
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
2-Hexanone	U		0.000787	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
tert-Butyl alcohol	U		0.00406	0.00500
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

Received by OCD: 6/12/2024 3:31:05 PM

Method Blank (MB)

(MB) R3905736-3 03/25/23 21:39

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
o-Xylene	U		0.000174	0.00100
m&p-Xylenes	U		0.000430	0.00200
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	*96.4*			*80.0-120*
(S) 4-Bromofluorobenzene	*85.2*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*85.1*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3905736-1 03/25/23 20:34 • (LCSD) R3905736-2 03/25/23 20:56

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	0.0201	0.0201	80.4	80.4	19.0-160			0.000	27
Benzene	0.00500	0.00541	0.00524	108	105	70.0-123			3.19	20
Bromodichloromethane	0.00500	0.00488	0.00506	97.6	101	75.0-120			3.62	20
Bromoform	0.00500	0.00405	0.00452	81.0	90.4	68.0-132			11.0	20
Bromomethane	0.00500	0.00335	0.00364	67.0	72.8	10.0-160			8.30	25
n-Butylbenzene	0.00500	0.00481	0.00492	96.2	98.4	73.0-125			2.26	20
sec-Butylbenzene	0.00500	0.00500	0.00508	100	102	75.0-125			1.59	20
Carbon disulfide	0.00500	0.00512	0.00514	102	103	61.0-128			0.390	20
Carbon tetrachloride	0.00500	0.00472	0.00491	94.4	98.2	68.0-126			3.95	20
Chlorobenzene	0.00500	0.00508	0.00511	102	102	80.0-121			0.589	20
Chlorodibromomethane	0.00500	0.00452	0.00446	90.4	89.2	77.0-125			1.34	20
Chloroethane	0.00500	0.00453	0.00484	90.6	96.8	47.0-150			6.62	20
Chloromethane	0.00500	0.00313	0.00316	62.6	63.2	41.0-142			0.954	20
1,2-Dibromoethane	0.00500	0.00464	0.00497	92.8	99.4	80.0-122			6.87	20
1,1-Dichloroethane	0.00500	0.00486	0.00473	97.2	94.6	70.0-126			2.71	20
1,2-Dichloroethane	0.00500	0.00455	0.00455	91.0	91.0	70.0-128			0.000	20
1,1-Dichloroethene	0.00500	0.00517	0.00507	103	101	71.0-124			1.95	20
cis-1,2-Dichloroethene	0.00500	0.00520	0.00530	104	106	73.0-120			1.90	20
trans-1,2-Dichloroethene	0.00500	0.00527	0.00535	105	107	73.0-120			1.51	20
1,2-Dichloropropane	0.00500	0.00501	0.00485	100	97.0	77.0-125			3.25	20
cis-1,3-Dichloropropene	0.00500	0.00440	0.00435	88.0	87.0	80.0-123			1.14	20
trans-1,3-Dichloropropene	0.00500	0.00421	0.00424	84.2	84.8	78.0-124			0.710	20
Ethylbenzene	0.00500	0.00489	0.00516	97.8	103	79.0-123			5.37	20

Released to Imaging: 6/28/2024 11:23:28 AM

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3905736-1 03/25/23 20:34 • (LCSD) R3905736-2 03/25/23 20:56

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 %
Isopropylbenzene	0.00500	0.00475	0.00500	95.0	100	76.0-127			5.13	20
p-Isopropyltoluene	0.00500	0.00476	0.00490	95.2	98.0	76.0-125			2.90	20
2-Butanone (MEK)	0.0250	0.0182	0.0187	72.8	74.8	44.0-160			2.71	20
2-Hexanone	0.0250	0.0180	0.0191	72.0	76.4	67.0-149			5.93	20
Methylene Chloride	0.00500	0.00515	0.00534	103	107	67.0-120			3.62	20
4-Methyl-2-pentanone (MIBK)	0.0250	0.0170	0.0181	68.0	72.4	68.0-142			6.27	20
Methyl tert-butyl ether	0.00500	0.00474	0.00470	94.8	94.0	68.0-125			0.847	20
Naphthalene	0.00500	0.00221	0.00287	44.2	57.4	54.0-135	J4	J3	26.0	20
n-Propylbenzene	0.00500	0.00495	0.00503	99.0	101	77.0-124			1.60	20
Styrene	0.00500	0.00478	0.00481	95.6	96.2	73.0-130			0.626	20
tert-Butyl alcohol	0.0250	0.0248	0.0243	99.2	97.2	27.0-160			2.04	30
1,1,1,2-Tetrachloroethane	0.00500	0.00484	0.00479	96.8	95.8	75.0-125			1.04	20
1,1,2,2-Tetrachloroethane	0.00500	0.00452	0.00451	90.4	90.2	65.0-130			0.221	20
Tetrachloroethene	0.00500	0.00490	0.00493	98.0	98.6	72.0-132			0.610	20
Toluene	0.00500	0.00509	0.00505	102	101	79.0-120			0.789	20
1,1,1-Trichloroethane	0.00500	0.00513	0.00508	103	102	73.0-124			0.979	20
1,1,2-Trichloroethane	0.00500	0.00475	0.00498	95.0	99.6	80.0-120			4.73	20
Trichloroethene	0.00500	0.00545	0.00510	109	102	78.0-124			6.64	20
1,2,4-Trimethylbenzene	0.00500	0.00503	0.00509	101	102	76.0-121			1.19	20
1,3,5-Trimethylbenzene	0.00500	0.00494	0.00516	98.8	103	76.0-122			4.36	20
Vinyl chloride	0.00500	0.00478	0.00463	95.6	92.6	67.0-131			3.19	20
o-Xylene	0.00500	0.00488	0.00487	97.6	97.4	80.0-122			0.205	20
m&p-Xylenes	0.0100	0.0101	0.0103	101	103	80.0-122			1.96	20
Xylenes, Total	0.0150	0.0150	0.0152	100	101	79.0-123			1.32	20
(S) Toluene-d8				*95.2*	*95.9*	*80.0-120*				
(S) 4-Bromofluorobenzene				*86.4*	*88.6*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*88.9*	*83.4*	*70.0-130*				

Method Blank (MB)

(MB) R3905661-3 03/25/23 09:55

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
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
2-Hexanone	U		0.000787	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
tert-Butyl alcohol	U		0.00406	0.00500
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

Method Blank (MB)

(MB) R3905661-3 03/25/23 09:55

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,1,2-Trichloroethane	U		0.000158	0.00100
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
o-Xylene	U		0.000174	0.00100
m&p-Xylenes	U		0.000430	0.00200
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	*113*			*80.0-120*
(S) 4-Bromofluorobenzene	*106*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*97.4*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3905661-1 03/25/23 08:45 • (LCSD) R3905661-2 03/25/23 09:08

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	0.0260	0.0279	104	112	19.0-160			7.05	27
Benzene	0.00500	0.00465	0.00462	93.0	92.4	70.0-123			0.647	20
Bromodichloromethane	0.00500	0.00500	0.00497	100	99.4	75.0-120			0.602	20
Bromoform	0.00500	0.00458	0.00436	91.6	87.2	68.0-132			4.92	20
Bromomethane	0.00500	0.00123	0.00163	24.6	32.6	10.0-160		J3	28.0	25
n-Butylbenzene	0.00500	0.00523	0.00504	105	101	73.0-125			3.70	20
sec-Butylbenzene	0.00500	0.00488	0.00509	97.6	102	75.0-125			4.21	20
Carbon disulfide	0.00500	0.00435	0.00435	87.0	87.0	61.0-128			0.000	20
Carbon tetrachloride	0.00500	0.00505	0.00483	101	96.6	68.0-126			4.45	20
Chlorobenzene	0.00500	0.00490	0.00483	98.0	96.6	80.0-121			1.44	20
Chlorodibromomethane	0.00500	0.00458	0.00484	91.6	96.8	77.0-125			5.52	20
Chloroethane	0.00500	0.00432	0.00468	86.4	93.6	47.0-150			8.00	20
Chloroform	0.00500	0.00513	0.00519	103	104	73.0-120			1.16	20
Chloromethane	0.00500	0.00381	0.00383	76.2	76.6	41.0-142			0.524	20
1,2-Dibromoethane	0.00500	0.00506	0.00482	101	96.4	80.0-122			4.86	20
1,1-Dichloroethane	0.00500	0.00471	0.00498	94.2	99.6	70.0-126			5.57	20
1,2-Dichloroethane	0.00500	0.00508	0.00503	102	101	70.0-128			0.989	20
1,1-Dichloroethene	0.00500	0.00498	0.00493	99.6	98.6	71.0-124			1.01	20
cis-1,2-Dichloroethene	0.00500	0.00482	0.00488	96.4	97.6	73.0-120			1.24	20
trans-1,2-Dichloroethene	0.00500	0.00492	0.00486	98.4	97.2	73.0-120			1.23	20
1,2-Dichloropropane	0.00500	0.00422	0.00472	84.4	94.4	77.0-125			11.2	20
cis-1,3-Dichloropropene	0.00500	0.00435	0.00456	87.0	91.2	80.0-123			4.71	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3905661-1 03/25/23 08:45 • (LCSD) R3905661-2 03/25/23 09:08

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 %
trans-1,3-Dichloropropene	0.00500	0.00472	0.00461	94.4	92.2	78.0-124			2.36	20
Ethylbenzene	0.00500	0.00503	0.00504	101	101	79.0-123			0.199	20
Isopropylbenzene	0.00500	0.00472	0.00478	94.4	95.6	76.0-127			1.26	20
p-Isopropyltoluene	0.00500	0.00508	0.00459	102	91.8	76.0-125			10.1	20
2-Butanone (MEK)	0.0250	0.0246	0.0241	98.4	96.4	44.0-160			2.05	20
2-Hexanone	0.0250	0.0250	0.0252	100	101	67.0-149			0.797	20
Methylene Chloride	0.00500	0.00477	0.00461	95.4	92.2	67.0-120			3.41	20
4-Methyl-2-pentanone (MIBK)	0.0250	0.0250	0.0255	100	102	68.0-142			1.98	20
Methyl tert-butyl ether	0.00500	0.00479	0.00474	95.8	94.8	68.0-125			1.05	20
Naphthalene	0.00500	0.00391	0.00404	78.2	80.8	54.0-135			3.27	20
n-Propylbenzene	0.00500	0.00507	0.00466	101	93.2	77.0-124			8.43	20
Styrene	0.00500	0.00475	0.00482	95.0	96.4	73.0-130			1.46	20
tert-Butyl alcohol	0.0250	0.0292	0.0297	117	119	27.0-160			1.70	30
1,1,1,2-Tetrachloroethane	0.00500	0.00504	0.00526	101	105	75.0-125			4.27	20
1,1,2,2-Tetrachloroethane	0.00500	0.00476	0.00476	95.2	95.2	65.0-130			0.000	20
Tetrachloroethene	0.00500	0.00485	0.00448	97.0	89.6	72.0-132			7.93	20
Toluene	0.00500	0.00495	0.00478	99.0	95.6	79.0-120			3.49	20
1,1,1-Trichloroethane	0.00500	0.00527	0.00506	105	101	73.0-124			4.07	20
1,1,2-Trichloroethane	0.00500	0.00491	0.00526	98.2	105	80.0-120			6.88	20
Trichloroethene	0.00500	0.00441	0.00465	88.2	93.0	78.0-124			5.30	20
1,2,4-Trimethylbenzene	0.00500	0.00482	0.00459	96.4	91.8	76.0-121			4.89	20
1,3,5-Trimethylbenzene	0.00500	0.00499	0.00512	99.8	102	76.0-122			2.57	20
Vinyl chloride	0.00500	0.00446	0.00431	89.2	86.2	67.0-131			3.42	20
o-Xylene	0.00500	0.00493	0.00469	98.6	93.8	80.0-122			4.99	20
m&p-Xylenes	0.0100	0.0103	0.00978	103	97.8	80.0-122			5.18	20
Xylenes, Total	0.0150	0.0152	0.0145	101	96.7	79.0-123			4.71	20
(S) Toluene-d8				*108*	*110*	*80.0-120*				
(S) 4-Bromofluorobenzene				*105*	*104*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*97.9*	*100*	*70.0-130*				

Method Blank (MB)

(MB) R3906181-3 03/27/23 11:00

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloroform	U		0.000111	0.00500
(S) Toluene-d8	*93.6*			*80.0-120*
(S) 4-Bromofluorobenzene	*95.4*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*73.2*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3906181-1 03/27/23 09:43 • (LCSD) R3906181-2 03/27/23 10:02

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 %
Chloroform	0.00500	0.00489	0.00406	97.8	81.2	73.0-120			18.5	20
(S) Toluene-d8				*96.1*	*96.6*	*80.0-120*				
(S) 4-Bromofluorobenzene				*103*	*99.9*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*79.8*	*80.4*	*70.0-130*				

Method Blank (MB)

(MB) R3906134-2 03/27/23 21:11

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloroform	U		0.000111	0.00500
(S) Toluene-d8	*107*			*80.0-120*
(S) 4-Bromofluorobenzene	*95.3*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*111*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3906134-1 03/27/23 20:28

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloroform	0.00500	0.00498	99.6	73.0-120	
(S) Toluene-d8			*86.4*	*80.0-120*	
(S) 4-Bromofluorobenzene			*95.6*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*97.6*	*70.0-130*	

Received by OCD: 6/12/2024 3:31:05 PM

Method Blank (MB)

(MB) R3906081-1 03/27/23 14:36

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) High Fraction	0.0332	J	0.0247	0.100
(S) o-Terphenyl	*115*			*31.0-160*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3906081-2 03/27/23 14:57 • (LCSD) R3906081-3 03/27/23 15:17

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	1.67	108	111	50.0-150			3.04	20
(S) o-Terphenyl				*108*	*112*	*31.0-160*				

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Received by OCD: 6/12/2024 3:31:05 PM

Method Blank (MB)

(MB) R3904954-2 03/23/23 09:27

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	*55.6*			*10.0-120*

Laboratory Control Sample (LCS)

(LCS) R3904954-1 03/23/23 09:08

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
1,4-Dioxane	0.0500	0.0420	84.0	73.0-146	
(S) Nitrobenzene-d5			*59.1*	*10.0-120*	

L1597244-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597244-05 03/23/23 14:17 • (MS) R3904954-3 03/23/23 14:36 • (MSD) R3904954-4 03/23/23 14:56

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 %
1,4-Dioxane	0.0500	0.0000893	0.0428	0.0430	85.4	85.8	1	38.0-160			0.466	21
(S) Nitrobenzene-d5					*59.1*	*49.1*		*10.0-120*				

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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.
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.
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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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 Spring 2023

City/State Collected: Artesia, NM

Phone: 512-684-3170
Fax:

Client Project #

Lab Project # TRCATX-ARTESIA

Collected by (print): Scott Ude/HMI Team

Site/Facility ID # (Navajo - Artesia)

P.O. #

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 18 of 27

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# L1591dd64

F012

Acctnum: TRCATX
Template: T206426
Prelogin: P985663
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/Diss. Short List Metals	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total /Diss. Long List Metals	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
~~MW-28~~	~~Grab~~	~~GW~~				~~14~~	x	x	x		x	x	x	x		x	(no SVOC)	
~~MW-59~~	~~Grab~~	~~GW~~				~~11~~	x	x	x	x	x	x						
~~MW-60~~	~~Grab~~	~~GW~~				~~17~~	x	x	x		x	x	x	x	x	x	(no SVOC)	
~~MW-107~~	~~Grab~~	~~GW~~				~~11~~	x	x	x	x	x	x						
~~MW-128~~	~~Grab~~	~~GW~~				~~13~~	x	x	x	x	x	x				x	(no SVOC)	
~~MW-116~~	~~Grab~~	~~GW~~				~~11~~	x	x	x	x	x	x						
~~MW-46R~~	~~Grab~~	~~GW~~				~~9~~	x	x		x	x	x						
RW-#18A	Grab	GW		3/20/23	725	7	x			x	x	x						-01
MW-145	Grab	GW		3/20/23	815	11	x	x	x	x	x	x					No NO3NO2	-02
MW-146	Grab	GW		3/20/23	900	11	x	x	x	x	x	x					No NO3NO2	-03

* 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 # 5671 5382 5473

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	3/20/23	1630			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: NS/16 °C 1.3+0.1=1.3 Bottles Received: 13+1=14	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 3/21/23 Time: 0900	Hold: Condition: NCF / OK

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| | | |

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| | | |

ANALYTICAL REPORT

March 31, 2023

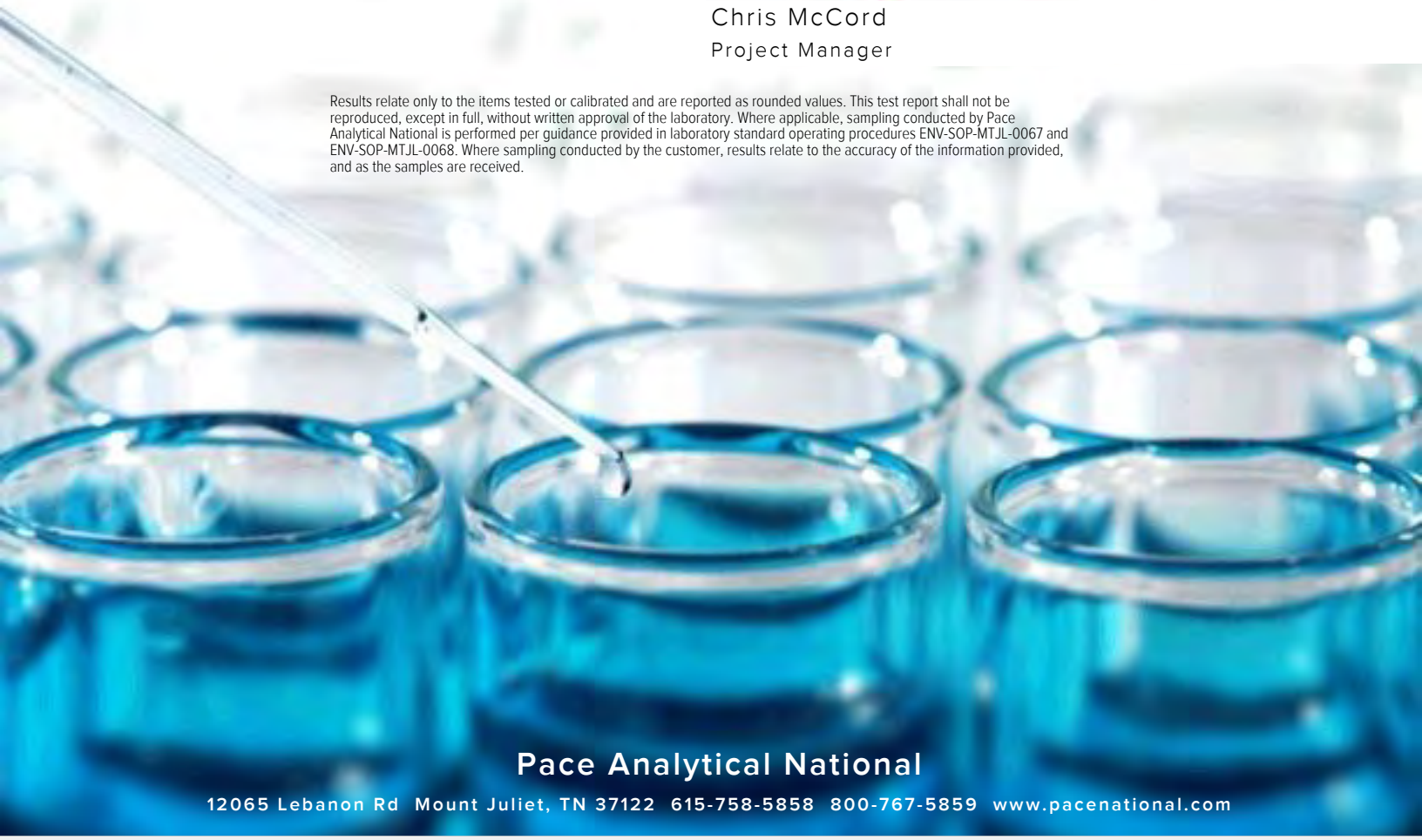
TRC Solutions - Austin, TX

Sample Delivery Group:	L1597201
Samples Received:	03/22/2023
Project Number:	
Description:	Artesia Spring 2023
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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NP-5 L1597201-45 108
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KWB-12B L1597201-50 120
KWB-2R L1597201-51 123
KWB-13 L1597201-52 125
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MW-6A L1597201-01 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 08:25 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2028851	1	03/23/23 17:44	03/23/23 22:05	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028309	10	03/22/23 19:30	03/22/23 19:30	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028248	1	03/23/23 08:33	03/23/23 15:37	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028257	1	03/23/23 12:07	03/25/23 00:45	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2028952	1	03/24/23 00:24	03/24/23 00:24	MGF	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030328	1	03/26/23 13:15	03/26/23 13:15	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2030545	1	03/28/23 12:55	03/29/23 15:46	MAA	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod	WG2027707	1	03/23/23 03:34	03/23/23 10:44	AGW	Mt. Juliet, TN

MW-6B L1597201-02 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 09:05 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2028851	1	03/23/23 17:44	03/23/23 22:05	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028309	10	03/22/23 19:45	03/22/23 19:45	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028248	1	03/23/23 08:33	03/23/23 15:24	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028257	1	03/23/23 12:07	03/25/23 01:07	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2028952	1	03/24/23 00:46	03/24/23 00:46	MGF	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030328	1	03/26/23 13:35	03/26/23 13:35	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2030545	1	03/28/23 12:55	03/29/23 05:10	DMG	Mt. Juliet, TN

MW-120 L1597201-03 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 09:45 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2028851	1	03/23/23 17:44	03/23/23 22:05	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028210	10	03/22/23 23:27	03/22/23 23:27	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028210	100	03/23/23 03:30	03/23/23 03:30	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028248	1	03/23/23 08:33	03/23/23 15:40	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028248	5	03/23/23 08:33	03/23/23 19:33	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028257	1	03/23/23 12:07	03/25/23 01:17	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2028952	1	03/24/23 01:08	03/24/23 01:08	MGF	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030328	1	03/26/23 13:55	03/26/23 13:55	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2030545	1	03/28/23 12:55	03/29/23 05:30	DMG	Mt. Juliet, TN

MW-121 L1597201-04 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 10:30 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2028851	1	03/23/23 17:44	03/23/23 22:05	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028372	10	03/23/23 00:02	03/23/23 00:02	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028372	100	03/23/23 06:29	03/23/23 06:29	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028248	1	03/23/23 08:33	03/23/23 15:43	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028257	1	03/23/23 12:07	03/25/23 01:20	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2028952	1	03/24/23 01:30	03/24/23 01:30	MGF	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030328	1	03/26/23 14:15	03/26/23 14:15	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2030545	1	03/28/23 12:55	03/29/23 05:51	DMG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod	WG2027707	1	03/23/23 03:34	03/23/23 11:04	AGW	Mt. Juliet, TN

MW-122 L1597201-05 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 11:15 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2028851	1	03/23/23 17:44	03/23/23 22:05	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028372	10	03/23/23 00:18	03/23/23 00:18	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028372	100	03/23/23 06:45	03/23/23 06:45	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028248	1	03/23/23 08:33	03/23/23 15:47	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028248	5	03/23/23 08:33	03/23/23 19:37	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028257	1	03/23/23 12:07	03/25/23 01:24	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2028952	1	03/24/23 01:52	03/24/23 01:52	MGF	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030328	1	03/26/23 14:35	03/26/23 14:35	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2030545	1	03/28/23 12:55	03/29/23 16:27	MAA	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod	WG2027707	1	03/23/23 03:34	03/23/23 11:23	AGW	Mt. Juliet, TN

MW-2A L1597201-06 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 12:00 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2028851	1	03/23/23 17:44	03/23/23 22:05	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028372	10	03/23/23 00:34	03/23/23 00:34	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028372	100	03/23/23 07:01	03/23/23 07:01	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028248	1	03/23/23 08:33	03/23/23 20:49	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028248	10	03/23/23 08:33	03/23/23 19:40	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028257	1	03/23/23 12:07	03/25/23 01:27	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028257	5	03/23/23 12:07	03/25/23 02:19	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2028952	1	03/24/23 02:14	03/24/23 02:14	MGF	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030328	1	03/26/23 14:55	03/26/23 14:55	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2030545	5	03/28/23 12:55	03/29/23 22:23	NH	Mt. Juliet, TN

MW-72 L1597201-07 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 12:50 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2028851	1	03/23/23 17:44	03/23/23 22:05	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028377	10	03/23/23 10:54	03/23/23 10:54	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028377	100	03/23/23 15:50	03/23/23 15:50	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028248	1	03/23/23 08:33	03/23/23 20:52	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028248	5	03/23/23 08:33	03/23/23 19:43	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028257	1	03/23/23 12:07	03/25/23 01:30	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2028952	1	03/24/23 02:36	03/24/23 02:36	MGF	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030328	1	03/26/23 15:15	03/26/23 15:15	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2030545	1	03/28/23 12:55	03/29/23 15:26	MAA	Mt. Juliet, TN

OCD-6 L1597201-08 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 13:35 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2028851	1	03/23/23 17:44	03/23/23 22:05	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028377	10	03/23/23 13:22	03/23/23 13:22	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028377	100	03/23/23 16:03	03/23/23 16:03	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028248	1	03/23/23 08:33	03/23/23 20:55	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028248	10	03/23/23 08:33	03/23/23 19:46	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028257	1	03/23/23 12:07	03/25/23 01:34	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028257	5	03/23/23 12:07	03/25/23 02:22	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2028952	1	03/24/23 02:58	03/24/23 02:58	MGF	Mt. Juliet, TN

OCD-6 L1597201-08 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 13:35 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030328	1	03/26/23 15:35	03/26/23 15:35	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2030545	1	03/28/23 12:55	03/29/23 07:12	DMG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod	WG2027707	1	03/23/23 03:34	03/23/23 11:42	AGW	Mt. Juliet, TN

OCD-7AR L1597201-09 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 14:20 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2028851	1	03/23/23 17:44	03/23/23 22:05	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028377	10	03/23/23 14:16	03/23/23 14:16	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028377	100	03/23/23 17:28	03/23/23 17:28	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028248	1	03/23/23 08:33	03/23/23 20:59	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028248	10	03/23/23 08:33	03/23/23 19:50	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028257	1	03/23/23 12:07	03/25/23 01:37	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028257	5	03/23/23 12:07	03/25/23 02:36	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2028952	5	03/24/23 08:39	03/24/23 08:39	MGF	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030328	1	03/26/23 15:55	03/26/23 15:55	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2030545	1	03/28/23 12:55	03/29/23 07:32	DMG	Mt. Juliet, TN

OCD-7B L1597201-10 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 15:10 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2028851	1	03/23/23 17:44	03/23/23 22:05	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028377	10	03/23/23 15:09	03/23/23 15:09	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028377	100	03/23/23 17:42	03/23/23 17:42	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028248	1	03/23/23 08:33	03/23/23 21:02	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028257	1	03/23/23 12:07	03/25/23 01:40	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2028952	1	03/24/23 03:20	03/24/23 03:20	MGF	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030328	1	03/26/23 16:14	03/26/23 16:14	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2030545	1	03/28/23 12:55	03/29/23 07:52	DMG	Mt. Juliet, TN

MW-4B L1597201-11 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 14:10 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2028851	1	03/23/23 17:44	03/23/23 22:05	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028377	10	03/23/23 14:02	03/23/23 14:02	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028248	1	03/23/23 08:33	03/23/23 21:05	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028257	1	03/23/23 12:07	03/25/23 01:43	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2028952	1	03/24/23 03:42	03/24/23 03:42	MGF	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030328	1	03/26/23 16:34	03/26/23 16:34	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2030545	1	03/28/23 12:55	03/29/23 17:49	MAA	Mt. Juliet, TN

MW-5A L1597201-12 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 11:55 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2028851	1	03/23/23 17:44	03/23/23 22:05	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028372	10	03/23/23 00:50	03/23/23 00:50	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028372	100	03/23/23 07:16	03/23/23 07:16	GEB	Mt. Juliet, TN

MW-5A L1597201-12 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 11:55 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICPMS) by Method 6020	WG2028248	1	03/23/23 08:33	03/23/23 21:08	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028248	10	03/23/23 08:33	03/23/23 19:53	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028257	1	03/23/23 12:07	03/25/23 01:46	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2028952	1	03/24/23 04:05	03/24/23 04:05	MGF	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030328	1	03/26/23 16:54	03/26/23 16:54	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2030545	1	03/28/23 12:55	03/29/23 15:06	MAA	Mt. Juliet, TN

MW-5B L1597201-13 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 12:45 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2028851	1	03/23/23 17:44	03/23/23 22:05	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028210	10	03/23/23 00:34	03/23/23 00:34	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028210	100	03/23/23 05:04	03/23/23 05:04	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028248	1	03/23/23 08:33	03/23/23 21:12	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028248	5	03/23/23 08:33	03/23/23 19:56	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028257	1	03/23/23 12:07	03/25/23 02:03	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2028952	1	03/24/23 06:27	03/24/23 06:27	MGF	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030328	1	03/26/23 17:14	03/26/23 17:14	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2030545	1	03/28/23 12:55	03/29/23 08:54	DMG	Mt. Juliet, TN

MW-5C L1597201-14 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 13:30 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2028851	1	03/23/23 17:44	03/23/23 22:05	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028377	10	03/23/23 12:28	03/23/23 12:28	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028248	1	03/23/23 08:33	03/23/23 21:15	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028257	1	03/23/23 12:07	03/25/23 02:06	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2028952	1	03/24/23 06:49	03/24/23 06:49	MGF	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030328	1	03/26/23 17:34	03/26/23 17:34	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2030546	1	03/28/23 08:19	03/28/23 16:24	DMG	Mt. Juliet, TN

MW-7A L1597201-15 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 10:00 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2028851	1	03/23/23 17:44	03/23/23 22:05	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028309	10	03/23/23 00:16	03/23/23 00:16	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028309	100	03/23/23 06:08	03/23/23 06:08	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028248	1	03/23/23 08:33	03/23/23 21:18	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028248	5	03/23/23 08:33	03/23/23 20:00	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028257	1	03/23/23 12:07	03/25/23 02:09	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2028952	1	03/24/23 07:11	03/24/23 07:11	MGF	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030328	1	03/26/23 17:54	03/26/23 17:54	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2030546	1	03/28/23 08:19	03/28/23 16:45	DMG	Mt. Juliet, TN

MW-7B L1597201-16 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 10:55 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2028851	1	03/23/23 17:44	03/23/23 22:05	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028372	10	03/23/23 01:05	03/23/23 01:05	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028248	1	03/23/23 08:33	03/23/23 14:54	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028257	1	03/23/23 12:07	03/25/23 02:13	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2028952	1	03/24/23 07:33	03/24/23 07:33	MGF	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030328	1	03/26/23 18:14	03/26/23 18:14	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2030546	1	03/28/23 08:19	03/28/23 17:06	DMG	Mt. Juliet, TN

OCD-8A L1597201-17 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 08:40 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2028851	1	03/23/23 17:44	03/23/23 22:05	MMF	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG2028782	1	03/26/23 19:50	03/27/23 11:00	UNP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028309	10	03/22/23 23:12	03/22/23 23:12	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028309	100	03/23/23 05:21	03/23/23 05:21	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2028364	1	03/23/23 15:43	03/25/23 10:27	LAS	Mt. Juliet, TN
Mercury by Method 7470A	WG2028366	1	03/23/23 15:48	03/25/23 11:05	LAS	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2028556	1	03/23/23 09:47	03/23/23 23:04	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2028566	1	03/23/23 17:08	03/23/23 22:56	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028248	1	03/23/23 08:33	03/23/23 14:57	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028248	10	03/23/23 08:33	03/23/23 20:19	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028257	1	03/23/23 12:07	03/25/23 02:16	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028257	5	03/23/23 12:07	03/25/23 03:02	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2029475	1	03/24/23 12:43	03/24/23 12:43	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030328	1	03/26/23 18:34	03/26/23 18:34	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2030546	1	03/28/23 08:19	03/28/23 17:26	DMG	Mt. Juliet, TN

OCD-8B L1597201-18 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 09:20 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2028853	1	03/23/23 18:03	03/23/23 23:29	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028309	10	03/22/23 21:53	03/22/23 21:53	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028309	100	03/23/23 04:18	03/23/23 04:18	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028248	1	03/23/23 08:33	03/23/23 15:01	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028248	5	03/23/23 08:33	03/23/23 20:22	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028258	1	03/23/23 08:41	03/23/23 18:21	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2029475	1	03/24/23 13:05	03/24/23 13:05	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030328	1	03/26/23 18:53	03/26/23 18:53	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2030546	1	03/28/23 08:19	03/30/23 18:28	HLJ	Mt. Juliet, TN

DUP-EP-01 L1597201-19 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 12:00 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2028853	1	03/23/23 18:03	03/23/23 23:29	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028372	10	03/23/23 01:21	03/23/23 01:21	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028372	100	03/23/23 07:48	03/23/23 07:48	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028248	1	03/23/23 08:33	03/23/23 15:04	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028248	5	03/23/23 08:33	03/23/23 20:26	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028258	1	03/23/23 08:41	03/23/23 18:24	LD	Mt. Juliet, TN

DUP-EP-01 L1597201-19 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 12:00 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2029475	1	03/24/23 13:27	03/24/23 13:27	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030328	1	03/26/23 19:13	03/26/23 19:13	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2030546	1	03/28/23 08:19	03/28/23 18:08	DMG	Mt. Juliet, TN

EB-EP-03 L1597201-20 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 12:05 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2028853	1	03/23/23 18:03	03/23/23 23:29	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028377	1	03/23/23 10:41	03/23/23 10:41	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028248	1	03/23/23 08:33	03/23/23 15:07	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028258	1	03/23/23 08:41	03/23/23 18:27	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2029475	1	03/24/23 13:49	03/24/23 13:49	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030328	1	03/26/23 19:33	03/26/23 19:33	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2030546	1	03/28/23 08:19	03/28/23 18:28	DMG	Mt. Juliet, TN

TRIP BLANK-EP-02 L1597201-21 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 00:00 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030330	1	03/26/23 13:05	03/26/23 13:05	JAH	Mt. Juliet, TN

MW-25 L1597201-22 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 12:50 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2028853	1	03/23/23 18:03	03/23/23 23:29	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028377	10	03/23/23 11:08	03/23/23 11:08	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028377	100	03/23/23 18:22	03/23/23 18:22	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028250	1	03/23/23 09:53	03/23/23 15:11	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028250	5	03/23/23 09:53	03/23/23 17:04	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028258	1	03/23/23 08:41	03/23/23 18:08	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030330	1	03/26/23 13:27	03/26/23 13:27	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2030546	1	03/28/23 08:19	03/28/23 18:49	DMG	Mt. Juliet, TN

MW-1R L1597201-23 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 13:35 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2028853	1	03/23/23 18:03	03/23/23 23:29	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028377	10	03/23/23 13:08	03/23/23 13:08	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028250	1	03/23/23 09:53	03/23/23 15:24	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028258	1	03/23/23 08:41	03/23/23 18:40	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030330	1	03/26/23 13:48	03/26/23 13:48	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2030546	1	03/28/23 08:19	03/28/23 19:10	DMG	Mt. Juliet, TN

MW-15 L1597201-24 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 14:20 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2028853	1	03/23/23 18:03	03/23/23 23:29	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028377	10	03/23/23 14:29	03/23/23 14:29	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028377	100	03/23/23 18:49	03/23/23 18:49	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028250	1	03/23/23 09:53	03/23/23 15:27	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028258	1	03/23/23 08:41	03/23/23 18:44	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2029475	1	03/24/23 14:11	03/24/23 14:11	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030330	1	03/26/23 14:10	03/26/23 14:10	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2030546	1	03/28/23 08:19	03/28/23 19:31	DMG	Mt. Juliet, TN

MW-87 L1597201-25 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 08:40 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2028853	1	03/23/23 18:03	03/23/23 23:29	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028309	10	03/22/23 20:01	03/22/23 20:01	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028309	100	03/23/23 02:26	03/23/23 02:26	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028250	1	03/23/23 09:53	03/23/23 15:31	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028250	5	03/23/23 09:53	03/23/23 17:07	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028258	1	03/23/23 08:41	03/23/23 18:47	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2029475	1	03/24/23 14:33	03/24/23 14:33	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030330	1	03/26/23 14:32	03/26/23 14:32	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2030546	1	03/28/23 08:19	03/30/23 18:06	HLJ	Mt. Juliet, TN

MW-18A L1597201-26 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 09:25 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2028853	1	03/23/23 18:03	03/23/23 23:29	MMF	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG2028782	1	03/26/23 19:50	03/27/23 11:01	UNP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028309	10	03/22/23 22:09	03/22/23 22:09	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028309	100	03/23/23 04:33	03/23/23 04:33	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2028364	1	03/23/23 15:43	03/25/23 10:29	LAS	Mt. Juliet, TN
Mercury by Method 7470A	WG2028366	1	03/23/23 15:48	03/25/23 11:16	LAS	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2028556	1	03/23/23 09:47	03/23/23 23:07	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2028566	1	03/23/23 17:08	03/23/23 22:59	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028250	1	03/23/23 09:53	03/23/23 15:34	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028250	5	03/23/23 09:53	03/23/23 17:11	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028258	1	03/23/23 08:41	03/23/23 18:50	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028258	5	03/23/23 08:41	03/23/23 20:20	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030330	1	03/26/23 14:54	03/26/23 14:54	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2030546	1	03/28/23 08:19	03/28/23 20:12	DMG	Mt. Juliet, TN

MW-18B L1597201-27 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 10:05 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2028853	1	03/23/23 18:03	03/23/23 23:29	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028309	10	03/22/23 21:05	03/22/23 21:05	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028250	1	03/23/23 09:53	03/23/23 15:57	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028258	1	03/23/23 08:41	03/23/23 18:53	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2029475	1	03/24/23 14:55	03/24/23 14:55	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030330	1	03/26/23 15:16	03/26/23 15:16	JAH	Mt. Juliet, TN

MW-18B L1597201-27 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 10:05 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2030546	1	03/28/23 08:19	03/30/23 23:34	MWS	Mt. Juliet, TN

MW-70 L1597201-28 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 10:50 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2028853	1	03/23/23 18:03	03/23/23 23:29	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028372	10	03/23/23 01:42	03/23/23 01:42	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028372	100	03/23/23 08:04	03/23/23 08:04	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028250	1	03/23/23 09:53	03/23/23 16:00	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028258	1	03/23/23 08:41	03/23/23 18:57	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2029475	1	03/24/23 15:17	03/24/23 15:17	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030330	1	03/26/23 15:37	03/26/23 15:37	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2030546	1	03/28/23 08:19	03/28/23 21:02	DMG	Mt. Juliet, TN

MW-124 L1597201-29 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 11:40 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2028853	1	03/23/23 18:03	03/23/23 23:29	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028372	10	03/23/23 02:29	03/23/23 02:29	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028372	100	03/23/23 08:52	03/23/23 08:52	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028250	1	03/23/23 09:53	03/23/23 16:04	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028250	5	03/23/23 09:53	03/23/23 17:14	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028258	1	03/23/23 08:41	03/23/23 19:00	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2029475	1	03/24/23 15:39	03/24/23 15:39	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030330	1	03/26/23 15:59	03/26/23 15:59	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2030546	1	03/28/23 08:19	03/28/23 21:23	DMG	Mt. Juliet, TN

EB-EP-02 L1597201-30 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 12:00 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2028853	1	03/23/23 18:03	03/23/23 23:29	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028372	1	03/23/23 02:45	03/23/23 02:45	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028250	1	03/23/23 09:53	03/23/23 16:07	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028258	1	03/23/23 08:41	03/23/23 19:03	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2029674	1	03/25/23 21:27	03/25/23 21:27	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030330	1	03/26/23 16:21	03/26/23 16:21	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2030546	1	03/28/23 08:19	03/28/23 21:43	DMG	Mt. Juliet, TN

MW-68 L1597201-36 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 10:10 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2028853	1	03/23/23 18:03	03/23/23 23:29	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028210	10	03/23/23 00:48	03/23/23 00:48	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028250	1	03/23/23 09:53	03/23/23 16:10	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028258	1	03/23/23 08:41	03/23/23 19:07	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030330	1	03/26/23 16:43	03/26/23 16:43	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2030546	1	03/28/23 08:19	03/28/23 22:04	DMG	Mt. Juliet, TN

MW-27 L1597201-37 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 13:25 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2028853	1	03/23/23 18:03	03/23/23 23:29	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028377	10	03/23/23 12:15	03/23/23 12:15	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028250	1	03/23/23 09:53	03/23/23 16:13	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028258	1	03/23/23 08:41	03/23/23 19:10	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030330	1	03/26/23 17:05	03/26/23 17:05	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2030546	1	03/28/23 08:19	03/28/23 22:25	DMG	Mt. Juliet, TN

MW-89 L1597201-38 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 12:35 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2028853	1	03/23/23 18:03	03/23/23 23:29	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028210	10	03/23/23 01:01	03/23/23 01:01	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028250	1	03/23/23 09:53	03/23/23 16:17	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028258	1	03/23/23 08:41	03/23/23 19:21	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030330	1	03/26/23 17:27	03/26/23 17:27	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2030546	1	03/28/23 08:19	03/28/23 22:45	DMG	Mt. Juliet, TN

MW-16 L1597201-39 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 11:50 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2028853	1	03/23/23 18:03	03/23/23 23:29	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028372	10	03/23/23 03:01	03/23/23 03:01	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028372	100	03/23/23 09:08	03/23/23 09:08	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028250	1	03/23/23 09:53	03/23/23 16:20	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028258	1	03/23/23 08:41	03/23/23 19:24	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030330	1	03/26/23 17:48	03/26/23 17:48	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2030546	1	03/28/23 08:19	03/30/23 19:12	HLJ	Mt. Juliet, TN

MW-26 L1597201-40 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 11:05 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2028853	1	03/23/23 18:03	03/23/23 23:29	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028309	10	03/22/23 20:17	03/22/23 20:17	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028309	100	03/23/23 02:42	03/23/23 02:42	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2030997	10	03/28/23 02:53	03/28/23 02:53	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028250	1	03/23/23 09:53	03/23/23 16:23	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028258	1	03/23/23 08:41	03/23/23 19:28	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030330	1	03/26/23 18:10	03/26/23 18:10	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031027	1	03/28/23 08:17	03/28/23 16:18	DMG	Mt. Juliet, TN

KWB-11A L1597201-41 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 14:20 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2028853	1	03/23/23 18:03	03/23/23 23:29	MMF	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG2028779	1	03/26/23 08:44	03/26/23 18:49	LDT	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028377	10	03/23/23 14:43	03/23/23 14:43	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2028364	1	03/23/23 15:43	03/25/23 10:31	LAS	Mt. Juliet, TN

KWB-11A L1597201-41 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 14:20 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Mercury by Method 7470A	WG2028366	1	03/23/23 15:48	03/25/23 11:18	LAS	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2028556	1	03/23/23 09:47	03/23/23 23:10	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2028566	1	03/23/23 17:08	03/23/23 23:07	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028250	1	03/23/23 09:53	03/23/23 16:27	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028258	1	03/23/23 08:41	03/23/23 19:31	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2029674	1	03/25/23 21:49	03/25/23 21:49	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030330	1	03/26/23 18:32	03/26/23 18:32	JAH	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG2031055	1.08	03/28/23 09:16	03/28/23 15:48	LTB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031027	1	03/28/23 08:17	03/28/23 16:38	DMG	Mt. Juliet, TN

MW-117 L1597201-42 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 12:05 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2028853	1	03/23/23 18:03	03/23/23 23:29	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028372	10	03/23/23 03:17	03/23/23 03:17	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2030838	1	03/28/23 17:19	03/29/23 08:42	SRT	Mt. Juliet, TN
Mercury by Method 7470A	WG2030839	1	03/28/23 17:22	03/29/23 09:03	SRT	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2031062	1	03/28/23 08:02	03/28/23 18:20	SPL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2031073	1	03/28/23 10:06	03/28/23 18:40	SPL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028250	1	03/23/23 09:53	03/23/23 16:37	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028258	1	03/23/23 08:41	03/23/23 19:34	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2029674	1	03/25/23 22:10	03/25/23 22:10	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030330	1	03/26/23 18:54	03/26/23 18:54	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031027	1	03/28/23 08:17	03/28/23 16:58	DMG	Mt. Juliet, TN

MW-118 L1597201-43 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 11:20 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2028853	1	03/23/23 18:03	03/23/23 23:29	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028372	10	03/23/23 03:33	03/23/23 03:33	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028372	100	03/23/23 09:40	03/23/23 09:40	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2030838	1	03/28/23 17:19	03/29/23 08:49	SRT	Mt. Juliet, TN
Mercury by Method 7470A	WG2030839	1	03/28/23 17:22	03/29/23 09:11	SRT	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2031062	1	03/28/23 08:02	03/28/23 18:23	SPL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2031073	1	03/28/23 10:06	03/28/23 18:51	SPL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028250	1	03/23/23 09:53	03/23/23 16:40	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028258	1	03/23/23 08:41	03/23/23 19:37	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2029674	1	03/25/23 22:32	03/25/23 22:32	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030330	1	03/26/23 19:16	03/26/23 19:16	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031027	1	03/28/23 08:17	03/29/23 13:45	MAA	Mt. Juliet, TN

MW-119 L1597201-44 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 10:25 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2028928	1	03/23/23 18:17	03/23/23 22:45	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028210	10	03/22/23 23:40	03/22/23 23:40	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028210	100	03/23/23 03:44	03/23/23 03:44	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2030838	1	03/28/23 17:19	03/29/23 08:51	SRT	Mt. Juliet, TN
Mercury by Method 7470A	WG2030839	1	03/28/23 17:22	03/29/23 09:13	SRT	Mt. Juliet, TN

MW-119 L1597201-44 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 10:25 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG2031062	1	03/28/23 08:02	03/28/23 18:09	SPL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2031073	1	03/28/23 10:06	03/28/23 18:55	SPL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028250	1	03/23/23 09:53	03/23/23 16:43	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028259	1	03/22/23 22:51	03/23/23 19:57	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2029674	1	03/25/23 22:54	03/25/23 22:54	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030330	1	03/26/23 19:37	03/26/23 19:37	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031027	1	03/28/23 08:17	03/28/23 17:39	DMG	Mt. Juliet, TN

NP-5 L1597201-45 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 09:20 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2028928	1	03/23/23 18:17	03/23/23 22:45	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028309	10	03/22/23 20:33	03/22/23 20:33	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028309	100	03/23/23 02:58	03/23/23 02:58	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028250	1	03/23/23 09:53	03/23/23 16:46	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028259	1	03/22/23 22:51	03/23/23 20:10	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030330	1	03/26/23 19:59	03/26/23 19:59	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031027	1	03/28/23 08:17	03/28/23 17:59	DMG	Mt. Juliet, TN

MW-136 L1597201-46 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 08:35 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2028928	1	03/23/23 18:17	03/23/23 22:45	MMF	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG2028779	2	03/26/23 08:44	03/26/23 18:52	LDT	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028309	10	03/22/23 20:49	03/22/23 20:49	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2030997	10	03/28/23 03:18	03/28/23 03:18	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2028364	1	03/23/23 15:43	03/25/23 10:33	LAS	Mt. Juliet, TN
Mercury by Method 7470A	WG2028366	1	03/23/23 15:48	03/25/23 11:20	LAS	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2028557	1	03/23/23 13:48	03/24/23 16:09	SPL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2028566	1	03/23/23 17:08	03/23/23 23:09	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028250	1	03/23/23 09:53	03/23/23 16:50	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028259	1	03/22/23 22:51	03/23/23 20:13	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2029674	1	03/25/23 23:16	03/25/23 23:16	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030391	1	03/27/23 03:11	03/27/23 03:11	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031027	1	03/28/23 08:17	03/28/23 18:19	DMG	Mt. Juliet, TN

MW-126B L1597201-47 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 11:35 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2028928	1	03/23/23 18:17	03/23/23 22:45	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028372	10	03/23/23 03:49	03/23/23 03:49	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028372	100	03/23/23 09:56	03/23/23 09:56	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028251	1	03/23/23 10:22	03/27/23 14:15	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028259	1	03/22/23 22:51	03/23/23 20:16	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2029674	1	03/25/23 23:38	03/25/23 23:38	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030391	1	03/27/23 03:31	03/27/23 03:31	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031027	1	03/28/23 08:17	03/28/23 19:42	DMG	Mt. Juliet, TN

KWB-1A L1597201-48 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 10:15 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2028928	1	03/23/23 18:17	03/23/23 22:45	MMF	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG2028779	1	03/26/23 08:44	03/26/23 18:53	LDT	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028210	10	03/22/23 23:54	03/22/23 23:54	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028210	100	03/23/23 03:57	03/23/23 03:57	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2028364	1	03/23/23 15:43	03/25/23 10:35	LAS	Mt. Juliet, TN
Mercury by Method 7470A	WG2028366	1	03/23/23 15:48	03/25/23 11:22	LAS	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2028557	1	03/23/23 13:48	03/24/23 16:12	SPL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2028566	1	03/23/23 17:08	03/23/23 23:12	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028251	1	03/23/23 09:57	03/27/23 14:18	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028259	1	03/22/23 22:51	03/23/23 20:31	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030391	1	03/27/23 03:51	03/27/23 03:51	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031027	1	03/28/23 08:17	03/28/23 20:02	DMG	Mt. Juliet, TN

KWB-1C L1597201-49 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 10:55 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2028928	1	03/23/23 18:17	03/23/23 22:45	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028372	10	03/23/23 04:05	03/23/23 04:05	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028372	100	03/23/23 10:12	03/23/23 10:12	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028251	1	03/23/23 10:22	03/27/23 14:21	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028259	1	03/22/23 22:51	03/23/23 20:34	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030391	1	03/27/23 04:11	03/27/23 04:11	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031027	1	03/28/23 08:17	03/29/23 14:26	MAA	Mt. Juliet, TN

KWB-12B L1597201-50 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 08:50 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2028928	1	03/23/23 18:17	03/23/23 22:45	MMF	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG2028779	1	03/26/23 08:44	03/26/23 18:55	LDT	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028309	10	03/23/23 01:04	03/23/23 01:04	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028309	100	03/23/23 06:24	03/23/23 06:24	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2030997	10	03/28/23 03:31	03/28/23 03:31	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2028364	1	03/23/23 15:43	03/25/23 10:37	LAS	Mt. Juliet, TN
Mercury by Method 7470A	WG2028366	1	03/23/23 15:48	03/25/23 11:24	LAS	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2028557	1	03/23/23 13:48	03/24/23 16:15	SPL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2028566	1	03/23/23 17:08	03/23/23 23:15	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028251	1	03/23/23 10:22	03/27/23 14:25	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028259	1	03/22/23 22:51	03/23/23 20:38	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2029674	1	03/26/23 00:00	03/26/23 00:00	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030391	1	03/27/23 04:31	03/27/23 04:31	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031027	1	03/28/23 08:17	03/28/23 20:43	DMG	Mt. Juliet, TN

KWB-2R L1597201-51 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 14:25 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2028928	1	03/23/23 18:17	03/23/23 22:45	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028377	10	03/23/23 14:56	03/23/23 14:56	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028251	1	03/23/23 10:22	03/27/23 14:28	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028259	1	03/22/23 22:51	03/23/23 20:41	LD	Mt. Juliet, TN

KWB-2R L1597201-51 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 14:25 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030864	5	03/27/23 19:01	03/27/23 19:01	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031027	1	03/28/23 08:17	03/28/23 21:03	DMG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod	WG2027707	1	03/23/23 03:34	03/23/23 12:02	AGW	Mt. Juliet, TN

KWB-13 L1597201-52 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 13:20 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2028928	1	03/23/23 18:17	03/23/23 22:45	MMF	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG2028779	5	03/26/23 08:44	03/26/23 18:56	LDT	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028377	10	03/23/23 12:01	03/23/23 12:01	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028377	100	03/23/23 20:09	03/23/23 20:09	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2028364	1	03/23/23 15:43	03/25/23 10:39	LAS	Mt. Juliet, TN
Mercury by Method 7470A	WG2028366	1	03/23/23 15:48	03/25/23 11:26	LAS	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2028557	1	03/23/23 13:48	03/24/23 16:18	SPL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2028566	1	03/23/23 17:08	03/23/23 23:18	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028251	1	03/23/23 09:57	03/27/23 14:31	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028259	1	03/22/23 22:51	03/23/23 20:45	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030391	1	03/27/23 04:51	03/27/23 04:51	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031027	1	03/28/23 08:17	03/29/23 14:05	MAA	Mt. Juliet, TN

DUP-REST-05 L1597201-53 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 12:00 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2028928	1	03/23/23 18:17	03/23/23 22:45	MMF	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG2028779	1	03/26/23 08:44	03/26/23 18:58	LDT	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028372	10	03/23/23 04:21	03/23/23 04:21	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028372	100	03/23/23 10:28	03/23/23 10:28	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2029442	1	03/26/23 17:11	03/27/23 07:51	SRT	Mt. Juliet, TN
Mercury by Method 7470A	WG2030410	1	03/27/23 16:13	03/28/23 10:37	SRT	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2029740	1	03/25/23 14:32	03/26/23 20:29	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2029748	1	03/26/23 09:49	03/26/23 22:09	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028251	1	03/23/23 10:22	03/27/23 14:34	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028259	1	03/22/23 22:51	03/23/23 20:48	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029758	1	03/27/23 12:11	03/27/23 17:13	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2029674	1	03/26/23 00:22	03/26/23 00:22	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030391	1	03/27/23 05:11	03/27/23 05:11	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031027	1	03/28/23 08:17	03/28/23 21:44	DMG	Mt. Juliet, TN

EB-REST-05 L1597201-54 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 09:15 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2028928	1	03/23/23 18:17	03/23/23 22:45	MMF	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG2028779	1	03/26/23 08:44	03/26/23 18:59	LDT	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028309	1	03/22/23 22:25	03/22/23 22:25	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2029442	1	03/26/23 17:11	03/27/23 07:59	SRT	Mt. Juliet, TN
Mercury by Method 7470A	WG2030410	1	03/27/23 16:13	03/28/23 10:08	SRT	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2029740	1	03/25/23 14:32	03/26/23 20:32	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2029748	1	03/26/23 09:49	03/26/23 22:12	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028251	1	03/23/23 10:22	03/27/23 14:38	JPD	Mt. Juliet, TN

EB-REST-05 L1597201-54 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 09:15 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICPMS) by Method 6020	WG2028259	1	03/22/23 22:51	03/23/23 20:52	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029758	1	03/27/23 12:11	03/27/23 17:17	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2029674	1	03/26/23 00:44	03/26/23 00:44	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030391	1	03/27/23 05:32	03/27/23 05:32	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031027	1	03/28/23 08:17	03/28/23 22:08	DMG	Mt. Juliet, TN

TRIP BLANK-REST-02 L1597201-55 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 00:00 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030391	1	03/27/23 00:51	03/27/23 00:51	DWR	Mt. Juliet, TN

MW-101 L1597201-56 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 12:05 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2028928	1	03/23/23 18:17	03/23/23 22:45	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028210	10	03/23/23 01:15	03/23/23 01:15	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028251	1	03/23/23 10:22	03/27/23 14:41	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028259	1	03/22/23 22:51	03/23/23 20:55	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2029674	10	03/26/23 01:50	03/26/23 01:50	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030391	10	03/27/23 06:32	03/27/23 06:32	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030864	50	03/27/23 19:22	03/27/23 19:22	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031027	5	03/28/23 08:17	03/29/23 18:13	MAA	Mt. Juliet, TN

MW-105 L1597201-57 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 08:25 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2028928	1	03/23/23 18:17	03/23/23 22:45	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028309	10	03/23/23 01:20	03/23/23 01:20	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028251	1	03/23/23 10:22	03/27/23 15:00	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028251	5	03/23/23 10:22	03/27/23 15:13	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028259	1	03/22/23 22:51	03/23/23 20:58	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2029674	25	03/26/23 02:12	03/26/23 02:12	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030391	100	03/27/23 06:52	03/27/23 06:52	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031027	1	03/28/23 08:17	03/28/23 23:02	DMG	Mt. Juliet, TN

RW-2 L1597201-58 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 10:25 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2028928	1	03/23/23 18:17	03/23/23 22:45	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028210	1	03/23/23 00:07	03/23/23 00:07	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028210	10	03/23/23 04:11	03/23/23 04:11	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028251	1	03/23/23 10:22	03/27/23 13:39	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028259	1	03/22/23 22:51	03/23/23 21:01	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028259	1	03/22/23 22:51	03/24/23 12:14	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2029674	20	03/26/23 02:34	03/26/23 02:34	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030391	20	03/27/23 07:12	03/27/23 07:12	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031031	1	03/28/23 22:06	03/29/23 03:47	MAA	Mt. Juliet, TN

RW-2 L1597201-58 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 10:25 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod	WG2027707	1	03/23/23 03:34	03/23/23 12:21	AGW	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG2030230	1	03/27/23 06:23	03/28/23 15:02	DSH	Mt. Juliet, TN

MW-61 L1597201-59 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 09:25 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2028928	1	03/23/23 18:17	03/23/23 22:45	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028309	10	03/22/23 22:41	03/22/23 22:41	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028251	1	03/23/23 10:56	03/27/23 15:04	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028259	1	03/22/23 22:51	03/23/23 21:11	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2029674	10	03/26/23 02:56	03/26/23 02:56	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030391	50	03/27/23 07:32	03/27/23 07:32	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031031	1	03/28/23 22:06	03/29/23 04:07	MAA	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG2030230	1	03/27/23 06:23	03/28/23 15:23	ADF	Mt. Juliet, TN

MW-62R L1597201-60 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 11:05 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2028928	1	03/23/23 18:17	03/23/23 22:45	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028372	1	03/23/23 04:37	03/23/23 04:37	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028372	10	03/23/23 12:03	03/23/23 12:03	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028251	1	03/23/23 10:22	03/27/23 15:07	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028251	5	03/23/23 10:22	03/27/23 15:17	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028259	1	03/22/23 22:51	03/23/23 21:14	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2031178	10	03/28/23 10:59	03/28/23 10:59	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030391	100	03/27/23 07:52	03/27/23 07:52	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031031	1	03/28/23 22:06	03/29/23 04:26	MAA	Mt. Juliet, TN

MW-49 L1597201-61 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 13:00 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2028928	1	03/23/23 18:17	03/23/23 22:45	MMF	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG2028779	25	03/26/23 08:44	03/26/23 19:00	LDT	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028377	1	03/23/23 11:35	03/23/23 11:35	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028377	10	03/23/23 22:50	03/23/23 22:50	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2028364	1	03/23/23 15:43	03/25/23 10:41	LAS	Mt. Juliet, TN
Mercury by Method 7470A	WG2028366	1	03/23/23 15:48	03/25/23 11:28	LAS	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2028557	1	03/23/23 13:48	03/24/23 15:40	SPL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2028566	1	03/23/23 17:08	03/23/23 23:20	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028251	1	03/23/23 10:03	03/27/23 15:10	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028259	1	03/22/23 22:51	03/23/23 21:18	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028259	1	03/22/23 22:51	03/24/23 12:17	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029229	1	03/24/23 10:57	03/24/23 23:16	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2029674	5	03/26/23 03:17	03/26/23 03:17	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030391	10	03/27/23 08:12	03/27/23 08:12	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031031	1	03/28/23 22:06	03/29/23 04:47	MAA	Mt. Juliet, TN

TRIP BLANK-REST-04 L1597201-62 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 00:00 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030391	1	03/27/23 01:11	03/27/23 01:11	DWR	Mt. Juliet, TN

MW-103 L1597201-63 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 10:05 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2028928	1	03/23/23 18:17	03/23/23 22:45	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028309	10	03/22/23 22:56	03/22/23 22:56	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028309	100	03/23/23 05:05	03/23/23 05:05	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028259	1	03/22/23 22:51	03/23/23 21:21	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028259	1	03/22/23 22:51	03/24/23 12:21	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028573	1	03/23/23 10:06	03/24/23 15:42	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028573	5	03/23/23 10:06	03/24/23 17:53	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2029674	5	03/26/23 03:40	03/26/23 03:40	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030391	10	03/27/23 08:32	03/27/23 08:32	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031031	1	03/28/23 22:06	03/29/23 05:10	MAA	Mt. Juliet, TN

MW-104 L1597201-64 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 10:50 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2028928	1	03/23/23 18:17	03/23/23 22:45	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028372	1	03/23/23 04:53	03/23/23 04:53	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028372	10	03/23/23 12:35	03/23/23 12:35	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028259	1	03/22/23 22:51	03/23/23 21:24	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028573	1	03/23/23 10:06	03/24/23 17:07	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2031178	1	03/28/23 10:37	03/28/23 10:37	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030391	1	03/27/23 05:52	03/27/23 05:52	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031031	1	03/28/23 22:06	03/29/23 15:34	MAA	Mt. Juliet, TN

MW-64 L1597201-65 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 11:40 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2028928	1	03/23/23 18:17	03/23/23 22:45	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028372	1	03/23/23 05:41	03/23/23 05:41	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028372	10	03/23/23 13:23	03/23/23 13:23	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028259	1	03/22/23 22:51	03/23/23 21:28	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028573	1	03/23/23 10:06	03/24/23 17:10	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2030121	25	03/26/23 05:13	03/26/23 05:13	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030391	500	03/27/23 08:52	03/27/23 08:52	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031031	1	03/28/23 22:06	03/29/23 05:55	MAA	Mt. Juliet, TN

MW-65 L1597201-66 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 12:20 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2029304	1	03/24/23 07:49	03/24/23 10:51	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028210	1	03/23/23 01:28	03/23/23 01:28	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028210	10	03/23/23 05:58	03/23/23 05:58	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028260	1	03/23/23 00:12	03/23/23 15:45	JPD	Mt. Juliet, TN

MW-65 L1597201-66 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 12:20 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICPMS) by Method 6020	WG2028573	1	03/23/23 10:06	03/24/23 17:13	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2030121	1	03/26/23 01:56	03/26/23 01:56	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030392	1	03/27/23 13:22	03/27/23 13:22	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2031544	25	03/29/23 02:20	03/29/23 02:20	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031031	2	03/28/23 22:06	03/29/23 06:17	MAA	Mt. Juliet, TN

RW-4 L1597201-67 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 14:00 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2029304	1	03/24/23 07:49	03/24/23 10:51	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028377	1	03/23/23 13:35	03/23/23 13:35	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028377	10	03/23/23 20:23	03/23/23 20:23	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028260	1	03/23/23 00:12	03/23/23 15:49	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028573	1	03/23/23 10:06	03/24/23 17:17	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2031702	1	03/29/23 02:32	03/29/23 02:32	KSD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031031	1	03/28/23 22:06	03/29/23 14:50	MAA	Mt. Juliet, TN

RW-6 L1597201-68 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 13:15 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2029304	1	03/24/23 07:49	03/24/23 10:51	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028377	1	03/23/23 11:48	03/23/23 11:48	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028377	10	03/23/23 23:44	03/23/23 23:44	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028260	1	03/23/23 00:12	03/23/23 15:53	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028573	1	03/23/23 10:06	03/24/23 17:20	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030392	25	03/27/23 18:06	03/27/23 18:06	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2031544	250	03/29/23 02:39	03/29/23 02:39	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031031	2	03/28/23 22:06	03/29/23 09:04	MAA	Mt. Juliet, TN

MW-96 L1597201-69 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 09:15 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2029304	1	03/24/23 07:49	03/24/23 10:51	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028309	1	03/23/23 01:36	03/23/23 01:36	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028558	1	03/23/23 13:39	03/24/23 19:46	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028573	1	03/23/23 10:06	03/24/23 17:23	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2030121	10	03/26/23 05:35	03/26/23 05:35	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030392	1000	03/27/23 18:27	03/27/23 18:27	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2031544	1000	03/29/23 02:58	03/29/23 02:58	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031031	1	03/28/23 22:06	03/29/23 09:26	MAA	Mt. Juliet, TN

NCL-33 L1597201-70 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 03/21/23 12:55 | Received date/time: 03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2029304	1	03/24/23 07:49	03/24/23 10:51	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028377	10	03/23/23 11:21	03/23/23 11:21	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028558	1	03/23/23 13:39	03/24/23 19:52	JPD	Mt. Juliet, TN

NCL-33 L1597201-70 GW

Collected by	Collected date/time	Received date/time
Scott Ude/HMI Team	03/21/23 12:55	03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICPMS) by Method 6020	WG2028573	1	03/23/23 10:06	03/24/23 17:26	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030392	1	03/27/23 14:06	03/27/23 14:06	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2031544	1	03/29/23 00:24	03/29/23 00:24	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031031	1	03/28/23 22:06	03/29/23 13:43	MAA	Mt. Juliet, TN

NCL-44 L1597201-71 GW

Collected by	Collected date/time	Received date/time
Scott Ude/HMI Team	03/21/23 10:45	03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2029304	1	03/24/23 07:49	03/24/23 10:51	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028372	10	03/23/23 05:57	03/23/23 05:57	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028558	1	03/23/23 13:39	03/24/23 19:55	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028573	1	03/23/23 10:06	03/24/23 17:30	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030392	1	03/27/23 14:27	03/27/23 14:27	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2031544	1	03/29/23 00:44	03/29/23 00:44	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031031	1	03/28/23 22:06	03/29/23 11:07	MAA	Mt. Juliet, TN

NCL-32 L1597201-72 GW

Collected by	Collected date/time	Received date/time
Scott Ude/HMI Team	03/21/23 11:40	03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2029304	1	03/24/23 07:49	03/24/23 10:51	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028372	10	03/23/23 06:13	03/23/23 06:13	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028558	1	03/23/23 13:39	03/24/23 20:05	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028573	1	03/23/23 10:06	03/24/23 17:33	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030392	1	03/27/23 14:49	03/27/23 14:49	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2031544	1	03/29/23 01:03	03/29/23 01:03	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031031	1	03/28/23 22:06	03/29/23 12:59	MAA	Mt. Juliet, TN

MW-108 L1597201-73 GW

Collected by	Collected date/time	Received date/time
Scott Ude/HMI Team	03/21/23 08:25	03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2029304	1	03/24/23 07:49	03/24/23 10:51	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028309	1	03/22/23 23:28	03/22/23 23:28	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028558	1	03/23/23 13:39	03/24/23 20:09	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028573	1	03/23/23 10:06	03/24/23 17:43	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030392	1	03/27/23 15:11	03/27/23 15:11	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031031	1	03/28/23 22:06	03/29/23 11:30	MAA	Mt. Juliet, TN

NCL-31 L1597201-74 GW

Collected by	Collected date/time	Received date/time
Scott Ude/HMI Team	03/21/23 08:30	03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2029304	1	03/24/23 07:49	03/24/23 10:51	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028309	1	03/22/23 23:44	03/22/23 23:44	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028309	10	03/23/23 05:37	03/23/23 05:37	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028558	1	03/23/23 13:39	03/24/23 20:12	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028573	1	03/23/23 10:06	03/24/23 17:46	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030392	1	03/27/23 15:33	03/27/23 15:33	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031031	1	03/28/23 22:06	03/29/23 15:12	MAA	Mt. Juliet, TN

SAMPLE SUMMARY

MW-55 L1597201-75 GW

Collected by	Collected date/time	Received date/time
Scott Ude/HMI Team	03/21/23 10:15	03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2029304	1	03/24/23 07:49	03/24/23 10:51	MMF	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG2028779	1	03/26/23 08:44	03/26/23 19:02	LDT	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028210	1	03/23/23 00:21	03/23/23 00:21	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028210	10	03/23/23 04:51	03/23/23 04:51	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2028364	1	03/23/23 15:43	03/25/23 10:47	LAS	Mt. Juliet, TN
Mercury by Method 7470A	WG2028366	1	03/23/23 15:48	03/25/23 11:30	LAS	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2028557	1	03/23/23 13:48	03/24/23 15:43	SPL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2028566	1	03/23/23 17:08	03/23/23 23:23	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028558	1	03/23/23 13:04	03/24/23 20:15	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028573	1	03/23/23 09:58	03/24/23 17:49	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2030121	1	03/26/23 02:17	03/26/23 02:17	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030392	1	03/27/23 15:54	03/27/23 15:54	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2031544	10	03/29/23 03:17	03/29/23 03:17	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031031	1	03/28/23 22:06	03/29/23 12:14	MAA	Mt. Juliet, TN

MW-18 L1597201-76 GW

Collected by	Collected date/time	Received date/time
Scott Ude/HMI Team	03/21/23 09:55	03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2029304	1	03/24/23 07:49	03/24/23 10:51	MMF	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG2028779	2	03/26/23 08:44	03/26/23 19:18	LDT	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028309	10	03/23/23 00:00	03/23/23 00:00	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2030997	10	03/28/23 05:48	03/28/23 05:48	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2028364	1	03/23/23 15:43	03/25/23 10:49	LAS	Mt. Juliet, TN
Mercury by Method 7470A	WG2028366	1	03/23/23 15:48	03/25/23 11:38	LAS	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2028557	1	03/23/23 13:48	03/24/23 15:57	SPL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2028566	1	03/23/23 17:08	03/23/23 23:26	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028558	1	03/23/23 13:04	03/24/23 20:18	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028573	1	03/23/23 09:58	03/24/23 17:56	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030392	1	03/27/23 16:16	03/27/23 16:16	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2031544	1	03/29/23 01:22	03/29/23 01:22	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031031	1	03/28/23 22:06	03/29/23 10:23	MAA	Mt. Juliet, TN

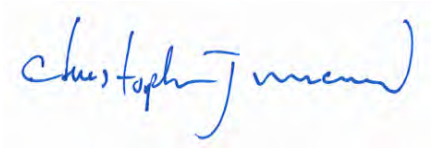
MW-53R L1597201-77 GW

Collected by	Collected date/time	Received date/time
Scott Ude/HMI Team	03/21/23 14:00	03/22/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2029304	1	03/24/23 07:49	03/24/23 10:51	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2028377	10	03/23/23 13:49	03/23/23 13:49	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028558	1	03/23/23 13:39	03/24/23 20:22	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2028573	1	03/23/23 10:06	03/24/23 17:59	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030392	1	03/27/23 16:38	03/27/23 16:38	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031031	1	03/28/23 22:06	03/31/23 13:28	MWS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod	WG2027707	1	03/23/23 03:34	03/23/23 12:40	AGW	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	4020		100	1	03/23/2023 22:05	WG2028851

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	578		3.79	10.0	10	03/22/2023 19:30	WG2028309
Fluoride	1.77		0.640	1.50	10	03/22/2023 19:30	WG2028309
Nitrate	U		0.480	1.00	10	03/22/2023 19:30	WG2028309
Nitrite	0.649	J	0.420	1.00	10	03/22/2023 19:30	WG2028309
Sulfate	1900		5.94	50.0	10	03/22/2023 19:30	WG2028309

Sample Narrative:

L1597201-01 WG2028309: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00591		0.000180	0.00200	1	03/23/2023 15:37	WG2028248
Arsenic,Dissolved	0.00635		0.000180	0.00200	1	03/25/2023 00:45	WG2028257
Barium	0.0131		0.000381	0.00200	1	03/23/2023 15:37	WG2028248
Barium,Dissolved	0.0152		0.000381	0.00200	1	03/25/2023 00:45	WG2028257
Calcium	361		0.0936	1.00	1	03/23/2023 15:37	WG2028248
Chromium	U		0.00124	0.00200	1	03/23/2023 15:37	WG2028248
Chromium,Dissolved	U		0.00124	0.00200	1	03/25/2023 00:45	WG2028257
Iron	0.914		0.0281	0.100	1	03/23/2023 15:37	WG2028248
Iron,Dissolved	0.958		0.0281	0.100	1	03/25/2023 00:45	WG2028257
Lead	U		0.000849	0.00200	1	03/23/2023 15:37	WG2028248
Lead,Dissolved	U		0.000849	0.00200	1	03/25/2023 00:45	WG2028257
Manganese	0.643		0.000704	0.00500	1	03/23/2023 15:37	WG2028248
Manganese,Dissolved	0.701		0.000704	0.00500	1	03/25/2023 00:45	WG2028257
Potassium	1.17	J	0.108	2.00	1	03/23/2023 15:37	WG2028248
Selenium	0.00134	J	0.000300	0.00200	1	03/23/2023 15:37	WG2028248
Selenium,Dissolved	0.000597	J	0.000300	0.00200	1	03/25/2023 00:45	WG2028257
Sodium	636		0.376	2.00	1	03/23/2023 15:37	WG2028248

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	0.599	B	0.0314	0.100	1	03/24/2023 00:24	WG2028952
(S) a,a,a-Trifluorotoluene(FID)	*98.9*			*78.0-120*		*03/24/2023 00:24*	WG2028952

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	03/26/2023 13:15	WG2030328
Benzene	U		0.0000941	0.00100	1	03/26/2023 13:15	WG2030328
Bromodichloromethane	U		0.000136	0.00100	1	03/26/2023 13:15	WG2030328
Bromoform	U		0.000129	0.00100	1	03/26/2023 13:15	WG2030328
Bromomethane	U		0.000605	0.00500	1	03/26/2023 13:15	WG2030328
n-Butylbenzene	U		0.000157	0.00100	1	03/26/2023 13:15	WG2030328
sec-Butylbenzene	0.000132	J	0.000125	0.00100	1	03/26/2023 13:15	WG2030328
Carbon disulfide	0.000567	B J	0.0000962	0.00100	1	03/26/2023 13:15	WG2030328
Carbon tetrachloride	U		0.000128	0.00100	1	03/26/2023 13:15	WG2030328

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	03/26/2023 13:15	WG2030328
Chlorodibromomethane	U		0.000140	0.00100	1	03/26/2023 13:15	WG2030328
Chloroethane	U		0.000192	0.00500	1	03/26/2023 13:15	WG2030328
Chloroform	U		0.000111	0.00500	1	03/26/2023 13:15	WG2030328
Chloromethane	U		0.000960	0.00250	1	03/26/2023 13:15	WG2030328
1,2-Dibromoethane	U		0.000126	0.00100	1	03/26/2023 13:15	WG2030328
1,1-Dichloroethane	U		0.000100	0.00100	1	03/26/2023 13:15	WG2030328
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/26/2023 13:15	WG2030328
1,1-Dichloroethene	U		0.000188	0.00100	1	03/26/2023 13:15	WG2030328
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/26/2023 13:15	WG2030328
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/26/2023 13:15	WG2030328
1,2-Dichloropropane	U		0.000149	0.00100	1	03/26/2023 13:15	WG2030328
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/26/2023 13:15	WG2030328
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/26/2023 13:15	WG2030328
Ethylbenzene	0.000884	J	0.000137	0.00100	1	03/26/2023 13:15	WG2030328
Isopropylbenzene	0.000287	J	0.000105	0.00100	1	03/26/2023 13:15	WG2030328
p-Isopropyltoluene	U		0.000120	0.00100	1	03/26/2023 13:15	WG2030328
2-Butanone (MEK)	U		0.00119	0.0100	1	03/26/2023 13:15	WG2030328
2-Hexanone	U		0.000787	0.0100	1	03/26/2023 13:15	WG2030328
Methylene Chloride	U		0.000430	0.00500	1	03/26/2023 13:15	WG2030328
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/26/2023 13:15	WG2030328
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/26/2023 13:15	WG2030328
Naphthalene	U		0.00100	0.00500	1	03/26/2023 13:15	WG2030328
n-Propylbenzene	0.000129	J	0.0000993	0.00100	1	03/26/2023 13:15	WG2030328
Styrene	U		0.000118	0.00100	1	03/26/2023 13:15	WG2030328
tert-Butyl alcohol	0.0235		0.00406	0.00500	1	03/26/2023 13:15	WG2030328
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/26/2023 13:15	WG2030328
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/26/2023 13:15	WG2030328
Tetrachloroethene	U		0.000300	0.00100	1	03/26/2023 13:15	WG2030328
Toluene	0.000850	J	0.000278	0.00100	1	03/26/2023 13:15	WG2030328
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/26/2023 13:15	WG2030328
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/26/2023 13:15	WG2030328
Trichloroethene	U		0.000190	0.00100	1	03/26/2023 13:15	WG2030328
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/26/2023 13:15	WG2030328
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/26/2023 13:15	WG2030328
Vinyl chloride	U		0.000234	0.00100	1	03/26/2023 13:15	WG2030328
o-Xylene	0.00284		0.000174	0.00100	1	03/26/2023 13:15	WG2030328
m&p-Xylene	0.00233		0.000430	0.00200	1	03/26/2023 13:15	WG2030328
Xylenes, Total	0.00517		0.000174	0.00300	1	03/26/2023 13:15	WG2030328
(S) Toluene-d8	*107*			*80.0-120*		*03/26/2023 13:15*	WG2030328
(S) 4-Bromofluorobenzene	*99.7*			*77.0-126*		*03/26/2023 13:15*	WG2030328
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*03/26/2023 13:15*	WG2030328

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	0.167	B	0.0247	0.100	1	03/29/2023 15:46	WG2030545
(S) o-Terphenyl	*118*			*31.0-160*		*03/29/2023 15:46*	WG2030545

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	0.000293	J	0.0000447	0.000400	1	03/23/2023 10:44	WG2027707
(S) Nitrobenzene-d5	*49.3*			*10.0-120*		*03/23/2023 10:44*	WG2027707

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4640		100	1	03/23/2023 22:05	WG2028851

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1420	V	3.79	10.0	10	03/22/2023 19:45	WG2028309
Fluoride	0.848	J	0.640	1.50	10	03/22/2023 19:45	WG2028309
Nitrate	U		0.480	1.00	10	03/22/2023 19:45	WG2028309
Nitrite	0.644	J J6	0.420	1.00	10	03/22/2023 19:45	WG2028309
Sulfate	1670	V	5.94	50.0	10	03/22/2023 19:45	WG2028309

Sample Narrative:

L1597201-02 WG2028309: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0367		0.000180	0.00200	1	03/23/2023 15:24	WG2028248
Arsenic,Dissolved	0.0394		0.000180	0.00200	1	03/25/2023 01:07	WG2028257
Barium	0.0149		0.000381	0.00200	1	03/23/2023 15:24	WG2028248
Barium,Dissolved	0.0151		0.000381	0.00200	1	03/25/2023 01:07	WG2028257
Calcium	539		0.0936	1.00	1	03/23/2023 15:24	WG2028248
Chromium	U		0.00124	0.00200	1	03/23/2023 15:24	WG2028248
Chromium,Dissolved	U		0.00124	0.00200	1	03/25/2023 01:07	WG2028257
Iron	1.59		0.0281	0.100	1	03/23/2023 15:24	WG2028248
Iron,Dissolved	1.70		0.0281	0.100	1	03/25/2023 01:07	WG2028257
Lead	U		0.000849	0.00200	1	03/23/2023 15:24	WG2028248
Lead,Dissolved	U		0.000849	0.00200	1	03/25/2023 01:07	WG2028257
Manganese	2.57		0.000704	0.00500	1	03/23/2023 15:24	WG2028248
Manganese,Dissolved	3.05		0.000704	0.00500	1	03/25/2023 01:07	WG2028257
Potassium	5.66		0.108	2.00	1	03/23/2023 15:24	WG2028248
Selenium	U		0.000300	0.00200	1	03/23/2023 15:24	WG2028248
Selenium,Dissolved	U		0.000300	0.00200	1	03/25/2023 01:07	WG2028257
Sodium	760		0.376	2.00	1	03/23/2023 15:24	WG2028248

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	0.0964	B J	0.0314	0.100	1	03/24/2023 00:46	WG2028952
(S) a,a,a-Trifluorotoluene(FID)	*98.2*			*78.0-120*		*03/24/2023 00:46*	WG2028952

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	03/26/2023 13:35	WG2030328
Benzene	U		0.0000941	0.00100	1	03/26/2023 13:35	WG2030328
Bromodichloromethane	U		0.000136	0.00100	1	03/26/2023 13:35	WG2030328
Bromoform	U		0.000129	0.00100	1	03/26/2023 13:35	WG2030328
Bromomethane	U		0.000605	0.00500	1	03/26/2023 13:35	WG2030328
n-Butylbenzene	U		0.000157	0.00100	1	03/26/2023 13:35	WG2030328
sec-Butylbenzene	U		0.000125	0.00100	1	03/26/2023 13:35	WG2030328
Carbon disulfide	0.000213	B J	0.0000962	0.00100	1	03/26/2023 13:35	WG2030328
Carbon tetrachloride	U		0.000128	0.00100	1	03/26/2023 13:35	WG2030328

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	03/26/2023 13:35	WG2030328
Chlorodibromomethane	U		0.000140	0.00100	1	03/26/2023 13:35	WG2030328
Chloroethane	U		0.000192	0.00500	1	03/26/2023 13:35	WG2030328
Chloroform	U		0.000111	0.00500	1	03/26/2023 13:35	WG2030328
Chloromethane	U		0.000960	0.00250	1	03/26/2023 13:35	WG2030328
1,2-Dibromoethane	U		0.000126	0.00100	1	03/26/2023 13:35	WG2030328
1,1-Dichloroethane	U		0.000100	0.00100	1	03/26/2023 13:35	WG2030328
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/26/2023 13:35	WG2030328
1,1-Dichloroethene	U		0.000188	0.00100	1	03/26/2023 13:35	WG2030328
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/26/2023 13:35	WG2030328
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/26/2023 13:35	WG2030328
1,2-Dichloropropane	U		0.000149	0.00100	1	03/26/2023 13:35	WG2030328
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/26/2023 13:35	WG2030328
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/26/2023 13:35	WG2030328
Ethylbenzene	U		0.000137	0.00100	1	03/26/2023 13:35	WG2030328
Isopropylbenzene	U		0.000105	0.00100	1	03/26/2023 13:35	WG2030328
p-Isopropyltoluene	U		0.000120	0.00100	1	03/26/2023 13:35	WG2030328
2-Butanone (MEK)	U		0.00119	0.0100	1	03/26/2023 13:35	WG2030328
2-Hexanone	U		0.000787	0.0100	1	03/26/2023 13:35	WG2030328
Methylene Chloride	U		0.000430	0.00500	1	03/26/2023 13:35	WG2030328
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/26/2023 13:35	WG2030328
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/26/2023 13:35	WG2030328
Naphthalene	U		0.00100	0.00500	1	03/26/2023 13:35	WG2030328
n-Propylbenzene	U		0.0000993	0.00100	1	03/26/2023 13:35	WG2030328
Styrene	U		0.000118	0.00100	1	03/26/2023 13:35	WG2030328
tert-Butyl alcohol	U		0.00406	0.00500	1	03/26/2023 13:35	WG2030328
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/26/2023 13:35	WG2030328
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/26/2023 13:35	WG2030328
Tetrachloroethene	U		0.000300	0.00100	1	03/26/2023 13:35	WG2030328
Toluene	U		0.000278	0.00100	1	03/26/2023 13:35	WG2030328
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/26/2023 13:35	WG2030328
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/26/2023 13:35	WG2030328
Trichloroethene	U		0.000190	0.00100	1	03/26/2023 13:35	WG2030328
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/26/2023 13:35	WG2030328
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/26/2023 13:35	WG2030328
Vinyl chloride	U		0.000234	0.00100	1	03/26/2023 13:35	WG2030328
o-Xylene	U		0.000174	0.00100	1	03/26/2023 13:35	WG2030328
m&p-Xylene	U		0.000430	0.00200	1	03/26/2023 13:35	WG2030328
Xylenes, Total	U		0.000174	0.00300	1	03/26/2023 13:35	WG2030328
(S) Toluene-d8	*102*			*80.0-120*		*03/26/2023 13:35*	WG2030328
(S) 4-Bromofluorobenzene	*97.6*			*77.0-126*		*03/26/2023 13:35*	WG2030328
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*03/26/2023 13:35*	WG2030328

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	0.301	B	0.0247	0.100	1	03/29/2023 05:10	WG2030545
(S) o-Terphenyl	*122*			*31.0-160*		*03/29/2023 05:10*	WG2030545

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	7710		100	1	03/23/2023 22:05	WG2028851

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	2160		37.9	100	100	03/23/2023 03:30	WG2028210
Fluoride	2.89		0.640	1.50	10	03/22/2023 23:27	WG2028210
Nitrate	U		0.480	1.00	10	03/22/2023 23:27	WG2028210
Nitrite	U		0.420	1.00	10	03/22/2023 23:27	WG2028210
Sulfate	2410		59.4	500	100	03/23/2023 03:30	WG2028210

Sample Narrative:

L1597201-03 WG2028210: Dilution due to matrix.

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	03/23/2023 15:40	WG2028248
Arsenic,Dissolved	0.0181		0.000180	0.00200	1	03/25/2023 01:17	WG2028257
Barium	0.0112		0.000381	0.00200	1	03/23/2023 15:40	WG2028248
Barium,Dissolved	0.0115		0.000381	0.00200	1	03/25/2023 01:17	WG2028257
Calcium	548		0.0936	1.00	1	03/23/2023 15:40	WG2028248
Chromium	U		0.00124	0.00200	1	03/23/2023 15:40	WG2028248
Chromium,Dissolved	U		0.00124	0.00200	1	03/25/2023 01:17	WG2028257
Iron	2.87		0.0281	0.100	1	03/23/2023 15:40	WG2028248
Iron,Dissolved	2.66		0.0281	0.100	1	03/25/2023 01:17	WG2028257
Lead	U		0.000849	0.00200	1	03/23/2023 15:40	WG2028248
Lead,Dissolved	U		0.000849	0.00200	1	03/25/2023 01:17	WG2028257
Manganese	1.11		0.000704	0.00500	1	03/23/2023 15:40	WG2028248
Manganese,Dissolved	1.21		0.000704	0.00500	1	03/25/2023 01:17	WG2028257
Potassium	3.04		0.108	2.00	1	03/23/2023 15:40	WG2028248
Selenium	0.0140		0.000300	0.00200	1	03/23/2023 15:40	WG2028248
Selenium,Dissolved	0.00261		0.000300	0.00200	1	03/25/2023 01:17	WG2028257
Sodium	1290		1.88	10.0	5	03/23/2023 19:33	WG2028248

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	0.106	B	0.0314	0.100	1	03/24/2023 01:08	WG2028952
(S) a,a,a-Trifluorotoluene(FID)	*98.7*			*78.0-120*		*03/24/2023 01:08*	WG2028952

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	03/26/2023 13:55	WG2030328
Benzene	U		0.0000941	0.00100	1	03/26/2023 13:55	WG2030328
Bromodichloromethane	U		0.000136	0.00100	1	03/26/2023 13:55	WG2030328
Bromoform	U		0.000129	0.00100	1	03/26/2023 13:55	WG2030328
Bromomethane	U		0.000605	0.00500	1	03/26/2023 13:55	WG2030328
n-Butylbenzene	U		0.000157	0.00100	1	03/26/2023 13:55	WG2030328
sec-Butylbenzene	U		0.000125	0.00100	1	03/26/2023 13:55	WG2030328
Carbon disulfide	0.000201	B J	0.0000962	0.00100	1	03/26/2023 13:55	WG2030328
Carbon tetrachloride	U		0.000128	0.00100	1	03/26/2023 13:55	WG2030328

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	03/26/2023 13:55	WG2030328
Chlorodibromomethane	U		0.000140	0.00100	1	03/26/2023 13:55	WG2030328
Chloroethane	U		0.000192	0.00500	1	03/26/2023 13:55	WG2030328
Chloroform	U		0.000111	0.00500	1	03/26/2023 13:55	WG2030328
Chloromethane	U		0.000960	0.00250	1	03/26/2023 13:55	WG2030328
1,2-Dibromoethane	U		0.000126	0.00100	1	03/26/2023 13:55	WG2030328
1,1-Dichloroethane	U		0.000100	0.00100	1	03/26/2023 13:55	WG2030328
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/26/2023 13:55	WG2030328
1,1-Dichloroethene	U		0.000188	0.00100	1	03/26/2023 13:55	WG2030328
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/26/2023 13:55	WG2030328
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/26/2023 13:55	WG2030328
1,2-Dichloropropane	U		0.000149	0.00100	1	03/26/2023 13:55	WG2030328
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/26/2023 13:55	WG2030328
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/26/2023 13:55	WG2030328
Ethylbenzene	U		0.000137	0.00100	1	03/26/2023 13:55	WG2030328
Isopropylbenzene	U		0.000105	0.00100	1	03/26/2023 13:55	WG2030328
p-Isopropyltoluene	U		0.000120	0.00100	1	03/26/2023 13:55	WG2030328
2-Butanone (MEK)	U		0.00119	0.0100	1	03/26/2023 13:55	WG2030328
2-Hexanone	U		0.000787	0.0100	1	03/26/2023 13:55	WG2030328
Methylene Chloride	U		0.000430	0.00500	1	03/26/2023 13:55	WG2030328
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/26/2023 13:55	WG2030328
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/26/2023 13:55	WG2030328
Naphthalene	U		0.00100	0.00500	1	03/26/2023 13:55	WG2030328
n-Propylbenzene	U		0.0000993	0.00100	1	03/26/2023 13:55	WG2030328
Styrene	U		0.000118	0.00100	1	03/26/2023 13:55	WG2030328
tert-Butyl alcohol	U		0.00406	0.00500	1	03/26/2023 13:55	WG2030328
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/26/2023 13:55	WG2030328
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/26/2023 13:55	WG2030328
Tetrachloroethene	U		0.000300	0.00100	1	03/26/2023 13:55	WG2030328
Toluene	U		0.000278	0.00100	1	03/26/2023 13:55	WG2030328
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/26/2023 13:55	WG2030328
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/26/2023 13:55	WG2030328
Trichloroethene	U		0.000190	0.00100	1	03/26/2023 13:55	WG2030328
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/26/2023 13:55	WG2030328
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/26/2023 13:55	WG2030328
Vinyl chloride	U		0.000234	0.00100	1	03/26/2023 13:55	WG2030328
o-Xylene	U		0.000174	0.00100	1	03/26/2023 13:55	WG2030328
m&p-Xylene	U		0.000430	0.00200	1	03/26/2023 13:55	WG2030328
Xylenes, Total	U		0.000174	0.00300	1	03/26/2023 13:55	WG2030328
(S) Toluene-d8	*103*			*80.0-120*		*03/26/2023 13:55*	WG2030328
(S) 4-Bromofluorobenzene	*96.8*			*77.0-126*		*03/26/2023 13:55*	WG2030328
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*03/26/2023 13:55*	WG2030328

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	0.274	B	0.0247	0.100	1	03/29/2023 05:30	WG2030545
(S) o-Terphenyl	*117*			*31.0-160*		*03/29/2023 05:30*	WG2030545

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4810		100	1	03/23/2023 22:05	WG2028851

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1160		3.79	10.0	10	03/23/2023 00:02	WG2028372
Fluoride	5.77		0.640	1.50	10	03/23/2023 00:02	WG2028372
Nitrate	0.951	J	0.480	1.00	10	03/23/2023 00:02	WG2028372
Nitrite	U		0.420	1.00	10	03/23/2023 00:02	WG2028372
Sulfate	2260		59.4	500	100	03/23/2023 06:29	WG2028372

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0283		0.000180	0.00200	1	03/23/2023 15:43	WG2028248
Arsenic,Dissolved	0.0241		0.000180	0.00200	1	03/25/2023 01:20	WG2028257
Barium	0.0116		0.000381	0.00200	1	03/23/2023 15:43	WG2028248
Barium,Dissolved	0.0152		0.000381	0.00200	1	03/25/2023 01:20	WG2028257
Calcium	605		0.0936	1.00	1	03/23/2023 15:43	WG2028248
Chromium	U		0.00124	0.00200	1	03/23/2023 15:43	WG2028248
Chromium,Dissolved	U		0.00124	0.00200	1	03/25/2023 01:20	WG2028257
Iron	0.224		0.0281	0.100	1	03/23/2023 15:43	WG2028248
Iron,Dissolved	0.0902	J	0.0281	0.100	1	03/25/2023 01:20	WG2028257
Lead	U		0.000849	0.00200	1	03/23/2023 15:43	WG2028248
Lead,Dissolved	U		0.000849	0.00200	1	03/25/2023 01:20	WG2028257
Manganese	1.65		0.000704	0.00500	1	03/23/2023 15:43	WG2028248
Manganese,Dissolved	1.97		0.000704	0.00500	1	03/25/2023 01:20	WG2028257
Potassium	3.02		0.108	2.00	1	03/23/2023 15:43	WG2028248
Selenium	0.00629		0.000300	0.00200	1	03/23/2023 15:43	WG2028248
Selenium,Dissolved	0.00513		0.000300	0.00200	1	03/25/2023 01:20	WG2028257
Sodium	676		0.376	2.00	1	03/23/2023 15:43	WG2028248

Sample Narrative:

L1597201-04 WG2028248: Dilution due to matrix.

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	0.0790	B J	0.0314	0.100	1	03/24/2023 01:30	WG2028952
(S) a,a,a-Trifluorotoluene(FID)	*97.9*			*78.0-120*		*03/24/2023 01:30*	WG2028952

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	03/26/2023 14:15	WG2030328
Benzene	U		0.0000941	0.00100	1	03/26/2023 14:15	WG2030328
Bromodichloromethane	U		0.000136	0.00100	1	03/26/2023 14:15	WG2030328
Bromoform	U		0.000129	0.00100	1	03/26/2023 14:15	WG2030328
Bromomethane	U		0.000605	0.00500	1	03/26/2023 14:15	WG2030328
n-Butylbenzene	U		0.000157	0.00100	1	03/26/2023 14:15	WG2030328
sec-Butylbenzene	U		0.000125	0.00100	1	03/26/2023 14:15	WG2030328
Carbon disulfide	0.000151	B J	0.0000962	0.00100	1	03/26/2023 14:15	WG2030328
Carbon tetrachloride	U		0.000128	0.00100	1	03/26/2023 14:15	WG2030328

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	03/26/2023 14:15	WG2030328
Chlorodibromomethane	U		0.000140	0.00100	1	03/26/2023 14:15	WG2030328
Chloroethane	U		0.000192	0.00500	1	03/26/2023 14:15	WG2030328
Chloroform	U		0.000111	0.00500	1	03/26/2023 14:15	WG2030328
Chloromethane	U		0.000960	0.00250	1	03/26/2023 14:15	WG2030328
1,2-Dibromoethane	U		0.000126	0.00100	1	03/26/2023 14:15	WG2030328
1,1-Dichloroethane	U		0.000100	0.00100	1	03/26/2023 14:15	WG2030328
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/26/2023 14:15	WG2030328
1,1-Dichloroethene	U		0.000188	0.00100	1	03/26/2023 14:15	WG2030328
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/26/2023 14:15	WG2030328
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/26/2023 14:15	WG2030328
1,2-Dichloropropane	U		0.000149	0.00100	1	03/26/2023 14:15	WG2030328
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/26/2023 14:15	WG2030328
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/26/2023 14:15	WG2030328
Ethylbenzene	U		0.000137	0.00100	1	03/26/2023 14:15	WG2030328
Isopropylbenzene	U		0.000105	0.00100	1	03/26/2023 14:15	WG2030328
p-Isopropyltoluene	U		0.000120	0.00100	1	03/26/2023 14:15	WG2030328
2-Butanone (MEK)	U		0.00119	0.0100	1	03/26/2023 14:15	WG2030328
2-Hexanone	U		0.000787	0.0100	1	03/26/2023 14:15	WG2030328
Methylene Chloride	U		0.000430	0.00500	1	03/26/2023 14:15	WG2030328
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/26/2023 14:15	WG2030328
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/26/2023 14:15	WG2030328
Naphthalene	U		0.00100	0.00500	1	03/26/2023 14:15	WG2030328
n-Propylbenzene	U		0.0000993	0.00100	1	03/26/2023 14:15	WG2030328
Styrene	U		0.000118	0.00100	1	03/26/2023 14:15	WG2030328
tert-Butyl alcohol	0.0100		0.00406	0.00500	1	03/26/2023 14:15	WG2030328
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/26/2023 14:15	WG2030328
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/26/2023 14:15	WG2030328
Tetrachloroethene	U		0.000300	0.00100	1	03/26/2023 14:15	WG2030328
Toluene	U		0.000278	0.00100	1	03/26/2023 14:15	WG2030328
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/26/2023 14:15	WG2030328
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/26/2023 14:15	WG2030328
Trichloroethene	U		0.000190	0.00100	1	03/26/2023 14:15	WG2030328
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/26/2023 14:15	WG2030328
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/26/2023 14:15	WG2030328
Vinyl chloride	U		0.000234	0.00100	1	03/26/2023 14:15	WG2030328
o-Xylene	U		0.000174	0.00100	1	03/26/2023 14:15	WG2030328
m&p-Xylene	U		0.000430	0.00200	1	03/26/2023 14:15	WG2030328
Xylenes, Total	U		0.000174	0.00300	1	03/26/2023 14:15	WG2030328
(S) Toluene-d8	*105*			*80.0-120*		*03/26/2023 14:15*	WG2030328
(S) 4-Bromofluorobenzene	*99.5*			*77.0-126*		*03/26/2023 14:15*	WG2030328
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*03/26/2023 14:15*	WG2030328

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	0.706		0.0247	0.100	1	03/29/2023 05:51	WG2030545
(S) o-Terphenyl	*121*			*31.0-160*		*03/29/2023 05:51*	WG2030545

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	03/23/2023 11:04	WG2027707
(S) Nitrobenzene-d5	*40.9*			*10.0-120*		*03/23/2023 11:04*	WG2027707

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	7010		100	1	03/23/2023 22:05	WG2028851

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1650		3.79	10.0	10	03/23/2023 00:18	WG2028372
Fluoride	3.11		0.640	1.50	10	03/23/2023 00:18	WG2028372
Nitrate	1.05		0.480	1.00	10	03/23/2023 00:18	WG2028372
Nitrite	U		0.420	1.00	10	03/23/2023 00:18	WG2028372
Sulfate	2210		59.4	500	100	03/23/2023 06:45	WG2028372

Sample Narrative:

L1597201-05 WG2028372: Dilution due to matrix.

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	03/23/2023 15:47	WG2028248
Arsenic,Dissolved	0.00211		0.000180	0.00200	1	03/25/2023 01:24	WG2028257
Barium	0.0315		0.000381	0.00200	1	03/23/2023 15:47	WG2028248
Barium,Dissolved	0.0332		0.000381	0.00200	1	03/25/2023 01:24	WG2028257
Calcium	508		0.0936	1.00	1	03/23/2023 15:47	WG2028248
Chromium	U		0.00124	0.00200	1	03/23/2023 15:47	WG2028248
Chromium,Dissolved	U		0.00124	0.00200	1	03/25/2023 01:24	WG2028257
Iron	2.43		0.0281	0.100	1	03/23/2023 15:47	WG2028248
Iron,Dissolved	0.697		0.0281	0.100	1	03/25/2023 01:24	WG2028257
Lead	U		0.000849	0.00200	1	03/23/2023 15:47	WG2028248
Lead,Dissolved	U		0.000849	0.00200	1	03/25/2023 01:24	WG2028257
Manganese	1.21		0.000704	0.00500	1	03/23/2023 15:47	WG2028248
Manganese,Dissolved	1.41		0.000704	0.00500	1	03/25/2023 01:24	WG2028257
Potassium	4.06		0.108	2.00	1	03/23/2023 15:47	WG2028248
Selenium	U		0.000300	0.00200	1	03/23/2023 15:47	WG2028248
Selenium,Dissolved	U		0.000300	0.00200	1	03/25/2023 01:24	WG2028257
Sodium	1040		1.88	10.0	5	03/23/2023 19:37	WG2028248

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	0.0871	B J	0.0314	0.100	1	03/24/2023 01:52	WG2028952
(S) a,a,a-Trifluorotoluene(FID)	*98.3*			*78.0-120*		*03/24/2023 01:52*	WG2028952

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	03/26/2023 14:35	WG2030328
Benzene	U		0.0000941	0.00100	1	03/26/2023 14:35	WG2030328
Bromodichloromethane	U		0.000136	0.00100	1	03/26/2023 14:35	WG2030328
Bromoform	U		0.000129	0.00100	1	03/26/2023 14:35	WG2030328
Bromomethane	U		0.000605	0.00500	1	03/26/2023 14:35	WG2030328
n-Butylbenzene	U		0.000157	0.00100	1	03/26/2023 14:35	WG2030328
sec-Butylbenzene	U		0.000125	0.00100	1	03/26/2023 14:35	WG2030328
Carbon disulfide	0.000141	B J	0.0000962	0.00100	1	03/26/2023 14:35	WG2030328
Carbon tetrachloride	U		0.000128	0.00100	1	03/26/2023 14:35	WG2030328

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	03/26/2023 14:35	WG2030328
Chlorodibromomethane	U		0.000140	0.00100	1	03/26/2023 14:35	WG2030328
Chloroethane	U		0.000192	0.00500	1	03/26/2023 14:35	WG2030328
Chloroform	U		0.000111	0.00500	1	03/26/2023 14:35	WG2030328
Chloromethane	U		0.000960	0.00250	1	03/26/2023 14:35	WG2030328
1,2-Dibromoethane	U		0.000126	0.00100	1	03/26/2023 14:35	WG2030328
1,1-Dichloroethane	U		0.000100	0.00100	1	03/26/2023 14:35	WG2030328
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/26/2023 14:35	WG2030328
1,1-Dichloroethene	U		0.000188	0.00100	1	03/26/2023 14:35	WG2030328
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/26/2023 14:35	WG2030328
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/26/2023 14:35	WG2030328
1,2-Dichloropropane	U		0.000149	0.00100	1	03/26/2023 14:35	WG2030328
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/26/2023 14:35	WG2030328
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/26/2023 14:35	WG2030328
Ethylbenzene	U		0.000137	0.00100	1	03/26/2023 14:35	WG2030328
Isopropylbenzene	U		0.000105	0.00100	1	03/26/2023 14:35	WG2030328
p-Isopropyltoluene	U		0.000120	0.00100	1	03/26/2023 14:35	WG2030328
2-Butanone (MEK)	U		0.00119	0.0100	1	03/26/2023 14:35	WG2030328
2-Hexanone	U		0.000787	0.0100	1	03/26/2023 14:35	WG2030328
Methylene Chloride	U		0.000430	0.00500	1	03/26/2023 14:35	WG2030328
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/26/2023 14:35	WG2030328
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/26/2023 14:35	WG2030328
Naphthalene	U		0.00100	0.00500	1	03/26/2023 14:35	WG2030328
n-Propylbenzene	U		0.0000993	0.00100	1	03/26/2023 14:35	WG2030328
Styrene	U		0.000118	0.00100	1	03/26/2023 14:35	WG2030328
tert-Butyl alcohol	U		0.00406	0.00500	1	03/26/2023 14:35	WG2030328
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/26/2023 14:35	WG2030328
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/26/2023 14:35	WG2030328
Tetrachloroethene	U		0.000300	0.00100	1	03/26/2023 14:35	WG2030328
Toluene	U		0.000278	0.00100	1	03/26/2023 14:35	WG2030328
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/26/2023 14:35	WG2030328
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/26/2023 14:35	WG2030328
Trichloroethene	U		0.000190	0.00100	1	03/26/2023 14:35	WG2030328
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/26/2023 14:35	WG2030328
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/26/2023 14:35	WG2030328
Vinyl chloride	U		0.000234	0.00100	1	03/26/2023 14:35	WG2030328
o-Xylene	U		0.000174	0.00100	1	03/26/2023 14:35	WG2030328
m&p-Xylene	U		0.000430	0.00200	1	03/26/2023 14:35	WG2030328
Xylenes, Total	U		0.000174	0.00300	1	03/26/2023 14:35	WG2030328
(S) Toluene-d8	*104*			*80.0-120*		*03/26/2023 14:35*	WG2030328
(S) 4-Bromofluorobenzene	*101*			*77.0-126*		*03/26/2023 14:35*	WG2030328
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*03/26/2023 14:35*	WG2030328

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	0.282	B	0.0247	0.100	1	03/29/2023 16:27	WG2030545
(S) o-Terphenyl	*132*			*31.0-160*		*03/29/2023 16:27*	WG2030545

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	0.0000966	J	0.0000447	0.000400	1	03/23/2023 11:23	WG2027707
(S) Nitrobenzene-d5	*47.2*			*10.0-120*		*03/23/2023 11:23*	WG2027707

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	15300		200	1	03/23/2023 22:05	WG2028851

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	4210		37.9	100	100	03/23/2023 07:01	WG2028372
Fluoride	2.70		0.640	1.50	10	03/23/2023 00:34	WG2028372
Nitrate	0.750	J	0.480	1.00	10	03/23/2023 00:34	WG2028372
Nitrite	U		0.420	1.00	10	03/23/2023 00:34	WG2028372
Sulfate	4780		59.4	500	100	03/23/2023 07:01	WG2028372

Sample Narrative:

L1597201-06 WG2028372: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00664		0.000180	0.00200	1	03/23/2023 20:49	WG2028248
Arsenic,Dissolved	0.00613		0.000180	0.00200	1	03/25/2023 01:27	WG2028257
Barium	0.0191		0.000381	0.00200	1	03/23/2023 20:49	WG2028248
Barium,Dissolved	0.0194		0.000381	0.00200	1	03/25/2023 01:27	WG2028257
Calcium	624		0.0936	1.00	1	03/23/2023 20:49	WG2028248
Chromium	U		0.00124	0.00200	1	03/23/2023 20:49	WG2028248
Chromium,Dissolved	U		0.00124	0.00200	1	03/25/2023 01:27	WG2028257
Iron	1.29		0.0281	0.100	1	03/23/2023 20:49	WG2028248
Iron,Dissolved	0.972		0.0281	0.100	1	03/25/2023 01:27	WG2028257
Lead	U		0.000849	0.00200	1	03/23/2023 20:49	WG2028248
Lead,Dissolved	U		0.00424	0.0100	5	03/25/2023 02:19	WG2028257
Manganese	0.557		0.000704	0.00500	1	03/23/2023 20:49	WG2028248
Manganese,Dissolved	0.606		0.000704	0.00500	1	03/25/2023 01:27	WG2028257
Potassium	4.22		0.108	2.00	1	03/23/2023 20:49	WG2028248
Selenium	0.00490		0.000300	0.00200	1	03/23/2023 20:49	WG2028248
Selenium,Dissolved	0.00541		0.000300	0.00200	1	03/25/2023 01:27	WG2028257
Sodium	3110		3.76	20.0	10	03/23/2023 19:40	WG2028248

Sample Narrative:

L1597201-06 WG2028257: Dilution due to matrix.

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	0.115	B	0.0314	0.100	1	03/24/2023 02:14	WG2028952
(S) a,a,a-Trifluorotoluene(FID)	*97.9*			*78.0-120*		*03/24/2023 02:14*	WG2028952

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	03/26/2023 14:55	WG2030328
Benzene	U		0.0000941	0.00100	1	03/26/2023 14:55	WG2030328
Bromodichloromethane	U		0.000136	0.00100	1	03/26/2023 14:55	WG2030328
Bromoform	U		0.000129	0.00100	1	03/26/2023 14:55	WG2030328
Bromomethane	U		0.000605	0.00500	1	03/26/2023 14:55	WG2030328
n-Butylbenzene	U		0.000157	0.00100	1	03/26/2023 14:55	WG2030328

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	U		0.000125	0.00100	1	03/26/2023 14:55	WG2030328
Carbon disulfide	0.000204	B J	0.0000962	0.00100	1	03/26/2023 14:55	WG2030328
Carbon tetrachloride	U		0.000128	0.00100	1	03/26/2023 14:55	WG2030328
Chlorobenzene	U		0.000116	0.00100	1	03/26/2023 14:55	WG2030328
Chlorodibromomethane	U		0.000140	0.00100	1	03/26/2023 14:55	WG2030328
Chloroethane	U		0.000192	0.00500	1	03/26/2023 14:55	WG2030328
Chloroform	U		0.000111	0.00500	1	03/26/2023 14:55	WG2030328
Chloromethane	U		0.000960	0.00250	1	03/26/2023 14:55	WG2030328
1,2-Dibromoethane	U		0.000126	0.00100	1	03/26/2023 14:55	WG2030328
1,1-Dichloroethane	U		0.000100	0.00100	1	03/26/2023 14:55	WG2030328
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/26/2023 14:55	WG2030328
1,1-Dichloroethene	U		0.000188	0.00100	1	03/26/2023 14:55	WG2030328
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/26/2023 14:55	WG2030328
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/26/2023 14:55	WG2030328
1,2-Dichloropropane	U		0.000149	0.00100	1	03/26/2023 14:55	WG2030328
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/26/2023 14:55	WG2030328
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/26/2023 14:55	WG2030328
Ethylbenzene	U		0.000137	0.00100	1	03/26/2023 14:55	WG2030328
Isopropylbenzene	U		0.000105	0.00100	1	03/26/2023 14:55	WG2030328
p-Isopropyltoluene	U		0.000120	0.00100	1	03/26/2023 14:55	WG2030328
2-Butanone (MEK)	U		0.00119	0.0100	1	03/26/2023 14:55	WG2030328
2-Hexanone	U		0.000787	0.0100	1	03/26/2023 14:55	WG2030328
Methylene Chloride	U		0.000430	0.00500	1	03/26/2023 14:55	WG2030328
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/26/2023 14:55	WG2030328
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/26/2023 14:55	WG2030328
Naphthalene	U		0.00100	0.00500	1	03/26/2023 14:55	WG2030328
n-Propylbenzene	U		0.0000993	0.00100	1	03/26/2023 14:55	WG2030328
Styrene	U		0.000118	0.00100	1	03/26/2023 14:55	WG2030328
tert-Butyl alcohol	U		0.00406	0.00500	1	03/26/2023 14:55	WG2030328
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/26/2023 14:55	WG2030328
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/26/2023 14:55	WG2030328
Tetrachloroethene	U		0.000300	0.00100	1	03/26/2023 14:55	WG2030328
Toluene	U		0.000278	0.00100	1	03/26/2023 14:55	WG2030328
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/26/2023 14:55	WG2030328
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/26/2023 14:55	WG2030328
Trichloroethene	U		0.000190	0.00100	1	03/26/2023 14:55	WG2030328
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/26/2023 14:55	WG2030328
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/26/2023 14:55	WG2030328
Vinyl chloride	U		0.000234	0.00100	1	03/26/2023 14:55	WG2030328
o-Xylene	U		0.000174	0.00100	1	03/26/2023 14:55	WG2030328
m&p-Xylene	U		0.000430	0.00200	1	03/26/2023 14:55	WG2030328
Xylenes, Total	U		0.000174	0.00300	1	03/26/2023 14:55	WG2030328
(S) Toluene-d8	*104*			*80.0-120*		*03/26/2023 14:55*	WG2030328
(S) 4-Bromofluorobenzene	*96.7*			*77.0-126*		*03/26/2023 14:55*	WG2030328
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*03/26/2023 14:55*	WG2030328

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	8.94		0.123	0.500	5	03/29/2023 22:23	WG2030545
(S) o-Terphenyl	*165*	J1		*31.0-160*		*03/29/2023 22:23*	WG2030545

Sample Narrative:

L1597201-06 WG2030545: Dilution and surrogate failure due to matrix interference.

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	8740		200	1	03/23/2023 22:05	WG2028851

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	2920		37.9	100	100	03/23/2023 15:50	WG2028377
Fluoride	5.68	B	0.640	1.50	10	03/23/2023 10:54	WG2028377
Nitrate	1.93		0.480	1.00	10	03/23/2023 10:54	WG2028377
Nitrite	1.47		0.420	1.00	10	03/23/2023 10:54	WG2028377
Sulfate	2530		59.4	500	100	03/23/2023 15:50	WG2028377

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00428		0.000180	0.00200	1	03/23/2023 20:52	WG2028248
Arsenic,Dissolved	0.00448		0.000180	0.00200	1	03/25/2023 01:30	WG2028257
Barium	0.00985		0.000381	0.00200	1	03/23/2023 20:52	WG2028248
Barium,Dissolved	0.00995		0.000381	0.00200	1	03/25/2023 01:30	WG2028257
Calcium	723		0.0936	1.00	1	03/23/2023 20:52	WG2028248
Chromium	0.00125	J	0.00124	0.00200	1	03/23/2023 20:52	WG2028248
Chromium,Dissolved	U		0.00124	0.00200	1	03/25/2023 01:30	WG2028257
Iron	0.286		0.0281	0.100	1	03/23/2023 20:52	WG2028248
Iron,Dissolved	0.368		0.0281	0.100	1	03/25/2023 01:30	WG2028257
Lead	U		0.000849	0.00200	1	03/23/2023 20:52	WG2028248
Lead,Dissolved	U		0.000849	0.00200	1	03/25/2023 01:30	WG2028257
Manganese	0.536		0.000704	0.00500	1	03/23/2023 20:52	WG2028248
Manganese,Dissolved	0.747		0.000704	0.00500	1	03/25/2023 01:30	WG2028257
Potassium	6.32		0.108	2.00	1	03/23/2023 20:52	WG2028248
Selenium	0.00221		0.000300	0.00200	1	03/23/2023 20:52	WG2028248
Selenium,Dissolved	0.00232		0.000300	0.00200	1	03/25/2023 01:30	WG2028257
Sodium	1590		1.88	10.0	5	03/23/2023 19:43	WG2028248

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	0.149	B	0.0314	0.100	1	03/24/2023 02:36	WG2028952
(S) a,a,a-Trifluorotoluene(FID)	*97.9*			*78.0-120*		*03/24/2023 02:36*	WG2028952

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	03/26/2023 15:15	WG2030328
Benzene	U		0.0000941	0.00100	1	03/26/2023 15:15	WG2030328
Bromodichloromethane	U		0.000136	0.00100	1	03/26/2023 15:15	WG2030328
Bromoform	U		0.000129	0.00100	1	03/26/2023 15:15	WG2030328
Bromomethane	U		0.000605	0.00500	1	03/26/2023 15:15	WG2030328
n-Butylbenzene	U		0.000157	0.00100	1	03/26/2023 15:15	WG2030328
sec-Butylbenzene	U		0.000125	0.00100	1	03/26/2023 15:15	WG2030328
Carbon disulfide	U		0.0000962	0.00100	1	03/26/2023 15:15	WG2030328
Carbon tetrachloride	U		0.000128	0.00100	1	03/26/2023 15:15	WG2030328
Chlorobenzene	U		0.000116	0.00100	1	03/26/2023 15:15	WG2030328
Chlorodibromomethane	U		0.000140	0.00100	1	03/26/2023 15:15	WG2030328
Chloroethane	U		0.000192	0.00500	1	03/26/2023 15:15	WG2030328

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloroform	U		0.000111	0.00500	1	03/26/2023 15:15	WG2030328
Chloromethane	U		0.000960	0.00250	1	03/26/2023 15:15	WG2030328
1,2-Dibromoethane	U		0.000126	0.00100	1	03/26/2023 15:15	WG2030328
1,1-Dichloroethane	U		0.000100	0.00100	1	03/26/2023 15:15	WG2030328
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/26/2023 15:15	WG2030328
1,1-Dichloroethene	U		0.000188	0.00100	1	03/26/2023 15:15	WG2030328
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/26/2023 15:15	WG2030328
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/26/2023 15:15	WG2030328
1,2-Dichloropropane	U		0.000149	0.00100	1	03/26/2023 15:15	WG2030328
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/26/2023 15:15	WG2030328
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/26/2023 15:15	WG2030328
Ethylbenzene	U		0.000137	0.00100	1	03/26/2023 15:15	WG2030328
Isopropylbenzene	U		0.000105	0.00100	1	03/26/2023 15:15	WG2030328
p-Isopropyltoluene	U		0.000120	0.00100	1	03/26/2023 15:15	WG2030328
2-Butanone (MEK)	U		0.00119	0.0100	1	03/26/2023 15:15	WG2030328
2-Hexanone	U		0.000787	0.0100	1	03/26/2023 15:15	WG2030328
Methylene Chloride	U		0.000430	0.00500	1	03/26/2023 15:15	WG2030328
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/26/2023 15:15	WG2030328
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/26/2023 15:15	WG2030328
Naphthalene	U		0.00100	0.00500	1	03/26/2023 15:15	WG2030328
n-Propylbenzene	U		0.0000993	0.00100	1	03/26/2023 15:15	WG2030328
Styrene	U		0.000118	0.00100	1	03/26/2023 15:15	WG2030328
tert-Butyl alcohol	U		0.00406	0.00500	1	03/26/2023 15:15	WG2030328
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/26/2023 15:15	WG2030328
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/26/2023 15:15	WG2030328
Tetrachloroethene	U		0.000300	0.00100	1	03/26/2023 15:15	WG2030328
Toluene	U		0.000278	0.00100	1	03/26/2023 15:15	WG2030328
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/26/2023 15:15	WG2030328
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/26/2023 15:15	WG2030328
Trichloroethene	U		0.000190	0.00100	1	03/26/2023 15:15	WG2030328
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/26/2023 15:15	WG2030328
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/26/2023 15:15	WG2030328
Vinyl chloride	U		0.000234	0.00100	1	03/26/2023 15:15	WG2030328
o-Xylene	U		0.000174	0.00100	1	03/26/2023 15:15	WG2030328
m&p-Xylene	U		0.000430	0.00200	1	03/26/2023 15:15	WG2030328
Xylenes, Total	U		0.000174	0.00300	1	03/26/2023 15:15	WG2030328
(S) Toluene-d8	*107*			*80.0-120*		*03/26/2023 15:15*	WG2030328
(S) 4-Bromofluorobenzene	*99.0*			*77.0-126*		*03/26/2023 15:15*	WG2030328
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*03/26/2023 15:15*	WG2030328

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	B	0.0247	0.100	1	03/29/2023 15:26	WG2030545
(S) o-Terphenyl	*121*			*31.0-160*		*03/29/2023 15:26*	WG2030545

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	12000		200	1	03/23/2023 22:05	WG2028851

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	4510		37.9	100	100	03/23/2023 16:03	WG2028377
Fluoride	2.81	B	0.640	1.50	10	03/23/2023 13:22	WG2028377
Nitrate	0.951	J	0.480	1.00	10	03/23/2023 13:22	WG2028377
Nitrite	2.00		0.420	1.00	10	03/23/2023 13:22	WG2028377
Sulfate	2760		59.4	500	100	03/23/2023 16:03	WG2028377

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00659		0.000180	0.00200	1	03/23/2023 20:55	WG2028248
Arsenic,Dissolved	0.00592		0.000180	0.00200	1	03/25/2023 01:34	WG2028257
Barium	0.0225		0.000381	0.00200	1	03/23/2023 20:55	WG2028248
Barium,Dissolved	0.0230		0.000381	0.00200	1	03/25/2023 01:34	WG2028257
Calcium	913		0.0936	1.00	1	03/23/2023 20:55	WG2028248
Chromium	U		0.00124	0.00200	1	03/23/2023 20:55	WG2028248
Chromium,Dissolved	U		0.00124	0.00200	1	03/25/2023 01:34	WG2028257
Iron	1.52		0.0281	0.100	1	03/23/2023 20:55	WG2028248
Iron,Dissolved	0.715		0.0281	0.100	1	03/25/2023 01:34	WG2028257
Lead	U		0.000849	0.00200	1	03/23/2023 20:55	WG2028248
Lead,Dissolved	U		0.00424	0.0100	5	03/25/2023 02:22	WG2028257
Manganese	1.91		0.000704	0.00500	1	03/23/2023 20:55	WG2028248
Manganese,Dissolved	2.30		0.000704	0.00500	1	03/25/2023 01:34	WG2028257
Potassium	14.6		0.108	2.00	1	03/23/2023 20:55	WG2028248
Selenium	0.000944	J	0.000300	0.00200	1	03/23/2023 20:55	WG2028248
Selenium,Dissolved	0.000795	J	0.000300	0.00200	1	03/25/2023 01:34	WG2028257
Sodium	2460		3.76	20.0	10	03/23/2023 19:46	WG2028248

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	0.294	B	0.0314	0.100	1	03/24/2023 02:58	WG2028952
(S) a,a,a-Trifluorotoluene(FID)	*97.8*			*78.0-120*		*03/24/2023 02:58*	WG2028952

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	03/26/2023 15:35	WG2030328
Benzene	U		0.0000941	0.00100	1	03/26/2023 15:35	WG2030328
Bromodichloromethane	U		0.000136	0.00100	1	03/26/2023 15:35	WG2030328
Bromoform	U		0.000129	0.00100	1	03/26/2023 15:35	WG2030328
Bromomethane	U		0.000605	0.00500	1	03/26/2023 15:35	WG2030328
n-Butylbenzene	U		0.000157	0.00100	1	03/26/2023 15:35	WG2030328
sec-Butylbenzene	U		0.000125	0.00100	1	03/26/2023 15:35	WG2030328
Carbon disulfide	0.000203	B J	0.0000962	0.00100	1	03/26/2023 15:35	WG2030328
Carbon tetrachloride	U		0.000128	0.00100	1	03/26/2023 15:35	WG2030328
Chlorobenzene	U		0.000116	0.00100	1	03/26/2023 15:35	WG2030328
Chlorodibromomethane	U		0.000140	0.00100	1	03/26/2023 15:35	WG2030328
Chloroethane	U		0.000192	0.00500	1	03/26/2023 15:35	WG2030328

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloroform	U		0.000111	0.00500	1	03/26/2023 15:35	WG2030328
Chloromethane	U		0.000960	0.00250	1	03/26/2023 15:35	WG2030328
1,2-Dibromoethane	U		0.000126	0.00100	1	03/26/2023 15:35	WG2030328
1,1-Dichloroethane	U		0.000100	0.00100	1	03/26/2023 15:35	WG2030328
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/26/2023 15:35	WG2030328
1,1-Dichloroethene	U		0.000188	0.00100	1	03/26/2023 15:35	WG2030328
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/26/2023 15:35	WG2030328
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/26/2023 15:35	WG2030328
1,2-Dichloropropane	U		0.000149	0.00100	1	03/26/2023 15:35	WG2030328
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/26/2023 15:35	WG2030328
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/26/2023 15:35	WG2030328
Ethylbenzene	U		0.000137	0.00100	1	03/26/2023 15:35	WG2030328
Isopropylbenzene	U		0.000105	0.00100	1	03/26/2023 15:35	WG2030328
p-Isopropyltoluene	U		0.000120	0.00100	1	03/26/2023 15:35	WG2030328
2-Butanone (MEK)	U		0.00119	0.0100	1	03/26/2023 15:35	WG2030328
2-Hexanone	U		0.000787	0.0100	1	03/26/2023 15:35	WG2030328
Methylene Chloride	U		0.000430	0.00500	1	03/26/2023 15:35	WG2030328
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/26/2023 15:35	WG2030328
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/26/2023 15:35	WG2030328
Naphthalene	U		0.00100	0.00500	1	03/26/2023 15:35	WG2030328
n-Propylbenzene	U		0.0000993	0.00100	1	03/26/2023 15:35	WG2030328
Styrene	U		0.000118	0.00100	1	03/26/2023 15:35	WG2030328
tert-Butyl alcohol	U		0.00406	0.00500	1	03/26/2023 15:35	WG2030328
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/26/2023 15:35	WG2030328
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/26/2023 15:35	WG2030328
Tetrachloroethene	U		0.000300	0.00100	1	03/26/2023 15:35	WG2030328
Toluene	U		0.000278	0.00100	1	03/26/2023 15:35	WG2030328
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/26/2023 15:35	WG2030328
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/26/2023 15:35	WG2030328
Trichloroethene	U		0.000190	0.00100	1	03/26/2023 15:35	WG2030328
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/26/2023 15:35	WG2030328
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/26/2023 15:35	WG2030328
Vinyl chloride	U		0.000234	0.00100	1	03/26/2023 15:35	WG2030328
o-Xylene	U		0.000174	0.00100	1	03/26/2023 15:35	WG2030328
m&p-Xylene	U		0.000430	0.00200	1	03/26/2023 15:35	WG2030328
Xylenes, Total	U		0.000174	0.00300	1	03/26/2023 15:35	WG2030328
(S) Toluene-d8	*108*			*80.0-120*		*03/26/2023 15:35*	WG2030328
(S) 4-Bromofluorobenzene	*97.3*			*77.0-126*		*03/26/2023 15:35*	WG2030328
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*03/26/2023 15:35*	WG2030328

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	0.0767	B J	0.0247	0.100	1	03/29/2023 07:12	WG2030545
(S) o-Terphenyl	*118*			*31.0-160*		*03/29/2023 07:12*	WG2030545

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	0.000176	J	0.0000447	0.000400	1	03/23/2023 11:42	WG2027707
(S) Nitrobenzene-d5	*38.8*			*10.0-120*		*03/23/2023 11:42*	WG2027707

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	10800		200	1	03/23/2023 22:05	WG2028851

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	2600		37.9	100	100	03/23/2023 17:28	WG2028377
Fluoride	3.11	B	0.640	1.50	10	03/23/2023 14:16	WG2028377
Nitrate	0.792	J	0.480	1.00	10	03/23/2023 14:16	WG2028377
Nitrite	1.50		0.420	1.00	10	03/23/2023 14:16	WG2028377
Sulfate	3720		59.4	500	100	03/23/2023 17:28	WG2028377

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0478		0.000180	0.00200	1	03/23/2023 20:59	WG2028248
Arsenic,Dissolved	0.0384		0.000180	0.00200	1	03/25/2023 01:37	WG2028257
Barium	0.0133		0.000381	0.00200	1	03/23/2023 20:59	WG2028248
Barium,Dissolved	0.0128		0.000381	0.00200	1	03/25/2023 01:37	WG2028257
Calcium	621		0.0936	1.00	1	03/23/2023 20:59	WG2028248
Chromium	U		0.00124	0.00200	1	03/23/2023 20:59	WG2028248
Chromium,Dissolved	U		0.00124	0.00200	1	03/25/2023 01:37	WG2028257
Iron	3.45		0.0281	0.100	1	03/23/2023 20:59	WG2028248
Iron,Dissolved	0.113		0.0281	0.100	1	03/25/2023 01:37	WG2028257
Lead	U		0.000849	0.00200	1	03/23/2023 20:59	WG2028248
Lead,Dissolved	U		0.00424	0.0100	5	03/25/2023 02:36	WG2028257
Manganese	2.43		0.000704	0.00500	1	03/23/2023 20:59	WG2028248
Manganese,Dissolved	2.80		0.000704	0.00500	1	03/25/2023 01:37	WG2028257
Potassium	5.46		0.108	2.00	1	03/23/2023 20:59	WG2028248
Selenium	0.00140	J	0.000300	0.00200	1	03/23/2023 20:59	WG2028248
Selenium,Dissolved	0.00126	J	0.000300	0.00200	1	03/25/2023 01:37	WG2028257
Sodium	2380		3.76	20.0	10	03/23/2023 19:50	WG2028248

Sample Narrative:

L1597201-09 WG2028257: Dilution due to matrix.

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	1.16	B	0.157	0.500	5	03/24/2023 08:39	WG2028952
(S) a,a,a-Trifluorotoluene(FID)	*97.9*			*78.0-120*		*03/24/2023 08:39*	WG2028952

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	03/26/2023 15:55	WG2030328
Benzene	U		0.0000941	0.00100	1	03/26/2023 15:55	WG2030328
Bromodichloromethane	U		0.000136	0.00100	1	03/26/2023 15:55	WG2030328
Bromoform	U		0.000129	0.00100	1	03/26/2023 15:55	WG2030328
Bromomethane	U		0.000605	0.00500	1	03/26/2023 15:55	WG2030328
n-Butylbenzene	U		0.000157	0.00100	1	03/26/2023 15:55	WG2030328
sec-Butylbenzene	U		0.000125	0.00100	1	03/26/2023 15:55	WG2030328
Carbon disulfide	U		0.0000962	0.00100	1	03/26/2023 15:55	WG2030328
Carbon tetrachloride	U		0.000128	0.00100	1	03/26/2023 15:55	WG2030328

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	03/26/2023 15:55	WG2030328
Chlorodibromomethane	U		0.000140	0.00100	1	03/26/2023 15:55	WG2030328
Chloroethane	U		0.000192	0.00500	1	03/26/2023 15:55	WG2030328
Chloroform	U		0.000111	0.00500	1	03/26/2023 15:55	WG2030328
Chloromethane	U		0.000960	0.00250	1	03/26/2023 15:55	WG2030328
1,2-Dibromoethane	U		0.000126	0.00100	1	03/26/2023 15:55	WG2030328
1,1-Dichloroethane	U		0.000100	0.00100	1	03/26/2023 15:55	WG2030328
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/26/2023 15:55	WG2030328
1,1-Dichloroethene	U		0.000188	0.00100	1	03/26/2023 15:55	WG2030328
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/26/2023 15:55	WG2030328
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/26/2023 15:55	WG2030328
1,2-Dichloropropane	U		0.000149	0.00100	1	03/26/2023 15:55	WG2030328
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/26/2023 15:55	WG2030328
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/26/2023 15:55	WG2030328
Ethylbenzene	U		0.000137	0.00100	1	03/26/2023 15:55	WG2030328
Isopropylbenzene	U		0.000105	0.00100	1	03/26/2023 15:55	WG2030328
p-Isopropyltoluene	U		0.000120	0.00100	1	03/26/2023 15:55	WG2030328
2-Butanone (MEK)	U		0.00119	0.0100	1	03/26/2023 15:55	WG2030328
2-Hexanone	U		0.000787	0.0100	1	03/26/2023 15:55	WG2030328
Methylene Chloride	U		0.000430	0.00500	1	03/26/2023 15:55	WG2030328
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/26/2023 15:55	WG2030328
Methyl tert-butyl ether	0.00164		0.000101	0.00100	1	03/26/2023 15:55	WG2030328
Naphthalene	U		0.00100	0.00500	1	03/26/2023 15:55	WG2030328
n-Propylbenzene	U		0.0000993	0.00100	1	03/26/2023 15:55	WG2030328
Styrene	U		0.000118	0.00100	1	03/26/2023 15:55	WG2030328
tert-Butyl alcohol	0.00880		0.00406	0.00500	1	03/26/2023 15:55	WG2030328
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/26/2023 15:55	WG2030328
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/26/2023 15:55	WG2030328
Tetrachloroethene	U		0.000300	0.00100	1	03/26/2023 15:55	WG2030328
Toluene	U		0.000278	0.00100	1	03/26/2023 15:55	WG2030328
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/26/2023 15:55	WG2030328
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/26/2023 15:55	WG2030328
Trichloroethene	U		0.000190	0.00100	1	03/26/2023 15:55	WG2030328
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/26/2023 15:55	WG2030328
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/26/2023 15:55	WG2030328
Vinyl chloride	U		0.000234	0.00100	1	03/26/2023 15:55	WG2030328
o-Xylene	U		0.000174	0.00100	1	03/26/2023 15:55	WG2030328
m&p-Xylene	U		0.000430	0.00200	1	03/26/2023 15:55	WG2030328
Xylenes, Total	U		0.000174	0.00300	1	03/26/2023 15:55	WG2030328
(S) Toluene-d8	*108*			*80.0-120*		*03/26/2023 15:55*	WG2030328
(S) 4-Bromofluorobenzene	*99.9*			*77.0-126*		*03/26/2023 15:55*	WG2030328
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*03/26/2023 15:55*	WG2030328

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	0.137	B	0.0247	0.100	1	03/29/2023 07:32	WG2030545
(S) o-Terphenyl	*120*			*31.0-160*		*03/29/2023 07:32*	WG2030545

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	5070		100	1	03/23/2023 22:05	WG2028851

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	903		3.79	10.0	10	03/23/2023 15:09	WG2028377
Fluoride	1.59	B	0.640	1.50	10	03/23/2023 15:09	WG2028377
Nitrate	U		0.480	1.00	10	03/23/2023 15:09	WG2028377
Nitrite	0.493	J	0.420	1.00	10	03/23/2023 15:09	WG2028377
Sulfate	2220		59.4	500	100	03/23/2023 17:42	WG2028377

Sample Narrative:

L1597201-10 WG2028377: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00226		0.000180	0.00200	1	03/23/2023 21:02	WG2028248
Arsenic,Dissolved	0.00222		0.000180	0.00200	1	03/25/2023 01:40	WG2028257
Barium	0.0152		0.000381	0.00200	1	03/23/2023 21:02	WG2028248
Barium,Dissolved	0.0159		0.000381	0.00200	1	03/25/2023 01:40	WG2028257
Calcium	582		0.0936	1.00	1	03/23/2023 21:02	WG2028248
Chromium	U		0.00124	0.00200	1	03/23/2023 21:02	WG2028248
Chromium,Dissolved	U		0.00124	0.00200	1	03/25/2023 01:40	WG2028257
Iron	3.95		0.0281	0.100	1	03/23/2023 21:02	WG2028248
Iron,Dissolved	4.26		0.0281	0.100	1	03/25/2023 01:40	WG2028257
Lead	U		0.000849	0.00200	1	03/23/2023 21:02	WG2028248
Lead,Dissolved	U		0.000849	0.00200	1	03/25/2023 01:40	WG2028257
Manganese	0.655		0.000704	0.00500	1	03/23/2023 21:02	WG2028248
Manganese,Dissolved	0.702		0.000704	0.00500	1	03/25/2023 01:40	WG2028257
Potassium	11.1		0.108	2.00	1	03/23/2023 21:02	WG2028248
Selenium	U		0.000300	0.00200	1	03/23/2023 21:02	WG2028248
Selenium,Dissolved	U		0.000300	0.00200	1	03/25/2023 01:40	WG2028257
Sodium	689		0.376	2.00	1	03/23/2023 21:02	WG2028248

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	0.119	B	0.0314	0.100	1	03/24/2023 03:20	WG2028952
(S) a,a,a-Trifluorotoluene(FID)	*98.3*			*78.0-120*		*03/24/2023 03:20*	WG2028952

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	03/26/2023 16:14	WG2030328
Benzene	U		0.0000941	0.00100	1	03/26/2023 16:14	WG2030328
Bromodichloromethane	U		0.000136	0.00100	1	03/26/2023 16:14	WG2030328
Bromoform	U		0.000129	0.00100	1	03/26/2023 16:14	WG2030328
Bromomethane	U		0.000605	0.00500	1	03/26/2023 16:14	WG2030328
n-Butylbenzene	U		0.000157	0.00100	1	03/26/2023 16:14	WG2030328
sec-Butylbenzene	U		0.000125	0.00100	1	03/26/2023 16:14	WG2030328
Carbon disulfide	0.000176	B J	0.0000962	0.00100	1	03/26/2023 16:14	WG2030328
Carbon tetrachloride	U		0.000128	0.00100	1	03/26/2023 16:14	WG2030328

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	03/26/2023 16:14	WG2030328
Chlorodibromomethane	U		0.000140	0.00100	1	03/26/2023 16:14	WG2030328
Chloroethane	U		0.000192	0.00500	1	03/26/2023 16:14	WG2030328
Chloroform	U		0.000111	0.00500	1	03/26/2023 16:14	WG2030328
Chloromethane	U		0.000960	0.00250	1	03/26/2023 16:14	WG2030328
1,2-Dibromoethane	U		0.000126	0.00100	1	03/26/2023 16:14	WG2030328
1,1-Dichloroethane	U		0.000100	0.00100	1	03/26/2023 16:14	WG2030328
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/26/2023 16:14	WG2030328
1,1-Dichloroethene	U		0.000188	0.00100	1	03/26/2023 16:14	WG2030328
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/26/2023 16:14	WG2030328
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/26/2023 16:14	WG2030328
1,2-Dichloropropane	U		0.000149	0.00100	1	03/26/2023 16:14	WG2030328
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/26/2023 16:14	WG2030328
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/26/2023 16:14	WG2030328
Ethylbenzene	U		0.000137	0.00100	1	03/26/2023 16:14	WG2030328
Isopropylbenzene	U		0.000105	0.00100	1	03/26/2023 16:14	WG2030328
p-Isopropyltoluene	U		0.000120	0.00100	1	03/26/2023 16:14	WG2030328
2-Butanone (MEK)	U		0.00119	0.0100	1	03/26/2023 16:14	WG2030328
2-Hexanone	U		0.000787	0.0100	1	03/26/2023 16:14	WG2030328
Methylene Chloride	U		0.000430	0.00500	1	03/26/2023 16:14	WG2030328
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/26/2023 16:14	WG2030328
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/26/2023 16:14	WG2030328
Naphthalene	U		0.00100	0.00500	1	03/26/2023 16:14	WG2030328
n-Propylbenzene	U		0.0000993	0.00100	1	03/26/2023 16:14	WG2030328
Styrene	U		0.000118	0.00100	1	03/26/2023 16:14	WG2030328
tert-Butyl alcohol	0.00482	J	0.00406	0.00500	1	03/26/2023 16:14	WG2030328
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/26/2023 16:14	WG2030328
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/26/2023 16:14	WG2030328
Tetrachloroethene	U		0.000300	0.00100	1	03/26/2023 16:14	WG2030328
Toluene	U		0.000278	0.00100	1	03/26/2023 16:14	WG2030328
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/26/2023 16:14	WG2030328
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/26/2023 16:14	WG2030328
Trichloroethene	U		0.000190	0.00100	1	03/26/2023 16:14	WG2030328
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/26/2023 16:14	WG2030328
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/26/2023 16:14	WG2030328
Vinyl chloride	U		0.000234	0.00100	1	03/26/2023 16:14	WG2030328
o-Xylene	U		0.000174	0.00100	1	03/26/2023 16:14	WG2030328
m&p-Xylene	U		0.000430	0.00200	1	03/26/2023 16:14	WG2030328
Xylenes, Total	U		0.000174	0.00300	1	03/26/2023 16:14	WG2030328
(S) Toluene-d8	*104*			*80.0-120*		*03/26/2023 16:14*	WG2030328
(S) 4-Bromofluorobenzene	*100*			*77.0-126*		*03/26/2023 16:14*	WG2030328
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*03/26/2023 16:14*	WG2030328

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	5.46		0.0247	0.100	1	03/29/2023 07:52	WG2030545
(S) o-Terphenyl	*137*			*31.0-160*		*03/29/2023 07:52*	WG2030545

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3680		100	1	03/23/2023 22:05	WG2028851

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1120		3.79	10.0	10	03/23/2023 14:02	WG2028377
Fluoride	1.43	B J	0.640	1.50	10	03/23/2023 14:02	WG2028377
Nitrate	U		0.480	1.00	10	03/23/2023 14:02	WG2028377
Nitrite	0.685	J	0.420	1.00	10	03/23/2023 14:02	WG2028377
Sulfate	1310		5.94	50.0	10	03/23/2023 14:02	WG2028377

Sample Narrative:

L1597201-11 WG2028377: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0332		0.000180	0.00200	1	03/23/2023 21:05	WG2028248
Arsenic,Dissolved	0.0465		0.000180	0.00200	1	03/25/2023 01:43	WG2028257
Barium	0.0195		0.000381	0.00200	1	03/23/2023 21:05	WG2028248
Barium,Dissolved	0.0183		0.000381	0.00200	1	03/25/2023 01:43	WG2028257
Calcium	385		0.0936	1.00	1	03/23/2023 21:05	WG2028248
Chromium	U		0.00124	0.00200	1	03/23/2023 21:05	WG2028248
Chromium,Dissolved	U		0.00124	0.00200	1	03/25/2023 01:43	WG2028257
Iron	4.39		0.0281	0.100	1	03/23/2023 21:05	WG2028248
Iron,Dissolved	2.81		0.0281	0.100	1	03/25/2023 01:43	WG2028257
Lead	U		0.000849	0.00200	1	03/23/2023 21:05	WG2028248
Lead,Dissolved	U		0.000849	0.00200	1	03/25/2023 01:43	WG2028257
Manganese	3.30		0.000704	0.00500	1	03/23/2023 21:05	WG2028248
Manganese,Dissolved	7.09		0.000704	0.00500	1	03/25/2023 01:43	WG2028257
Potassium	2.84		0.108	2.00	1	03/23/2023 21:05	WG2028248
Selenium	U		0.000300	0.00200	1	03/23/2023 21:05	WG2028248
Selenium,Dissolved	U		0.000300	0.00200	1	03/25/2023 01:43	WG2028257
Sodium	665		0.376	2.00	1	03/23/2023 21:05	WG2028248

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	0.159	B	0.0314	0.100	1	03/24/2023 03:42	WG2028952
(S) a,a,a-Trifluorotoluene(FID)	*98.2*			*78.0-120*		*03/24/2023 03:42*	WG2028952

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	03/26/2023 16:34	WG2030328
Benzene	U		0.0000941	0.00100	1	03/26/2023 16:34	WG2030328
Bromodichloromethane	U		0.000136	0.00100	1	03/26/2023 16:34	WG2030328
Bromoform	U		0.000129	0.00100	1	03/26/2023 16:34	WG2030328
Bromomethane	U		0.000605	0.00500	1	03/26/2023 16:34	WG2030328
n-Butylbenzene	U		0.000157	0.00100	1	03/26/2023 16:34	WG2030328
sec-Butylbenzene	0.000138	J	0.000125	0.00100	1	03/26/2023 16:34	WG2030328
Carbon disulfide	0.000168	B J	0.0000962	0.00100	1	03/26/2023 16:34	WG2030328
Carbon tetrachloride	U		0.000128	0.00100	1	03/26/2023 16:34	WG2030328

MW-4D
Collected date/time: 03/21/23 14:10
L1597201

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	03/26/2023 16:34	WG2030328
Chlorodibromomethane	U		0.000140	0.00100	1	03/26/2023 16:34	WG2030328
Chloroethane	U		0.000192	0.00500	1	03/26/2023 16:34	WG2030328
Chloroform	U		0.000111	0.00500	1	03/26/2023 16:34	WG2030328
Chloromethane	U		0.000960	0.00250	1	03/26/2023 16:34	WG2030328
1,2-Dibromoethane	U		0.000126	0.00100	1	03/26/2023 16:34	WG2030328
1,1-Dichloroethane	U		0.000100	0.00100	1	03/26/2023 16:34	WG2030328
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/26/2023 16:34	WG2030328
1,1-Dichloroethene	U		0.000188	0.00100	1	03/26/2023 16:34	WG2030328
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/26/2023 16:34	WG2030328
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/26/2023 16:34	WG2030328
1,2-Dichloropropane	U		0.000149	0.00100	1	03/26/2023 16:34	WG2030328
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/26/2023 16:34	WG2030328
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/26/2023 16:34	WG2030328
Ethylbenzene	U		0.000137	0.00100	1	03/26/2023 16:34	WG2030328
Isopropylbenzene	U		0.000105	0.00100	1	03/26/2023 16:34	WG2030328
p-Isopropyltoluene	U		0.000120	0.00100	1	03/26/2023 16:34	WG2030328
2-Butanone (MEK)	U		0.00119	0.0100	1	03/26/2023 16:34	WG2030328
2-Hexanone	U		0.000787	0.0100	1	03/26/2023 16:34	WG2030328
Methylene Chloride	U		0.000430	0.00500	1	03/26/2023 16:34	WG2030328
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/26/2023 16:34	WG2030328
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/26/2023 16:34	WG2030328
Naphthalene	U		0.00100	0.00500	1	03/26/2023 16:34	WG2030328
n-Propylbenzene	U		0.0000993	0.00100	1	03/26/2023 16:34	WG2030328
Styrene	U		0.000118	0.00100	1	03/26/2023 16:34	WG2030328
tert-Butyl alcohol	0.0597		0.00406	0.00500	1	03/26/2023 16:34	WG2030328
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/26/2023 16:34	WG2030328
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/26/2023 16:34	WG2030328
Tetrachloroethene	U		0.000300	0.00100	1	03/26/2023 16:34	WG2030328
Toluene	U		0.000278	0.00100	1	03/26/2023 16:34	WG2030328
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/26/2023 16:34	WG2030328
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/26/2023 16:34	WG2030328
Trichloroethene	U		0.000190	0.00100	1	03/26/2023 16:34	WG2030328
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/26/2023 16:34	WG2030328
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/26/2023 16:34	WG2030328
Vinyl chloride	U		0.000234	0.00100	1	03/26/2023 16:34	WG2030328
o-Xylene	U		0.000174	0.00100	1	03/26/2023 16:34	WG2030328
m&p-Xylene	U		0.000430	0.00200	1	03/26/2023 16:34	WG2030328
Xylenes, Total	U		0.000174	0.00300	1	03/26/2023 16:34	WG2030328
(S) Toluene-d8	*107*			*80.0-120*		*03/26/2023 16:34*	WG2030328
(S) 4-Bromofluorobenzene	*100*			*77.0-126*		*03/26/2023 16:34*	WG2030328
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*03/26/2023 16:34*	WG2030328

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	1.66		0.0247	0.100	1	03/29/2023 17:49	WG2030545
(S) o-Terphenyl	*135*			*31.0-160*		*03/29/2023 17:49*	WG2030545

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	15200		200	1	03/23/2023 22:05	WG2028851

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	3230		37.9	100	100	03/23/2023 07:16	WG2028372
Fluoride	4.24		0.640	1.50	10	03/23/2023 00:50	WG2028372
Nitrate	U		0.480	1.00	10	03/23/2023 00:50	WG2028372
Nitrite	U		0.420	1.00	10	03/23/2023 00:50	WG2028372
Sulfate	6110		59.4	500	100	03/23/2023 07:16	WG2028372

Sample Narrative:

L1597201-12 WG2028372: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0925		0.000180	0.00200	1	03/23/2023 21:08	WG2028248
Arsenic,Dissolved	0.0875		0.000180	0.00200	1	03/25/2023 01:46	WG2028257
Barium	0.0120		0.000381	0.00200	1	03/23/2023 21:08	WG2028248
Barium,Dissolved	0.0118		0.000381	0.00200	1	03/25/2023 01:46	WG2028257
Calcium	416		0.0936	1.00	1	03/23/2023 21:08	WG2028248
Chromium	U		0.00124	0.00200	1	03/23/2023 21:08	WG2028248
Chromium,Dissolved	U		0.00124	0.00200	1	03/25/2023 01:46	WG2028257
Iron	4.86		0.0281	0.100	1	03/23/2023 21:08	WG2028248
Iron,Dissolved	4.80		0.0281	0.100	1	03/25/2023 01:46	WG2028257
Lead	U		0.000849	0.00200	1	03/23/2023 21:08	WG2028248
Lead,Dissolved	U		0.000849	0.00200	1	03/25/2023 01:46	WG2028257
Manganese	1.28		0.000704	0.00500	1	03/23/2023 21:08	WG2028248
Manganese,Dissolved	1.48		0.000704	0.00500	1	03/25/2023 01:46	WG2028257
Potassium	5.54		0.108	2.00	1	03/23/2023 21:08	WG2028248
Selenium	0.000551	J	0.000300	0.00200	1	03/23/2023 21:08	WG2028248
Selenium,Dissolved	0.000738	J	0.000300	0.00200	1	03/25/2023 01:46	WG2028257
Sodium	3060		3.76	20.0	10	03/23/2023 19:53	WG2028248

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	1.60		0.0314	0.100	1	03/24/2023 04:05	WG2028952
(S) a,a,a-Trifluorotoluene(FID)	*98.9*			*78.0-120*		*03/24/2023 04:05*	WG2028952

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	03/26/2023 16:54	WG2030328
Benzene	U		0.0000941	0.00100	1	03/26/2023 16:54	WG2030328
Bromodichloromethane	U		0.000136	0.00100	1	03/26/2023 16:54	WG2030328
Bromoform	U		0.000129	0.00100	1	03/26/2023 16:54	WG2030328
Bromomethane	U		0.000605	0.00500	1	03/26/2023 16:54	WG2030328
n-Butylbenzene	U		0.000157	0.00100	1	03/26/2023 16:54	WG2030328
sec-Butylbenzene	0.000313	J	0.000125	0.00100	1	03/26/2023 16:54	WG2030328
Carbon disulfide	0.000169	B J	0.0000962	0.00100	1	03/26/2023 16:54	WG2030328
Carbon tetrachloride	U		0.000128	0.00100	1	03/26/2023 16:54	WG2030328

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	03/26/2023 16:54	WG2030328
Chlorodibromomethane	U		0.000140	0.00100	1	03/26/2023 16:54	WG2030328
Chloroethane	U		0.000192	0.00500	1	03/26/2023 16:54	WG2030328
Chloroform	U		0.000111	0.00500	1	03/26/2023 16:54	WG2030328
Chloromethane	U		0.000960	0.00250	1	03/26/2023 16:54	WG2030328
1,2-Dibromoethane	U		0.000126	0.00100	1	03/26/2023 16:54	WG2030328
1,1-Dichloroethane	U		0.000100	0.00100	1	03/26/2023 16:54	WG2030328
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/26/2023 16:54	WG2030328
1,1-Dichloroethene	U		0.000188	0.00100	1	03/26/2023 16:54	WG2030328
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/26/2023 16:54	WG2030328
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/26/2023 16:54	WG2030328
1,2-Dichloropropane	U		0.000149	0.00100	1	03/26/2023 16:54	WG2030328
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/26/2023 16:54	WG2030328
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/26/2023 16:54	WG2030328
Ethylbenzene	U		0.000137	0.00100	1	03/26/2023 16:54	WG2030328
Isopropylbenzene	U		0.000105	0.00100	1	03/26/2023 16:54	WG2030328
p-Isopropyltoluene	U		0.000120	0.00100	1	03/26/2023 16:54	WG2030328
2-Butanone (MEK)	U		0.00119	0.0100	1	03/26/2023 16:54	WG2030328
2-Hexanone	U		0.000787	0.0100	1	03/26/2023 16:54	WG2030328
Methylene Chloride	U		0.000430	0.00500	1	03/26/2023 16:54	WG2030328
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/26/2023 16:54	WG2030328
Methyl tert-butyl ether	0.00102		0.000101	0.00100	1	03/26/2023 16:54	WG2030328
Naphthalene	U		0.00100	0.00500	1	03/26/2023 16:54	WG2030328
n-Propylbenzene	U		0.0000993	0.00100	1	03/26/2023 16:54	WG2030328
Styrene	U		0.000118	0.00100	1	03/26/2023 16:54	WG2030328
tert-Butyl alcohol	0.0273		0.00406	0.00500	1	03/26/2023 16:54	WG2030328
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/26/2023 16:54	WG2030328
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/26/2023 16:54	WG2030328
Tetrachloroethene	U		0.000300	0.00100	1	03/26/2023 16:54	WG2030328
Toluene	U		0.000278	0.00100	1	03/26/2023 16:54	WG2030328
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/26/2023 16:54	WG2030328
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/26/2023 16:54	WG2030328
Trichloroethene	U		0.000190	0.00100	1	03/26/2023 16:54	WG2030328
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/26/2023 16:54	WG2030328
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/26/2023 16:54	WG2030328
Vinyl chloride	U		0.000234	0.00100	1	03/26/2023 16:54	WG2030328
o-Xylene	U		0.000174	0.00100	1	03/26/2023 16:54	WG2030328
m&p-Xylene	U		0.000430	0.00200	1	03/26/2023 16:54	WG2030328
Xylenes, Total	U		0.000174	0.00300	1	03/26/2023 16:54	WG2030328
(S) Toluene-d8	*103*			*80.0-120*		*03/26/2023 16:54*	WG2030328
(S) 4-Bromofluorobenzene	*96.1*			*77.0-126*		*03/26/2023 16:54*	WG2030328
(S) 1,2-Dichloroethane-d4	*111*			*70.0-130*		*03/26/2023 16:54*	WG2030328

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	0.145	B	0.0247	0.100	1	03/29/2023 15:06	WG2030545
(S) o-Terphenyl	*118*			*31.0-160*		*03/29/2023 15:06*	WG2030545

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	6160		100	1	03/23/2023 22:05	WG2028851

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1290		3.79	10.0	10	03/23/2023 00:34	WG2028210
Fluoride	2.21		0.640	1.50	10	03/23/2023 00:34	WG2028210
Nitrate	U		0.480	1.00	10	03/23/2023 00:34	WG2028210
Nitrite	U		0.420	1.00	10	03/23/2023 00:34	WG2028210
Sulfate	2250		59.4	500	100	03/23/2023 05:04	WG2028210

Sample Narrative:

L1597201-13 WG2028210: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.145		0.000180	0.00200	1	03/23/2023 21:12	WG2028248
Arsenic,Dissolved	0.144		0.000180	0.00200	1	03/25/2023 02:03	WG2028257
Barium	0.0101		0.000381	0.00200	1	03/23/2023 21:12	WG2028248
Barium,Dissolved	0.0106		0.000381	0.00200	1	03/25/2023 02:03	WG2028257
Calcium	358		0.0936	1.00	1	03/23/2023 21:12	WG2028248
Chromium	U		0.00124	0.00200	1	03/23/2023 21:12	WG2028248
Chromium,Dissolved	0.00786		0.00124	0.00200	1	03/25/2023 02:03	WG2028257
Iron	4.41		0.0281	0.100	1	03/23/2023 21:12	WG2028248
Iron,Dissolved	4.03		0.0281	0.100	1	03/25/2023 02:03	WG2028257
Lead	U		0.000849	0.00200	1	03/23/2023 21:12	WG2028248
Lead,Dissolved	U		0.000849	0.00200	1	03/25/2023 02:03	WG2028257
Manganese	2.75		0.000704	0.00500	1	03/23/2023 21:12	WG2028248
Manganese,Dissolved	3.13		0.000704	0.00500	1	03/25/2023 02:03	WG2028257
Potassium	9.69		0.108	2.00	1	03/23/2023 21:12	WG2028248
Selenium	0.00141	J	0.000300	0.00200	1	03/23/2023 21:12	WG2028248
Selenium,Dissolved	0.00134	J	0.000300	0.00200	1	03/25/2023 02:03	WG2028257
Sodium	1270		1.88	10.0	5	03/23/2023 19:56	WG2028248

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	1.67		0.0314	0.100	1	03/24/2023 06:27	WG2028952
(S) a,a,a-Trifluorotoluene(FID)	*98.6*			*78.0-120*		*03/24/2023 06:27*	WG2028952

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	03/26/2023 17:14	WG2030328
Benzene	U		0.0000941	0.00100	1	03/26/2023 17:14	WG2030328
Bromodichloromethane	U		0.000136	0.00100	1	03/26/2023 17:14	WG2030328
Bromoform	U		0.000129	0.00100	1	03/26/2023 17:14	WG2030328
Bromomethane	U		0.000605	0.00500	1	03/26/2023 17:14	WG2030328
n-Butylbenzene	U		0.000157	0.00100	1	03/26/2023 17:14	WG2030328
sec-Butylbenzene	U		0.000125	0.00100	1	03/26/2023 17:14	WG2030328
Carbon disulfide	0.000166	B J	0.0000962	0.00100	1	03/26/2023 17:14	WG2030328
Carbon tetrachloride	U		0.000128	0.00100	1	03/26/2023 17:14	WG2030328

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	03/26/2023 17:14	WG2030328
Chlorodibromomethane	U		0.000140	0.00100	1	03/26/2023 17:14	WG2030328
Chloroethane	U		0.000192	0.00500	1	03/26/2023 17:14	WG2030328
Chloroform	U		0.000111	0.00500	1	03/26/2023 17:14	WG2030328
Chloromethane	U		0.000960	0.00250	1	03/26/2023 17:14	WG2030328
1,2-Dibromoethane	U		0.000126	0.00100	1	03/26/2023 17:14	WG2030328
1,1-Dichloroethane	U		0.000100	0.00100	1	03/26/2023 17:14	WG2030328
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/26/2023 17:14	WG2030328
1,1-Dichloroethene	U		0.000188	0.00100	1	03/26/2023 17:14	WG2030328
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/26/2023 17:14	WG2030328
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/26/2023 17:14	WG2030328
1,2-Dichloropropane	U		0.000149	0.00100	1	03/26/2023 17:14	WG2030328
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/26/2023 17:14	WG2030328
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/26/2023 17:14	WG2030328
Ethylbenzene	U		0.000137	0.00100	1	03/26/2023 17:14	WG2030328
Isopropylbenzene	0.000110	J	0.000105	0.00100	1	03/26/2023 17:14	WG2030328
p-Isopropyltoluene	U		0.000120	0.00100	1	03/26/2023 17:14	WG2030328
2-Butanone (MEK)	U		0.00119	0.0100	1	03/26/2023 17:14	WG2030328
2-Hexanone	U		0.000787	0.0100	1	03/26/2023 17:14	WG2030328
Methylene Chloride	U		0.000430	0.00500	1	03/26/2023 17:14	WG2030328
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/26/2023 17:14	WG2030328
Methyl tert-butyl ether	0.00104		0.000101	0.00100	1	03/26/2023 17:14	WG2030328
Naphthalene	U		0.00100	0.00500	1	03/26/2023 17:14	WG2030328
n-Propylbenzene	U		0.0000993	0.00100	1	03/26/2023 17:14	WG2030328
Styrene	U		0.000118	0.00100	1	03/26/2023 17:14	WG2030328
tert-Butyl alcohol	0.0506		0.00406	0.00500	1	03/26/2023 17:14	WG2030328
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/26/2023 17:14	WG2030328
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/26/2023 17:14	WG2030328
Tetrachloroethene	U		0.000300	0.00100	1	03/26/2023 17:14	WG2030328
Toluene	U		0.000278	0.00100	1	03/26/2023 17:14	WG2030328
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/26/2023 17:14	WG2030328
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/26/2023 17:14	WG2030328
Trichloroethene	U		0.000190	0.00100	1	03/26/2023 17:14	WG2030328
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/26/2023 17:14	WG2030328
1,3,5-Trimethylbenzene	0.000144	J	0.000104	0.00100	1	03/26/2023 17:14	WG2030328
Vinyl chloride	U		0.000234	0.00100	1	03/26/2023 17:14	WG2030328
o-Xylene	U		0.000174	0.00100	1	03/26/2023 17:14	WG2030328
m&p-Xylene	U		0.000430	0.00200	1	03/26/2023 17:14	WG2030328
Xylenes, Total	U		0.000174	0.00300	1	03/26/2023 17:14	WG2030328
(S) Toluene-d8	*105*			*80.0-120*		*03/26/2023 17:14*	WG2030328
(S) 4-Bromofluorobenzene	*97.2*			*77.0-126*		*03/26/2023 17:14*	WG2030328
(S) 1,2-Dichloroethane-d4	*111*			*70.0-130*		*03/26/2023 17:14*	WG2030328

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	1.13		0.0247	0.100	1	03/29/2023 08:54	WG2030545
(S) o-Terphenyl	*135*			*31.0-160*		*03/29/2023 08:54*	WG2030545

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2820	J3	50.0	1	03/23/2023 22:05	WG2028851

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	578		3.79	10.0	10	03/23/2023 12:28	WG2028377
Fluoride	1.57	B	0.640	1.50	10	03/23/2023 12:28	WG2028377
Nitrate	U		0.480	1.00	10	03/23/2023 12:28	WG2028377
Nitrite	0.460	J	0.420	1.00	10	03/23/2023 12:28	WG2028377
Sulfate	1410		5.94	50.0	10	03/23/2023 12:28	WG2028377

Sample Narrative:

L1597201-14 WG2028377: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00949		0.000180	0.00200	1	03/23/2023 21:15	WG2028248
Arsenic,Dissolved	0.0104		0.000180	0.00200	1	03/25/2023 02:06	WG2028257
Barium	0.0138		0.000381	0.00200	1	03/23/2023 21:15	WG2028248
Barium,Dissolved	0.0143		0.000381	0.00200	1	03/25/2023 02:06	WG2028257
Calcium	357		0.0936	1.00	1	03/23/2023 21:15	WG2028248
Chromium	U		0.00124	0.00200	1	03/23/2023 21:15	WG2028248
Chromium,Dissolved	0.00248		0.00124	0.00200	1	03/25/2023 02:06	WG2028257
Iron	0.677		0.0281	0.100	1	03/23/2023 21:15	WG2028248
Iron,Dissolved	0.687		0.0281	0.100	1	03/25/2023 02:06	WG2028257
Lead	U		0.000849	0.00200	1	03/23/2023 21:15	WG2028248
Lead,Dissolved	U		0.000849	0.00200	1	03/25/2023 02:06	WG2028257
Manganese	0.938		0.000704	0.00500	1	03/23/2023 21:15	WG2028248
Manganese,Dissolved	1.03		0.000704	0.00500	1	03/25/2023 02:06	WG2028257
Potassium	3.74		0.108	2.00	1	03/23/2023 21:15	WG2028248
Selenium	U		0.000300	0.00200	1	03/23/2023 21:15	WG2028248
Selenium,Dissolved	U		0.000300	0.00200	1	03/25/2023 02:06	WG2028257
Sodium	439		0.376	2.00	1	03/23/2023 21:15	WG2028248

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	0.109	B	0.0314	0.100	1	03/24/2023 06:49	WG2028952
(S) a,a,a-Trifluorotoluene(FID)	*98.4*			*78.0-120*		*03/24/2023 06:49*	WG2028952

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	03/26/2023 17:34	WG2030328
Benzene	U		0.0000941	0.00100	1	03/26/2023 17:34	WG2030328
Bromodichloromethane	U		0.000136	0.00100	1	03/26/2023 17:34	WG2030328
Bromoform	U		0.000129	0.00100	1	03/26/2023 17:34	WG2030328
Bromomethane	U		0.000605	0.00500	1	03/26/2023 17:34	WG2030328
n-Butylbenzene	U		0.000157	0.00100	1	03/26/2023 17:34	WG2030328
sec-Butylbenzene	U		0.000125	0.00100	1	03/26/2023 17:34	WG2030328
Carbon disulfide	U		0.0000962	0.00100	1	03/26/2023 17:34	WG2030328
Carbon tetrachloride	U		0.000128	0.00100	1	03/26/2023 17:34	WG2030328

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	03/26/2023 17:34	WG2030328
Chlorodibromomethane	U		0.000140	0.00100	1	03/26/2023 17:34	WG2030328
Chloroethane	U		0.000192	0.00500	1	03/26/2023 17:34	WG2030328
Chloroform	U		0.000111	0.00500	1	03/26/2023 17:34	WG2030328
Chloromethane	U		0.000960	0.00250	1	03/26/2023 17:34	WG2030328
1,2-Dibromoethane	U		0.000126	0.00100	1	03/26/2023 17:34	WG2030328
1,1-Dichloroethane	U		0.000100	0.00100	1	03/26/2023 17:34	WG2030328
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/26/2023 17:34	WG2030328
1,1-Dichloroethene	U		0.000188	0.00100	1	03/26/2023 17:34	WG2030328
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/26/2023 17:34	WG2030328
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/26/2023 17:34	WG2030328
1,2-Dichloropropane	U		0.000149	0.00100	1	03/26/2023 17:34	WG2030328
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/26/2023 17:34	WG2030328
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/26/2023 17:34	WG2030328
Ethylbenzene	U		0.000137	0.00100	1	03/26/2023 17:34	WG2030328
Isopropylbenzene	U		0.000105	0.00100	1	03/26/2023 17:34	WG2030328
p-Isopropyltoluene	U		0.000120	0.00100	1	03/26/2023 17:34	WG2030328
2-Butanone (MEK)	U		0.00119	0.0100	1	03/26/2023 17:34	WG2030328
2-Hexanone	U		0.000787	0.0100	1	03/26/2023 17:34	WG2030328
Methylene Chloride	U		0.000430	0.00500	1	03/26/2023 17:34	WG2030328
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/26/2023 17:34	WG2030328
Methyl tert-butyl ether	0.000335	J	0.000101	0.00100	1	03/26/2023 17:34	WG2030328
Naphthalene	U		0.00100	0.00500	1	03/26/2023 17:34	WG2030328
n-Propylbenzene	U		0.0000993	0.00100	1	03/26/2023 17:34	WG2030328
Styrene	U		0.000118	0.00100	1	03/26/2023 17:34	WG2030328
tert-Butyl alcohol	U		0.00406	0.00500	1	03/26/2023 17:34	WG2030328
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/26/2023 17:34	WG2030328
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/26/2023 17:34	WG2030328
Tetrachloroethene	U		0.000300	0.00100	1	03/26/2023 17:34	WG2030328
Toluene	U		0.000278	0.00100	1	03/26/2023 17:34	WG2030328
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/26/2023 17:34	WG2030328
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/26/2023 17:34	WG2030328
Trichloroethene	U		0.000190	0.00100	1	03/26/2023 17:34	WG2030328
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/26/2023 17:34	WG2030328
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/26/2023 17:34	WG2030328
Vinyl chloride	U		0.000234	0.00100	1	03/26/2023 17:34	WG2030328
o-Xylene	U		0.000174	0.00100	1	03/26/2023 17:34	WG2030328
m&p-Xylene	U		0.000430	0.00200	1	03/26/2023 17:34	WG2030328
Xylenes, Total	U		0.000174	0.00300	1	03/26/2023 17:34	WG2030328
(S) Toluene-d8	*104*			*80.0-120*		*03/26/2023 17:34*	WG2030328
(S) 4-Bromofluorobenzene	*96.3*			*77.0-126*		*03/26/2023 17:34*	WG2030328
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*03/26/2023 17:34*	WG2030328

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	0.281		0.0247	0.100	1	03/28/2023 16:24	WG2030546
(S) o-Terphenyl	*126*			*31.0-160*		*03/28/2023 16:24*	WG2030546

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	7590		100	1	03/23/2023 22:05	WG2028851

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1950		37.9	100	100	03/23/2023 06:08	WG2028309
Fluoride	1.40	J	0.640	1.50	10	03/23/2023 00:16	WG2028309
Nitrate	U		0.480	1.00	10	03/23/2023 00:16	WG2028309
Nitrite	U		0.420	1.00	10	03/23/2023 00:16	WG2028309
Sulfate	2230		59.4	500	100	03/23/2023 06:08	WG2028309

Sample Narrative:

L1597201-15 WG2028309: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0160		0.000180	0.00200	1	03/23/2023 21:18	WG2028248
Arsenic,Dissolved	0.0124		0.000180	0.00200	1	03/25/2023 02:09	WG2028257
Barium	0.0153		0.000381	0.00200	1	03/23/2023 21:18	WG2028248
Barium,Dissolved	0.0157		0.000381	0.00200	1	03/25/2023 02:09	WG2028257
Calcium	363		0.0936	1.00	1	03/23/2023 21:18	WG2028248
Chromium	U		0.00124	0.00200	1	03/23/2023 21:18	WG2028248
Chromium,Dissolved	0.00157	J	0.00124	0.00200	1	03/25/2023 02:09	WG2028257
Iron	2.73		0.0281	0.100	1	03/23/2023 21:18	WG2028248
Iron,Dissolved	1.59		0.0281	0.100	1	03/25/2023 02:09	WG2028257
Lead	U		0.000849	0.00200	1	03/23/2023 21:18	WG2028248
Lead,Dissolved	U		0.000849	0.00200	1	03/25/2023 02:09	WG2028257
Manganese	0.373		0.000704	0.00500	1	03/23/2023 21:18	WG2028248
Manganese,Dissolved	0.407		0.000704	0.00500	1	03/25/2023 02:09	WG2028257
Potassium	3.41		0.108	2.00	1	03/23/2023 21:18	WG2028248
Selenium	0.000338	J	0.000300	0.00200	1	03/23/2023 21:18	WG2028248
Selenium,Dissolved	0.000357	J	0.000300	0.00200	1	03/25/2023 02:09	WG2028257
Sodium	1410		1.88	10.0	5	03/23/2023 20:00	WG2028248

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	0.325	B	0.0314	0.100	1	03/24/2023 07:11	WG2028952
(S) a,a,a-Trifluorotoluene(FID)	*98.3*			*78.0-120*		*03/24/2023 07:11*	WG2028952

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	03/26/2023 17:54	WG2030328
Benzene	U		0.0000941	0.00100	1	03/26/2023 17:54	WG2030328
Bromodichloromethane	U		0.000136	0.00100	1	03/26/2023 17:54	WG2030328
Bromoform	U		0.000129	0.00100	1	03/26/2023 17:54	WG2030328
Bromomethane	U		0.000605	0.00500	1	03/26/2023 17:54	WG2030328
n-Butylbenzene	U		0.000157	0.00100	1	03/26/2023 17:54	WG2030328
sec-Butylbenzene	U		0.000125	0.00100	1	03/26/2023 17:54	WG2030328
Carbon disulfide	U		0.0000962	0.00100	1	03/26/2023 17:54	WG2030328
Carbon tetrachloride	U		0.000128	0.00100	1	03/26/2023 17:54	WG2030328

MW-7A
Collected date/time: 03/21/23 10:00
L1597201

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	03/26/2023 17:54	WG2030328
Chlorodibromomethane	U		0.000140	0.00100	1	03/26/2023 17:54	WG2030328
Chloroethane	U		0.000192	0.00500	1	03/26/2023 17:54	WG2030328
Chloroform	U		0.000111	0.00500	1	03/26/2023 17:54	WG2030328
Chloromethane	U		0.000960	0.00250	1	03/26/2023 17:54	WG2030328
1,2-Dibromoethane	U		0.000126	0.00100	1	03/26/2023 17:54	WG2030328
1,1-Dichloroethane	U		0.000100	0.00100	1	03/26/2023 17:54	WG2030328
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/26/2023 17:54	WG2030328
1,1-Dichloroethene	U		0.000188	0.00100	1	03/26/2023 17:54	WG2030328
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/26/2023 17:54	WG2030328
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/26/2023 17:54	WG2030328
1,2-Dichloropropane	U		0.000149	0.00100	1	03/26/2023 17:54	WG2030328
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/26/2023 17:54	WG2030328
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/26/2023 17:54	WG2030328
Ethylbenzene	U		0.000137	0.00100	1	03/26/2023 17:54	WG2030328
Isopropylbenzene	U		0.000105	0.00100	1	03/26/2023 17:54	WG2030328
p-Isopropyltoluene	U		0.000120	0.00100	1	03/26/2023 17:54	WG2030328
2-Butanone (MEK)	U		0.00119	0.0100	1	03/26/2023 17:54	WG2030328
2-Hexanone	U		0.000787	0.0100	1	03/26/2023 17:54	WG2030328
Methylene Chloride	U		0.000430	0.00500	1	03/26/2023 17:54	WG2030328
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/26/2023 17:54	WG2030328
Methyl tert-butyl ether	0.000862	J	0.000101	0.00100	1	03/26/2023 17:54	WG2030328
Naphthalene	U		0.00100	0.00500	1	03/26/2023 17:54	WG2030328
n-Propylbenzene	U		0.0000993	0.00100	1	03/26/2023 17:54	WG2030328
Styrene	U		0.000118	0.00100	1	03/26/2023 17:54	WG2030328
tert-Butyl alcohol	U		0.00406	0.00500	1	03/26/2023 17:54	WG2030328
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/26/2023 17:54	WG2030328
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/26/2023 17:54	WG2030328
Tetrachloroethene	U		0.000300	0.00100	1	03/26/2023 17:54	WG2030328
Toluene	U		0.000278	0.00100	1	03/26/2023 17:54	WG2030328
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/26/2023 17:54	WG2030328
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/26/2023 17:54	WG2030328
Trichloroethene	U		0.000190	0.00100	1	03/26/2023 17:54	WG2030328
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/26/2023 17:54	WG2030328
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/26/2023 17:54	WG2030328
Vinyl chloride	U		0.000234	0.00100	1	03/26/2023 17:54	WG2030328
o-Xylene	U		0.000174	0.00100	1	03/26/2023 17:54	WG2030328
m&p-Xylene	U		0.000430	0.00200	1	03/26/2023 17:54	WG2030328
Xylenes, Total	U		0.000174	0.00300	1	03/26/2023 17:54	WG2030328
(S) Toluene-d8	*105*			*80.0-120*		*03/26/2023 17:54*	WG2030328
(S) 4-Bromofluorobenzene	*100*			*77.0-126*		*03/26/2023 17:54*	WG2030328
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*03/26/2023 17:54*	WG2030328

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	0.702		0.0247	0.100	1	03/28/2023 16:45	WG2030546
(S) o-Terphenyl	*127*			*31.0-160*		*03/28/2023 16:45*	WG2030546

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3980		100	1	03/23/2023 22:05	WG2028851

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1080		3.79	10.0	10	03/23/2023 01:05	WG2028372
Fluoride	0.788	J	0.640	1.50	10	03/23/2023 01:05	WG2028372
Nitrate	U		0.480	1.00	10	03/23/2023 01:05	WG2028372
Nitrite	U		0.420	1.00	10	03/23/2023 01:05	WG2028372
Sulfate	1720		5.94	50.0	10	03/23/2023 01:05	WG2028372

Sample Narrative:

L1597201-16 WG2028372: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00441		0.000180	0.00200	1	03/23/2023 14:54	WG2028248
Arsenic,Dissolved	0.00464		0.000180	0.00200	1	03/25/2023 02:13	WG2028257
Barium	0.0106		0.000381	0.00200	1	03/23/2023 14:54	WG2028248
Barium,Dissolved	0.0128		0.000381	0.00200	1	03/25/2023 02:13	WG2028257
Calcium	524		0.0936	1.00	1	03/23/2023 14:54	WG2028248
Chromium	U		0.00124	0.00200	1	03/23/2023 14:54	WG2028248
Chromium,Dissolved	U		0.00124	0.00200	1	03/25/2023 02:13	WG2028257
Iron	0.150		0.0281	0.100	1	03/23/2023 14:54	WG2028248
Iron,Dissolved	0.141		0.0281	0.100	1	03/25/2023 02:13	WG2028257
Lead	U		0.000849	0.00200	1	03/23/2023 14:54	WG2028248
Lead,Dissolved	U		0.000849	0.00200	1	03/25/2023 02:13	WG2028257
Manganese	0.584		0.000704	0.00500	1	03/23/2023 14:54	WG2028248
Manganese,Dissolved	0.659		0.000704	0.00500	1	03/25/2023 02:13	WG2028257
Potassium	8.17		0.108	2.00	1	03/23/2023 14:54	WG2028248
Selenium	U		0.000300	0.00200	1	03/23/2023 14:54	WG2028248
Selenium,Dissolved	U		0.000300	0.00200	1	03/25/2023 02:13	WG2028257
Sodium	576		0.376	2.00	1	03/23/2023 14:54	WG2028248

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	0.0911	B J	0.0314	0.100	1	03/24/2023 07:33	WG2028952
(S) a,a,a-Trifluorotoluene(FID)	*98.4*			*78.0-120*		*03/24/2023 07:33*	WG2028952

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	03/26/2023 18:14	WG2030328
Benzene	U		0.0000941	0.00100	1	03/26/2023 18:14	WG2030328
Bromodichloromethane	U		0.000136	0.00100	1	03/26/2023 18:14	WG2030328
Bromoform	U		0.000129	0.00100	1	03/26/2023 18:14	WG2030328
Bromomethane	U		0.000605	0.00500	1	03/26/2023 18:14	WG2030328
n-Butylbenzene	U		0.000157	0.00100	1	03/26/2023 18:14	WG2030328
sec-Butylbenzene	U		0.000125	0.00100	1	03/26/2023 18:14	WG2030328
Carbon disulfide	U		0.0000962	0.00100	1	03/26/2023 18:14	WG2030328
Carbon tetrachloride	U		0.000128	0.00100	1	03/26/2023 18:14	WG2030328

MW-7D
Collected date/time: 03/21/23 10:55
L1597201

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	03/26/2023 18:14	WG2030328
Chlorodibromomethane	U		0.000140	0.00100	1	03/26/2023 18:14	WG2030328
Chloroethane	U		0.000192	0.00500	1	03/26/2023 18:14	WG2030328
Chloroform	U		0.000111	0.00500	1	03/26/2023 18:14	WG2030328
Chloromethane	U		0.000960	0.00250	1	03/26/2023 18:14	WG2030328
1,2-Dibromoethane	U		0.000126	0.00100	1	03/26/2023 18:14	WG2030328
1,1-Dichloroethane	U		0.000100	0.00100	1	03/26/2023 18:14	WG2030328
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/26/2023 18:14	WG2030328
1,1-Dichloroethene	U		0.000188	0.00100	1	03/26/2023 18:14	WG2030328
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/26/2023 18:14	WG2030328
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/26/2023 18:14	WG2030328
1,2-Dichloropropane	U		0.000149	0.00100	1	03/26/2023 18:14	WG2030328
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/26/2023 18:14	WG2030328
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/26/2023 18:14	WG2030328
Ethylbenzene	U		0.000137	0.00100	1	03/26/2023 18:14	WG2030328
Isopropylbenzene	U		0.000105	0.00100	1	03/26/2023 18:14	WG2030328
p-Isopropyltoluene	U		0.000120	0.00100	1	03/26/2023 18:14	WG2030328
2-Butanone (MEK)	U		0.00119	0.0100	1	03/26/2023 18:14	WG2030328
2-Hexanone	U		0.000787	0.0100	1	03/26/2023 18:14	WG2030328
Methylene Chloride	U		0.000430	0.00500	1	03/26/2023 18:14	WG2030328
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/26/2023 18:14	WG2030328
Methyl tert-butyl ether	0.000175	J	0.000101	0.00100	1	03/26/2023 18:14	WG2030328
Naphthalene	U		0.00100	0.00500	1	03/26/2023 18:14	WG2030328
n-Propylbenzene	U		0.0000993	0.00100	1	03/26/2023 18:14	WG2030328
Styrene	U		0.000118	0.00100	1	03/26/2023 18:14	WG2030328
tert-Butyl alcohol	U		0.00406	0.00500	1	03/26/2023 18:14	WG2030328
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/26/2023 18:14	WG2030328
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/26/2023 18:14	WG2030328
Tetrachloroethene	U		0.000300	0.00100	1	03/26/2023 18:14	WG2030328
Toluene	U		0.000278	0.00100	1	03/26/2023 18:14	WG2030328
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/26/2023 18:14	WG2030328
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/26/2023 18:14	WG2030328
Trichloroethene	U		0.000190	0.00100	1	03/26/2023 18:14	WG2030328
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/26/2023 18:14	WG2030328
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/26/2023 18:14	WG2030328
Vinyl chloride	U		0.000234	0.00100	1	03/26/2023 18:14	WG2030328
o-Xylene	U		0.000174	0.00100	1	03/26/2023 18:14	WG2030328
m&p-Xylene	U		0.000430	0.00200	1	03/26/2023 18:14	WG2030328
Xylenes, Total	U		0.000174	0.00300	1	03/26/2023 18:14	WG2030328
(S) Toluene-d8	*103*			*80.0-120*		*03/26/2023 18:14*	WG2030328
(S) 4-Bromofluorobenzene	*96.5*			*77.0-126*		*03/26/2023 18:14*	WG2030328
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*03/26/2023 18:14*	WG2030328

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	03/28/2023 17:06	WG2030546
(S) o-Terphenyl	*119*			*31.0-160*		*03/28/2023 17:06*	WG2030546

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	14200		200	1	03/23/2023 22:05	WG2028851

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	03/27/2023 11:00	WG2028782

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	4490		37.9	100	100	03/23/2023 05:21	WG2028309
Fluoride	2.13		0.640	1.50	10	03/22/2023 23:12	WG2028309
Nitrate	U		0.480	1.00	10	03/22/2023 23:12	WG2028309
Nitrite	U		0.420	1.00	10	03/22/2023 23:12	WG2028309
Sulfate	3750		59.4	500	100	03/23/2023 05:21	WG2028309

Sample Narrative:

L1597201-17 WG2028309: Dilution due to matrix.

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	03/25/2023 10:27	WG2028364
Mercury,Dissolved	U		0.000100	0.000200	1	03/25/2023 11:05	WG2028366

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	0.957		0.0200	0.200	1	03/23/2023 22:56	WG2028566
Boron,Dissolved	0.878		0.0200	0.200	1	03/23/2023 23:04	WG2028556

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0272		0.000180	0.00200	1	03/23/2023 14:57	WG2028248
Arsenic,Dissolved	0.0290		0.000180	0.00200	1	03/25/2023 02:16	WG2028257
Barium	0.0153		0.000381	0.00200	1	03/23/2023 14:57	WG2028248
Barium,Dissolved	0.0174		0.000381	0.00200	1	03/25/2023 02:16	WG2028257
Cadmium	U		0.000150	0.00100	1	03/23/2023 14:57	WG2028248
Cadmium,Dissolved	U		0.000150	0.00100	1	03/25/2023 02:16	WG2028257
Calcium	674		0.0936	1.00	1	03/23/2023 14:57	WG2028248
Chromium	U		0.00124	0.00200	1	03/23/2023 14:57	WG2028248
Chromium,Dissolved	U		0.00124	0.00200	1	03/25/2023 02:16	WG2028257
Cobalt	0.00140	J	0.0000596	0.00200	1	03/23/2023 14:57	WG2028248
Cobalt,Dissolved	0.00140	J	0.0000596	0.00200	1	03/25/2023 02:16	WG2028257
Iron	1.17		0.0281	0.100	1	03/23/2023 14:57	WG2028248
Iron,Dissolved	1.02		0.0281	0.100	1	03/25/2023 02:16	WG2028257
Lead	U		0.000849	0.00200	1	03/23/2023 14:57	WG2028248
Lead,Dissolved	U		0.00424	0.0100	5	03/25/2023 03:02	WG2028257
Manganese	1.06		0.000704	0.00500	1	03/23/2023 14:57	WG2028248
Manganese,Dissolved	1.19		0.000704	0.00500	1	03/25/2023 02:16	WG2028257
Nickel	0.0312		0.000816	0.00200	1	03/23/2023 14:57	WG2028248
Nickel,Dissolved	0.0328		0.000816	0.00200	1	03/25/2023 02:16	WG2028257

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Potassium	8.49		0.108	2.00	1	03/23/2023 14:57	WG2028248
Selenium	0.00136	J	0.000300	0.00200	1	03/23/2023 14:57	WG2028248
Selenium,Dissolved	0.00122	J	0.000300	0.00200	1	03/25/2023 02:16	WG2028257
Sodium	2950		3.76	20.0	10	03/23/2023 20:19	WG2028248
Uranium	0.00551		0.0000789	0.00100	1	03/23/2023 14:57	WG2028248
Uranium,Dissolved	0.00471	J	0.000394	0.00500	5	03/25/2023 03:02	WG2028257
Vanadium	U		0.000664	0.00500	1	03/23/2023 14:57	WG2028248
Vanadium,Dissolved	0.000846	J	0.000664	0.00500	1	03/25/2023 02:16	WG2028257

Sample Narrative:

L1597201-17 WG2028257: Dilution due to matrix.

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	0.274		0.0314	0.100	1	03/24/2023 12:43	WG2029475
(S) a,a,a-Trifluorotoluene(FID)	*107*			*78.0-120*		*03/24/2023 12:43*	WG2029475

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	03/26/2023 18:34	WG2030328
Benzene	U		0.0000941	0.00100	1	03/26/2023 18:34	WG2030328
Bromodichloromethane	U		0.000136	0.00100	1	03/26/2023 18:34	WG2030328
Bromoform	U		0.000129	0.00100	1	03/26/2023 18:34	WG2030328
Bromomethane	U		0.000605	0.00500	1	03/26/2023 18:34	WG2030328
n-Butylbenzene	U		0.000157	0.00100	1	03/26/2023 18:34	WG2030328
sec-Butylbenzene	U		0.000125	0.00100	1	03/26/2023 18:34	WG2030328
Carbon disulfide	0.000118	B J	0.0000962	0.00100	1	03/26/2023 18:34	WG2030328
Carbon tetrachloride	U		0.000128	0.00100	1	03/26/2023 18:34	WG2030328
Chlorobenzene	U		0.000116	0.00100	1	03/26/2023 18:34	WG2030328
Chlorodibromomethane	U		0.000140	0.00100	1	03/26/2023 18:34	WG2030328
Chloroethane	U		0.000192	0.00500	1	03/26/2023 18:34	WG2030328
Chloroform	U		0.000111	0.00500	1	03/26/2023 18:34	WG2030328
Chloromethane	U		0.000960	0.00250	1	03/26/2023 18:34	WG2030328
1,2-Dibromoethane	U		0.000126	0.00100	1	03/26/2023 18:34	WG2030328
1,1-Dichloroethane	U		0.000100	0.00100	1	03/26/2023 18:34	WG2030328
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/26/2023 18:34	WG2030328
1,1-Dichloroethene	U		0.000188	0.00100	1	03/26/2023 18:34	WG2030328
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/26/2023 18:34	WG2030328
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/26/2023 18:34	WG2030328
1,2-Dichloropropane	U		0.000149	0.00100	1	03/26/2023 18:34	WG2030328
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/26/2023 18:34	WG2030328
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/26/2023 18:34	WG2030328
Ethylbenzene	U		0.000137	0.00100	1	03/26/2023 18:34	WG2030328
Isopropylbenzene	U		0.000105	0.00100	1	03/26/2023 18:34	WG2030328
p-Isopropyltoluene	U		0.000120	0.00100	1	03/26/2023 18:34	WG2030328
2-Butanone (MEK)	U		0.00119	0.0100	1	03/26/2023 18:34	WG2030328
2-Hexanone	U		0.000787	0.0100	1	03/26/2023 18:34	WG2030328
Methylene Chloride	U		0.000430	0.00500	1	03/26/2023 18:34	WG2030328
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/26/2023 18:34	WG2030328
Methyl tert-butyl ether	0.00211		0.000101	0.00100	1	03/26/2023 18:34	WG2030328
Naphthalene	U		0.00100	0.00500	1	03/26/2023 18:34	WG2030328
n-Propylbenzene	U		0.0000993	0.00100	1	03/26/2023 18:34	WG2030328
Styrene	U		0.000118	0.00100	1	03/26/2023 18:34	WG2030328

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
tert-Butyl alcohol	U		0.00406	0.00500	1	03/26/2023 18:34	WG2030328
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/26/2023 18:34	WG2030328
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/26/2023 18:34	WG2030328
Tetrachloroethene	U		0.000300	0.00100	1	03/26/2023 18:34	WG2030328
Toluene	U		0.000278	0.00100	1	03/26/2023 18:34	WG2030328
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/26/2023 18:34	WG2030328
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/26/2023 18:34	WG2030328
Trichloroethene	U		0.000190	0.00100	1	03/26/2023 18:34	WG2030328
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/26/2023 18:34	WG2030328
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/26/2023 18:34	WG2030328
Vinyl chloride	U		0.000234	0.00100	1	03/26/2023 18:34	WG2030328
o-Xylene	U		0.000174	0.00100	1	03/26/2023 18:34	WG2030328
m&p-Xylene	U		0.000430	0.00200	1	03/26/2023 18:34	WG2030328
Xylenes, Total	U		0.000174	0.00300	1	03/26/2023 18:34	WG2030328
(S) Toluene-d8	*107*			*80.0-120*		*03/26/2023 18:34*	WG2030328
(S) 4-Bromofluorobenzene	*97.7*			*77.0-126*		*03/26/2023 18:34*	WG2030328
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*03/26/2023 18:34*	WG2030328

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	1.33		0.0247	0.100	1	03/28/2023 17:26	WG2030546
(S) o-Terphenyl	*117*			*31.0-160*		*03/28/2023 17:26*	WG2030546

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	7840		200	1	03/23/2023 23:29	WG2028853

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	2480		37.9	100	100	03/23/2023 04:18	WG2028309
Fluoride	1.03	J	0.640	1.50	10	03/22/2023 21:53	WG2028309
Nitrate	U		0.480	1.00	10	03/22/2023 21:53	WG2028309
Nitrite	U		0.420	1.00	10	03/22/2023 21:53	WG2028309
Sulfate	2430		59.4	500	100	03/23/2023 04:18	WG2028309

Sample Narrative:

L1597201-18 WG2028309: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00916		0.000180	0.00200	1	03/23/2023 15:01	WG2028248
Arsenic,Dissolved	0.00975		0.000180	0.00200	1	03/23/2023 18:21	WG2028258
Barium	0.0117		0.000381	0.00200	1	03/23/2023 15:01	WG2028248
Barium,Dissolved	0.0137		0.000381	0.00200	1	03/23/2023 18:21	WG2028258
Calcium	689		0.0936	1.00	1	03/23/2023 15:01	WG2028248
Chromium	U		0.00124	0.00200	1	03/23/2023 15:01	WG2028248
Chromium,Dissolved	U		0.00124	0.00200	1	03/23/2023 18:21	WG2028258
Iron	0.143		0.0281	0.100	1	03/23/2023 15:01	WG2028248
Iron,Dissolved	0.148		0.0281	0.100	1	03/23/2023 18:21	WG2028258
Lead	U		0.000849	0.00200	1	03/23/2023 15:01	WG2028248
Lead,Dissolved	U		0.000849	0.00200	1	03/23/2023 18:21	WG2028258
Manganese	6.52		0.000704	0.00500	1	03/23/2023 15:01	WG2028248
Manganese,Dissolved	7.48		0.000704	0.00500	1	03/23/2023 18:21	WG2028258
Potassium	9.46		0.108	2.00	1	03/23/2023 15:01	WG2028248
Selenium	U		0.000300	0.00200	1	03/23/2023 15:01	WG2028248
Selenium,Dissolved	0.000345	J	0.000300	0.00200	1	03/23/2023 18:21	WG2028258
Sodium	1490		1.88	10.0	5	03/23/2023 20:22	WG2028248

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	03/24/2023 13:05	WG2029475
(S) a,a,a-Trifluorotoluene(FID)	*110*			*78.0-120*		*03/24/2023 13:05*	WG2029475

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	03/26/2023 18:53	WG2030328
Benzene	U		0.0000941	0.00100	1	03/26/2023 18:53	WG2030328
Bromodichloromethane	U		0.000136	0.00100	1	03/26/2023 18:53	WG2030328
Bromoform	U		0.000129	0.00100	1	03/26/2023 18:53	WG2030328
Bromomethane	U		0.000605	0.00500	1	03/26/2023 18:53	WG2030328
n-Butylbenzene	U		0.000157	0.00100	1	03/26/2023 18:53	WG2030328
sec-Butylbenzene	U		0.000125	0.00100	1	03/26/2023 18:53	WG2030328
Carbon disulfide	0.000168	B J	0.0000962	0.00100	1	03/26/2023 18:53	WG2030328
Carbon tetrachloride	U		0.000128	0.00100	1	03/26/2023 18:53	WG2030328

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	03/26/2023 18:53	WG2030328
Chlorodibromomethane	U		0.000140	0.00100	1	03/26/2023 18:53	WG2030328
Chloroethane	U		0.000192	0.00500	1	03/26/2023 18:53	WG2030328
Chloroform	U		0.000111	0.00500	1	03/26/2023 18:53	WG2030328
Chloromethane	U		0.000960	0.00250	1	03/26/2023 18:53	WG2030328
1,2-Dibromoethane	U		0.000126	0.00100	1	03/26/2023 18:53	WG2030328
1,1-Dichloroethane	U		0.000100	0.00100	1	03/26/2023 18:53	WG2030328
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/26/2023 18:53	WG2030328
1,1-Dichloroethene	U		0.000188	0.00100	1	03/26/2023 18:53	WG2030328
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/26/2023 18:53	WG2030328
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/26/2023 18:53	WG2030328
1,2-Dichloropropane	U		0.000149	0.00100	1	03/26/2023 18:53	WG2030328
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/26/2023 18:53	WG2030328
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/26/2023 18:53	WG2030328
Ethylbenzene	U		0.000137	0.00100	1	03/26/2023 18:53	WG2030328
Isopropylbenzene	U		0.000105	0.00100	1	03/26/2023 18:53	WG2030328
p-Isopropyltoluene	U		0.000120	0.00100	1	03/26/2023 18:53	WG2030328
2-Butanone (MEK)	U		0.00119	0.0100	1	03/26/2023 18:53	WG2030328
2-Hexanone	U		0.000787	0.0100	1	03/26/2023 18:53	WG2030328
Methylene Chloride	U		0.000430	0.00500	1	03/26/2023 18:53	WG2030328
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/26/2023 18:53	WG2030328
Methyl tert-butyl ether	0.000523	J	0.000101	0.00100	1	03/26/2023 18:53	WG2030328
Naphthalene	U		0.00100	0.00500	1	03/26/2023 18:53	WG2030328
n-Propylbenzene	U		0.0000993	0.00100	1	03/26/2023 18:53	WG2030328
Styrene	U		0.000118	0.00100	1	03/26/2023 18:53	WG2030328
tert-Butyl alcohol	U		0.00406	0.00500	1	03/26/2023 18:53	WG2030328
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/26/2023 18:53	WG2030328
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/26/2023 18:53	WG2030328
Tetrachloroethene	U		0.000300	0.00100	1	03/26/2023 18:53	WG2030328
Toluene	U		0.000278	0.00100	1	03/26/2023 18:53	WG2030328
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/26/2023 18:53	WG2030328
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/26/2023 18:53	WG2030328
Trichloroethene	U		0.000190	0.00100	1	03/26/2023 18:53	WG2030328
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/26/2023 18:53	WG2030328
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/26/2023 18:53	WG2030328
Vinyl chloride	U		0.000234	0.00100	1	03/26/2023 18:53	WG2030328
o-Xylene	U		0.000174	0.00100	1	03/26/2023 18:53	WG2030328
m&p-Xylene	U		0.000430	0.00200	1	03/26/2023 18:53	WG2030328
Xylenes, Total	U		0.000174	0.00300	1	03/26/2023 18:53	WG2030328
(S) Toluene-d8	*105*			*80.0-120*		*03/26/2023 18:53*	WG2030328
(S) 4-Bromofluorobenzene	*99.2*			*77.0-126*		*03/26/2023 18:53*	WG2030328
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*03/26/2023 18:53*	WG2030328

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	0.581		0.0247	0.100	1	03/30/2023 18:28	WG2030546
(S) o-Terphenyl	*129*			*31.0-160*		*03/30/2023 18:28*	WG2030546

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	7080		100	1	03/23/2023 23:29	WG2028853

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	2090		37.9	100	100	03/23/2023 07:48	WG2028372
Fluoride	1.26	J	0.640	1.50	10	03/23/2023 01:21	WG2028372
Nitrate	U		0.480	1.00	10	03/23/2023 01:21	WG2028372
Nitrite	U		0.420	1.00	10	03/23/2023 01:21	WG2028372
Sulfate	2370		59.4	500	100	03/23/2023 07:48	WG2028372

Sample Narrative:

L1597201-19 WG2028372: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0257		0.000180	0.00200	1	03/23/2023 15:04	WG2028248
Arsenic,Dissolved	0.0128		0.000180	0.00200	1	03/23/2023 18:24	WG2028258
Barium	0.0153		0.000381	0.00200	1	03/23/2023 15:04	WG2028248
Barium,Dissolved	0.0157		0.000381	0.00200	1	03/23/2023 18:24	WG2028258
Calcium	359		0.0936	1.00	1	03/23/2023 15:04	WG2028248
Chromium	U		0.00124	0.00200	1	03/23/2023 15:04	WG2028248
Chromium,Dissolved	U		0.00124	0.00200	1	03/23/2023 18:24	WG2028258
Iron	5.93		0.0281	0.100	1	03/23/2023 15:04	WG2028248
Iron,Dissolved	1.67		0.0281	0.100	1	03/23/2023 18:24	WG2028258
Lead	U		0.000849	0.00200	1	03/23/2023 15:04	WG2028248
Lead,Dissolved	U		0.000849	0.00200	1	03/23/2023 18:24	WG2028258
Manganese	0.393		0.000704	0.00500	1	03/23/2023 15:04	WG2028248
Manganese,Dissolved	0.396		0.000704	0.00500	1	03/23/2023 18:24	WG2028258
Potassium	3.48		0.108	2.00	1	03/23/2023 15:04	WG2028248
Selenium	0.000828	J	0.000300	0.00200	1	03/23/2023 15:04	WG2028248
Selenium,Dissolved	0.000375	J	0.000300	0.00200	1	03/23/2023 18:24	WG2028258
Sodium	1460		1.88	10.0	5	03/23/2023 20:26	WG2028248

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	0.242		0.0314	0.100	1	03/24/2023 13:27	WG2029475
(S) a,a,a-Trifluorotoluene(FID)	*109*			*78.0-120*		*03/24/2023 13:27*	WG2029475

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	03/26/2023 19:13	WG2030328
Benzene	U		0.0000941	0.00100	1	03/26/2023 19:13	WG2030328
Bromodichloromethane	U		0.000136	0.00100	1	03/26/2023 19:13	WG2030328
Bromoform	U		0.000129	0.00100	1	03/26/2023 19:13	WG2030328
Bromomethane	U		0.000605	0.00500	1	03/26/2023 19:13	WG2030328
n-Butylbenzene	U		0.000157	0.00100	1	03/26/2023 19:13	WG2030328
sec-Butylbenzene	U		0.000125	0.00100	1	03/26/2023 19:13	WG2030328
Carbon disulfide	U		0.0000962	0.00100	1	03/26/2023 19:13	WG2030328
Carbon tetrachloride	U		0.000128	0.00100	1	03/26/2023 19:13	WG2030328

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	03/26/2023 19:13	WG2030328
Chlorodibromomethane	U		0.000140	0.00100	1	03/26/2023 19:13	WG2030328
Chloroethane	U		0.000192	0.00500	1	03/26/2023 19:13	WG2030328
Chloroform	U		0.000111	0.00500	1	03/26/2023 19:13	WG2030328
Chloromethane	U		0.000960	0.00250	1	03/26/2023 19:13	WG2030328
1,2-Dibromoethane	U		0.000126	0.00100	1	03/26/2023 19:13	WG2030328
1,1-Dichloroethane	U		0.000100	0.00100	1	03/26/2023 19:13	WG2030328
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/26/2023 19:13	WG2030328
1,1-Dichloroethene	U		0.000188	0.00100	1	03/26/2023 19:13	WG2030328
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/26/2023 19:13	WG2030328
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/26/2023 19:13	WG2030328
1,2-Dichloropropane	U		0.000149	0.00100	1	03/26/2023 19:13	WG2030328
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/26/2023 19:13	WG2030328
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/26/2023 19:13	WG2030328
Ethylbenzene	U		0.000137	0.00100	1	03/26/2023 19:13	WG2030328
Isopropylbenzene	U		0.000105	0.00100	1	03/26/2023 19:13	WG2030328
p-Isopropyltoluene	U		0.000120	0.00100	1	03/26/2023 19:13	WG2030328
2-Butanone (MEK)	U		0.00119	0.0100	1	03/26/2023 19:13	WG2030328
2-Hexanone	U		0.000787	0.0100	1	03/26/2023 19:13	WG2030328
Methylene Chloride	U		0.000430	0.00500	1	03/26/2023 19:13	WG2030328
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/26/2023 19:13	WG2030328
Methyl tert-butyl ether	0.00104		0.000101	0.00100	1	03/26/2023 19:13	WG2030328
Naphthalene	U		0.00100	0.00500	1	03/26/2023 19:13	WG2030328
n-Propylbenzene	U		0.0000993	0.00100	1	03/26/2023 19:13	WG2030328
Styrene	U		0.000118	0.00100	1	03/26/2023 19:13	WG2030328
tert-Butyl alcohol	0.00756		0.00406	0.00500	1	03/26/2023 19:13	WG2030328
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/26/2023 19:13	WG2030328
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/26/2023 19:13	WG2030328
Tetrachloroethene	U		0.000300	0.00100	1	03/26/2023 19:13	WG2030328
Toluene	U		0.000278	0.00100	1	03/26/2023 19:13	WG2030328
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/26/2023 19:13	WG2030328
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/26/2023 19:13	WG2030328
Trichloroethene	U		0.000190	0.00100	1	03/26/2023 19:13	WG2030328
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/26/2023 19:13	WG2030328
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/26/2023 19:13	WG2030328
Vinyl chloride	U		0.000234	0.00100	1	03/26/2023 19:13	WG2030328
o-Xylene	U		0.000174	0.00100	1	03/26/2023 19:13	WG2030328
m&p-Xylene	U		0.000430	0.00200	1	03/26/2023 19:13	WG2030328
Xylenes, Total	U		0.000174	0.00300	1	03/26/2023 19:13	WG2030328
(S) Toluene-d8	*104*			*80.0-120*		*03/26/2023 19:13*	WG2030328
(S) 4-Bromofluorobenzene	*100*			*77.0-126*		*03/26/2023 19:13*	WG2030328
(S) 1,2-Dichloroethane-d4	*114*			*70.0-130*		*03/26/2023 19:13*	WG2030328

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	0.734		0.0247	0.100	1	03/28/2023 18:08	WG2030546
(S) o-Terphenyl	*122*			*31.0-160*		*03/28/2023 18:08*	WG2030546

Received by OCD: 6/12/2024 3:31:05 PM

LB-LT-03
Collected date/time: 03/21/23 12:05
L1597201

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	03/23/2023 23:29	WG2028853

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	0.511	B J	0.379	1.00	1	03/23/2023 10:41	WG2028377
Fluoride	0.0768	B J	0.0640	0.150	1	03/23/2023 10:41	WG2028377
Nitrate	0.0687	J	0.0480	0.100	1	03/23/2023 10:41	WG2028377
Nitrite	U		0.0420	0.100	1	03/23/2023 10:41	WG2028377
Sulfate	0.728	J	0.594	5.00	1	03/23/2023 10:41	WG2028377

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	03/23/2023 15:07	WG2028248
Arsenic,Dissolved	U		0.000180	0.00200	1	03/23/2023 18:27	WG2028258
Barium	U		0.000381	0.00200	1	03/23/2023 15:07	WG2028248
Barium,Dissolved	U		0.000381	0.00200	1	03/23/2023 18:27	WG2028258
Calcium	0.249	J	0.0936	1.00	1	03/23/2023 15:07	WG2028248
Chromium	U		0.00124	0.00200	1	03/23/2023 15:07	WG2028248
Chromium,Dissolved	U		0.00124	0.00200	1	03/23/2023 18:27	WG2028258
Iron	U		0.0281	0.100	1	03/23/2023 15:07	WG2028248
Iron,Dissolved	U		0.0281	0.100	1	03/23/2023 18:27	WG2028258
Lead	U		0.000849	0.00200	1	03/23/2023 15:07	WG2028248
Lead,Dissolved	U		0.000849	0.00200	1	03/23/2023 18:27	WG2028258
Manganese	0.00103	B J	0.000704	0.00500	1	03/23/2023 15:07	WG2028248
Manganese,Dissolved	0.000830	J	0.000704	0.00500	1	03/23/2023 18:27	WG2028258
Potassium	U		0.108	2.00	1	03/23/2023 15:07	WG2028248
Selenium	U		0.000300	0.00200	1	03/23/2023 15:07	WG2028248
Selenium,Dissolved	U		0.000300	0.00200	1	03/23/2023 18:27	WG2028258
Sodium	0.691	B J	0.376	2.00	1	03/23/2023 15:07	WG2028248

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	03/24/2023 13:49	WG2029475
(S) a,a,a-Trifluorotoluene(FID)	*110*			*78.0-120*		*03/24/2023 13:49*	WG2029475

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	03/26/2023 19:33	WG2030328
Benzene	U		0.0000941	0.00100	1	03/26/2023 19:33	WG2030328
Bromodichloromethane	U		0.000136	0.00100	1	03/26/2023 19:33	WG2030328
Bromoform	U		0.000129	0.00100	1	03/26/2023 19:33	WG2030328
Bromomethane	U		0.000605	0.00500	1	03/26/2023 19:33	WG2030328
n-Butylbenzene	U		0.000157	0.00100	1	03/26/2023 19:33	WG2030328
sec-Butylbenzene	U		0.000125	0.00100	1	03/26/2023 19:33	WG2030328
Carbon disulfide	U		0.0000962	0.00100	1	03/26/2023 19:33	WG2030328
Carbon tetrachloride	U		0.000128	0.00100	1	03/26/2023 19:33	WG2030328
Chlorobenzene	U		0.000116	0.00100	1	03/26/2023 19:33	WG2030328
Chlorodibromomethane	U		0.000140	0.00100	1	03/26/2023 19:33	WG2030328
Chloroethane	U		0.000192	0.00500	1	03/26/2023 19:33	WG2030328

Released to Imaging: 6/28/2024 11:23:28 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
Chloroform	U		0.000111	0.00500	1	03/26/2023 19:33	WG2030328
Chloromethane	U		0.000960	0.00250	1	03/26/2023 19:33	WG2030328
1,2-Dibromoethane	U		0.000126	0.00100	1	03/26/2023 19:33	WG2030328
1,1-Dichloroethane	U		0.000100	0.00100	1	03/26/2023 19:33	WG2030328
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/26/2023 19:33	WG2030328
1,1-Dichloroethene	U		0.000188	0.00100	1	03/26/2023 19:33	WG2030328
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/26/2023 19:33	WG2030328
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/26/2023 19:33	WG2030328
1,2-Dichloropropane	U		0.000149	0.00100	1	03/26/2023 19:33	WG2030328
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/26/2023 19:33	WG2030328
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/26/2023 19:33	WG2030328
Ethylbenzene	U		0.000137	0.00100	1	03/26/2023 19:33	WG2030328
Isopropylbenzene	U		0.000105	0.00100	1	03/26/2023 19:33	WG2030328
p-Isopropyltoluene	U		0.000120	0.00100	1	03/26/2023 19:33	WG2030328
2-Butanone (MEK)	0.00460	J	0.00119	0.0100	1	03/26/2023 19:33	WG2030328
2-Hexanone	U		0.000787	0.0100	1	03/26/2023 19:33	WG2030328
Methylene Chloride	U		0.000430	0.00500	1	03/26/2023 19:33	WG2030328
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/26/2023 19:33	WG2030328
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/26/2023 19:33	WG2030328
Naphthalene	U		0.00100	0.00500	1	03/26/2023 19:33	WG2030328
n-Propylbenzene	U		0.0000993	0.00100	1	03/26/2023 19:33	WG2030328
Styrene	U		0.000118	0.00100	1	03/26/2023 19:33	WG2030328
tert-Butyl alcohol	0.00477	J	0.00406	0.00500	1	03/26/2023 19:33	WG2030328
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/26/2023 19:33	WG2030328
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/26/2023 19:33	WG2030328
Tetrachloroethene	U		0.000300	0.00100	1	03/26/2023 19:33	WG2030328
Toluene	U		0.000278	0.00100	1	03/26/2023 19:33	WG2030328
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/26/2023 19:33	WG2030328
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/26/2023 19:33	WG2030328
Trichloroethene	U		0.000190	0.00100	1	03/26/2023 19:33	WG2030328
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/26/2023 19:33	WG2030328
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/26/2023 19:33	WG2030328
Vinyl chloride	U		0.000234	0.00100	1	03/26/2023 19:33	WG2030328
o-Xylene	U		0.000174	0.00100	1	03/26/2023 19:33	WG2030328
m&p-Xylene	U		0.000430	0.00200	1	03/26/2023 19:33	WG2030328
Xylenes, Total	U		0.000174	0.00300	1	03/26/2023 19:33	WG2030328
(S) Toluene-d8	*101*			*80.0-120*		*03/26/2023 19:33*	WG2030328
(S) 4-Bromofluorobenzene	*94.9*			*77.0-126*		*03/26/2023 19:33*	WG2030328
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*		*03/26/2023 19:33*	WG2030328

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	03/28/2023 18:28	WG2030546
(S) o-Terphenyl	*118*			*31.0-160*		*03/28/2023 18:28*	WG2030546

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	03/26/2023 13:05	WG2030330
Benzene	U		0.0000941	0.00100	1	03/26/2023 13:05	WG2030330
Bromodichloromethane	U		0.000136	0.00100	1	03/26/2023 13:05	WG2030330
Bromoform	U		0.000129	0.00100	1	03/26/2023 13:05	WG2030330
Bromomethane	U		0.000605	0.00500	1	03/26/2023 13:05	WG2030330
n-Butylbenzene	U		0.000157	0.00100	1	03/26/2023 13:05	WG2030330
sec-Butylbenzene	U		0.000125	0.00100	1	03/26/2023 13:05	WG2030330
Carbon disulfide	U		0.0000962	0.00100	1	03/26/2023 13:05	WG2030330
Carbon tetrachloride	U		0.000128	0.00100	1	03/26/2023 13:05	WG2030330
Chlorobenzene	U		0.000116	0.00100	1	03/26/2023 13:05	WG2030330
Chlorodibromomethane	U		0.000140	0.00100	1	03/26/2023 13:05	WG2030330
Chloroethane	U		0.000192	0.00500	1	03/26/2023 13:05	WG2030330
Chloroform	U		0.000111	0.00500	1	03/26/2023 13:05	WG2030330
Chloromethane	U		0.000960	0.00250	1	03/26/2023 13:05	WG2030330
1,2-Dibromoethane	U		0.000126	0.00100	1	03/26/2023 13:05	WG2030330
1,1-Dichloroethane	U		0.000100	0.00100	1	03/26/2023 13:05	WG2030330
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/26/2023 13:05	WG2030330
1,1-Dichloroethene	U		0.000188	0.00100	1	03/26/2023 13:05	WG2030330
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/26/2023 13:05	WG2030330
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/26/2023 13:05	WG2030330
1,2-Dichloropropane	U		0.000149	0.00100	1	03/26/2023 13:05	WG2030330
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/26/2023 13:05	WG2030330
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/26/2023 13:05	WG2030330
Ethylbenzene	U		0.000137	0.00100	1	03/26/2023 13:05	WG2030330
Isopropylbenzene	U		0.000105	0.00100	1	03/26/2023 13:05	WG2030330
p-Isopropyltoluene	U		0.000120	0.00100	1	03/26/2023 13:05	WG2030330
2-Butanone (MEK)	U		0.00119	0.0100	1	03/26/2023 13:05	WG2030330
2-Hexanone	U		0.000787	0.0100	1	03/26/2023 13:05	WG2030330
Methylene Chloride	U		0.000430	0.00500	1	03/26/2023 13:05	WG2030330
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/26/2023 13:05	WG2030330
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/26/2023 13:05	WG2030330
Naphthalene	U	J3 J4	0.00100	0.00500	1	03/26/2023 13:05	WG2030330
n-Propylbenzene	U		0.0000993	0.00100	1	03/26/2023 13:05	WG2030330
Styrene	U		0.000118	0.00100	1	03/26/2023 13:05	WG2030330
tert-Butyl alcohol	U		0.00406	0.00500	1	03/26/2023 13:05	WG2030330
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/26/2023 13:05	WG2030330
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/26/2023 13:05	WG2030330
Tetrachloroethene	U		0.000300	0.00100	1	03/26/2023 13:05	WG2030330
Toluene	U		0.000278	0.00100	1	03/26/2023 13:05	WG2030330
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/26/2023 13:05	WG2030330
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/26/2023 13:05	WG2030330
Trichloroethene	U		0.000190	0.00100	1	03/26/2023 13:05	WG2030330
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/26/2023 13:05	WG2030330
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/26/2023 13:05	WG2030330
Vinyl chloride	U		0.000234	0.00100	1	03/26/2023 13:05	WG2030330
o-Xylene	U		0.000174	0.00100	1	03/26/2023 13:05	WG2030330
m&p-Xylene	U		0.000430	0.00200	1	03/26/2023 13:05	WG2030330
Xylenes, Total	U		0.000174	0.00300	1	03/26/2023 13:05	WG2030330
(S) Toluene-d8	*95.2*			*80.0-120*		*03/26/2023 13:05*	WG2030330
(S) 4-Bromofluorobenzene	*82.7*			*77.0-126*		*03/26/2023 13:05*	WG2030330
(S) 1,2-Dichloroethane-d4	*86.8*			*70.0-130*		*03/26/2023 13:05*	WG2030330

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	14700		200	1	03/23/2023 23:29	WG2028853

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	5740		37.9	100	100	03/23/2023 18:22	WG2028377
Fluoride	1.32	B J	0.640	1.50	10	03/23/2023 11:08	WG2028377
Nitrate	U		0.480	1.00	10	03/23/2023 11:08	WG2028377
Nitrite	2.51		0.420	1.00	10	03/23/2023 11:08	WG2028377
Sulfate	2520		59.4	500	100	03/23/2023 18:22	WG2028377

Sample Narrative:

L1597201-22 WG2028377: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00368		0.000180	0.00200	1	03/23/2023 15:11	WG2028250
Arsenic,Dissolved	0.00399		0.000180	0.00200	1	03/23/2023 18:08	WG2028258
Barium	0.0390		0.000381	0.00200	1	03/23/2023 15:11	WG2028250
Barium,Dissolved	0.0353		0.000381	0.00200	1	03/23/2023 18:08	WG2028258
Calcium	1220		0.468	5.00	5	03/23/2023 17:04	WG2028250
Chromium	0.00171	B J	0.00124	0.00200	1	03/23/2023 15:11	WG2028250
Chromium,Dissolved	U		0.00124	0.00200	1	03/23/2023 18:08	WG2028258
Iron	U		0.0281	0.100	1	03/23/2023 15:11	WG2028250
Iron,Dissolved	U		0.0281	0.100	1	03/23/2023 18:08	WG2028258
Lead	U		0.000849	0.00200	1	03/23/2023 15:11	WG2028250
Lead,Dissolved	U		0.000849	0.00200	1	03/23/2023 18:08	WG2028258
Manganese	0.741	V	0.000704	0.00500	1	03/23/2023 15:11	WG2028250
Manganese,Dissolved	0.786		0.000704	0.00500	1	03/23/2023 18:08	WG2028258
Potassium	7.53		0.108	2.00	1	03/23/2023 15:11	WG2028250
Selenium	0.000407	J	0.000300	0.00200	1	03/23/2023 15:11	WG2028250
Selenium,Dissolved	0.000551	J	0.000300	0.00200	1	03/23/2023 18:08	WG2028258
Sodium	2530		1.88	10.0	5	03/23/2023 17:04	WG2028250

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	03/26/2023 13:27	WG2030330
Benzene	U		0.0000941	0.00100	1	03/26/2023 13:27	WG2030330
Bromodichloromethane	U		0.000136	0.00100	1	03/26/2023 13:27	WG2030330
Bromoform	U		0.000129	0.00100	1	03/26/2023 13:27	WG2030330
Bromomethane	U		0.000605	0.00500	1	03/26/2023 13:27	WG2030330
n-Butylbenzene	U		0.000157	0.00100	1	03/26/2023 13:27	WG2030330
sec-Butylbenzene	U		0.000125	0.00100	1	03/26/2023 13:27	WG2030330
Carbon disulfide	U		0.0000962	0.00100	1	03/26/2023 13:27	WG2030330
Carbon tetrachloride	U		0.000128	0.00100	1	03/26/2023 13:27	WG2030330
Chlorobenzene	U		0.000116	0.00100	1	03/26/2023 13:27	WG2030330
Chlorodibromomethane	U		0.000140	0.00100	1	03/26/2023 13:27	WG2030330
Chloroethane	U		0.000192	0.00500	1	03/26/2023 13:27	WG2030330
Chloroform	U		0.000111	0.00500	1	03/26/2023 13:27	WG2030330
Chloromethane	U		0.000960	0.00250	1	03/26/2023 13:27	WG2030330
1,2-Dibromoethane	U		0.000126	0.00100	1	03/26/2023 13:27	WG2030330
1,1-Dichloroethane	U		0.000100	0.00100	1	03/26/2023 13:27	WG2030330

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	03/26/2023 13:27	WG2030330
1,1-Dichloroethene	U		0.000188	0.00100	1	03/26/2023 13:27	WG2030330
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/26/2023 13:27	WG2030330
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/26/2023 13:27	WG2030330
1,2-Dichloropropane	U		0.000149	0.00100	1	03/26/2023 13:27	WG2030330
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/26/2023 13:27	WG2030330
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/26/2023 13:27	WG2030330
Ethylbenzene	U		0.000137	0.00100	1	03/26/2023 13:27	WG2030330
Isopropylbenzene	U		0.000105	0.00100	1	03/26/2023 13:27	WG2030330
p-Isopropyltoluene	U		0.000120	0.00100	1	03/26/2023 13:27	WG2030330
2-Butanone (MEK)	U		0.00119	0.0100	1	03/26/2023 13:27	WG2030330
2-Hexanone	U		0.000787	0.0100	1	03/26/2023 13:27	WG2030330
Methylene Chloride	U		0.000430	0.00500	1	03/26/2023 13:27	WG2030330
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/26/2023 13:27	WG2030330
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/26/2023 13:27	WG2030330
Naphthalene	U	J3 J4	0.00100	0.00500	1	03/26/2023 13:27	WG2030330
n-Propylbenzene	U		0.0000993	0.00100	1	03/26/2023 13:27	WG2030330
Styrene	U		0.000118	0.00100	1	03/26/2023 13:27	WG2030330
tert-Butyl alcohol	U		0.00406	0.00500	1	03/26/2023 13:27	WG2030330
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/26/2023 13:27	WG2030330
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/26/2023 13:27	WG2030330
Tetrachloroethene	U		0.000300	0.00100	1	03/26/2023 13:27	WG2030330
Toluene	U		0.000278	0.00100	1	03/26/2023 13:27	WG2030330
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/26/2023 13:27	WG2030330
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/26/2023 13:27	WG2030330
Trichloroethene	U		0.000190	0.00100	1	03/26/2023 13:27	WG2030330
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/26/2023 13:27	WG2030330
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/26/2023 13:27	WG2030330
Vinyl chloride	U		0.000234	0.00100	1	03/26/2023 13:27	WG2030330
o-Xylene	U		0.000174	0.00100	1	03/26/2023 13:27	WG2030330
m&p-Xylene	U		0.000430	0.00200	1	03/26/2023 13:27	WG2030330
Xylenes, Total	U		0.000174	0.00300	1	03/26/2023 13:27	WG2030330
(S) Toluene-d8	*95.2*			*80.0-120*		*03/26/2023 13:27*	WG2030330
(S) 4-Bromofluorobenzene	*91.0*			*77.0-126*		*03/26/2023 13:27*	WG2030330
(S) 1,2-Dichloroethane-d4	*86.8*			*70.0-130*		*03/26/2023 13:27*	WG2030330

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	0.223		0.0247	0.100	1	03/28/2023 18:49	WG2030546
(S) o-Terphenyl	*119*			*31.0-160*		*03/28/2023 18:49*	WG2030546

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4380		100	1	03/23/2023 23:29	WG2028853

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1000		3.79	10.0	10	03/23/2023 13:08	WG2028377
Fluoride	1.35	B J	0.640	1.50	10	03/23/2023 13:08	WG2028377
Nitrate	U		0.480	1.00	10	03/23/2023 13:08	WG2028377
Nitrite	0.594	J	0.420	1.00	10	03/23/2023 13:08	WG2028377
Sulfate	1570		5.94	50.0	10	03/23/2023 13:08	WG2028377

Sample Narrative:

L1597201-23 WG2028377: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00133	J	0.000180	0.00200	1	03/23/2023 15:24	WG2028250
Arsenic,Dissolved	0.00138	J	0.000180	0.00200	1	03/23/2023 18:40	WG2028258
Barium	0.0184		0.000381	0.00200	1	03/23/2023 15:24	WG2028250
Barium,Dissolved	0.0188		0.000381	0.00200	1	03/23/2023 18:40	WG2028258
Calcium	413		0.0936	1.00	1	03/23/2023 15:24	WG2028250
Chromium	0.00146	B J	0.00124	0.00200	1	03/23/2023 15:24	WG2028250
Chromium,Dissolved	U		0.00124	0.00200	1	03/23/2023 18:40	WG2028258
Iron	1.62		0.0281	0.100	1	03/23/2023 15:24	WG2028250
Iron,Dissolved	1.71		0.0281	0.100	1	03/23/2023 18:40	WG2028258
Lead	U		0.000849	0.00200	1	03/23/2023 15:24	WG2028250
Lead,Dissolved	U		0.000849	0.00200	1	03/23/2023 18:40	WG2028258
Manganese	1.12		0.000704	0.00500	1	03/23/2023 15:24	WG2028250
Manganese,Dissolved	1.21		0.000704	0.00500	1	03/23/2023 18:40	WG2028258
Potassium	3.45		0.108	2.00	1	03/23/2023 15:24	WG2028250
Selenium	U		0.000300	0.00200	1	03/23/2023 15:24	WG2028250
Selenium,Dissolved	U		0.000300	0.00200	1	03/23/2023 18:40	WG2028258
Sodium	629		0.376	2.00	1	03/23/2023 15:24	WG2028250

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	03/26/2023 13:48	WG2030330
Benzene	U		0.0000941	0.00100	1	03/26/2023 13:48	WG2030330
Bromodichloromethane	U		0.000136	0.00100	1	03/26/2023 13:48	WG2030330
Bromoform	U		0.000129	0.00100	1	03/26/2023 13:48	WG2030330
Bromomethane	U		0.000605	0.00500	1	03/26/2023 13:48	WG2030330
n-Butylbenzene	U		0.000157	0.00100	1	03/26/2023 13:48	WG2030330
sec-Butylbenzene	U		0.000125	0.00100	1	03/26/2023 13:48	WG2030330
Carbon disulfide	0.000119	J	0.0000962	0.00100	1	03/26/2023 13:48	WG2030330
Carbon tetrachloride	U		0.000128	0.00100	1	03/26/2023 13:48	WG2030330
Chlorobenzene	U		0.000116	0.00100	1	03/26/2023 13:48	WG2030330
Chlorodibromomethane	U		0.000140	0.00100	1	03/26/2023 13:48	WG2030330
Chloroethane	U		0.000192	0.00500	1	03/26/2023 13:48	WG2030330
Chloroform	U		0.000111	0.00500	1	03/26/2023 13:48	WG2030330
Chloromethane	U		0.000960	0.00250	1	03/26/2023 13:48	WG2030330
1,2-Dibromoethane	U		0.000126	0.00100	1	03/26/2023 13:48	WG2030330
1,1-Dichloroethane	U		0.000100	0.00100	1	03/26/2023 13:48	WG2030330

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	03/26/2023 13:48	WG2030330
1,1-Dichloroethene	U		0.000188	0.00100	1	03/26/2023 13:48	WG2030330
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/26/2023 13:48	WG2030330
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/26/2023 13:48	WG2030330
1,2-Dichloropropane	U		0.000149	0.00100	1	03/26/2023 13:48	WG2030330
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/26/2023 13:48	WG2030330
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/26/2023 13:48	WG2030330
Ethylbenzene	U		0.000137	0.00100	1	03/26/2023 13:48	WG2030330
Isopropylbenzene	U		0.000105	0.00100	1	03/26/2023 13:48	WG2030330
p-Isopropyltoluene	U		0.000120	0.00100	1	03/26/2023 13:48	WG2030330
2-Butanone (MEK)	U		0.00119	0.0100	1	03/26/2023 13:48	WG2030330
2-Hexanone	U		0.000787	0.0100	1	03/26/2023 13:48	WG2030330
Methylene Chloride	U		0.000430	0.00500	1	03/26/2023 13:48	WG2030330
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/26/2023 13:48	WG2030330
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/26/2023 13:48	WG2030330
Naphthalene	U	J3 J4	0.00100	0.00500	1	03/26/2023 13:48	WG2030330
n-Propylbenzene	U		0.0000993	0.00100	1	03/26/2023 13:48	WG2030330
Styrene	U		0.000118	0.00100	1	03/26/2023 13:48	WG2030330
tert-Butyl alcohol	U		0.00406	0.00500	1	03/26/2023 13:48	WG2030330
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/26/2023 13:48	WG2030330
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/26/2023 13:48	WG2030330
Tetrachloroethene	U		0.000300	0.00100	1	03/26/2023 13:48	WG2030330
Toluene	U		0.000278	0.00100	1	03/26/2023 13:48	WG2030330
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/26/2023 13:48	WG2030330
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/26/2023 13:48	WG2030330
Trichloroethene	U		0.000190	0.00100	1	03/26/2023 13:48	WG2030330
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/26/2023 13:48	WG2030330
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/26/2023 13:48	WG2030330
Vinyl chloride	U		0.000234	0.00100	1	03/26/2023 13:48	WG2030330
o-Xylene	U		0.000174	0.00100	1	03/26/2023 13:48	WG2030330
m&p-Xylene	U		0.000430	0.00200	1	03/26/2023 13:48	WG2030330
Xylenes, Total	U		0.000174	0.00300	1	03/26/2023 13:48	WG2030330
(S) Toluene-d8	*97.5*			*80.0-120*		*03/26/2023 13:48*	WG2030330
(S) 4-Bromofluorobenzene	*84.0*			*77.0-126*		*03/26/2023 13:48*	WG2030330
(S) 1,2-Dichloroethane-d4	*87.6*			*70.0-130*		*03/26/2023 13:48*	WG2030330

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	0.0483	J	0.0247	0.100	1	03/28/2023 19:10	WG2030546
(S) o-Terphenyl	*122*			*31.0-160*		*03/28/2023 19:10*	WG2030546

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	5030		100	1	03/23/2023 23:29	WG2028853

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	1390		3.79	10.0	10	03/23/2023 14:29	WG2028377
Fluoride	2.85	B	0.640	1.50	10	03/23/2023 14:29	WG2028377
Nitrate	4.21	Q	0.480	1.00	10	03/23/2023 14:29	WG2028377
Nitrite	0.845	J Q	0.420	1.00	10	03/23/2023 14:29	WG2028377
Sulfate	1910		59.4	500	100	03/23/2023 18:49	WG2028377

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0246		0.000180	0.00200	1	03/23/2023 15:27	WG2028250
Arsenic,Dissolved	0.0239		0.000180	0.00200	1	03/23/2023 18:44	WG2028258
Barium	0.0162		0.000381	0.00200	1	03/23/2023 15:27	WG2028250
Barium,Dissolved	0.0165		0.000381	0.00200	1	03/23/2023 18:44	WG2028258
Calcium	587		0.0936	1.00	1	03/23/2023 15:27	WG2028250
Chromium	U		0.00124	0.00200	1	03/23/2023 15:27	WG2028250
Chromium,Dissolved	U		0.00124	0.00200	1	03/23/2023 18:44	WG2028258
Iron	0.0656	J	0.0281	0.100	1	03/23/2023 15:27	WG2028250
Iron,Dissolved	U		0.0281	0.100	1	03/23/2023 18:44	WG2028258
Lead	U		0.000849	0.00200	1	03/23/2023 15:27	WG2028250
Lead,Dissolved	U		0.000849	0.00200	1	03/23/2023 18:44	WG2028258
Manganese	0.0453		0.000704	0.00500	1	03/23/2023 15:27	WG2028250
Manganese,Dissolved	0.0325		0.000704	0.00500	1	03/23/2023 18:44	WG2028258
Potassium	4.89		0.108	2.00	1	03/23/2023 15:27	WG2028250
Selenium	0.000963	J	0.000300	0.00200	1	03/23/2023 15:27	WG2028250
Selenium,Dissolved	0.000955	J	0.000300	0.00200	1	03/23/2023 18:44	WG2028258
Sodium	822		0.376	2.00	1	03/23/2023 15:27	WG2028250

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	03/24/2023 14:11	WG2029475
(S) a,a,a-Trifluorotoluene(FID)	*108*			*78.0-120*		*03/24/2023 14:11*	WG2029475

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	03/26/2023 14:10	WG2030330
Benzene	U		0.0000941	0.00100	1	03/26/2023 14:10	WG2030330
Bromodichloromethane	U		0.000136	0.00100	1	03/26/2023 14:10	WG2030330
Bromoform	U		0.000129	0.00100	1	03/26/2023 14:10	WG2030330
Bromomethane	U		0.000605	0.00500	1	03/26/2023 14:10	WG2030330
n-Butylbenzene	U		0.000157	0.00100	1	03/26/2023 14:10	WG2030330
sec-Butylbenzene	U		0.000125	0.00100	1	03/26/2023 14:10	WG2030330
Carbon disulfide	U		0.0000962	0.00100	1	03/26/2023 14:10	WG2030330
Carbon tetrachloride	U		0.000128	0.00100	1	03/26/2023 14:10	WG2030330
Chlorobenzene	U		0.000116	0.00100	1	03/26/2023 14:10	WG2030330
Chlorodibromomethane	U		0.000140	0.00100	1	03/26/2023 14:10	WG2030330
Chloroethane	U		0.000192	0.00500	1	03/26/2023 14:10	WG2030330

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloroform	0.000112	J	0.000111	0.00500	1	03/26/2023 14:10	WG2030330
Chloromethane	U		0.000960	0.00250	1	03/26/2023 14:10	WG2030330
1,2-Dibromoethane	U		0.000126	0.00100	1	03/26/2023 14:10	WG2030330
1,1-Dichloroethane	U		0.000100	0.00100	1	03/26/2023 14:10	WG2030330
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/26/2023 14:10	WG2030330
1,1-Dichloroethene	U		0.000188	0.00100	1	03/26/2023 14:10	WG2030330
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/26/2023 14:10	WG2030330
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/26/2023 14:10	WG2030330
1,2-Dichloropropane	U		0.000149	0.00100	1	03/26/2023 14:10	WG2030330
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/26/2023 14:10	WG2030330
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/26/2023 14:10	WG2030330
Ethylbenzene	U		0.000137	0.00100	1	03/26/2023 14:10	WG2030330
Isopropylbenzene	U		0.000105	0.00100	1	03/26/2023 14:10	WG2030330
p-Isopropyltoluene	U		0.000120	0.00100	1	03/26/2023 14:10	WG2030330
2-Butanone (MEK)	U		0.00119	0.0100	1	03/26/2023 14:10	WG2030330
2-Hexanone	U		0.000787	0.0100	1	03/26/2023 14:10	WG2030330
Methylene Chloride	U		0.000430	0.00500	1	03/26/2023 14:10	WG2030330
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/26/2023 14:10	WG2030330
Methyl tert-butyl ether	0.000139	J	0.000101	0.00100	1	03/26/2023 14:10	WG2030330
Naphthalene	U	J3 J4	0.00100	0.00500	1	03/26/2023 14:10	WG2030330
n-Propylbenzene	U		0.0000993	0.00100	1	03/26/2023 14:10	WG2030330
Styrene	U		0.000118	0.00100	1	03/26/2023 14:10	WG2030330
tert-Butyl alcohol	U		0.00406	0.00500	1	03/26/2023 14:10	WG2030330
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/26/2023 14:10	WG2030330
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/26/2023 14:10	WG2030330
Tetrachloroethene	U		0.000300	0.00100	1	03/26/2023 14:10	WG2030330
Toluene	U		0.000278	0.00100	1	03/26/2023 14:10	WG2030330
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/26/2023 14:10	WG2030330
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/26/2023 14:10	WG2030330
Trichloroethene	U		0.000190	0.00100	1	03/26/2023 14:10	WG2030330
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/26/2023 14:10	WG2030330
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/26/2023 14:10	WG2030330
Vinyl chloride	U		0.000234	0.00100	1	03/26/2023 14:10	WG2030330
o-Xylene	U		0.000174	0.00100	1	03/26/2023 14:10	WG2030330
m&p-Xylene	U		0.000430	0.00200	1	03/26/2023 14:10	WG2030330
Xylenes, Total	U		0.000174	0.00300	1	03/26/2023 14:10	WG2030330
(S) Toluene-d8	*95.3*			*80.0-120*		*03/26/2023 14:10*	WG2030330
(S) 4-Bromofluorobenzene	*88.3*			*77.0-126*		*03/26/2023 14:10*	WG2030330
(S) 1,2-Dichloroethane-d4	*83.7*			*70.0-130*		*03/26/2023 14:10*	WG2030330

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	0.377		0.0247	0.100	1	03/28/2023 19:31	WG2030546
(S) o-Terphenyl	*128*			*31.0-160*		*03/28/2023 19:31*	WG2030546

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	12300		200	1	03/23/2023 23:29	WG2028853

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	3580		37.9	100	100	03/23/2023 02:26	WG2028309
Fluoride	1.73		0.640	1.50	10	03/22/2023 20:01	WG2028309
Nitrate	U		0.480	1.00	10	03/22/2023 20:01	WG2028309
Nitrite	U		0.420	1.00	10	03/22/2023 20:01	WG2028309
Sulfate	4050		59.4	500	100	03/23/2023 02:26	WG2028309

Sample Narrative:

L1597201-25 WG2028309: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00439		0.000180	0.00200	1	03/23/2023 15:31	WG2028250
Arsenic,Dissolved	0.00458		0.000180	0.00200	1	03/23/2023 18:47	WG2028258
Barium	0.0137		0.000381	0.00200	1	03/23/2023 15:31	WG2028250
Barium,Dissolved	0.0151		0.000381	0.00200	1	03/23/2023 18:47	WG2028258
Calcium	623		0.0936	1.00	1	03/23/2023 15:31	WG2028250
Chromium	U		0.00124	0.00200	1	03/23/2023 15:31	WG2028250
Chromium,Dissolved	U		0.00124	0.00200	1	03/23/2023 18:47	WG2028258
Iron	U		0.0281	0.100	1	03/23/2023 15:31	WG2028250
Iron,Dissolved	0.0502	J	0.0281	0.100	1	03/23/2023 18:47	WG2028258
Lead	U		0.000849	0.00200	1	03/23/2023 15:31	WG2028250
Lead,Dissolved	U		0.000849	0.00200	1	03/23/2023 18:47	WG2028258
Manganese	0.0301		0.000704	0.00500	1	03/23/2023 15:31	WG2028250
Manganese,Dissolved	0.0285		0.000704	0.00500	1	03/23/2023 18:47	WG2028258
Potassium	20.7		0.108	2.00	1	03/23/2023 15:31	WG2028250
Selenium	U		0.000300	0.00200	1	03/23/2023 15:31	WG2028250
Selenium,Dissolved	0.000384	J	0.000300	0.00200	1	03/23/2023 18:47	WG2028258
Sodium	2500		1.88	10.0	5	03/23/2023 17:07	WG2028250

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	03/24/2023 14:33	WG2029475
(S) a,a,a-Trifluorotoluene(FID)	*109*			*78.0-120*		*03/24/2023 14:33*	WG2029475

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	03/26/2023 14:32	WG2030330
Benzene	U		0.0000941	0.00100	1	03/26/2023 14:32	WG2030330
Bromodichloromethane	U		0.000136	0.00100	1	03/26/2023 14:32	WG2030330
Bromoform	U		0.000129	0.00100	1	03/26/2023 14:32	WG2030330
Bromomethane	U		0.000605	0.00500	1	03/26/2023 14:32	WG2030330
n-Butylbenzene	U		0.000157	0.00100	1	03/26/2023 14:32	WG2030330
sec-Butylbenzene	U		0.000125	0.00100	1	03/26/2023 14:32	WG2030330
Carbon disulfide	U		0.0000962	0.00100	1	03/26/2023 14:32	WG2030330
Carbon tetrachloride	U		0.000128	0.00100	1	03/26/2023 14:32	WG2030330

MW-67
Collected date/time: 03/21/23 08:40
L1597201

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	03/26/2023 14:32	WG2030330
Chlorodibromomethane	U		0.000140	0.00100	1	03/26/2023 14:32	WG2030330
Chloroethane	U		0.000192	0.00500	1	03/26/2023 14:32	WG2030330
Chloroform	U		0.000111	0.00500	1	03/26/2023 14:32	WG2030330
Chloromethane	U		0.000960	0.00250	1	03/26/2023 14:32	WG2030330
1,2-Dibromoethane	U		0.000126	0.00100	1	03/26/2023 14:32	WG2030330
1,1-Dichloroethane	U		0.000100	0.00100	1	03/26/2023 14:32	WG2030330
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/26/2023 14:32	WG2030330
1,1-Dichloroethene	U		0.000188	0.00100	1	03/26/2023 14:32	WG2030330
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/26/2023 14:32	WG2030330
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/26/2023 14:32	WG2030330
1,2-Dichloropropane	U		0.000149	0.00100	1	03/26/2023 14:32	WG2030330
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/26/2023 14:32	WG2030330
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/26/2023 14:32	WG2030330
Ethylbenzene	U		0.000137	0.00100	1	03/26/2023 14:32	WG2030330
Isopropylbenzene	U		0.000105	0.00100	1	03/26/2023 14:32	WG2030330
p-Isopropyltoluene	U		0.000120	0.00100	1	03/26/2023 14:32	WG2030330
2-Butanone (MEK)	U		0.00119	0.0100	1	03/26/2023 14:32	WG2030330
2-Hexanone	U		0.000787	0.0100	1	03/26/2023 14:32	WG2030330
Methylene Chloride	U		0.000430	0.00500	1	03/26/2023 14:32	WG2030330
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/26/2023 14:32	WG2030330
Methyl tert-butyl ether	0.000455	J	0.000101	0.00100	1	03/26/2023 14:32	WG2030330
Naphthalene	U	J3 J4	0.00100	0.00500	1	03/26/2023 14:32	WG2030330
n-Propylbenzene	U		0.0000993	0.00100	1	03/26/2023 14:32	WG2030330
Styrene	U		0.000118	0.00100	1	03/26/2023 14:32	WG2030330
tert-Butyl alcohol	U		0.00406	0.00500	1	03/26/2023 14:32	WG2030330
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/26/2023 14:32	WG2030330
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/26/2023 14:32	WG2030330
Tetrachloroethene	U		0.000300	0.00100	1	03/26/2023 14:32	WG2030330
Toluene	U		0.000278	0.00100	1	03/26/2023 14:32	WG2030330
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/26/2023 14:32	WG2030330
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/26/2023 14:32	WG2030330
Trichloroethene	U		0.000190	0.00100	1	03/26/2023 14:32	WG2030330
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/26/2023 14:32	WG2030330
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/26/2023 14:32	WG2030330
Vinyl chloride	U		0.000234	0.00100	1	03/26/2023 14:32	WG2030330
o-Xylene	U		0.000174	0.00100	1	03/26/2023 14:32	WG2030330
m&p-Xylene	U		0.000430	0.00200	1	03/26/2023 14:32	WG2030330
Xylenes, Total	U		0.000174	0.00300	1	03/26/2023 14:32	WG2030330
(S) Toluene-d8	*96.3*			*80.0-120*		*03/26/2023 14:32*	WG2030330
(S) 4-Bromofluorobenzene	*82.5*			*77.0-126*		*03/26/2023 14:32*	WG2030330
(S) 1,2-Dichloroethane-d4	*89.7*			*70.0-130*		*03/26/2023 14:32*	WG2030330

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	0.363		0.0247	0.100	1	03/30/2023 18:06	WG2030546
(S) o-Terphenyl	*151*			*31.0-160*		*03/30/2023 18:06*	WG2030546

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	16700		400	1	03/23/2023 23:29	WG2028853

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	03/27/2023 11:01	WG2028782

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	4990		37.9	100	100	03/23/2023 04:33	WG2028309
Fluoride	2.47		0.640	1.50	10	03/22/2023 22:09	WG2028309
Nitrate	U		0.480	1.00	10	03/22/2023 22:09	WG2028309
Nitrite	U		0.420	1.00	10	03/22/2023 22:09	WG2028309
Sulfate	4860		59.4	500	100	03/23/2023 04:33	WG2028309

Sample Narrative:

L1597201-26 WG2028309: Dilution due to matrix.

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	03/25/2023 10:29	WG2028364
Mercury,Dissolved	U		0.000100	0.000200	1	03/25/2023 11:16	WG2028366

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Boron	1.96		0.0200	0.200	1	03/23/2023 22:59	WG2028566
Boron,Dissolved	1.86		0.0200	0.200	1	03/23/2023 23:07	WG2028556

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00461		0.000180	0.00200	1	03/23/2023 15:34	WG2028250
Arsenic,Dissolved	0.00481		0.000180	0.00200	1	03/23/2023 18:50	WG2028258
Barium	0.0160		0.000381	0.00200	1	03/23/2023 15:34	WG2028250
Barium,Dissolved	0.0164		0.000381	0.00200	1	03/23/2023 18:50	WG2028258
Cadmium	U		0.000150	0.00100	1	03/23/2023 15:34	WG2028250
Cadmium,Dissolved	U		0.000150	0.00100	1	03/23/2023 18:50	WG2028258
Calcium	629		0.0936	1.00	1	03/23/2023 15:34	WG2028250
Chromium	0.00135	B J	0.00124	0.00200	1	03/23/2023 15:34	WG2028250
Chromium,Dissolved	U		0.00124	0.00200	1	03/23/2023 18:50	WG2028258
Cobalt	0.000424	J	0.0000596	0.00200	1	03/23/2023 15:34	WG2028250
Cobalt,Dissolved	0.000453	J	0.0000596	0.00200	1	03/23/2023 18:50	WG2028258
Iron	0.0362	J	0.0281	0.100	1	03/23/2023 15:34	WG2028250
Iron,Dissolved	U		0.0281	0.100	1	03/23/2023 18:50	WG2028258
Lead	U		0.000849	0.00200	1	03/23/2023 15:34	WG2028250
Lead,Dissolved	U		0.00424	0.0100	5	03/23/2023 20:20	WG2028258
Manganese	0.0594		0.000704	0.00500	1	03/23/2023 15:34	WG2028250
Manganese,Dissolved	0.0680		0.000704	0.00500	1	03/23/2023 18:50	WG2028258
Nickel	0.00995		0.000816	0.00200	1	03/23/2023 15:34	WG2028250
Nickel,Dissolved	0.0101		0.000816	0.00200	1	03/23/2023 18:50	WG2028258

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Potassium	36.8		0.108	2.00	1	03/23/2023 15:34	WG2028250
Selenium	0.000796	J	0.000300	0.00200	1	03/23/2023 15:34	WG2028250
Selenium,Dissolved	0.000690	J	0.000300	0.00200	1	03/23/2023 18:50	WG2028258
Sodium	3400		1.88	10.0	5	03/23/2023 17:11	WG2028250
Uranium	0.0244		0.0000789	0.00100	1	03/23/2023 15:34	WG2028250
Uranium,Dissolved	0.0237		0.000394	0.00500	5	03/23/2023 20:20	WG2028258
Vanadium	U		0.000664	0.00500	1	03/23/2023 15:34	WG2028250
Vanadium,Dissolved	0.00121	J	0.000664	0.00500	1	03/23/2023 18:50	WG2028258

Sample Narrative:

L1597201-26 WG2028258: Dilution due to matrix.

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	03/26/2023 14:54	WG2030330
Benzene	U		0.0000941	0.00100	1	03/26/2023 14:54	WG2030330
Bromodichloromethane	U		0.000136	0.00100	1	03/26/2023 14:54	WG2030330
Bromoform	U		0.000129	0.00100	1	03/26/2023 14:54	WG2030330
Bromomethane	U		0.000605	0.00500	1	03/26/2023 14:54	WG2030330
n-Butylbenzene	U		0.000157	0.00100	1	03/26/2023 14:54	WG2030330
sec-Butylbenzene	U		0.000125	0.00100	1	03/26/2023 14:54	WG2030330
Carbon disulfide	U		0.0000962	0.00100	1	03/26/2023 14:54	WG2030330
Carbon tetrachloride	U		0.000128	0.00100	1	03/26/2023 14:54	WG2030330
Chlorobenzene	U		0.000116	0.00100	1	03/26/2023 14:54	WG2030330
Chlorodibromomethane	U		0.000140	0.00100	1	03/26/2023 14:54	WG2030330
Chloroethane	U		0.000192	0.00500	1	03/26/2023 14:54	WG2030330
Chloroform	U		0.000111	0.00500	1	03/26/2023 14:54	WG2030330
Chloromethane	U		0.000960	0.00250	1	03/26/2023 14:54	WG2030330
1,2-Dibromoethane	U		0.000126	0.00100	1	03/26/2023 14:54	WG2030330
1,1-Dichloroethane	U		0.000100	0.00100	1	03/26/2023 14:54	WG2030330
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/26/2023 14:54	WG2030330
1,1-Dichloroethene	U		0.000188	0.00100	1	03/26/2023 14:54	WG2030330
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/26/2023 14:54	WG2030330
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/26/2023 14:54	WG2030330
1,2-Dichloropropane	U		0.000149	0.00100	1	03/26/2023 14:54	WG2030330
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/26/2023 14:54	WG2030330
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/26/2023 14:54	WG2030330
Ethylbenzene	U		0.000137	0.00100	1	03/26/2023 14:54	WG2030330
Isopropylbenzene	U		0.000105	0.00100	1	03/26/2023 14:54	WG2030330
p-Isopropyltoluene	U		0.000120	0.00100	1	03/26/2023 14:54	WG2030330
2-Butanone (MEK)	U		0.00119	0.0100	1	03/26/2023 14:54	WG2030330
2-Hexanone	U		0.000787	0.0100	1	03/26/2023 14:54	WG2030330
Methylene Chloride	U		0.000430	0.00500	1	03/26/2023 14:54	WG2030330
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/26/2023 14:54	WG2030330
Methyl tert-butyl ether	0.000779	J	0.000101	0.00100	1	03/26/2023 14:54	WG2030330
Naphthalene	U	J3 J4	0.00100	0.00500	1	03/26/2023 14:54	WG2030330
n-Propylbenzene	U		0.0000993	0.00100	1	03/26/2023 14:54	WG2030330
Styrene	U		0.000118	0.00100	1	03/26/2023 14:54	WG2030330
tert-Butyl alcohol	U		0.00406	0.00500	1	03/26/2023 14:54	WG2030330
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/26/2023 14:54	WG2030330
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/26/2023 14:54	WG2030330
Tetrachloroethene	U		0.000300	0.00100	1	03/26/2023 14:54	WG2030330
Toluene	U		0.000278	0.00100	1	03/26/2023 14:54	WG2030330
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/26/2023 14:54	WG2030330
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/26/2023 14:54	WG2030330

MW-18A
Collected date/time: 03/21/23 09:25
L1597201

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Trichloroethene	U		0.000190	0.00100	1	03/26/2023 14:54	WG2030330
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/26/2023 14:54	WG2030330
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/26/2023 14:54	WG2030330
Vinyl chloride	U		0.000234	0.00100	1	03/26/2023 14:54	WG2030330
o-Xylene	U		0.000174	0.00100	1	03/26/2023 14:54	WG2030330
m&p-Xylene	U		0.000430	0.00200	1	03/26/2023 14:54	WG2030330
Xylenes, Total	U		0.000174	0.00300	1	03/26/2023 14:54	WG2030330
(S) Toluene-d8	*103*			*80.0-120*		*03/26/2023 14:54*	WG2030330
(S) 4-Bromofluorobenzene	*90.6*			*77.0-126*		*03/26/2023 14:54*	WG2030330
(S) 1,2-Dichloroethane-d4	*89.5*			*70.0-130*		*03/26/2023 14:54*	WG2030330

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	0.331		0.0247	0.100	1	03/28/2023 20:12	WG2030546
(S) o-Terphenyl	*116*			*31.0-160*		*03/28/2023 20:12*	WG2030546

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3730		100	1	03/23/2023 23:29	WG2028853

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	849		3.79	10.0	10	03/22/2023 21:05	WG2028309
Fluoride	0.984	J	0.640	1.50	10	03/22/2023 21:05	WG2028309
Nitrate	U		0.480	1.00	10	03/22/2023 21:05	WG2028309
Nitrite	U		0.420	1.00	10	03/22/2023 21:05	WG2028309
Sulfate	1840		5.94	50.0	10	03/22/2023 21:05	WG2028309

Sample Narrative:

L1597201-27 WG2028309: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00844		0.000180	0.00200	1	03/23/2023 15:57	WG2028250
Arsenic,Dissolved	0.00912		0.000180	0.00200	1	03/23/2023 18:53	WG2028258
Barium	0.0114		0.000381	0.00200	1	03/23/2023 15:57	WG2028250
Barium,Dissolved	0.0126		0.000381	0.00200	1	03/23/2023 18:53	WG2028258
Calcium	550		0.0936	1.00	1	03/23/2023 15:57	WG2028250
Chromium	U		0.00124	0.00200	1	03/23/2023 15:57	WG2028250
Chromium,Dissolved	U		0.00124	0.00200	1	03/23/2023 18:53	WG2028258
Iron	0.0449	J	0.0281	0.100	1	03/23/2023 15:57	WG2028250
Iron,Dissolved	0.0380	J	0.0281	0.100	1	03/23/2023 18:53	WG2028258
Lead	U		0.000849	0.00200	1	03/23/2023 15:57	WG2028250
Lead,Dissolved	U		0.000849	0.00200	1	03/23/2023 18:53	WG2028258
Manganese	1.02		0.000704	0.00500	1	03/23/2023 15:57	WG2028250
Manganese,Dissolved	1.16		0.000704	0.00500	1	03/23/2023 18:53	WG2028258
Potassium	5.64		0.108	2.00	1	03/23/2023 15:57	WG2028250
Selenium	U		0.000300	0.00200	1	03/23/2023 15:57	WG2028250
Selenium,Dissolved	U		0.000300	0.00200	1	03/23/2023 18:53	WG2028258
Sodium	460		0.376	2.00	1	03/23/2023 15:57	WG2028250

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	03/24/2023 14:55	WG2029475
(S) a,a,a-Trifluorotoluene(FID)	*107*			*78.0-120*		*03/24/2023 14:55*	WG2029475

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	03/26/2023 15:16	WG2030330
Benzene	U		0.0000941	0.00100	1	03/26/2023 15:16	WG2030330
Bromodichloromethane	U		0.000136	0.00100	1	03/26/2023 15:16	WG2030330
Bromoform	U		0.000129	0.00100	1	03/26/2023 15:16	WG2030330
Bromomethane	U		0.000605	0.00500	1	03/26/2023 15:16	WG2030330
n-Butylbenzene	U		0.000157	0.00100	1	03/26/2023 15:16	WG2030330
sec-Butylbenzene	U		0.000125	0.00100	1	03/26/2023 15:16	WG2030330
Carbon disulfide	U		0.0000962	0.00100	1	03/26/2023 15:16	WG2030330
Carbon tetrachloride	U		0.000128	0.00100	1	03/26/2023 15:16	WG2030330

MW-18B
Collected date/time: 03/21/23 10:05
L1597201

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	03/26/2023 15:16	WG2030330
Chlorodibromomethane	U		0.000140	0.00100	1	03/26/2023 15:16	WG2030330
Chloroethane	U		0.000192	0.00500	1	03/26/2023 15:16	WG2030330
Chloroform	U		0.000111	0.00500	1	03/26/2023 15:16	WG2030330
Chloromethane	U		0.000960	0.00250	1	03/26/2023 15:16	WG2030330
1,2-Dibromoethane	U		0.000126	0.00100	1	03/26/2023 15:16	WG2030330
1,1-Dichloroethane	U		0.000100	0.00100	1	03/26/2023 15:16	WG2030330
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/26/2023 15:16	WG2030330
1,1-Dichloroethene	U		0.000188	0.00100	1	03/26/2023 15:16	WG2030330
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/26/2023 15:16	WG2030330
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/26/2023 15:16	WG2030330
1,2-Dichloropropane	U		0.000149	0.00100	1	03/26/2023 15:16	WG2030330
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/26/2023 15:16	WG2030330
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/26/2023 15:16	WG2030330
Ethylbenzene	U		0.000137	0.00100	1	03/26/2023 15:16	WG2030330
Isopropylbenzene	U		0.000105	0.00100	1	03/26/2023 15:16	WG2030330
p-Isopropyltoluene	U		0.000120	0.00100	1	03/26/2023 15:16	WG2030330
2-Butanone (MEK)	U		0.00119	0.0100	1	03/26/2023 15:16	WG2030330
2-Hexanone	U		0.000787	0.0100	1	03/26/2023 15:16	WG2030330
Methylene Chloride	U		0.000430	0.00500	1	03/26/2023 15:16	WG2030330
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/26/2023 15:16	WG2030330
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/26/2023 15:16	WG2030330
Naphthalene	U	J3 J4	0.00100	0.00500	1	03/26/2023 15:16	WG2030330
n-Propylbenzene	U		0.0000993	0.00100	1	03/26/2023 15:16	WG2030330
Styrene	U		0.000118	0.00100	1	03/26/2023 15:16	WG2030330
tert-Butyl alcohol	U		0.00406	0.00500	1	03/26/2023 15:16	WG2030330
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/26/2023 15:16	WG2030330
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/26/2023 15:16	WG2030330
Tetrachloroethene	U		0.000300	0.00100	1	03/26/2023 15:16	WG2030330
Toluene	U		0.000278	0.00100	1	03/26/2023 15:16	WG2030330
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/26/2023 15:16	WG2030330
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/26/2023 15:16	WG2030330
Trichloroethene	U		0.000190	0.00100	1	03/26/2023 15:16	WG2030330
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/26/2023 15:16	WG2030330
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/26/2023 15:16	WG2030330
Vinyl chloride	U		0.000234	0.00100	1	03/26/2023 15:16	WG2030330
o-Xylene	U		0.000174	0.00100	1	03/26/2023 15:16	WG2030330
m&p-Xylene	U		0.000430	0.00200	1	03/26/2023 15:16	WG2030330
Xylenes, Total	U		0.000174	0.00300	1	03/26/2023 15:16	WG2030330
(S) Toluene-d8	*95.2*			*80.0-120*		*03/26/2023 15:16*	WG2030330
(S) 4-Bromofluorobenzene	*90.2*			*77.0-126*		*03/26/2023 15:16*	WG2030330
(S) 1,2-Dichloroethane-d4	*89.1*			*70.0-130*		*03/26/2023 15:16*	WG2030330

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	0.310		0.0247	0.100	1	03/30/2023 23:34	WG2030546
(S) o-Terphenyl	*148*			*31.0-160*		*03/30/2023 23:34*	WG2030546

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	4660		100	1	03/23/2023 23:29	WG2028853

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	1250		3.79	10.0	10	03/23/2023 01:42	WG2028372
Fluoride	U		0.640	1.50	10	03/23/2023 01:42	WG2028372
Nitrate	U		0.480	1.00	10	03/23/2023 01:42	WG2028372
Nitrite	U		0.420	1.00	10	03/23/2023 01:42	WG2028372
Sulfate	2130		59.4	500	100	03/23/2023 08:04	WG2028372

Sample Narrative:

L1597201-28 WG2028372: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0169		0.000180	0.00200	1	03/23/2023 16:00	WG2028250
Arsenic,Dissolved	0.0153		0.000180	0.00200	1	03/23/2023 18:57	WG2028258
Barium	0.0139		0.000381	0.00200	1	03/23/2023 16:00	WG2028250
Barium,Dissolved	0.0150		0.000381	0.00200	1	03/23/2023 18:57	WG2028258
Calcium	650		0.0936	1.00	1	03/23/2023 16:00	WG2028250
Chromium	0.00155	B J	0.00124	0.00200	1	03/23/2023 16:00	WG2028250
Chromium,Dissolved	U		0.00124	0.00200	1	03/23/2023 18:57	WG2028258
Iron	3.19		0.0281	0.100	1	03/23/2023 16:00	WG2028250
Iron,Dissolved	0.202		0.0281	0.100	1	03/23/2023 18:57	WG2028258
Lead	U		0.000849	0.00200	1	03/23/2023 16:00	WG2028250
Lead,Dissolved	U		0.000849	0.00200	1	03/23/2023 18:57	WG2028258
Manganese	0.157		0.000704	0.00500	1	03/23/2023 16:00	WG2028250
Manganese,Dissolved	0.0978		0.000704	0.00500	1	03/23/2023 18:57	WG2028258
Potassium	4.79		0.108	2.00	1	03/23/2023 16:00	WG2028250
Selenium	0.000306	J	0.000300	0.00200	1	03/23/2023 16:00	WG2028250
Selenium,Dissolved	U		0.000300	0.00200	1	03/23/2023 18:57	WG2028258
Sodium	751		0.376	2.00	1	03/23/2023 16:00	WG2028250

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	1.54		0.0314	0.100	1	03/24/2023 15:17	WG2029475
(S) a,a,a-Trifluorotoluene(FID)	*108*			*78.0-120*		*03/24/2023 15:17*	WG2029475

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	03/26/2023 15:37	WG2030330
Benzene	U		0.0000941	0.00100	1	03/26/2023 15:37	WG2030330
Bromodichloromethane	U		0.000136	0.00100	1	03/26/2023 15:37	WG2030330
Bromoform	U		0.000129	0.00100	1	03/26/2023 15:37	WG2030330
Bromomethane	U		0.000605	0.00500	1	03/26/2023 15:37	WG2030330
n-Butylbenzene	U		0.000157	0.00100	1	03/26/2023 15:37	WG2030330
sec-Butylbenzene	U		0.000125	0.00100	1	03/26/2023 15:37	WG2030330
Carbon disulfide	U		0.0000962	0.00100	1	03/26/2023 15:37	WG2030330
Carbon tetrachloride	U		0.000128	0.00100	1	03/26/2023 15:37	WG2030330

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	03/26/2023 15:37	WG2030330
Chlorodibromomethane	U		0.000140	0.00100	1	03/26/2023 15:37	WG2030330
Chloroethane	U		0.000192	0.00500	1	03/26/2023 15:37	WG2030330
Chloroform	U		0.000111	0.00500	1	03/26/2023 15:37	WG2030330
Chloromethane	U		0.000960	0.00250	1	03/26/2023 15:37	WG2030330
1,2-Dibromoethane	U		0.000126	0.00100	1	03/26/2023 15:37	WG2030330
1,1-Dichloroethane	U		0.000100	0.00100	1	03/26/2023 15:37	WG2030330
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/26/2023 15:37	WG2030330
1,1-Dichloroethene	U		0.000188	0.00100	1	03/26/2023 15:37	WG2030330
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/26/2023 15:37	WG2030330
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/26/2023 15:37	WG2030330
1,2-Dichloropropane	U		0.000149	0.00100	1	03/26/2023 15:37	WG2030330
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/26/2023 15:37	WG2030330
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/26/2023 15:37	WG2030330
Ethylbenzene	U		0.000137	0.00100	1	03/26/2023 15:37	WG2030330
Isopropylbenzene	U		0.000105	0.00100	1	03/26/2023 15:37	WG2030330
p-Isopropyltoluene	U		0.000120	0.00100	1	03/26/2023 15:37	WG2030330
2-Butanone (MEK)	U		0.00119	0.0100	1	03/26/2023 15:37	WG2030330
2-Hexanone	U		0.000787	0.0100	1	03/26/2023 15:37	WG2030330
Methylene Chloride	U		0.000430	0.00500	1	03/26/2023 15:37	WG2030330
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/26/2023 15:37	WG2030330
Methyl tert-butyl ether	0.000152	J	0.000101	0.00100	1	03/26/2023 15:37	WG2030330
Naphthalene	U	J3 J4	0.00100	0.00500	1	03/26/2023 15:37	WG2030330
n-Propylbenzene	U		0.0000993	0.00100	1	03/26/2023 15:37	WG2030330
Styrene	U		0.000118	0.00100	1	03/26/2023 15:37	WG2030330
tert-Butyl alcohol	U		0.00406	0.00500	1	03/26/2023 15:37	WG2030330
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/26/2023 15:37	WG2030330
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/26/2023 15:37	WG2030330
Tetrachloroethene	U		0.000300	0.00100	1	03/26/2023 15:37	WG2030330
Toluene	U		0.000278	0.00100	1	03/26/2023 15:37	WG2030330
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/26/2023 15:37	WG2030330
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/26/2023 15:37	WG2030330
Trichloroethene	U		0.000190	0.00100	1	03/26/2023 15:37	WG2030330
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/26/2023 15:37	WG2030330
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/26/2023 15:37	WG2030330
Vinyl chloride	U		0.000234	0.00100	1	03/26/2023 15:37	WG2030330
o-Xylene	U		0.000174	0.00100	1	03/26/2023 15:37	WG2030330
m&p-Xylene	U		0.000430	0.00200	1	03/26/2023 15:37	WG2030330
Xylenes, Total	U		0.000174	0.00300	1	03/26/2023 15:37	WG2030330
(S) Toluene-d8	*98.1*			*80.0-120*		*03/26/2023 15:37*	WG2030330
(S) 4-Bromofluorobenzene	*101*			*77.0-126*		*03/26/2023 15:37*	WG2030330
(S) 1,2-Dichloroethane-d4	*91.8*			*70.0-130*		*03/26/2023 15:37*	WG2030330

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	0.816		0.0247	0.100	1	03/28/2023 21:02	WG2030546
(S) o-Terphenyl	*119*			*31.0-160*		*03/28/2023 21:02*	WG2030546

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	10300		200	1	03/23/2023 23:29	WG2028853

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	3100		37.9	100	100	03/23/2023 08:52	WG2028372
Fluoride	1.19	J	0.640	1.50	10	03/23/2023 02:29	WG2028372
Nitrate	U		0.480	1.00	10	03/23/2023 02:29	WG2028372
Nitrite	U		0.420	1.00	10	03/23/2023 02:29	WG2028372
Sulfate	3430		59.4	500	100	03/23/2023 08:52	WG2028372

Sample Narrative:

L1597201-29 WG2028372: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00111	J	0.000180	0.00200	1	03/23/2023 16:04	WG2028250
Arsenic,Dissolved	0.000635	J	0.000180	0.00200	1	03/23/2023 19:00	WG2028258
Barium	0.0153		0.000381	0.00200	1	03/23/2023 16:04	WG2028250
Barium,Dissolved	0.0164		0.000381	0.00200	1	03/23/2023 19:00	WG2028258
Calcium	746		0.0936	1.00	1	03/23/2023 16:04	WG2028250
Chromium	U		0.00124	0.00200	1	03/23/2023 16:04	WG2028250
Chromium,Dissolved	U		0.00124	0.00200	1	03/23/2023 19:00	WG2028258
Iron	1.61		0.0281	0.100	1	03/23/2023 16:04	WG2028250
Iron,Dissolved	0.222		0.0281	0.100	1	03/23/2023 19:00	WG2028258
Lead	U		0.000849	0.00200	1	03/23/2023 16:04	WG2028250
Lead,Dissolved	U		0.000849	0.00200	1	03/23/2023 19:00	WG2028258
Manganese	0.321		0.000704	0.00500	1	03/23/2023 16:04	WG2028250
Manganese,Dissolved	0.298		0.000704	0.00500	1	03/23/2023 19:00	WG2028258
Potassium	6.43		0.108	2.00	1	03/23/2023 16:04	WG2028250
Selenium	U		0.000300	0.00200	1	03/23/2023 16:04	WG2028250
Selenium,Dissolved	U		0.000300	0.00200	1	03/23/2023 19:00	WG2028258
Sodium	1690		1.88	10.0	5	03/23/2023 17:14	WG2028250

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	03/24/2023 15:39	WG2029475
(S) a,a,a-Trifluorotoluene(FID)	*109*			*78.0-120*		*03/24/2023 15:39*	WG2029475

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	03/26/2023 15:59	WG2030330
Benzene	U		0.0000941	0.00100	1	03/26/2023 15:59	WG2030330
Bromodichloromethane	U		0.000136	0.00100	1	03/26/2023 15:59	WG2030330
Bromoform	U		0.000129	0.00100	1	03/26/2023 15:59	WG2030330
Bromomethane	U		0.000605	0.00500	1	03/26/2023 15:59	WG2030330
n-Butylbenzene	U		0.000157	0.00100	1	03/26/2023 15:59	WG2030330
sec-Butylbenzene	U		0.000125	0.00100	1	03/26/2023 15:59	WG2030330
Carbon disulfide	U		0.0000962	0.00100	1	03/26/2023 15:59	WG2030330
Carbon tetrachloride	U		0.000128	0.00100	1	03/26/2023 15:59	WG2030330

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	03/26/2023 15:59	WG2030330
Chlorodibromomethane	U		0.000140	0.00100	1	03/26/2023 15:59	WG2030330
Chloroethane	U		0.000192	0.00500	1	03/26/2023 15:59	WG2030330
Chloroform	U		0.000111	0.00500	1	03/26/2023 15:59	WG2030330
Chloromethane	U		0.000960	0.00250	1	03/26/2023 15:59	WG2030330
1,2-Dibromoethane	U		0.000126	0.00100	1	03/26/2023 15:59	WG2030330
1,1-Dichloroethane	U		0.000100	0.00100	1	03/26/2023 15:59	WG2030330
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/26/2023 15:59	WG2030330
1,1-Dichloroethene	U		0.000188	0.00100	1	03/26/2023 15:59	WG2030330
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/26/2023 15:59	WG2030330
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/26/2023 15:59	WG2030330
1,2-Dichloropropane	U		0.000149	0.00100	1	03/26/2023 15:59	WG2030330
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/26/2023 15:59	WG2030330
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/26/2023 15:59	WG2030330
Ethylbenzene	U		0.000137	0.00100	1	03/26/2023 15:59	WG2030330
Isopropylbenzene	U		0.000105	0.00100	1	03/26/2023 15:59	WG2030330
p-Isopropyltoluene	U		0.000120	0.00100	1	03/26/2023 15:59	WG2030330
2-Butanone (MEK)	U		0.00119	0.0100	1	03/26/2023 15:59	WG2030330
2-Hexanone	U		0.000787	0.0100	1	03/26/2023 15:59	WG2030330
Methylene Chloride	U		0.000430	0.00500	1	03/26/2023 15:59	WG2030330
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/26/2023 15:59	WG2030330
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/26/2023 15:59	WG2030330
Naphthalene	U	J3 J4	0.00100	0.00500	1	03/26/2023 15:59	WG2030330
n-Propylbenzene	U		0.0000993	0.00100	1	03/26/2023 15:59	WG2030330
Styrene	U		0.000118	0.00100	1	03/26/2023 15:59	WG2030330
tert-Butyl alcohol	U		0.00406	0.00500	1	03/26/2023 15:59	WG2030330
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/26/2023 15:59	WG2030330
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/26/2023 15:59	WG2030330
Tetrachloroethene	U		0.000300	0.00100	1	03/26/2023 15:59	WG2030330
Toluene	U		0.000278	0.00100	1	03/26/2023 15:59	WG2030330
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/26/2023 15:59	WG2030330
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/26/2023 15:59	WG2030330
Trichloroethene	U		0.000190	0.00100	1	03/26/2023 15:59	WG2030330
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/26/2023 15:59	WG2030330
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/26/2023 15:59	WG2030330
Vinyl chloride	U		0.000234	0.00100	1	03/26/2023 15:59	WG2030330
o-Xylene	U		0.000174	0.00100	1	03/26/2023 15:59	WG2030330
m&p-Xylene	U		0.000430	0.00200	1	03/26/2023 15:59	WG2030330
Xylenes, Total	U		0.000174	0.00300	1	03/26/2023 15:59	WG2030330
(S) Toluene-d8	*100*			*80.0-120*		*03/26/2023 15:59*	WG2030330
(S) 4-Bromofluorobenzene	*93.3*			*77.0-126*		*03/26/2023 15:59*	WG2030330
(S) 1,2-Dichloroethane-d4	*87.8*			*70.0-130*		*03/26/2023 15:59*	WG2030330

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	0.0813	J	0.0247	0.100	1	03/28/2023 21:23	WG2030546
(S) o-Terphenyl	*115*			*31.0-160*		*03/28/2023 21:23*	WG2030546

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	03/23/2023 23:29	WG2028853

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	03/23/2023 02:45	WG2028372
Fluoride	U		0.0640	0.150	1	03/23/2023 02:45	WG2028372
Nitrate	U		0.0480	0.100	1	03/23/2023 02:45	WG2028372
Nitrite	U		0.0420	0.100	1	03/23/2023 02:45	WG2028372
Sulfate	U		0.594	5.00	1	03/23/2023 02:45	WG2028372

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	03/23/2023 16:07	WG2028250
Arsenic,Dissolved	U		0.000180	0.00200	1	03/23/2023 19:03	WG2028258
Barium	U		0.000381	0.00200	1	03/23/2023 16:07	WG2028250
Barium,Dissolved	0.000504	J	0.000381	0.00200	1	03/23/2023 19:03	WG2028258
Calcium	0.147	J	0.0936	1.00	1	03/23/2023 16:07	WG2028250
Chromium	U		0.00124	0.00200	1	03/23/2023 16:07	WG2028250
Chromium,Dissolved	U		0.00124	0.00200	1	03/23/2023 19:03	WG2028258
Iron	U		0.0281	0.100	1	03/23/2023 16:07	WG2028250
Iron,Dissolved	U		0.0281	0.100	1	03/23/2023 19:03	WG2028258
Lead	U		0.000849	0.00200	1	03/23/2023 16:07	WG2028250
Lead,Dissolved	U		0.000849	0.00200	1	03/23/2023 19:03	WG2028258
Manganese	U		0.000704	0.00500	1	03/23/2023 16:07	WG2028250
Manganese,Dissolved	U		0.000704	0.00500	1	03/23/2023 19:03	WG2028258
Potassium	U		0.108	2.00	1	03/23/2023 16:07	WG2028250
Selenium	U		0.000300	0.00200	1	03/23/2023 16:07	WG2028250
Selenium,Dissolved	U		0.000300	0.00200	1	03/23/2023 19:03	WG2028258
Sodium	0.609	J	0.376	2.00	1	03/23/2023 16:07	WG2028250

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	03/25/2023 21:27	WG2029674
(S) a,a,a-Trifluorotoluene(FID)	*102*			*78.0-120*		*03/25/2023 21:27*	WG2029674

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	03/26/2023 16:21	WG2030330
Benzene	U		0.0000941	0.00100	1	03/26/2023 16:21	WG2030330
Bromodichloromethane	U		0.000136	0.00100	1	03/26/2023 16:21	WG2030330
Bromoform	U		0.000129	0.00100	1	03/26/2023 16:21	WG2030330
Bromomethane	U		0.000605	0.00500	1	03/26/2023 16:21	WG2030330
n-Butylbenzene	U		0.000157	0.00100	1	03/26/2023 16:21	WG2030330
sec-Butylbenzene	U		0.000125	0.00100	1	03/26/2023 16:21	WG2030330
Carbon disulfide	U		0.0000962	0.00100	1	03/26/2023 16:21	WG2030330
Carbon tetrachloride	U		0.000128	0.00100	1	03/26/2023 16:21	WG2030330
Chlorobenzene	U		0.000116	0.00100	1	03/26/2023 16:21	WG2030330
Chlorodibromomethane	U		0.000140	0.00100	1	03/26/2023 16:21	WG2030330
Chloroethane	U		0.000192	0.00500	1	03/26/2023 16:21	WG2030330

EB-LT-02
Collected date/time: 03/21/23 12:00
L1597201

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloroform	0.000798	J	0.000111	0.00500	1	03/26/2023 16:21	WG2030330
Chloromethane	U		0.000960	0.00250	1	03/26/2023 16:21	WG2030330
1,2-Dibromoethane	U		0.000126	0.00100	1	03/26/2023 16:21	WG2030330
1,1-Dichloroethane	U		0.000100	0.00100	1	03/26/2023 16:21	WG2030330
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/26/2023 16:21	WG2030330
1,1-Dichloroethene	U		0.000188	0.00100	1	03/26/2023 16:21	WG2030330
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/26/2023 16:21	WG2030330
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/26/2023 16:21	WG2030330
1,2-Dichloropropane	U		0.000149	0.00100	1	03/26/2023 16:21	WG2030330
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/26/2023 16:21	WG2030330
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/26/2023 16:21	WG2030330
Ethylbenzene	U		0.000137	0.00100	1	03/26/2023 16:21	WG2030330
Isopropylbenzene	U		0.000105	0.00100	1	03/26/2023 16:21	WG2030330
p-Isopropyltoluene	U		0.000120	0.00100	1	03/26/2023 16:21	WG2030330
2-Butanone (MEK)	U		0.00119	0.0100	1	03/26/2023 16:21	WG2030330
2-Hexanone	U		0.000787	0.0100	1	03/26/2023 16:21	WG2030330
Methylene Chloride	U		0.000430	0.00500	1	03/26/2023 16:21	WG2030330
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/26/2023 16:21	WG2030330
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/26/2023 16:21	WG2030330
Naphthalene	U	J3 J4	0.00100	0.00500	1	03/26/2023 16:21	WG2030330
n-Propylbenzene	U		0.0000993	0.00100	1	03/26/2023 16:21	WG2030330
Styrene	U		0.000118	0.00100	1	03/26/2023 16:21	WG2030330
tert-Butyl alcohol	U		0.00406	0.00500	1	03/26/2023 16:21	WG2030330
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/26/2023 16:21	WG2030330
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/26/2023 16:21	WG2030330
Tetrachloroethene	U		0.000300	0.00100	1	03/26/2023 16:21	WG2030330
Toluene	U		0.000278	0.00100	1	03/26/2023 16:21	WG2030330
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/26/2023 16:21	WG2030330
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/26/2023 16:21	WG2030330
Trichloroethene	U		0.000190	0.00100	1	03/26/2023 16:21	WG2030330
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/26/2023 16:21	WG2030330
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/26/2023 16:21	WG2030330
Vinyl chloride	U		0.000234	0.00100	1	03/26/2023 16:21	WG2030330
o-Xylene	U		0.000174	0.00100	1	03/26/2023 16:21	WG2030330
m&p-Xylene	U		0.000430	0.00200	1	03/26/2023 16:21	WG2030330
Xylenes, Total	U		0.000174	0.00300	1	03/26/2023 16:21	WG2030330
(S) Toluene-d8	*96.2*			*80.0-120*		*03/26/2023 16:21*	WG2030330
(S) 4-Bromofluorobenzene	*84.2*			*77.0-126*		*03/26/2023 16:21*	WG2030330
(S) 1,2-Dichloroethane-d4	*84.6*			*70.0-130*		*03/26/2023 16:21*	WG2030330

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	03/28/2023 21:43	WG2030546
(S) o-Terphenyl	*124*			*31.0-160*		*03/28/2023 21:43*	WG2030546

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2900		50.0	1	03/23/2023 23:29	WG2028853

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	231		3.79	10.0	10	03/23/2023 00:48	WG2028210
Fluoride	1.84		0.640	1.50	10	03/23/2023 00:48	WG2028210
Nitrate	1.91		0.480	1.00	10	03/23/2023 00:48	WG2028210
Nitrite	U		0.420	1.00	10	03/23/2023 00:48	WG2028210
Sulfate	1420		5.94	50.0	10	03/23/2023 00:48	WG2028210

Sample Narrative:

L1597201-36 WG2028210: Dilution due to matrix.

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	03/23/2023 16:10	WG2028250
Arsenic,Dissolved	0.00285		0.000180	0.00200	1	03/23/2023 19:07	WG2028258
Barium	0.0117		0.000381	0.00200	1	03/23/2023 16:10	WG2028250
Barium,Dissolved	0.0129		0.000381	0.00200	1	03/23/2023 19:07	WG2028258
Calcium	337		0.0936	1.00	1	03/23/2023 16:10	WG2028250
Chromium	U		0.00124	0.00200	1	03/23/2023 16:10	WG2028250
Chromium,Dissolved	U		0.00124	0.00200	1	03/23/2023 19:07	WG2028258
Iron	U		0.0281	0.100	1	03/23/2023 16:10	WG2028250
Iron,Dissolved	U		0.0281	0.100	1	03/23/2023 19:07	WG2028258
Lead	U		0.000849	0.00200	1	03/23/2023 16:10	WG2028250
Lead,Dissolved	U		0.000849	0.00200	1	03/23/2023 19:07	WG2028258
Manganese	U		0.000704	0.00500	1	03/23/2023 16:10	WG2028250
Manganese,Dissolved	0.000866	J	0.000704	0.00500	1	03/23/2023 19:07	WG2028258
Potassium	4.65		0.108	2.00	1	03/23/2023 16:10	WG2028250
Selenium	0.0233		0.000300	0.00200	1	03/23/2023 16:10	WG2028250
Selenium,Dissolved	0.0234		0.000300	0.00200	1	03/23/2023 19:07	WG2028258
Sodium	222		0.376	2.00	1	03/23/2023 16:10	WG2028250

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	03/26/2023 16:43	WG2030330
Benzene	U		0.0000941	0.00100	1	03/26/2023 16:43	WG2030330
Bromodichloromethane	U		0.000136	0.00100	1	03/26/2023 16:43	WG2030330
Bromoform	U		0.000129	0.00100	1	03/26/2023 16:43	WG2030330
Bromomethane	U		0.000605	0.00500	1	03/26/2023 16:43	WG2030330
n-Butylbenzene	U		0.000157	0.00100	1	03/26/2023 16:43	WG2030330
sec-Butylbenzene	U		0.000125	0.00100	1	03/26/2023 16:43	WG2030330
Carbon disulfide	U		0.0000962	0.00100	1	03/26/2023 16:43	WG2030330
Carbon tetrachloride	U		0.000128	0.00100	1	03/26/2023 16:43	WG2030330
Chlorobenzene	U		0.000116	0.00100	1	03/26/2023 16:43	WG2030330
Chlorodibromomethane	U		0.000140	0.00100	1	03/26/2023 16:43	WG2030330
Chloroethane	U		0.000192	0.00500	1	03/26/2023 16:43	WG2030330
Chloroform	U		0.000111	0.00500	1	03/26/2023 16:43	WG2030330
Chloromethane	U		0.000960	0.00250	1	03/26/2023 16:43	WG2030330
1,2-Dibromoethane	U		0.000126	0.00100	1	03/26/2023 16:43	WG2030330
1,1-Dichloroethane	U		0.000100	0.00100	1	03/26/2023 16:43	WG2030330

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	03/26/2023 16:43	WG2030330
1,1-Dichloroethene	U		0.000188	0.00100	1	03/26/2023 16:43	WG2030330
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/26/2023 16:43	WG2030330
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/26/2023 16:43	WG2030330
1,2-Dichloropropane	U		0.000149	0.00100	1	03/26/2023 16:43	WG2030330
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/26/2023 16:43	WG2030330
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/26/2023 16:43	WG2030330
Ethylbenzene	U		0.000137	0.00100	1	03/26/2023 16:43	WG2030330
Isopropylbenzene	U		0.000105	0.00100	1	03/26/2023 16:43	WG2030330
p-Isopropyltoluene	U		0.000120	0.00100	1	03/26/2023 16:43	WG2030330
2-Butanone (MEK)	U		0.00119	0.0100	1	03/26/2023 16:43	WG2030330
2-Hexanone	U		0.000787	0.0100	1	03/26/2023 16:43	WG2030330
Methylene Chloride	U		0.000430	0.00500	1	03/26/2023 16:43	WG2030330
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/26/2023 16:43	WG2030330
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/26/2023 16:43	WG2030330
Naphthalene	U	J3 J4	0.00100	0.00500	1	03/26/2023 16:43	WG2030330
n-Propylbenzene	U		0.0000993	0.00100	1	03/26/2023 16:43	WG2030330
Styrene	U		0.000118	0.00100	1	03/26/2023 16:43	WG2030330
tert-Butyl alcohol	U		0.00406	0.00500	1	03/26/2023 16:43	WG2030330
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/26/2023 16:43	WG2030330
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/26/2023 16:43	WG2030330
Tetrachloroethene	U		0.000300	0.00100	1	03/26/2023 16:43	WG2030330
Toluene	U		0.000278	0.00100	1	03/26/2023 16:43	WG2030330
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/26/2023 16:43	WG2030330
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/26/2023 16:43	WG2030330
Trichloroethene	U		0.000190	0.00100	1	03/26/2023 16:43	WG2030330
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/26/2023 16:43	WG2030330
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/26/2023 16:43	WG2030330
Vinyl chloride	U		0.000234	0.00100	1	03/26/2023 16:43	WG2030330
o-Xylene	U		0.000174	0.00100	1	03/26/2023 16:43	WG2030330
m&p-Xylene	U		0.000430	0.00200	1	03/26/2023 16:43	WG2030330
Xylenes, Total	U		0.000174	0.00300	1	03/26/2023 16:43	WG2030330
(S) Toluene-d8	*97.5*			*80.0-120*		*03/26/2023 16:43*	WG2030330
(S) 4-Bromofluorobenzene	*80.6*			*77.0-126*		*03/26/2023 16:43*	WG2030330
(S) 1,2-Dichloroethane-d4	*84.1*			*70.0-130*		*03/26/2023 16:43*	WG2030330

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	0.0533	J	0.0247	0.100	1	03/28/2023 22:04	WG2030546
(S) o-Terphenyl	*118*			*31.0-160*		*03/28/2023 22:04*	WG2030546

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	03/23/2023 23:29	WG2028853

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	39.1	B	3.79	10.0	10	03/23/2023 12:15	WG2028377
Fluoride	1.73	B	0.640	1.50	10	03/23/2023 12:15	WG2028377
Nitrate	0.826	J	0.480	1.00	10	03/23/2023 12:15	WG2028377
Nitrite	U		0.420	1.00	10	03/23/2023 12:15	WG2028377
Sulfate	1120		5.94	50.0	10	03/23/2023 12:15	WG2028377

Sample Narrative:

L1597201-37 WG2028377: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00219		0.000180	0.00200	1	03/23/2023 16:13	WG2028250
Arsenic,Dissolved	0.00231		0.000180	0.00200	1	03/23/2023 19:10	WG2028258
Barium	0.0168		0.000381	0.00200	1	03/23/2023 16:13	WG2028250
Barium,Dissolved	0.0180		0.000381	0.00200	1	03/23/2023 19:10	WG2028258
Calcium	308		0.0936	1.00	1	03/23/2023 16:13	WG2028250
Chromium	U		0.00124	0.00200	1	03/23/2023 16:13	WG2028250
Chromium,Dissolved	U		0.00124	0.00200	1	03/23/2023 19:10	WG2028258
Iron	U		0.0281	0.100	1	03/23/2023 16:13	WG2028250
Iron,Dissolved	U		0.0281	0.100	1	03/23/2023 19:10	WG2028258
Lead	U		0.000849	0.00200	1	03/23/2023 16:13	WG2028250
Lead,Dissolved	U		0.000849	0.00200	1	03/23/2023 19:10	WG2028258
Manganese	0.00484	J	0.000704	0.00500	1	03/23/2023 16:13	WG2028250
Manganese,Dissolved	0.00291	J	0.000704	0.00500	1	03/23/2023 19:10	WG2028258
Potassium	7.41		0.108	2.00	1	03/23/2023 16:13	WG2028250
Selenium	0.0203		0.000300	0.00200	1	03/23/2023 16:13	WG2028250
Selenium,Dissolved	0.0215		0.000300	0.00200	1	03/23/2023 19:10	WG2028258
Sodium	77.4		0.376	2.00	1	03/23/2023 16:13	WG2028250

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	03/26/2023 17:05	WG2030330
Benzene	U		0.0000941	0.00100	1	03/26/2023 17:05	WG2030330
Bromodichloromethane	U		0.000136	0.00100	1	03/26/2023 17:05	WG2030330
Bromoform	U		0.000129	0.00100	1	03/26/2023 17:05	WG2030330
Bromomethane	U		0.000605	0.00500	1	03/26/2023 17:05	WG2030330
n-Butylbenzene	U		0.000157	0.00100	1	03/26/2023 17:05	WG2030330
sec-Butylbenzene	U		0.000125	0.00100	1	03/26/2023 17:05	WG2030330
Carbon disulfide	U		0.0000962	0.00100	1	03/26/2023 17:05	WG2030330
Carbon tetrachloride	U		0.000128	0.00100	1	03/26/2023 17:05	WG2030330
Chlorobenzene	U		0.000116	0.00100	1	03/26/2023 17:05	WG2030330
Chlorodibromomethane	U		0.000140	0.00100	1	03/26/2023 17:05	WG2030330
Chloroethane	U		0.000192	0.00500	1	03/26/2023 17:05	WG2030330
Chloroform	U		0.000111	0.00500	1	03/26/2023 17:05	WG2030330
Chloromethane	U		0.000960	0.00250	1	03/26/2023 17:05	WG2030330
1,2-Dibromoethane	U		0.000126	0.00100	1	03/26/2023 17:05	WG2030330
1,1-Dichloroethane	U		0.000100	0.00100	1	03/26/2023 17:05	WG2030330

MW-27
Collected date/time: 03/21/23 13:25
L1597201

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	03/26/2023 17:05	WG2030330
1,1-Dichloroethene	U		0.000188	0.00100	1	03/26/2023 17:05	WG2030330
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/26/2023 17:05	WG2030330
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/26/2023 17:05	WG2030330
1,2-Dichloropropane	U		0.000149	0.00100	1	03/26/2023 17:05	WG2030330
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/26/2023 17:05	WG2030330
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/26/2023 17:05	WG2030330
Ethylbenzene	U		0.000137	0.00100	1	03/26/2023 17:05	WG2030330
Isopropylbenzene	U		0.000105	0.00100	1	03/26/2023 17:05	WG2030330
p-Isopropyltoluene	U		0.000120	0.00100	1	03/26/2023 17:05	WG2030330
2-Butanone (MEK)	U		0.00119	0.0100	1	03/26/2023 17:05	WG2030330
2-Hexanone	U		0.000787	0.0100	1	03/26/2023 17:05	WG2030330
Methylene Chloride	U		0.000430	0.00500	1	03/26/2023 17:05	WG2030330
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/26/2023 17:05	WG2030330
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/26/2023 17:05	WG2030330
Naphthalene	U	J3 J4	0.00100	0.00500	1	03/26/2023 17:05	WG2030330
n-Propylbenzene	U		0.0000993	0.00100	1	03/26/2023 17:05	WG2030330
Styrene	U		0.000118	0.00100	1	03/26/2023 17:05	WG2030330
tert-Butyl alcohol	U		0.00406	0.00500	1	03/26/2023 17:05	WG2030330
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/26/2023 17:05	WG2030330
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/26/2023 17:05	WG2030330
Tetrachloroethene	U		0.000300	0.00100	1	03/26/2023 17:05	WG2030330
Toluene	U		0.000278	0.00100	1	03/26/2023 17:05	WG2030330
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/26/2023 17:05	WG2030330
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/26/2023 17:05	WG2030330
Trichloroethene	U		0.000190	0.00100	1	03/26/2023 17:05	WG2030330
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/26/2023 17:05	WG2030330
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/26/2023 17:05	WG2030330
Vinyl chloride	U		0.000234	0.00100	1	03/26/2023 17:05	WG2030330
o-Xylene	U		0.000174	0.00100	1	03/26/2023 17:05	WG2030330
m&p-Xylene	U		0.000430	0.00200	1	03/26/2023 17:05	WG2030330
Xylenes, Total	U		0.000174	0.00300	1	03/26/2023 17:05	WG2030330
(S) Toluene-d8	*97.6*			*80.0-120*		*03/26/2023 17:05*	WG2030330
(S) 4-Bromofluorobenzene	*84.3*			*77.0-126*		*03/26/2023 17:05*	WG2030330
(S) 1,2-Dichloroethane-d4	*89.7*			*70.0-130*		*03/26/2023 17:05*	WG2030330

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	0.0433	J	0.0247	0.100	1	03/28/2023 22:25	WG2030546
(S) o-Terphenyl	*119*			*31.0-160*		*03/28/2023 22:25*	WG2030546

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	03/23/2023 23:29	WG2028853

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	184		3.79	10.0	10	03/23/2023 01:01	WG2028210
Fluoride	2.63		0.640	1.50	10	03/23/2023 01:01	WG2028210
Nitrate	0.914	J	0.480	1.00	10	03/23/2023 01:01	WG2028210
Nitrite	U		0.420	1.00	10	03/23/2023 01:01	WG2028210
Sulfate	1370		5.94	50.0	10	03/23/2023 01:01	WG2028210

Sample Narrative:

L1597201-38 WG2028210: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00817		0.000180	0.00200	1	03/23/2023 16:17	WG2028250
Arsenic,Dissolved	0.00848		0.000180	0.00200	1	03/23/2023 19:21	WG2028258
Barium	0.0126		0.000381	0.00200	1	03/23/2023 16:17	WG2028250
Barium,Dissolved	0.0133		0.000381	0.00200	1	03/23/2023 19:21	WG2028258
Calcium	410		0.0936	1.00	1	03/23/2023 16:17	WG2028250
Chromium	U		0.00124	0.00200	1	03/23/2023 16:17	WG2028250
Chromium,Dissolved	U		0.00124	0.00200	1	03/23/2023 19:21	WG2028258
Iron	U		0.0281	0.100	1	03/23/2023 16:17	WG2028250
Iron,Dissolved	U		0.0281	0.100	1	03/23/2023 19:21	WG2028258
Lead	U		0.000849	0.00200	1	03/23/2023 16:17	WG2028250
Lead,Dissolved	U		0.000849	0.00200	1	03/23/2023 19:21	WG2028258
Manganese	0.426		0.000704	0.00500	1	03/23/2023 16:17	WG2028250
Manganese,Dissolved	0.464		0.000704	0.00500	1	03/23/2023 19:21	WG2028258
Potassium	7.45		0.108	2.00	1	03/23/2023 16:17	WG2028250
Selenium	0.00338		0.000300	0.00200	1	03/23/2023 16:17	WG2028250
Selenium,Dissolved	0.00346		0.000300	0.00200	1	03/23/2023 19:21	WG2028258
Sodium	135		0.376	2.00	1	03/23/2023 16:17	WG2028250

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	03/26/2023 17:27	WG2030330
Benzene	U		0.0000941	0.00100	1	03/26/2023 17:27	WG2030330
Bromodichloromethane	U		0.000136	0.00100	1	03/26/2023 17:27	WG2030330
Bromoform	U		0.000129	0.00100	1	03/26/2023 17:27	WG2030330
Bromomethane	U		0.000605	0.00500	1	03/26/2023 17:27	WG2030330
n-Butylbenzene	U		0.000157	0.00100	1	03/26/2023 17:27	WG2030330
sec-Butylbenzene	U		0.000125	0.00100	1	03/26/2023 17:27	WG2030330
Carbon disulfide	U		0.0000962	0.00100	1	03/26/2023 17:27	WG2030330
Carbon tetrachloride	U		0.000128	0.00100	1	03/26/2023 17:27	WG2030330
Chlorobenzene	U		0.000116	0.00100	1	03/26/2023 17:27	WG2030330
Chlorodibromomethane	U		0.000140	0.00100	1	03/26/2023 17:27	WG2030330
Chloroethane	U		0.000192	0.00500	1	03/26/2023 17:27	WG2030330
Chloroform	U		0.000111	0.00500	1	03/26/2023 17:27	WG2030330
Chloromethane	U		0.000960	0.00250	1	03/26/2023 17:27	WG2030330
1,2-Dibromoethane	U		0.000126	0.00100	1	03/26/2023 17:27	WG2030330
1,1-Dichloroethane	U		0.000100	0.00100	1	03/26/2023 17:27	WG2030330

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	03/26/2023 17:27	WG2030330
1,1-Dichloroethene	U		0.000188	0.00100	1	03/26/2023 17:27	WG2030330
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/26/2023 17:27	WG2030330
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/26/2023 17:27	WG2030330
1,2-Dichloropropane	U		0.000149	0.00100	1	03/26/2023 17:27	WG2030330
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/26/2023 17:27	WG2030330
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/26/2023 17:27	WG2030330
Ethylbenzene	U		0.000137	0.00100	1	03/26/2023 17:27	WG2030330
Isopropylbenzene	U		0.000105	0.00100	1	03/26/2023 17:27	WG2030330
p-Isopropyltoluene	U		0.000120	0.00100	1	03/26/2023 17:27	WG2030330
2-Butanone (MEK)	U		0.00119	0.0100	1	03/26/2023 17:27	WG2030330
2-Hexanone	U		0.000787	0.0100	1	03/26/2023 17:27	WG2030330
Methylene Chloride	U		0.000430	0.00500	1	03/26/2023 17:27	WG2030330
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/26/2023 17:27	WG2030330
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/26/2023 17:27	WG2030330
Naphthalene	U	J3 J4	0.00100	0.00500	1	03/26/2023 17:27	WG2030330
n-Propylbenzene	U		0.0000993	0.00100	1	03/26/2023 17:27	WG2030330
Styrene	U		0.000118	0.00100	1	03/26/2023 17:27	WG2030330
tert-Butyl alcohol	U		0.00406	0.00500	1	03/26/2023 17:27	WG2030330
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/26/2023 17:27	WG2030330
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/26/2023 17:27	WG2030330
Tetrachloroethene	U		0.000300	0.00100	1	03/26/2023 17:27	WG2030330
Toluene	U		0.000278	0.00100	1	03/26/2023 17:27	WG2030330
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/26/2023 17:27	WG2030330
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/26/2023 17:27	WG2030330
Trichloroethene	U		0.000190	0.00100	1	03/26/2023 17:27	WG2030330
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/26/2023 17:27	WG2030330
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/26/2023 17:27	WG2030330
Vinyl chloride	U		0.000234	0.00100	1	03/26/2023 17:27	WG2030330
o-Xylene	U		0.000174	0.00100	1	03/26/2023 17:27	WG2030330
m&p-Xylene	U		0.000430	0.00200	1	03/26/2023 17:27	WG2030330
Xylenes, Total	U		0.000174	0.00300	1	03/26/2023 17:27	WG2030330
(S) Toluene-d8	*95.6*			*80.0-120*		*03/26/2023 17:27*	WG2030330
(S) 4-Bromofluorobenzene	*86.5*			*77.0-126*		*03/26/2023 17:27*	WG2030330
(S) 1,2-Dichloroethane-d4	*94.4*			*70.0-130*		*03/26/2023 17:27*	WG2030330

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	0.139		0.0247	0.100	1	03/28/2023 22:45	WG2030546
(S) o-Terphenyl	*119*			*31.0-160*		*03/28/2023 22:45*	WG2030546

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3580		50.0	1	03/23/2023 23:29	WG2028853

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	328		3.79	10.0	10	03/23/2023 03:01	WG2028372
Fluoride	2.67		0.640	1.50	10	03/23/2023 03:01	WG2028372
Nitrate	3.57		0.480	1.00	10	03/23/2023 03:01	WG2028372
Nitrite	U		0.420	1.00	10	03/23/2023 03:01	WG2028372
Sulfate	2000		59.4	500	100	03/23/2023 09:08	WG2028372

Sample Narrative:

L1597201-39 WG2028372: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00559		0.000180	0.00200	1	03/23/2023 16:20	WG2028250
Arsenic,Dissolved	0.00570		0.000180	0.00200	1	03/23/2023 19:24	WG2028258
Barium	0.0130		0.000381	0.00200	1	03/23/2023 16:20	WG2028250
Barium,Dissolved	0.0133		0.000381	0.00200	1	03/23/2023 19:24	WG2028258
Calcium	508		0.0936	1.00	1	03/23/2023 16:20	WG2028250
Chromium	U		0.00124	0.00200	1	03/23/2023 16:20	WG2028250
Chromium,Dissolved	U		0.00124	0.00200	1	03/23/2023 19:24	WG2028258
Iron	0.0286	J	0.0281	0.100	1	03/23/2023 16:20	WG2028250
Iron,Dissolved	U		0.0281	0.100	1	03/23/2023 19:24	WG2028258
Lead	U		0.000849	0.00200	1	03/23/2023 16:20	WG2028250
Lead,Dissolved	U		0.000849	0.00200	1	03/23/2023 19:24	WG2028258
Manganese	0.0121		0.000704	0.00500	1	03/23/2023 16:20	WG2028250
Manganese,Dissolved	0.00835		0.000704	0.00500	1	03/23/2023 19:24	WG2028258
Potassium	7.52		0.108	2.00	1	03/23/2023 16:20	WG2028250
Selenium	0.0280		0.000300	0.00200	1	03/23/2023 16:20	WG2028250
Selenium,Dissolved	0.0283		0.000300	0.00200	1	03/23/2023 19:24	WG2028258
Sodium	282		0.376	2.00	1	03/23/2023 16:20	WG2028250

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	03/26/2023 17:48	WG2030330
Benzene	U		0.0000941	0.00100	1	03/26/2023 17:48	WG2030330
Bromodichloromethane	U		0.000136	0.00100	1	03/26/2023 17:48	WG2030330
Bromoform	U		0.000129	0.00100	1	03/26/2023 17:48	WG2030330
Bromomethane	U		0.000605	0.00500	1	03/26/2023 17:48	WG2030330
n-Butylbenzene	U		0.000157	0.00100	1	03/26/2023 17:48	WG2030330
sec-Butylbenzene	U		0.000125	0.00100	1	03/26/2023 17:48	WG2030330
Carbon disulfide	U		0.0000962	0.00100	1	03/26/2023 17:48	WG2030330
Carbon tetrachloride	U		0.000128	0.00100	1	03/26/2023 17:48	WG2030330
Chlorobenzene	U		0.000116	0.00100	1	03/26/2023 17:48	WG2030330
Chlorodibromomethane	U		0.000140	0.00100	1	03/26/2023 17:48	WG2030330
Chloroethane	U		0.000192	0.00500	1	03/26/2023 17:48	WG2030330
Chloroform	U		0.000111	0.00500	1	03/26/2023 17:48	WG2030330
Chloromethane	U		0.000960	0.00250	1	03/26/2023 17:48	WG2030330
1,2-Dibromoethane	U		0.000126	0.00100	1	03/26/2023 17:48	WG2030330
1,1-Dichloroethane	U		0.000100	0.00100	1	03/26/2023 17:48	WG2030330

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	03/26/2023 17:48	WG2030330
1,1-Dichloroethene	U		0.000188	0.00100	1	03/26/2023 17:48	WG2030330
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/26/2023 17:48	WG2030330
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/26/2023 17:48	WG2030330
1,2-Dichloropropane	U		0.000149	0.00100	1	03/26/2023 17:48	WG2030330
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/26/2023 17:48	WG2030330
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/26/2023 17:48	WG2030330
Ethylbenzene	U		0.000137	0.00100	1	03/26/2023 17:48	WG2030330
Isopropylbenzene	U		0.000105	0.00100	1	03/26/2023 17:48	WG2030330
p-Isopropyltoluene	U		0.000120	0.00100	1	03/26/2023 17:48	WG2030330
2-Butanone (MEK)	U		0.00119	0.0100	1	03/26/2023 17:48	WG2030330
2-Hexanone	U		0.000787	0.0100	1	03/26/2023 17:48	WG2030330
Methylene Chloride	U		0.000430	0.00500	1	03/26/2023 17:48	WG2030330
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/26/2023 17:48	WG2030330
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/26/2023 17:48	WG2030330
Naphthalene	U	J3 J4	0.00100	0.00500	1	03/26/2023 17:48	WG2030330
n-Propylbenzene	U		0.0000993	0.00100	1	03/26/2023 17:48	WG2030330
Styrene	U		0.000118	0.00100	1	03/26/2023 17:48	WG2030330
tert-Butyl alcohol	U		0.00406	0.00500	1	03/26/2023 17:48	WG2030330
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/26/2023 17:48	WG2030330
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/26/2023 17:48	WG2030330
Tetrachloroethene	U		0.000300	0.00100	1	03/26/2023 17:48	WG2030330
Toluene	U		0.000278	0.00100	1	03/26/2023 17:48	WG2030330
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/26/2023 17:48	WG2030330
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/26/2023 17:48	WG2030330
Trichloroethene	U		0.000190	0.00100	1	03/26/2023 17:48	WG2030330
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/26/2023 17:48	WG2030330
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/26/2023 17:48	WG2030330
Vinyl chloride	U		0.000234	0.00100	1	03/26/2023 17:48	WG2030330
o-Xylene	U		0.000174	0.00100	1	03/26/2023 17:48	WG2030330
m&p-Xylene	U		0.000430	0.00200	1	03/26/2023 17:48	WG2030330
Xylenes, Total	U		0.000174	0.00300	1	03/26/2023 17:48	WG2030330
(S) Toluene-d8	*97.0*			*80.0-120*		*03/26/2023 17:48*	WG2030330
(S) 4-Bromofluorobenzene	*87.2*			*77.0-126*		*03/26/2023 17:48*	WG2030330
(S) 1,2-Dichloroethane-d4	*86.8*			*70.0-130*		*03/26/2023 17:48*	WG2030330

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	0.221		0.0247	0.100	1	03/30/2023 19:12	WG2030546
(S) o-Terphenyl	*139*			*31.0-160*		*03/30/2023 19:12*	WG2030546

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	4310		50.0	1	03/23/2023 23:29	WG2028853

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	489		3.79	10.0	10	03/22/2023 20:17	WG2028309
Fluoride	1.91		0.640	1.50	10	03/22/2023 20:17	WG2028309
Nitrate	0.778	J	0.480	1.00	10	03/22/2023 20:17	WG2028309
Nitrate	1.07	Q	0.480	1.00	10	03/28/2023 02:53	WG2030997
Nitrite	0.645	J	0.420	1.00	10	03/22/2023 20:17	WG2028309
Sulfate	2950		59.4	500	100	03/23/2023 02:42	WG2028309

Sample Narrative:

L1597201-40 WG2028309, WG2030997: Dilution due to matrix.

L1597201-40 WG2028309, WG2030997: Nitrate reporting twice due to QC failure.

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00304		0.000180	0.00200	1	03/23/2023 16:23	WG2028250
Arsenic,Dissolved	0.00322		0.000180	0.00200	1	03/23/2023 19:28	WG2028258
Barium	0.00836		0.000381	0.00200	1	03/23/2023 16:23	WG2028250
Barium,Dissolved	0.00878		0.000381	0.00200	1	03/23/2023 19:28	WG2028258
Calcium	506		0.0936	1.00	1	03/23/2023 16:23	WG2028250
Chromium	U		0.00124	0.00200	1	03/23/2023 16:23	WG2028250
Chromium,Dissolved	U		0.00124	0.00200	1	03/23/2023 19:28	WG2028258
Iron	U		0.0281	0.100	1	03/23/2023 16:23	WG2028250
Iron,Dissolved	U		0.0281	0.100	1	03/23/2023 19:28	WG2028258
Lead	U		0.000849	0.00200	1	03/23/2023 16:23	WG2028250
Lead,Dissolved	U		0.000849	0.00200	1	03/23/2023 19:28	WG2028258
Manganese	0.0779		0.000704	0.00500	1	03/23/2023 16:23	WG2028250
Manganese,Dissolved	0.0761		0.000704	0.00500	1	03/23/2023 19:28	WG2028258
Potassium	4.32		0.108	2.00	1	03/23/2023 16:23	WG2028250
Selenium	0.0164		0.000300	0.00200	1	03/23/2023 16:23	WG2028250
Selenium,Dissolved	0.0171		0.000300	0.00200	1	03/23/2023 19:28	WG2028258
Sodium	442		0.376	2.00	1	03/23/2023 16:23	WG2028250

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	03/26/2023 18:10	WG2030330
Benzene	U		0.0000941	0.00100	1	03/26/2023 18:10	WG2030330
Bromodichloromethane	U		0.000136	0.00100	1	03/26/2023 18:10	WG2030330
Bromoform	U		0.000129	0.00100	1	03/26/2023 18:10	WG2030330
Bromomethane	U		0.000605	0.00500	1	03/26/2023 18:10	WG2030330
n-Butylbenzene	U		0.000157	0.00100	1	03/26/2023 18:10	WG2030330
sec-Butylbenzene	U		0.000125	0.00100	1	03/26/2023 18:10	WG2030330
Carbon disulfide	U		0.0000962	0.00100	1	03/26/2023 18:10	WG2030330
Carbon tetrachloride	U		0.000128	0.00100	1	03/26/2023 18:10	WG2030330
Chlorobenzene	U		0.000116	0.00100	1	03/26/2023 18:10	WG2030330
Chlorodibromomethane	U		0.000140	0.00100	1	03/26/2023 18:10	WG2030330
Chloroethane	U		0.000192	0.00500	1	03/26/2023 18:10	WG2030330
Chloroform	U		0.000111	0.00500	1	03/26/2023 18:10	WG2030330
Chloromethane	U		0.000960	0.00250	1	03/26/2023 18:10	WG2030330

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-Dibromoethane	U		0.000126	0.00100	1	03/26/2023 18:10	WG2030330
1,1-Dichloroethane	U		0.000100	0.00100	1	03/26/2023 18:10	WG2030330
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/26/2023 18:10	WG2030330
1,1-Dichloroethene	U		0.000188	0.00100	1	03/26/2023 18:10	WG2030330
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/26/2023 18:10	WG2030330
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/26/2023 18:10	WG2030330
1,2-Dichloropropane	U		0.000149	0.00100	1	03/26/2023 18:10	WG2030330
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/26/2023 18:10	WG2030330
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/26/2023 18:10	WG2030330
Ethylbenzene	U		0.000137	0.00100	1	03/26/2023 18:10	WG2030330
Isopropylbenzene	U		0.000105	0.00100	1	03/26/2023 18:10	WG2030330
p-Isopropyltoluene	U		0.000120	0.00100	1	03/26/2023 18:10	WG2030330
2-Butanone (MEK)	U		0.00119	0.0100	1	03/26/2023 18:10	WG2030330
2-Hexanone	U		0.000787	0.0100	1	03/26/2023 18:10	WG2030330
Methylene Chloride	U		0.000430	0.00500	1	03/26/2023 18:10	WG2030330
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/26/2023 18:10	WG2030330
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/26/2023 18:10	WG2030330
Naphthalene	U	J3 J4	0.00100	0.00500	1	03/26/2023 18:10	WG2030330
n-Propylbenzene	U		0.0000993	0.00100	1	03/26/2023 18:10	WG2030330
Styrene	U		0.000118	0.00100	1	03/26/2023 18:10	WG2030330
tert-Butyl alcohol	U		0.00406	0.00500	1	03/26/2023 18:10	WG2030330
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/26/2023 18:10	WG2030330
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/26/2023 18:10	WG2030330
Tetrachloroethene	U		0.000300	0.00100	1	03/26/2023 18:10	WG2030330
Toluene	U		0.000278	0.00100	1	03/26/2023 18:10	WG2030330
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/26/2023 18:10	WG2030330
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/26/2023 18:10	WG2030330
Trichloroethene	U		0.000190	0.00100	1	03/26/2023 18:10	WG2030330
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/26/2023 18:10	WG2030330
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/26/2023 18:10	WG2030330
Vinyl chloride	U		0.000234	0.00100	1	03/26/2023 18:10	WG2030330
o-Xylene	U		0.000174	0.00100	1	03/26/2023 18:10	WG2030330
m&p-Xylene	U		0.000430	0.00200	1	03/26/2023 18:10	WG2030330
Xylenes, Total	U		0.000174	0.00300	1	03/26/2023 18:10	WG2030330
(S) Toluene-d8	*96.4*			*80.0-120*		*03/26/2023 18:10*	WG2030330
(S) 4-Bromofluorobenzene	*83.9*			*77.0-126*		*03/26/2023 18:10*	WG2030330
(S) 1,2-Dichloroethane-d4	*91.2*			*70.0-130*		*03/26/2023 18:10*	WG2030330

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	0.200	B	0.0247	0.100	1	03/28/2023 16:18	WG2031027
(S) o-Terphenyl	*105*			*31.0-160*		*03/28/2023 16:18*	WG2031027

Received by OCD: 6/12/2024 3:31:05 PM

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2620		50.0	1	03/23/2023 23:29	WG2028853

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	03/26/2023 18:49	WG2028779

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	408		3.79	10.0	10	03/23/2023 14:43	WG2028377
Fluoride	1.50	B J	0.640	1.50	10	03/23/2023 14:43	WG2028377
Nitrate	U	Q	0.480	1.00	10	03/23/2023 14:43	WG2028377
Nitrite	U	Q	0.420	1.00	10	03/23/2023 14:43	WG2028377
Sulfate	1250		5.94	50.0	10	03/23/2023 14:43	WG2028377

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	03/25/2023 10:31	WG2028364
Mercury,Dissolved	U		0.000100	0.000200	1	03/25/2023 11:18	WG2028366

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	0.374		0.0200	0.200	1	03/23/2023 23:07	WG2028566
Boron,Dissolved	0.384		0.0200	0.200	1	03/23/2023 23:10	WG2028556

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00575		0.000180	0.00200	1	03/23/2023 16:27	WG2028250
Arsenic,Dissolved	0.00589		0.000180	0.00200	1	03/23/2023 19:31	WG2028258
Barium	0.0301		0.000381	0.00200	1	03/23/2023 16:27	WG2028250
Barium,Dissolved	0.0321		0.000381	0.00200	1	03/23/2023 19:31	WG2028258
Cadmium	U		0.000150	0.00100	1	03/23/2023 16:27	WG2028250
Cadmium,Dissolved	U		0.000150	0.00100	1	03/23/2023 19:31	WG2028258
Calcium	367		0.0936	1.00	1	03/23/2023 16:27	WG2028250
Chromium	U		0.00124	0.00200	1	03/23/2023 16:27	WG2028250
Chromium,Dissolved	U		0.00124	0.00200	1	03/23/2023 19:31	WG2028258
Cobalt	0.000244	J	0.0000596	0.00200	1	03/23/2023 16:27	WG2028250
Cobalt,Dissolved	0.000265	J	0.0000596	0.00200	1	03/23/2023 19:31	WG2028258
Iron	8.12		0.0281	0.100	1	03/23/2023 16:27	WG2028250
Iron,Dissolved	8.53		0.0281	0.100	1	03/23/2023 19:31	WG2028258
Lead	U		0.000849	0.00200	1	03/23/2023 16:27	WG2028250
Lead,Dissolved	U		0.000849	0.00200	1	03/23/2023 19:31	WG2028258
Manganese	0.910		0.000704	0.00500	1	03/23/2023 16:27	WG2028250
Manganese,Dissolved	0.975		0.000704	0.00500	1	03/23/2023 19:31	WG2028258
Nickel	0.00119	J	0.000816	0.00200	1	03/23/2023 16:27	WG2028250
Nickel,Dissolved	0.00105	J	0.000816	0.00200	1	03/23/2023 19:31	WG2028258
Potassium	0.772	J	0.108	2.00	1	03/23/2023 16:27	WG2028250
Selenium	U		0.000300	0.00200	1	03/23/2023 16:27	WG2028250
Selenium,Dissolved	0.000343	J	0.000300	0.00200	1	03/23/2023 19:31	WG2028258

Released to Imaging: 6/28/2024 11:23:28 AM

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Sodium	283		0.376	2.00	1	03/23/2023 16:27	WG2028250
Uranium	0.00558		0.0000789	0.00100	1	03/23/2023 16:27	WG2028250
Uranium,Dissolved	0.00560		0.0000789	0.00100	1	03/23/2023 19:31	WG2028258
Vanadium	0.00285	J	0.000664	0.00500	1	03/23/2023 16:27	WG2028250
Vanadium,Dissolved	0.00400	J	0.000664	0.00500	1	03/23/2023 19:31	WG2028258

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	0.335	B	0.0314	0.100	1	03/25/2023 21:49	WG2029674
(S) a,a,a-Trifluorotoluene(FID)	*97.9*			*78.0-120*		*03/25/2023 21:49*	WG2029674

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	03/26/2023 18:32	WG2030330
Benzene	0.0174		0.0000941	0.00100	1	03/26/2023 18:32	WG2030330
Bromodichloromethane	U		0.000136	0.00100	1	03/26/2023 18:32	WG2030330
Bromoform	U		0.000129	0.00100	1	03/26/2023 18:32	WG2030330
Bromomethane	U		0.000605	0.00500	1	03/26/2023 18:32	WG2030330
n-Butylbenzene	U		0.000157	0.00100	1	03/26/2023 18:32	WG2030330
sec-Butylbenzene	0.00126		0.000125	0.00100	1	03/26/2023 18:32	WG2030330
Carbon disulfide	0.000305	J	0.0000962	0.00100	1	03/26/2023 18:32	WG2030330
Carbon tetrachloride	U		0.000128	0.00100	1	03/26/2023 18:32	WG2030330
Chlorobenzene	U		0.000116	0.00100	1	03/26/2023 18:32	WG2030330
Chlorodibromomethane	U		0.000140	0.00100	1	03/26/2023 18:32	WG2030330
Chloroethane	U		0.000192	0.00500	1	03/26/2023 18:32	WG2030330
Chloroform	U		0.000111	0.00500	1	03/26/2023 18:32	WG2030330
Chloromethane	U		0.000960	0.00250	1	03/26/2023 18:32	WG2030330
1,2-Dibromoethane	U		0.000126	0.00100	1	03/26/2023 18:32	WG2030330
1,1-Dichloroethane	U		0.000100	0.00100	1	03/26/2023 18:32	WG2030330
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/26/2023 18:32	WG2030330
1,1-Dichloroethene	U		0.000188	0.00100	1	03/26/2023 18:32	WG2030330
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/26/2023 18:32	WG2030330
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/26/2023 18:32	WG2030330
1,2-Dichloropropane	U		0.000149	0.00100	1	03/26/2023 18:32	WG2030330
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/26/2023 18:32	WG2030330
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/26/2023 18:32	WG2030330
Ethylbenzene	0.000343	J	0.000137	0.00100	1	03/26/2023 18:32	WG2030330
Isopropylbenzene	0.00343		0.000105	0.00100	1	03/26/2023 18:32	WG2030330
p-Isopropyltoluene	U		0.000120	0.00100	1	03/26/2023 18:32	WG2030330
2-Butanone (MEK)	U		0.00119	0.0100	1	03/26/2023 18:32	WG2030330
2-Hexanone	U		0.000787	0.0100	1	03/26/2023 18:32	WG2030330
Methylene Chloride	U		0.000430	0.00500	1	03/26/2023 18:32	WG2030330
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/26/2023 18:32	WG2030330
Methyl tert-butyl ether	0.000877	J	0.000101	0.00100	1	03/26/2023 18:32	WG2030330
Naphthalene	U	J3 J4	0.00100	0.00500	1	03/26/2023 18:32	WG2030330
n-Propylbenzene	0.000377	J	0.0000993	0.00100	1	03/26/2023 18:32	WG2030330
Styrene	U		0.000118	0.00100	1	03/26/2023 18:32	WG2030330
tert-Butyl alcohol	0.0444		0.00406	0.00500	1	03/26/2023 18:32	WG2030330
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/26/2023 18:32	WG2030330
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/26/2023 18:32	WG2030330
Tetrachloroethene	U		0.000300	0.00100	1	03/26/2023 18:32	WG2030330
Toluene	U		0.000278	0.00100	1	03/26/2023 18:32	WG2030330
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/26/2023 18:32	WG2030330

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/26/2023 18:32	WG2030330
Trichloroethene	U		0.000190	0.00100	1	03/26/2023 18:32	WG2030330
1,2,4-Trimethylbenzene	0.000727	J	0.000322	0.00100	1	03/26/2023 18:32	WG2030330
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/26/2023 18:32	WG2030330
Vinyl chloride	U		0.000234	0.00100	1	03/26/2023 18:32	WG2030330
o-Xylene	U		0.000174	0.00100	1	03/26/2023 18:32	WG2030330
m&p-Xylene	U		0.000430	0.00200	1	03/26/2023 18:32	WG2030330
Xylenes, Total	U		0.000174	0.00300	1	03/26/2023 18:32	WG2030330
(S) Toluene-d8	*94.1*			*80.0-120*		*03/26/2023 18:32*	WG2030330
(S) 4-Bromofluorobenzene	*88.5*			*77.0-126*		*03/26/2023 18:32*	WG2030330
(S) 1,2-Dichloroethane-d4	*85.1*			*70.0-130*		*03/26/2023 18:32*	WG2030330

EDB / DBCP by Method 8011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Ethylene Dibromide	U		0.00000579	0.0000216	1.08	03/28/2023 15:48	WG2031055

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	1.70		0.0247	0.100	1	03/28/2023 16:38	WG2031027
(S) o-Terphenyl	*123*			*31.0-160*		*03/28/2023 16:38*	WG2031027

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3060		100	1	03/23/2023 23:29	WG2028853

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	298		3.79	10.0	10	03/23/2023 03:17	WG2028372
Fluoride	3.59		0.640	1.50	10	03/23/2023 03:17	WG2028372
Nitrate	2.83		0.480	1.00	10	03/23/2023 03:17	WG2028372
Nitrite	U		0.420	1.00	10	03/23/2023 03:17	WG2028372
Sulfate	1680		5.94	50.0	10	03/23/2023 03:17	WG2028372

Sample Narrative:

L1597201-42 WG2028372: Dilution due to matrix.

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U	J6	0.000100	0.000200	1	03/29/2023 08:42	WG2030838
Mercury,Dissolved	U	J6	0.000100	0.000200	1	03/29/2023 09:03	WG2030839

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	0.333	B	0.0200	0.200	1	03/28/2023 18:20	WG2031062
Boron,Dissolved	0.332		0.0200	0.200	1	03/28/2023 18:40	WG2031073

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00290		0.000180	0.00200	1	03/23/2023 16:37	WG2028250
Arsenic,Dissolved	0.00298		0.000180	0.00200	1	03/23/2023 19:34	WG2028258
Barium	0.00984		0.000381	0.00200	1	03/23/2023 16:37	WG2028250
Barium,Dissolved	0.0105		0.000381	0.00200	1	03/23/2023 19:34	WG2028258
Cadmium	U		0.000150	0.00100	1	03/23/2023 16:37	WG2028250
Cadmium,Dissolved	U		0.000150	0.00100	1	03/23/2023 19:34	WG2028258
Calcium	503		0.0936	1.00	1	03/23/2023 16:37	WG2028250
Chromium	0.00156	B J	0.00124	0.00200	1	03/23/2023 16:37	WG2028250
Chromium,Dissolved	U		0.00124	0.00200	1	03/23/2023 19:34	WG2028258
Cobalt	0.000883	J	0.0000596	0.00200	1	03/23/2023 16:37	WG2028250
Cobalt,Dissolved	0.000929	J	0.0000596	0.00200	1	03/23/2023 19:34	WG2028258
Iron	0.0535	J	0.0281	0.100	1	03/23/2023 16:37	WG2028250
Iron,Dissolved	U		0.0281	0.100	1	03/23/2023 19:34	WG2028258
Lead	U		0.000849	0.00200	1	03/23/2023 16:37	WG2028250
Lead,Dissolved	U		0.000849	0.00200	1	03/23/2023 19:34	WG2028258
Manganese	0.00446	J	0.000704	0.00500	1	03/23/2023 16:37	WG2028250
Manganese,Dissolved	0.00403	J	0.000704	0.00500	1	03/23/2023 19:34	WG2028258
Nickel	0.00397		0.000816	0.00200	1	03/23/2023 16:37	WG2028250
Nickel,Dissolved	0.00386		0.000816	0.00200	1	03/23/2023 19:34	WG2028258
Potassium	5.40		0.108	2.00	1	03/23/2023 16:37	WG2028250
Selenium	0.00448		0.000300	0.00200	1	03/23/2023 16:37	WG2028250
Selenium,Dissolved	0.00471		0.000300	0.00200	1	03/23/2023 19:34	WG2028258
Sodium	167		0.376	2.00	1	03/23/2023 16:37	WG2028250
Uranium	0.0109		0.0000789	0.00100	1	03/23/2023 16:37	WG2028250
Uranium,Dissolved	0.0114		0.0000789	0.00100	1	03/23/2023 19:34	WG2028258

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Vanadium	0.0149		0.000664	0.00500	1	03/23/2023 16:37	WG2028250
Vanadium,Dissolved	0.0162		0.000664	0.00500	1	03/23/2023 19:34	WG2028258

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	0.0572	B J	0.0314	0.100	1	03/25/2023 22:10	WG2029674
(S) a,a,a-Trifluorotoluene(FID)	*98.3*			*78.0-120*		*03/25/2023 22:10*	WG2029674

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	03/26/2023 18:54	WG2030330
Benzene	U		0.0000941	0.00100	1	03/26/2023 18:54	WG2030330
Bromodichloromethane	U		0.000136	0.00100	1	03/26/2023 18:54	WG2030330
Bromoform	U		0.000129	0.00100	1	03/26/2023 18:54	WG2030330
Bromomethane	U		0.000605	0.00500	1	03/26/2023 18:54	WG2030330
n-Butylbenzene	U		0.000157	0.00100	1	03/26/2023 18:54	WG2030330
sec-Butylbenzene	U		0.000125	0.00100	1	03/26/2023 18:54	WG2030330
Carbon disulfide	U		0.0000962	0.00100	1	03/26/2023 18:54	WG2030330
Carbon tetrachloride	U		0.000128	0.00100	1	03/26/2023 18:54	WG2030330
Chlorobenzene	U		0.000116	0.00100	1	03/26/2023 18:54	WG2030330
Chlorodibromomethane	U		0.000140	0.00100	1	03/26/2023 18:54	WG2030330
Chloroethane	U		0.000192	0.00500	1	03/26/2023 18:54	WG2030330
Chloroform	U		0.000111	0.00500	1	03/26/2023 18:54	WG2030330
Chloromethane	U		0.000960	0.00250	1	03/26/2023 18:54	WG2030330
1,2-Dibromoethane	U		0.000126	0.00100	1	03/26/2023 18:54	WG2030330
1,1-Dichloroethane	U		0.000100	0.00100	1	03/26/2023 18:54	WG2030330
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/26/2023 18:54	WG2030330
1,1-Dichloroethene	U		0.000188	0.00100	1	03/26/2023 18:54	WG2030330
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/26/2023 18:54	WG2030330
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/26/2023 18:54	WG2030330
1,2-Dichloropropane	U		0.000149	0.00100	1	03/26/2023 18:54	WG2030330
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/26/2023 18:54	WG2030330
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/26/2023 18:54	WG2030330
Ethylbenzene	U		0.000137	0.00100	1	03/26/2023 18:54	WG2030330
Isopropylbenzene	U		0.000105	0.00100	1	03/26/2023 18:54	WG2030330
p-Isopropyltoluene	U		0.000120	0.00100	1	03/26/2023 18:54	WG2030330
2-Butanone (MEK)	U		0.00119	0.0100	1	03/26/2023 18:54	WG2030330
2-Hexanone	U		0.000787	0.0100	1	03/26/2023 18:54	WG2030330
Methylene Chloride	U		0.000430	0.00500	1	03/26/2023 18:54	WG2030330
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/26/2023 18:54	WG2030330
Methyl tert-butyl ether	0.0166		0.000101	0.00100	1	03/26/2023 18:54	WG2030330
Naphthalene	U	J3 J4	0.00100	0.00500	1	03/26/2023 18:54	WG2030330
n-Propylbenzene	U		0.0000993	0.00100	1	03/26/2023 18:54	WG2030330
Styrene	U		0.000118	0.00100	1	03/26/2023 18:54	WG2030330
tert-Butyl alcohol	U		0.00406	0.00500	1	03/26/2023 18:54	WG2030330
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/26/2023 18:54	WG2030330
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/26/2023 18:54	WG2030330
Tetrachloroethene	U		0.000300	0.00100	1	03/26/2023 18:54	WG2030330
Toluene	U		0.000278	0.00100	1	03/26/2023 18:54	WG2030330
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/26/2023 18:54	WG2030330
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/26/2023 18:54	WG2030330
Trichloroethene	U		0.000190	0.00100	1	03/26/2023 18:54	WG2030330
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/26/2023 18:54	WG2030330

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/26/2023 18:54	WG2030330
Vinyl chloride	U		0.000234	0.00100	1	03/26/2023 18:54	WG2030330
o-Xylene	U		0.000174	0.00100	1	03/26/2023 18:54	WG2030330
m&p-Xylene	U		0.000430	0.00200	1	03/26/2023 18:54	WG2030330
Xylenes, Total	U		0.000174	0.00300	1	03/26/2023 18:54	WG2030330
(S) Toluene-d8	*94.6*			*80.0-120*		*03/26/2023 18:54*	WG2030330
(S) 4-Bromofluorobenzene	*81.3*			*77.0-126*		*03/26/2023 18:54*	WG2030330
(S) 1,2-Dichloroethane-d4	*92.9*			*70.0-130*		*03/26/2023 18:54*	WG2030330

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	0.359	B	0.0247	0.100	1	03/28/2023 16:58	WG2031027
(S) o-Terphenyl	*79.5*			*31.0-160*		*03/28/2023 16:58*	WG2031027

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	4330		50.0	1	03/23/2023 23:29	WG2028853

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	248		3.79	10.0	10	03/23/2023 03:33	WG2028372
Fluoride	5.29		0.640	1.50	10	03/23/2023 03:33	WG2028372
Nitrate	4.10		0.480	1.00	10	03/23/2023 03:33	WG2028372
Nitrite	U		0.420	1.00	10	03/23/2023 03:33	WG2028372
Sulfate	2660		59.4	500	100	03/23/2023 09:40	WG2028372

Sample Narrative:

L1597201-43 WG2028372: Dilution due to matrix.

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	03/29/2023 08:49	WG2030838
Mercury,Dissolved	U		0.000100	0.000200	1	03/29/2023 09:11	WG2030839

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Boron	0.656		0.0200	0.200	1	03/28/2023 18:23	WG2031062
Boron,Dissolved	0.648		0.0200	0.200	1	03/28/2023 18:51	WG2031073

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00603		0.000180	0.00200	1	03/23/2023 16:40	WG2028250
Arsenic,Dissolved	0.00622		0.000180	0.00200	1	03/23/2023 19:37	WG2028258
Barium	0.0131		0.000381	0.00200	1	03/23/2023 16:40	WG2028250
Barium,Dissolved	0.0144		0.000381	0.00200	1	03/23/2023 19:37	WG2028258
Cadmium	U		0.000150	0.00100	1	03/23/2023 16:40	WG2028250
Cadmium,Dissolved	U		0.000150	0.00100	1	03/23/2023 19:37	WG2028258
Calcium	548		0.0936	1.00	1	03/23/2023 16:40	WG2028250
Chromium	0.00231	B	0.00124	0.00200	1	03/23/2023 16:40	WG2028250
Chromium,Dissolved	U		0.00124	0.00200	1	03/23/2023 19:37	WG2028258
Cobalt	0.000241	J	0.0000596	0.00200	1	03/23/2023 16:40	WG2028250
Cobalt,Dissolved	0.000206	J	0.0000596	0.00200	1	03/23/2023 19:37	WG2028258
Iron	0.0684	J	0.0281	0.100	1	03/23/2023 16:40	WG2028250
Iron,Dissolved	0.0528	J	0.0281	0.100	1	03/23/2023 19:37	WG2028258
Lead	U		0.000849	0.00200	1	03/23/2023 16:40	WG2028250
Lead,Dissolved	U		0.000849	0.00200	1	03/23/2023 19:37	WG2028258
Manganese	0.0535		0.000704	0.00500	1	03/23/2023 16:40	WG2028250
Manganese,Dissolved	0.0526		0.000704	0.00500	1	03/23/2023 19:37	WG2028258
Nickel	0.00297		0.000816	0.00200	1	03/23/2023 16:40	WG2028250
Nickel,Dissolved	0.00258		0.000816	0.00200	1	03/23/2023 19:37	WG2028258
Potassium	2.38		0.108	2.00	1	03/23/2023 16:40	WG2028250
Selenium	0.0106		0.000300	0.00200	1	03/23/2023 16:40	WG2028250
Selenium,Dissolved	0.0115		0.000300	0.00200	1	03/23/2023 19:37	WG2028258
Sodium	180		0.376	2.00	1	03/23/2023 16:40	WG2028250
Uranium	0.0490		0.0000789	0.00100	1	03/23/2023 16:40	WG2028250
Uranium,Dissolved	0.0506		0.0000789	0.00100	1	03/23/2023 19:37	WG2028258

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Vanadium	0.0298		0.000664	0.00500	1	03/23/2023 16:40	WG2028250
Vanadium,Dissolved	0.0325		0.000664	0.00500	1	03/23/2023 19:37	WG2028258

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	0.0319	B J	0.0314	0.100	1	03/25/2023 22:32	WG2029674
(S) a,a,a-Trifluorotoluene(FID)	*98.1*			*78.0-120*		*03/25/2023 22:32*	WG2029674

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	03/26/2023 19:16	WG2030330
Benzene	U		0.0000941	0.00100	1	03/26/2023 19:16	WG2030330
Bromodichloromethane	U		0.000136	0.00100	1	03/26/2023 19:16	WG2030330
Bromoform	U		0.000129	0.00100	1	03/26/2023 19:16	WG2030330
Bromomethane	U		0.000605	0.00500	1	03/26/2023 19:16	WG2030330
n-Butylbenzene	U		0.000157	0.00100	1	03/26/2023 19:16	WG2030330
sec-Butylbenzene	U		0.000125	0.00100	1	03/26/2023 19:16	WG2030330
Carbon disulfide	U		0.0000962	0.00100	1	03/26/2023 19:16	WG2030330
Carbon tetrachloride	U		0.000128	0.00100	1	03/26/2023 19:16	WG2030330
Chlorobenzene	U		0.000116	0.00100	1	03/26/2023 19:16	WG2030330
Chlorodibromomethane	U		0.000140	0.00100	1	03/26/2023 19:16	WG2030330
Chloroethane	U		0.000192	0.00500	1	03/26/2023 19:16	WG2030330
Chloroform	U		0.000111	0.00500	1	03/26/2023 19:16	WG2030330
Chloromethane	U		0.000960	0.00250	1	03/26/2023 19:16	WG2030330
1,2-Dibromoethane	U		0.000126	0.00100	1	03/26/2023 19:16	WG2030330
1,1-Dichloroethane	U		0.000100	0.00100	1	03/26/2023 19:16	WG2030330
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/26/2023 19:16	WG2030330
1,1-Dichloroethene	U		0.000188	0.00100	1	03/26/2023 19:16	WG2030330
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/26/2023 19:16	WG2030330
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/26/2023 19:16	WG2030330
1,2-Dichloropropane	U		0.000149	0.00100	1	03/26/2023 19:16	WG2030330
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/26/2023 19:16	WG2030330
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/26/2023 19:16	WG2030330
Ethylbenzene	U		0.000137	0.00100	1	03/26/2023 19:16	WG2030330
Isopropylbenzene	U		0.000105	0.00100	1	03/26/2023 19:16	WG2030330
p-Isopropyltoluene	U		0.000120	0.00100	1	03/26/2023 19:16	WG2030330
2-Butanone (MEK)	U		0.00119	0.0100	1	03/26/2023 19:16	WG2030330
2-Hexanone	U		0.000787	0.0100	1	03/26/2023 19:16	WG2030330
Methylene Chloride	U		0.000430	0.00500	1	03/26/2023 19:16	WG2030330
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/26/2023 19:16	WG2030330
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/26/2023 19:16	WG2030330
Naphthalene	U	J3 J4	0.00100	0.00500	1	03/26/2023 19:16	WG2030330
n-Propylbenzene	U		0.0000993	0.00100	1	03/26/2023 19:16	WG2030330
Styrene	U		0.000118	0.00100	1	03/26/2023 19:16	WG2030330
tert-Butyl alcohol	U		0.00406	0.00500	1	03/26/2023 19:16	WG2030330
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/26/2023 19:16	WG2030330
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/26/2023 19:16	WG2030330
Tetrachloroethene	U		0.000300	0.00100	1	03/26/2023 19:16	WG2030330
Toluene	U		0.000278	0.00100	1	03/26/2023 19:16	WG2030330
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/26/2023 19:16	WG2030330
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/26/2023 19:16	WG2030330
Trichloroethene	U		0.000190	0.00100	1	03/26/2023 19:16	WG2030330
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/26/2023 19:16	WG2030330

MW-116
Collected date/time: 03/21/23 11:20
L1597201

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/26/2023 19:16	WG2030330
Vinyl chloride	U		0.000234	0.00100	1	03/26/2023 19:16	WG2030330
o-Xylene	U		0.000174	0.00100	1	03/26/2023 19:16	WG2030330
m&p-Xylene	U		0.000430	0.00200	1	03/26/2023 19:16	WG2030330
Xylenes, Total	U		0.000174	0.00300	1	03/26/2023 19:16	WG2030330
(S) Toluene-d8	*97.9*			*80.0-120*		*03/26/2023 19:16*	WG2030330
(S) 4-Bromofluorobenzene	*83.9*			*77.0-126*		*03/26/2023 19:16*	WG2030330
(S) 1,2-Dichloroethane-d4	*84.4*			*70.0-130*		*03/26/2023 19:16*	WG2030330

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	0.0763	B J	0.0247	0.100	1	03/29/2023 13:45	WG2031027
(S) o-Terphenyl	*115*			*31.0-160*		*03/29/2023 13:45*	WG2031027

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	3460		50.0	1	03/23/2023 22:45	WG2028928

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	270		3.79	10.0	10	03/22/2023 23:40	WG2028210
Fluoride	1.63		0.640	1.50	10	03/22/2023 23:40	WG2028210
Nitrate	U		0.480	1.00	10	03/22/2023 23:40	WG2028210
Nitrite	U		0.420	1.00	10	03/22/2023 23:40	WG2028210
Sulfate	2240		59.4	500	100	03/23/2023 03:44	WG2028210

Sample Narrative:

L1597201-44 WG2028210: Dilution due to matrix.

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	03/29/2023 08:51	WG2030838
Mercury,Dissolved	U		0.000100	0.000200	1	03/29/2023 09:13	WG2030839

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Boron	0.525		0.0200	0.200	1	03/28/2023 18:09	WG2031062
Boron,Dissolved	0.507		0.0200	0.200	1	03/28/2023 18:55	WG2031073

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00429		0.000180	0.00200	1	03/23/2023 16:43	WG2028250
Arsenic,Dissolved	0.00423		0.000180	0.00200	1	03/23/2023 19:57	WG2028259
Barium	0.0107		0.000381	0.00200	1	03/23/2023 16:43	WG2028250
Barium,Dissolved	0.00937		0.000381	0.00200	1	03/23/2023 19:57	WG2028259
Cadmium	U		0.000150	0.00100	1	03/23/2023 16:43	WG2028250
Cadmium,Dissolved	U		0.000150	0.00100	1	03/23/2023 19:57	WG2028259
Calcium	546		0.0936	1.00	1	03/23/2023 16:43	WG2028250
Chromium	0.00135	B J	0.00124	0.00200	1	03/23/2023 16:43	WG2028250
Chromium,Dissolved	U	J4	0.00124	0.00200	1	03/23/2023 19:57	WG2028259
Cobalt	0.0000919	J	0.0000596	0.00200	1	03/23/2023 16:43	WG2028250
Cobalt,Dissolved	0.0000884	J	0.0000596	0.00200	1	03/23/2023 19:57	WG2028259
Iron	0.0917	J	0.0281	0.100	1	03/23/2023 16:43	WG2028250
Iron,Dissolved	U		0.0281	0.100	1	03/23/2023 19:57	WG2028259
Lead	U		0.000849	0.00200	1	03/23/2023 16:43	WG2028250
Lead,Dissolved	U		0.000849	0.00200	1	03/23/2023 19:57	WG2028259
Manganese	0.00669		0.000704	0.00500	1	03/23/2023 16:43	WG2028250
Manganese,Dissolved	0.00280	J	0.000704	0.00500	1	03/23/2023 19:57	WG2028259
Nickel	0.00133	J	0.000816	0.00200	1	03/23/2023 16:43	WG2028250
Nickel,Dissolved	0.00136	J	0.000816	0.00200	1	03/23/2023 19:57	WG2028259
Potassium	0.631	J	0.108	2.00	1	03/23/2023 16:43	WG2028250
Selenium	0.00504		0.000300	0.00200	1	03/23/2023 16:43	WG2028250
Selenium,Dissolved	0.00510		0.000300	0.00200	1	03/23/2023 19:57	WG2028259
Sodium	176		0.376	2.00	1	03/23/2023 16:43	WG2028250
Uranium	0.0471		0.0000789	0.00100	1	03/23/2023 16:43	WG2028250
Uranium,Dissolved	0.0480	O1	0.0000789	0.00100	1	03/23/2023 19:57	WG2028259

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Vanadium	0.0179		0.000664	0.00500	1	03/23/2023 16:43	WG2028250
Vanadium,Dissolved	0.0203		0.000664	0.00500	1	03/23/2023 19:57	WG2028259

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	03/25/2023 22:54	WG2029674
(S) a,a,a-Trifluorotoluene(FID)	*98.8*			*78.0-120*		*03/25/2023 22:54*	WG2029674

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	03/26/2023 19:37	WG2030330
Benzene	U		0.0000941	0.00100	1	03/26/2023 19:37	WG2030330
Bromodichloromethane	U		0.000136	0.00100	1	03/26/2023 19:37	WG2030330
Bromoform	U		0.000129	0.00100	1	03/26/2023 19:37	WG2030330
Bromomethane	U		0.000605	0.00500	1	03/26/2023 19:37	WG2030330
n-Butylbenzene	U		0.000157	0.00100	1	03/26/2023 19:37	WG2030330
sec-Butylbenzene	U		0.000125	0.00100	1	03/26/2023 19:37	WG2030330
Carbon disulfide	U		0.0000962	0.00100	1	03/26/2023 19:37	WG2030330
Carbon tetrachloride	U		0.000128	0.00100	1	03/26/2023 19:37	WG2030330
Chlorobenzene	U		0.000116	0.00100	1	03/26/2023 19:37	WG2030330
Chlorodibromomethane	U		0.000140	0.00100	1	03/26/2023 19:37	WG2030330
Chloroethane	U		0.000192	0.00500	1	03/26/2023 19:37	WG2030330
Chloroform	U		0.000111	0.00500	1	03/26/2023 19:37	WG2030330
Chloromethane	U		0.000960	0.00250	1	03/26/2023 19:37	WG2030330
1,2-Dibromoethane	U		0.000126	0.00100	1	03/26/2023 19:37	WG2030330
1,1-Dichloroethane	U		0.000100	0.00100	1	03/26/2023 19:37	WG2030330
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/26/2023 19:37	WG2030330
1,1-Dichloroethene	U		0.000188	0.00100	1	03/26/2023 19:37	WG2030330
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/26/2023 19:37	WG2030330
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/26/2023 19:37	WG2030330
1,2-Dichloropropane	U		0.000149	0.00100	1	03/26/2023 19:37	WG2030330
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/26/2023 19:37	WG2030330
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/26/2023 19:37	WG2030330
Ethylbenzene	U		0.000137	0.00100	1	03/26/2023 19:37	WG2030330
Isopropylbenzene	U		0.000105	0.00100	1	03/26/2023 19:37	WG2030330
p-Isopropyltoluene	U		0.000120	0.00100	1	03/26/2023 19:37	WG2030330
2-Butanone (MEK)	U		0.00119	0.0100	1	03/26/2023 19:37	WG2030330
2-Hexanone	U		0.000787	0.0100	1	03/26/2023 19:37	WG2030330
Methylene Chloride	U		0.000430	0.00500	1	03/26/2023 19:37	WG2030330
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/26/2023 19:37	WG2030330
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/26/2023 19:37	WG2030330
Naphthalene	U	J3 J4	0.00100	0.00500	1	03/26/2023 19:37	WG2030330
n-Propylbenzene	U		0.0000993	0.00100	1	03/26/2023 19:37	WG2030330
Styrene	U		0.000118	0.00100	1	03/26/2023 19:37	WG2030330
tert-Butyl alcohol	U		0.00406	0.00500	1	03/26/2023 19:37	WG2030330
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/26/2023 19:37	WG2030330
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/26/2023 19:37	WG2030330
Tetrachloroethene	U		0.000300	0.00100	1	03/26/2023 19:37	WG2030330
Toluene	U		0.000278	0.00100	1	03/26/2023 19:37	WG2030330
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/26/2023 19:37	WG2030330
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/26/2023 19:37	WG2030330
Trichloroethene	U		0.000190	0.00100	1	03/26/2023 19:37	WG2030330
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/26/2023 19:37	WG2030330

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/26/2023 19:37	WG2030330
Vinyl chloride	U		0.000234	0.00100	1	03/26/2023 19:37	WG2030330
o-Xylene	U		0.000174	0.00100	1	03/26/2023 19:37	WG2030330
m&p-Xylene	U		0.000430	0.00200	1	03/26/2023 19:37	WG2030330
Xylenes, Total	U		0.000174	0.00300	1	03/26/2023 19:37	WG2030330
(S) Toluene-d8	*95.7*			*80.0-120*		*03/26/2023 19:37*	WG2030330
(S) 4-Bromofluorobenzene	*78.6*			*77.0-126*		*03/26/2023 19:37*	WG2030330
(S) 1,2-Dichloroethane-d4	*85.5*			*70.0-130*		*03/26/2023 19:37*	WG2030330

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	0.0922	B J	0.0247	0.100	1	03/28/2023 17:39	WG2031027
(S) o-Terphenyl	*82.6*			*31.0-160*		*03/28/2023 17:39*	WG2031027

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	5660		100	1	03/23/2023 22:45	WG2028928

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	206		3.79	10.0	10	03/22/2023 20:33	WG2028309
Fluoride	2.18		0.640	1.50	10	03/22/2023 20:33	WG2028309
Nitrate	0.642	J	0.480	1.00	10	03/22/2023 20:33	WG2028309
Nitrite	U		0.420	1.00	10	03/22/2023 20:33	WG2028309
Sulfate	2850		59.4	500	100	03/23/2023 02:58	WG2028309

Sample Narrative:

L1597201-45 WG2028309: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00376		0.000180	0.00200	1	03/23/2023 16:46	WG2028250
Arsenic,Dissolved	0.00348	B	0.000180	0.00200	1	03/23/2023 20:10	WG2028259
Barium	0.00974		0.000381	0.00200	1	03/23/2023 16:46	WG2028250
Barium,Dissolved	0.00893		0.000381	0.00200	1	03/23/2023 20:10	WG2028259
Calcium	488		0.0936	1.00	1	03/23/2023 16:46	WG2028250
Chromium	U		0.00124	0.00200	1	03/23/2023 16:46	WG2028250
Chromium,Dissolved	U	J4	0.00124	0.00200	1	03/23/2023 20:10	WG2028259
Iron	0.108		0.0281	0.100	1	03/23/2023 16:46	WG2028250
Iron,Dissolved	U		0.0281	0.100	1	03/23/2023 20:10	WG2028259
Lead	U		0.000849	0.00200	1	03/23/2023 16:46	WG2028250
Lead,Dissolved	U		0.000849	0.00200	1	03/23/2023 20:10	WG2028259
Manganese	0.00577		0.000704	0.00500	1	03/23/2023 16:46	WG2028250
Manganese,Dissolved	0.00469	J	0.000704	0.00500	1	03/23/2023 20:10	WG2028259
Potassium	0.328	J	0.108	2.00	1	03/23/2023 16:46	WG2028250
Selenium	0.00777		0.000300	0.00200	1	03/23/2023 16:46	WG2028250
Selenium,Dissolved	0.00781		0.000300	0.00200	1	03/23/2023 20:10	WG2028259
Sodium	229		0.376	2.00	1	03/23/2023 16:46	WG2028250

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	03/26/2023 19:59	WG2030330
Benzene	U		0.0000941	0.00100	1	03/26/2023 19:59	WG2030330
Bromodichloromethane	U		0.000136	0.00100	1	03/26/2023 19:59	WG2030330
Bromoform	U		0.000129	0.00100	1	03/26/2023 19:59	WG2030330
Bromomethane	U		0.000605	0.00500	1	03/26/2023 19:59	WG2030330
n-Butylbenzene	U		0.000157	0.00100	1	03/26/2023 19:59	WG2030330
sec-Butylbenzene	U		0.000125	0.00100	1	03/26/2023 19:59	WG2030330
Carbon disulfide	U		0.0000962	0.00100	1	03/26/2023 19:59	WG2030330
Carbon tetrachloride	U		0.000128	0.00100	1	03/26/2023 19:59	WG2030330
Chlorobenzene	U		0.000116	0.00100	1	03/26/2023 19:59	WG2030330
Chlorodibromomethane	U		0.000140	0.00100	1	03/26/2023 19:59	WG2030330
Chloroethane	U		0.000192	0.00500	1	03/26/2023 19:59	WG2030330
Chloroform	U		0.000111	0.00500	1	03/26/2023 19:59	WG2030330
Chloromethane	U		0.000960	0.00250	1	03/26/2023 19:59	WG2030330
1,2-Dibromoethane	U		0.000126	0.00100	1	03/26/2023 19:59	WG2030330
1,1-Dichloroethane	U		0.000100	0.00100	1	03/26/2023 19:59	WG2030330

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	03/26/2023 19:59	WG2030330
1,1-Dichloroethene	U		0.000188	0.00100	1	03/26/2023 19:59	WG2030330
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/26/2023 19:59	WG2030330
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/26/2023 19:59	WG2030330
1,2-Dichloropropane	U		0.000149	0.00100	1	03/26/2023 19:59	WG2030330
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/26/2023 19:59	WG2030330
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/26/2023 19:59	WG2030330
Ethylbenzene	U		0.000137	0.00100	1	03/26/2023 19:59	WG2030330
Isopropylbenzene	U		0.000105	0.00100	1	03/26/2023 19:59	WG2030330
p-Isopropyltoluene	U		0.000120	0.00100	1	03/26/2023 19:59	WG2030330
2-Butanone (MEK)	U		0.00119	0.0100	1	03/26/2023 19:59	WG2030330
2-Hexanone	U		0.000787	0.0100	1	03/26/2023 19:59	WG2030330
Methylene Chloride	U		0.000430	0.00500	1	03/26/2023 19:59	WG2030330
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/26/2023 19:59	WG2030330
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/26/2023 19:59	WG2030330
Naphthalene	U	J3 J4	0.00100	0.00500	1	03/26/2023 19:59	WG2030330
n-Propylbenzene	U		0.0000993	0.00100	1	03/26/2023 19:59	WG2030330
Styrene	U		0.000118	0.00100	1	03/26/2023 19:59	WG2030330
tert-Butyl alcohol	U		0.00406	0.00500	1	03/26/2023 19:59	WG2030330
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/26/2023 19:59	WG2030330
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/26/2023 19:59	WG2030330
Tetrachloroethene	U		0.000300	0.00100	1	03/26/2023 19:59	WG2030330
Toluene	U		0.000278	0.00100	1	03/26/2023 19:59	WG2030330
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/26/2023 19:59	WG2030330
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/26/2023 19:59	WG2030330
Trichloroethene	U		0.000190	0.00100	1	03/26/2023 19:59	WG2030330
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/26/2023 19:59	WG2030330
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/26/2023 19:59	WG2030330
Vinyl chloride	U		0.000234	0.00100	1	03/26/2023 19:59	WG2030330
o-Xylene	U		0.000174	0.00100	1	03/26/2023 19:59	WG2030330
m&p-Xylene	U		0.000430	0.00200	1	03/26/2023 19:59	WG2030330
Xylenes, Total	U		0.000174	0.00300	1	03/26/2023 19:59	WG2030330
(S) Toluene-d8	*96.6*			*80.0-120*		*03/26/2023 19:59*	WG2030330
(S) 4-Bromofluorobenzene	*80.7*			*77.0-126*		*03/26/2023 19:59*	WG2030330
(S) 1,2-Dichloroethane-d4	*88.1*			*70.0-130*		*03/26/2023 19:59*	WG2030330

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	0.207	B	0.0247	0.100	1	03/28/2023 17:59	WG2031027
(S) o-Terphenyl	*130*			*31.0-160*		*03/28/2023 17:59*	WG2031027

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	3390		50.0	1	03/23/2023 22:45	WG2028928

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		0.00360	0.0100	2	03/26/2023 18:52	WG2028779

Sample Narrative:

L1597201-46 WG2028779: Dilution due to matrix.

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	320		3.79	10.0	10	03/22/2023 20:49	WG2028309
Fluoride	1.48	J	0.640	1.50	10	03/22/2023 20:49	WG2028309
Nitrate	6.81		0.480	1.00	10	03/22/2023 20:49	WG2028309
Nitrate	9.58	Q	0.480	1.00	10	03/28/2023 03:18	WG2030997
Nitrite	U		0.420	1.00	10	03/22/2023 20:49	WG2028309
Sulfate	1660		5.94	50.0	10	03/22/2023 20:49	WG2028309

Sample Narrative:

L1597201-46 WG2028309, WG2030997: Dilution due to matrix.

L1597201-46 WG2028309, WG2030997: Nitrate reporting twice due to QC failure.

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	03/25/2023 10:33	WG2028364
Mercury,Dissolved	U		0.000100	0.000200	1	03/25/2023 11:20	WG2028366

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Boron	0.523		0.0200	0.200	1	03/23/2023 23:09	WG2028566
Boron,Dissolved	0.517		0.0200	0.200	1	03/24/2023 16:09	WG2028557

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00255		0.000180	0.00200	1	03/23/2023 16:50	WG2028250
Arsenic,Dissolved	0.00261	B	0.000180	0.00200	1	03/23/2023 20:13	WG2028259
Barium	0.0108		0.000381	0.00200	1	03/23/2023 16:50	WG2028250
Barium,Dissolved	0.0164		0.000381	0.00200	1	03/23/2023 20:13	WG2028259
Cadmium	U		0.000150	0.00100	1	03/23/2023 16:50	WG2028250
Cadmium,Dissolved	U		0.000150	0.00100	1	03/23/2023 20:13	WG2028259
Calcium	520		0.0936	1.00	1	03/23/2023 16:50	WG2028250
Chromium	U		0.00124	0.00200	1	03/23/2023 16:50	WG2028250
Chromium,Dissolved	U	J4	0.00124	0.00200	1	03/23/2023 20:13	WG2028259
Cobalt	0.000673	J	0.0000596	0.00200	1	03/23/2023 16:50	WG2028250
Cobalt,Dissolved	0.000664	J	0.0000596	0.00200	1	03/23/2023 20:13	WG2028259
Iron	0.0294	J	0.0281	0.100	1	03/23/2023 16:50	WG2028250
Iron,Dissolved	U		0.0281	0.100	1	03/23/2023 20:13	WG2028259
Lead	U		0.000849	0.00200	1	03/23/2023 16:50	WG2028250

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Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Lead,Dissolved	U		0.000849	0.00200	1	03/23/2023 20:13	WG2028259
Manganese	0.00709		0.000704	0.00500	1	03/23/2023 16:50	WG2028250
Manganese,Dissolved	0.00133	J	0.000704	0.00500	1	03/23/2023 20:13	WG2028259
Nickel	0.00223		0.000816	0.00200	1	03/23/2023 16:50	WG2028250
Nickel,Dissolved	0.00235		0.000816	0.00200	1	03/23/2023 20:13	WG2028259
Potassium	2.09		0.108	2.00	1	03/23/2023 16:50	WG2028250
Selenium	0.00655		0.000300	0.00200	1	03/23/2023 16:50	WG2028250
Selenium,Dissolved	0.00670		0.000300	0.00200	1	03/23/2023 20:13	WG2028259
Sodium	96.7		0.376	2.00	1	03/23/2023 16:50	WG2028250
Uranium	0.0347		0.0000789	0.00100	1	03/23/2023 16:50	WG2028250
Uranium,Dissolved	0.0369		0.0000789	0.00100	1	03/23/2023 20:13	WG2028259
Vanadium	0.0148		0.000664	0.00500	1	03/23/2023 16:50	WG2028250
Vanadium,Dissolved	0.0163	B	0.000664	0.00500	1	03/23/2023 20:13	WG2028259

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	0.0334	B J	0.0314	0.100	1	03/25/2023 23:16	WG2029674
(S) a,a,a-Trifluorotoluene(FID)	*98.5*			*78.0-120*		*03/25/2023 23:16*	WG2029674

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	03/27/2023 03:11	WG2030391
Benzene	U		0.0000941	0.00100	1	03/27/2023 03:11	WG2030391
Bromodichloromethane	U		0.000136	0.00100	1	03/27/2023 03:11	WG2030391
Bromoform	U		0.000129	0.00100	1	03/27/2023 03:11	WG2030391
Bromomethane	U		0.000605	0.00500	1	03/27/2023 03:11	WG2030391
n-Butylbenzene	U		0.000157	0.00100	1	03/27/2023 03:11	WG2030391
sec-Butylbenzene	U		0.000125	0.00100	1	03/27/2023 03:11	WG2030391
Carbon disulfide	U		0.0000962	0.00100	1	03/27/2023 03:11	WG2030391
Carbon tetrachloride	U		0.000128	0.00100	1	03/27/2023 03:11	WG2030391
Chlorobenzene	U		0.000116	0.00100	1	03/27/2023 03:11	WG2030391
Chlorodibromomethane	U		0.000140	0.00100	1	03/27/2023 03:11	WG2030391
Chloroethane	U		0.000192	0.00500	1	03/27/2023 03:11	WG2030391
Chloroform	U		0.000111	0.00500	1	03/27/2023 03:11	WG2030391
Chloromethane	U		0.000960	0.00250	1	03/27/2023 03:11	WG2030391
1,2-Dibromoethane	U		0.000126	0.00100	1	03/27/2023 03:11	WG2030391
1,1-Dichloroethane	U		0.000100	0.00100	1	03/27/2023 03:11	WG2030391
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/27/2023 03:11	WG2030391
1,1-Dichloroethene	U		0.000188	0.00100	1	03/27/2023 03:11	WG2030391
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/27/2023 03:11	WG2030391
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/27/2023 03:11	WG2030391
1,2-Dichloropropane	U		0.000149	0.00100	1	03/27/2023 03:11	WG2030391
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/27/2023 03:11	WG2030391
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/27/2023 03:11	WG2030391
Ethylbenzene	U		0.000137	0.00100	1	03/27/2023 03:11	WG2030391
Isopropylbenzene	U		0.000105	0.00100	1	03/27/2023 03:11	WG2030391
p-Isopropyltoluene	U		0.000120	0.00100	1	03/27/2023 03:11	WG2030391
2-Butanone (MEK)	U		0.00119	0.0100	1	03/27/2023 03:11	WG2030391
2-Hexanone	U		0.000787	0.0100	1	03/27/2023 03:11	WG2030391
Methylene Chloride	U		0.000430	0.00500	1	03/27/2023 03:11	WG2030391
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/27/2023 03:11	WG2030391
Methyl tert-butyl ether	0.000356	J	0.000101	0.00100	1	03/27/2023 03:11	WG2030391
Naphthalene	U		0.00100	0.00500	1	03/27/2023 03:11	WG2030391

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Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
n-Propylbenzene	U		0.0000993	0.00100	1	03/27/2023 03:11	WG2030391
Styrene	U		0.000118	0.00100	1	03/27/2023 03:11	WG2030391
tert-Butyl alcohol	U		0.00406	0.00500	1	03/27/2023 03:11	WG2030391
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/27/2023 03:11	WG2030391
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/27/2023 03:11	WG2030391
Tetrachloroethene	U		0.000300	0.00100	1	03/27/2023 03:11	WG2030391
Toluene	U		0.000278	0.00100	1	03/27/2023 03:11	WG2030391
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/27/2023 03:11	WG2030391
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/27/2023 03:11	WG2030391
Trichloroethene	U		0.000190	0.00100	1	03/27/2023 03:11	WG2030391
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/27/2023 03:11	WG2030391
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/27/2023 03:11	WG2030391
Vinyl chloride	U		0.000234	0.00100	1	03/27/2023 03:11	WG2030391
o-Xylene	U		0.000174	0.00100	1	03/27/2023 03:11	WG2030391
m&p-Xylene	U		0.000430	0.00200	1	03/27/2023 03:11	WG2030391
Xylenes, Total	U		0.000174	0.00300	1	03/27/2023 03:11	WG2030391
(S) Toluene-d8	*103*			*80.0-120*		*03/27/2023 03:11*	WG2030391
(S) 4-Bromofluorobenzene	*96.8*			*77.0-126*		*03/27/2023 03:11*	WG2030391
(S) 1,2-Dichloroethane-d4	*115*			*70.0-130*		*03/27/2023 03:11*	WG2030391

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	B	0.0247	0.100	1	03/28/2023 18:19	WG2031027
(S) o-Terphenyl	*118*			*31.0-160*		*03/28/2023 18:19*	WG2031027

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	03/23/2023 22:45	WG2028928

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	258		3.79	10.0	10	03/23/2023 03:49	WG2028372
Fluoride	U		0.640	1.50	10	03/23/2023 03:49	WG2028372
Nitrate	0.683	J	0.480	1.00	10	03/23/2023 03:49	WG2028372
Nitrite	U		0.420	1.00	10	03/23/2023 03:49	WG2028372
Sulfate	2060		59.4	500	100	03/23/2023 09:56	WG2028372

Sample Narrative:

L1597201-47 WG2028372: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00393		0.000180	0.00200	1	03/27/2023 14:15	WG2028251
Arsenic,Dissolved	0.00416		0.000180	0.00200	1	03/23/2023 20:16	WG2028259
Barium	0.00866		0.000381	0.00200	1	03/27/2023 14:15	WG2028251
Barium,Dissolved	0.00929		0.000381	0.00200	1	03/23/2023 20:16	WG2028259
Calcium	497		0.0936	1.00	1	03/27/2023 14:15	WG2028251
Chromium	U		0.00124	0.00200	1	03/27/2023 14:15	WG2028251
Chromium,Dissolved	U	J4	0.00124	0.00200	1	03/23/2023 20:16	WG2028259
Iron	U		0.0281	0.100	1	03/27/2023 14:15	WG2028251
Iron,Dissolved	U		0.0281	0.100	1	03/23/2023 20:16	WG2028259
Lead	U		0.000849	0.00200	1	03/27/2023 14:15	WG2028251
Lead,Dissolved	U		0.000849	0.00200	1	03/23/2023 20:16	WG2028259
Manganese	0.0504		0.000704	0.00500	1	03/27/2023 14:15	WG2028251
Manganese,Dissolved	0.0538		0.000704	0.00500	1	03/23/2023 20:16	WG2028259
Potassium	2.23		0.108	2.00	1	03/27/2023 14:15	WG2028251
Selenium	0.00254		0.000300	0.00200	1	03/27/2023 14:15	WG2028251
Selenium,Dissolved	0.00281		0.000300	0.00200	1	03/23/2023 20:16	WG2028259
Sodium	196		0.376	2.00	1	03/27/2023 14:15	WG2028251

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	03/25/2023 23:38	WG2029674
(S) a,a,a-Trifluorotoluene(FID)	*98.9*			*78.0-120*		*03/25/2023 23:38*	WG2029674

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	03/27/2023 03:31	WG2030391
Benzene	U		0.0000941	0.00100	1	03/27/2023 03:31	WG2030391
Bromodichloromethane	U		0.000136	0.00100	1	03/27/2023 03:31	WG2030391
Bromoform	U		0.000129	0.00100	1	03/27/2023 03:31	WG2030391
Bromomethane	U		0.000605	0.00500	1	03/27/2023 03:31	WG2030391
n-Butylbenzene	U		0.000157	0.00100	1	03/27/2023 03:31	WG2030391
sec-Butylbenzene	U		0.000125	0.00100	1	03/27/2023 03:31	WG2030391
Carbon disulfide	0.000172	B J	0.0000962	0.00100	1	03/27/2023 03:31	WG2030391
Carbon tetrachloride	U		0.000128	0.00100	1	03/27/2023 03:31	WG2030391

MW-126B
Collected date/time: 03/21/23 11:35
L1597201

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	03/27/2023 03:31	WG2030391
Chlorodibromomethane	U		0.000140	0.00100	1	03/27/2023 03:31	WG2030391
Chloroethane	U		0.000192	0.00500	1	03/27/2023 03:31	WG2030391
Chloroform	U		0.000111	0.00500	1	03/27/2023 03:31	WG2030391
Chloromethane	U		0.000960	0.00250	1	03/27/2023 03:31	WG2030391
1,2-Dibromoethane	U		0.000126	0.00100	1	03/27/2023 03:31	WG2030391
1,1-Dichloroethane	U		0.000100	0.00100	1	03/27/2023 03:31	WG2030391
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/27/2023 03:31	WG2030391
1,1-Dichloroethene	U		0.000188	0.00100	1	03/27/2023 03:31	WG2030391
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/27/2023 03:31	WG2030391
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/27/2023 03:31	WG2030391
1,2-Dichloropropane	U		0.000149	0.00100	1	03/27/2023 03:31	WG2030391
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/27/2023 03:31	WG2030391
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/27/2023 03:31	WG2030391
Ethylbenzene	U		0.000137	0.00100	1	03/27/2023 03:31	WG2030391
Isopropylbenzene	U		0.000105	0.00100	1	03/27/2023 03:31	WG2030391
p-Isopropyltoluene	U		0.000120	0.00100	1	03/27/2023 03:31	WG2030391
2-Butanone (MEK)	U		0.00119	0.0100	1	03/27/2023 03:31	WG2030391
2-Hexanone	U		0.000787	0.0100	1	03/27/2023 03:31	WG2030391
Methylene Chloride	U		0.000430	0.00500	1	03/27/2023 03:31	WG2030391
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/27/2023 03:31	WG2030391
Methyl tert-butyl ether	0.000236	J	0.000101	0.00100	1	03/27/2023 03:31	WG2030391
Naphthalene	U		0.00100	0.00500	1	03/27/2023 03:31	WG2030391
n-Propylbenzene	U		0.0000993	0.00100	1	03/27/2023 03:31	WG2030391
Styrene	U		0.000118	0.00100	1	03/27/2023 03:31	WG2030391
tert-Butyl alcohol	U		0.00406	0.00500	1	03/27/2023 03:31	WG2030391
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/27/2023 03:31	WG2030391
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/27/2023 03:31	WG2030391
Tetrachloroethene	U		0.000300	0.00100	1	03/27/2023 03:31	WG2030391
Toluene	U		0.000278	0.00100	1	03/27/2023 03:31	WG2030391
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/27/2023 03:31	WG2030391
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/27/2023 03:31	WG2030391
Trichloroethene	U		0.000190	0.00100	1	03/27/2023 03:31	WG2030391
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/27/2023 03:31	WG2030391
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/27/2023 03:31	WG2030391
Vinyl chloride	U		0.000234	0.00100	1	03/27/2023 03:31	WG2030391
o-Xylene	U		0.000174	0.00100	1	03/27/2023 03:31	WG2030391
m&p-Xylene	U		0.000430	0.00200	1	03/27/2023 03:31	WG2030391
Xylenes, Total	U		0.000174	0.00300	1	03/27/2023 03:31	WG2030391
(S) Toluene-d8	*101*			*80.0-120*		*03/27/2023 03:31*	WG2030391
(S) 4-Bromofluorobenzene	*95.7*			*77.0-126*		*03/27/2023 03:31*	WG2030391
(S) 1,2-Dichloroethane-d4	*115*			*70.0-130*		*03/27/2023 03:31*	WG2030391

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	0.528	B	0.0247	0.100	1	03/28/2023 19:42	WG2031027
(S) o-Terphenyl	*97.4*			*31.0-160*		*03/28/2023 19:42*	WG2031027

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3670		50.0	1	03/23/2023 22:45	WG2028928

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	03/26/2023 18:53	WG2028779

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	254		3.79	10.0	10	03/22/2023 23:54	WG2028210
Fluoride	1.56		0.640	1.50	10	03/22/2023 23:54	WG2028210
Nitrate	U		0.480	1.00	10	03/22/2023 23:54	WG2028210
Nitrite	U		0.420	1.00	10	03/22/2023 23:54	WG2028210
Sulfate	2260		59.4	500	100	03/23/2023 03:57	WG2028210

Sample Narrative:

L1597201-48 WG2028210: Dilution due to matrix.

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	03/25/2023 10:35	WG2028364
Mercury,Dissolved	U		0.000100	0.000200	1	03/25/2023 11:22	WG2028366

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	0.745		0.0200	0.200	1	03/23/2023 23:12	WG2028566
Boron,Dissolved	0.712		0.0200	0.200	1	03/24/2023 16:12	WG2028557

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	03/27/2023 14:18	WG2028251
Arsenic,Dissolved	0.00367		0.000180	0.00200	1	03/23/2023 20:31	WG2028259
Barium	0.00974		0.000381	0.00200	1	03/27/2023 14:18	WG2028251
Barium,Dissolved	0.00914		0.000381	0.00200	1	03/23/2023 20:31	WG2028259
Cadmium	U		0.000150	0.00100	1	03/27/2023 14:18	WG2028251
Cadmium,Dissolved	U		0.000150	0.00100	1	03/23/2023 20:31	WG2028259
Calcium	439		0.0936	1.00	1	03/27/2023 14:18	WG2028251
Chromium	U		0.00124	0.00200	1	03/27/2023 14:18	WG2028251
Chromium,Dissolved	U	J4	0.00124	0.00200	1	03/23/2023 20:31	WG2028259
Cobalt	0.00605		0.0000596	0.00200	1	03/27/2023 14:18	WG2028251
Cobalt,Dissolved	0.00644		0.0000596	0.00200	1	03/23/2023 20:31	WG2028259
Iron	0.295		0.0281	0.100	1	03/27/2023 14:18	WG2028251
Iron,Dissolved	0.0355	B J	0.0281	0.100	1	03/23/2023 20:31	WG2028259
Lead	0.00331		0.000849	0.00200	1	03/27/2023 14:18	WG2028251
Lead,Dissolved	U		0.000849	0.00200	1	03/23/2023 20:31	WG2028259
Manganese	0.401		0.000704	0.00500	1	03/27/2023 14:18	WG2028251
Manganese,Dissolved	0.414		0.000704	0.00500	1	03/23/2023 20:31	WG2028259
Nickel	0.00799		0.000816	0.00200	1	03/27/2023 14:18	WG2028251
Nickel,Dissolved	0.00776		0.000816	0.00200	1	03/23/2023 20:31	WG2028259

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Potassium	0.941	J	0.108	2.00	1	03/27/2023 14:18	WG2028251
Selenium	U		0.000300	0.00200	1	03/27/2023 14:18	WG2028251
Selenium,Dissolved	U		0.000300	0.00200	1	03/23/2023 20:31	WG2028259
Sodium	230		0.376	2.00	1	03/27/2023 14:18	WG2028251
Uranium	0.0102		0.0000789	0.00100	1	03/27/2023 14:18	WG2028251
Uranium,Dissolved	0.0103		0.0000789	0.00100	1	03/23/2023 20:31	WG2028259
Vanadium	0.0174		0.000664	0.00500	1	03/27/2023 14:18	WG2028251
Vanadium,Dissolved	0.0197		0.000664	0.00500	1	03/23/2023 20:31	WG2028259

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	03/27/2023 03:51	WG2030391
Benzene	0.000522	J	0.0000941	0.00100	1	03/27/2023 03:51	WG2030391
Bromodichloromethane	U		0.000136	0.00100	1	03/27/2023 03:51	WG2030391
Bromoform	U		0.000129	0.00100	1	03/27/2023 03:51	WG2030391
Bromomethane	U		0.000605	0.00500	1	03/27/2023 03:51	WG2030391
n-Butylbenzene	0.000447	J	0.000157	0.00100	1	03/27/2023 03:51	WG2030391
sec-Butylbenzene	0.00124		0.000125	0.00100	1	03/27/2023 03:51	WG2030391
Carbon disulfide	U		0.0000962	0.00100	1	03/27/2023 03:51	WG2030391
Carbon tetrachloride	U		0.000128	0.00100	1	03/27/2023 03:51	WG2030391
Chlorobenzene	U		0.000116	0.00100	1	03/27/2023 03:51	WG2030391
Chlorodibromomethane	U		0.000140	0.00100	1	03/27/2023 03:51	WG2030391
Chloroethane	U		0.000192	0.00500	1	03/27/2023 03:51	WG2030391
Chloroform	U		0.000111	0.00500	1	03/27/2023 03:51	WG2030391
Chloromethane	U		0.000960	0.00250	1	03/27/2023 03:51	WG2030391
1,2-Dibromoethane	U		0.000126	0.00100	1	03/27/2023 03:51	WG2030391
1,1-Dichloroethane	U		0.000100	0.00100	1	03/27/2023 03:51	WG2030391
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/27/2023 03:51	WG2030391
1,1-Dichloroethene	U		0.000188	0.00100	1	03/27/2023 03:51	WG2030391
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/27/2023 03:51	WG2030391
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/27/2023 03:51	WG2030391
1,2-Dichloropropane	U		0.000149	0.00100	1	03/27/2023 03:51	WG2030391
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/27/2023 03:51	WG2030391
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/27/2023 03:51	WG2030391
Ethylbenzene	0.00365		0.000137	0.00100	1	03/27/2023 03:51	WG2030391
Isopropylbenzene	0.00417		0.000105	0.00100	1	03/27/2023 03:51	WG2030391
p-Isopropyltoluene	0.000604	J	0.000120	0.00100	1	03/27/2023 03:51	WG2030391
2-Butanone (MEK)	U		0.00119	0.0100	1	03/27/2023 03:51	WG2030391
2-Hexanone	U		0.000787	0.0100	1	03/27/2023 03:51	WG2030391
Methylene Chloride	U		0.000430	0.00500	1	03/27/2023 03:51	WG2030391
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/27/2023 03:51	WG2030391
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/27/2023 03:51	WG2030391
Naphthalene	0.00247	J	0.00100	0.00500	1	03/27/2023 03:51	WG2030391
n-Propylbenzene	0.00457		0.0000993	0.00100	1	03/27/2023 03:51	WG2030391
Styrene	U		0.000118	0.00100	1	03/27/2023 03:51	WG2030391
tert-Butyl alcohol	U		0.00406	0.00500	1	03/27/2023 03:51	WG2030391
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/27/2023 03:51	WG2030391
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/27/2023 03:51	WG2030391
Tetrachloroethene	U		0.000300	0.00100	1	03/27/2023 03:51	WG2030391
Toluene	U		0.000278	0.00100	1	03/27/2023 03:51	WG2030391
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/27/2023 03:51	WG2030391
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/27/2023 03:51	WG2030391
Trichloroethene	U		0.000190	0.00100	1	03/27/2023 03:51	WG2030391
1,2,4-Trimethylbenzene	0.0335		0.000322	0.00100	1	03/27/2023 03:51	WG2030391
1,3,5-Trimethylbenzene	0.00461		0.000104	0.00100	1	03/27/2023 03:51	WG2030391

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Vinyl chloride	U		0.000234	0.00100	1	03/27/2023 03:51	WG2030391
o-Xylene	0.000415	J	0.000174	0.00100	1	03/27/2023 03:51	WG2030391
m&p-Xylene	0.0335		0.000430	0.00200	1	03/27/2023 03:51	WG2030391
Xylenes, Total	0.0339		0.000174	0.00300	1	03/27/2023 03:51	WG2030391
(S) Toluene-d8	*106*			*80.0-120*		*03/27/2023 03:51*	WG2030391
(S) 4-Bromofluorobenzene	*99.3*			*77.0-126*		*03/27/2023 03:51*	WG2030391
(S) 1,2-Dichloroethane-d4	*116*			*70.0-130*		*03/27/2023 03:51*	WG2030391

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	0.356	B	0.0247	0.100	1	03/28/2023 20:02	WG2031027
(S) o-Terphenyl	*87.4*			*31.0-160*		*03/28/2023 20:02*	WG2031027

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	4540		50.0	1	03/23/2023 22:45	WG2028928

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	265		3.79	10.0	10	03/23/2023 04:05	WG2028372
Fluoride	1.16	J	0.640	1.50	10	03/23/2023 04:05	WG2028372
Nitrate	U		0.480	1.00	10	03/23/2023 04:05	WG2028372
Nitrite	U		0.420	1.00	10	03/23/2023 04:05	WG2028372
Sulfate	2310		59.4	500	100	03/23/2023 10:12	WG2028372

Sample Narrative:

L1597201-49 WG2028372: Dilution due to matrix.

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	03/27/2023 14:21	WG2028251
Arsenic,Dissolved	0.00374		0.000180	0.00200	1	03/23/2023 20:34	WG2028259
Barium	0.00902		0.000381	0.00200	1	03/27/2023 14:21	WG2028251
Barium,Dissolved	0.00964		0.000381	0.00200	1	03/23/2023 20:34	WG2028259
Calcium	441		0.0936	1.00	1	03/27/2023 14:21	WG2028251
Chromium	U		0.00124	0.00200	1	03/27/2023 14:21	WG2028251
Chromium,Dissolved	U	J4	0.00124	0.00200	1	03/23/2023 20:34	WG2028259
Iron	U		0.0281	0.100	1	03/27/2023 14:21	WG2028251
Iron,Dissolved	U		0.0281	0.100	1	03/23/2023 20:34	WG2028259
Lead	U		0.000849	0.00200	1	03/27/2023 14:21	WG2028251
Lead,Dissolved	U		0.000849	0.00200	1	03/23/2023 20:34	WG2028259
Manganese	0.426		0.000704	0.00500	1	03/27/2023 14:21	WG2028251
Manganese,Dissolved	0.435		0.000704	0.00500	1	03/23/2023 20:34	WG2028259
Potassium	1.13	J	0.108	2.00	1	03/27/2023 14:21	WG2028251
Selenium	U		0.000300	0.00200	1	03/27/2023 14:21	WG2028251
Selenium,Dissolved	U		0.000300	0.00200	1	03/23/2023 20:34	WG2028259
Sodium	229		0.376	2.00	1	03/27/2023 14:21	WG2028251

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	03/27/2023 04:11	WG2030391
Benzene	U		0.0000941	0.00100	1	03/27/2023 04:11	WG2030391
Bromodichloromethane	U		0.000136	0.00100	1	03/27/2023 04:11	WG2030391
Bromoform	U		0.000129	0.00100	1	03/27/2023 04:11	WG2030391
Bromomethane	U		0.000605	0.00500	1	03/27/2023 04:11	WG2030391
n-Butylbenzene	U		0.000157	0.00100	1	03/27/2023 04:11	WG2030391
sec-Butylbenzene	U		0.000125	0.00100	1	03/27/2023 04:11	WG2030391
Carbon disulfide	U		0.0000962	0.00100	1	03/27/2023 04:11	WG2030391
Carbon tetrachloride	U		0.000128	0.00100	1	03/27/2023 04:11	WG2030391
Chlorobenzene	U		0.000116	0.00100	1	03/27/2023 04:11	WG2030391
Chlorodibromomethane	U		0.000140	0.00100	1	03/27/2023 04:11	WG2030391
Chloroethane	U		0.000192	0.00500	1	03/27/2023 04:11	WG2030391
Chloroform	U		0.000111	0.00500	1	03/27/2023 04:11	WG2030391
Chloromethane	U		0.000960	0.00250	1	03/27/2023 04:11	WG2030391
1,2-Dibromoethane	U		0.000126	0.00100	1	03/27/2023 04:11	WG2030391
1,1-Dichloroethane	U		0.000100	0.00100	1	03/27/2023 04:11	WG2030391

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	03/27/2023 04:11	WG2030391
1,1-Dichloroethene	U		0.000188	0.00100	1	03/27/2023 04:11	WG2030391
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/27/2023 04:11	WG2030391
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/27/2023 04:11	WG2030391
1,2-Dichloropropane	U		0.000149	0.00100	1	03/27/2023 04:11	WG2030391
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/27/2023 04:11	WG2030391
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/27/2023 04:11	WG2030391
Ethylbenzene	U		0.000137	0.00100	1	03/27/2023 04:11	WG2030391
Isopropylbenzene	U		0.000105	0.00100	1	03/27/2023 04:11	WG2030391
p-Isopropyltoluene	U		0.000120	0.00100	1	03/27/2023 04:11	WG2030391
2-Butanone (MEK)	U		0.00119	0.0100	1	03/27/2023 04:11	WG2030391
2-Hexanone	U		0.000787	0.0100	1	03/27/2023 04:11	WG2030391
Methylene Chloride	U		0.000430	0.00500	1	03/27/2023 04:11	WG2030391
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/27/2023 04:11	WG2030391
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/27/2023 04:11	WG2030391
Naphthalene	U		0.00100	0.00500	1	03/27/2023 04:11	WG2030391
n-Propylbenzene	U		0.0000993	0.00100	1	03/27/2023 04:11	WG2030391
Styrene	U		0.000118	0.00100	1	03/27/2023 04:11	WG2030391
tert-Butyl alcohol	U		0.00406	0.00500	1	03/27/2023 04:11	WG2030391
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/27/2023 04:11	WG2030391
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/27/2023 04:11	WG2030391
Tetrachloroethene	U		0.000300	0.00100	1	03/27/2023 04:11	WG2030391
Toluene	U		0.000278	0.00100	1	03/27/2023 04:11	WG2030391
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/27/2023 04:11	WG2030391
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/27/2023 04:11	WG2030391
Trichloroethene	U		0.000190	0.00100	1	03/27/2023 04:11	WG2030391
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/27/2023 04:11	WG2030391
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/27/2023 04:11	WG2030391
Vinyl chloride	U		0.000234	0.00100	1	03/27/2023 04:11	WG2030391
o-Xylene	U		0.000174	0.00100	1	03/27/2023 04:11	WG2030391
m&p-Xylene	U		0.000430	0.00200	1	03/27/2023 04:11	WG2030391
Xylenes, Total	U		0.000174	0.00300	1	03/27/2023 04:11	WG2030391
(S) Toluene-d8	*104*			*80.0-120*		*03/27/2023 04:11*	WG2030391
(S) 4-Bromofluorobenzene	*95.4*			*77.0-126*		*03/27/2023 04:11*	WG2030391
(S) 1,2-Dichloroethane-d4	*122*			*70.0-130*		*03/27/2023 04:11*	WG2030391

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	0.143	B	0.0247	0.100	1	03/29/2023 14:26	WG2031027
(S) o-Terphenyl	*121*			*31.0-160*		*03/29/2023 14:26*	WG2031027

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Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	3480		50.0	1	03/23/2023 22:45	WG2028928

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	03/26/2023 18:55	WG2028779

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	117		3.79	10.0	10	03/23/2023 01:04	WG2028309
Fluoride	U		0.640	1.50	10	03/23/2023 01:04	WG2028309
Nitrate	3.20		0.480	1.00	10	03/23/2023 01:04	WG2028309
Nitrate	3.96	Q	0.480	1.00	10	03/28/2023 03:31	WG2030997
Nitrite	U		0.420	1.00	10	03/23/2023 01:04	WG2028309
Sulfate	2050		59.4	500	100	03/23/2023 06:24	WG2028309

Sample Narrative:

L1597201-50 WG2028309, WG2030997: Dilution due to matrix.

L1597201-50 WG2028309, WG2030997: Nitrate reporting twice due to QC failure.

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	03/25/2023 10:37	WG2028364
Mercury,Dissolved	U		0.000100	0.000200	1	03/25/2023 11:24	WG2028366

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Boron	0.676		0.0200	0.200	1	03/23/2023 23:15	WG2028566
Boron,Dissolved	0.639		0.0200	0.200	1	03/24/2023 16:15	WG2028557

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00161	J	0.000180	0.00200	1	03/27/2023 14:25	WG2028251
Arsenic,Dissolved	0.00192	B J	0.000180	0.00200	1	03/23/2023 20:38	WG2028259
Barium	0.00840		0.000381	0.00200	1	03/27/2023 14:25	WG2028251
Barium,Dissolved	0.0102		0.000381	0.00200	1	03/23/2023 20:38	WG2028259
Cadmium	U		0.000150	0.00100	1	03/27/2023 14:25	WG2028251
Cadmium,Dissolved	U		0.000150	0.00100	1	03/23/2023 20:38	WG2028259
Calcium	535		0.0936	1.00	1	03/27/2023 14:25	WG2028251
Chromium	U		0.00124	0.00200	1	03/27/2023 14:25	WG2028251
Chromium,Dissolved	U	J4	0.00124	0.00200	1	03/23/2023 20:38	WG2028259
Cobalt	U		0.0000596	0.00200	1	03/27/2023 14:25	WG2028251
Cobalt,Dissolved	U		0.0000596	0.00200	1	03/23/2023 20:38	WG2028259
Iron	0.0294	J	0.0281	0.100	1	03/27/2023 14:25	WG2028251
Iron,Dissolved	U		0.0281	0.100	1	03/23/2023 20:38	WG2028259
Lead	U		0.000849	0.00200	1	03/27/2023 14:25	WG2028251
Lead,Dissolved	U		0.000849	0.00200	1	03/23/2023 20:38	WG2028259
Manganese	U		0.000704	0.00500	1	03/27/2023 14:25	WG2028251
Manganese,Dissolved	U		0.000704	0.00500	1	03/23/2023 20:38	WG2028259

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Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nickel	U		0.000816	0.00200	1	03/27/2023 14:25	WG2028251
Nickel,Dissolved	U		0.000816	0.00200	1	03/23/2023 20:38	WG2028259
Potassium	0.717	J	0.108	2.00	1	03/27/2023 14:25	WG2028251
Selenium	0.00263		0.000300	0.00200	1	03/27/2023 14:25	WG2028251
Selenium,Dissolved	0.00260		0.000300	0.00200	1	03/23/2023 20:38	WG2028259
Sodium	146		0.376	2.00	1	03/27/2023 14:25	WG2028251
Uranium	0.0295		0.0000789	0.00100	1	03/27/2023 14:25	WG2028251
Uranium,Dissolved	0.0300		0.0000789	0.00100	1	03/23/2023 20:38	WG2028259
Vanadium	0.0129		0.000664	0.00500	1	03/27/2023 14:25	WG2028251
Vanadium,Dissolved	0.0148	B	0.000664	0.00500	1	03/23/2023 20:38	WG2028259

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	03/26/2023 00:00	WG2029674
(S) a,a,a-Trifluorotoluene(FID)	*99.4*			*78.0-120*		*03/26/2023 00:00*	WG2029674

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	03/27/2023 04:31	WG2030391
Benzene	U		0.0000941	0.00100	1	03/27/2023 04:31	WG2030391
Bromodichloromethane	U		0.000136	0.00100	1	03/27/2023 04:31	WG2030391
Bromoform	U		0.000129	0.00100	1	03/27/2023 04:31	WG2030391
Bromomethane	U		0.000605	0.00500	1	03/27/2023 04:31	WG2030391
n-Butylbenzene	U		0.000157	0.00100	1	03/27/2023 04:31	WG2030391
sec-Butylbenzene	U		0.000125	0.00100	1	03/27/2023 04:31	WG2030391
Carbon disulfide	U		0.0000962	0.00100	1	03/27/2023 04:31	WG2030391
Carbon tetrachloride	U		0.000128	0.00100	1	03/27/2023 04:31	WG2030391
Chlorobenzene	U		0.000116	0.00100	1	03/27/2023 04:31	WG2030391
Chlorodibromomethane	U		0.000140	0.00100	1	03/27/2023 04:31	WG2030391
Chloroethane	U		0.000192	0.00500	1	03/27/2023 04:31	WG2030391
Chloroform	U		0.000111	0.00500	1	03/27/2023 04:31	WG2030391
Chloromethane	U		0.000960	0.00250	1	03/27/2023 04:31	WG2030391
1,2-Dibromoethane	U		0.000126	0.00100	1	03/27/2023 04:31	WG2030391
1,1-Dichloroethane	U		0.000100	0.00100	1	03/27/2023 04:31	WG2030391
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/27/2023 04:31	WG2030391
1,1-Dichloroethene	U		0.000188	0.00100	1	03/27/2023 04:31	WG2030391
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/27/2023 04:31	WG2030391
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/27/2023 04:31	WG2030391
1,2-Dichloropropane	U		0.000149	0.00100	1	03/27/2023 04:31	WG2030391
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/27/2023 04:31	WG2030391
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/27/2023 04:31	WG2030391
Ethylbenzene	U		0.000137	0.00100	1	03/27/2023 04:31	WG2030391
Isopropylbenzene	U		0.000105	0.00100	1	03/27/2023 04:31	WG2030391
p-Isopropyltoluene	U		0.000120	0.00100	1	03/27/2023 04:31	WG2030391
2-Butanone (MEK)	U		0.00119	0.0100	1	03/27/2023 04:31	WG2030391
2-Hexanone	U		0.000787	0.0100	1	03/27/2023 04:31	WG2030391
Methylene Chloride	U		0.000430	0.00500	1	03/27/2023 04:31	WG2030391
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/27/2023 04:31	WG2030391
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/27/2023 04:31	WG2030391
Naphthalene	U		0.00100	0.00500	1	03/27/2023 04:31	WG2030391
n-Propylbenzene	U		0.0000993	0.00100	1	03/27/2023 04:31	WG2030391
Styrene	U		0.000118	0.00100	1	03/27/2023 04:31	WG2030391
tert-Butyl alcohol	U		0.00406	0.00500	1	03/27/2023 04:31	WG2030391

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Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/27/2023 04:31	WG2030391
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/27/2023 04:31	WG2030391
Tetrachloroethene	U		0.000300	0.00100	1	03/27/2023 04:31	WG2030391
Toluene	U		0.000278	0.00100	1	03/27/2023 04:31	WG2030391
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/27/2023 04:31	WG2030391
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/27/2023 04:31	WG2030391
Trichloroethene	U		0.000190	0.00100	1	03/27/2023 04:31	WG2030391
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/27/2023 04:31	WG2030391
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/27/2023 04:31	WG2030391
Vinyl chloride	U		0.000234	0.00100	1	03/27/2023 04:31	WG2030391
o-Xylene	U		0.000174	0.00100	1	03/27/2023 04:31	WG2030391
m&p-Xylene	U		0.000430	0.00200	1	03/27/2023 04:31	WG2030391
Xylenes, Total	U		0.000174	0.00300	1	03/27/2023 04:31	WG2030391
(S) Toluene-d8	*104*			*80.0-120*		*03/27/2023 04:31*	WG2030391
(S) 4-Bromofluorobenzene	*97.2*			*77.0-126*		*03/27/2023 04:31*	WG2030391
(S) 1,2-Dichloroethane-d4	*118*			*70.0-130*		*03/27/2023 04:31*	WG2030391

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	0.0702	B J	0.0247	0.100	1	03/28/2023 20:43	WG2031027
(S) o-Terphenyl	*112*			*31.0-160*		*03/28/2023 20:43*	WG2031027

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Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2260		50.0	1	03/23/2023 22:45	WG2028928

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	234		3.79	10.0	10	03/23/2023 14:56	WG2028377
Fluoride	1.30	B J	0.640	1.50	10	03/23/2023 14:56	WG2028377
Nitrate	U	Q	0.480	1.00	10	03/23/2023 14:56	WG2028377
Nitrite	U	Q	0.420	1.00	10	03/23/2023 14:56	WG2028377
Sulfate	931		5.94	50.0	10	03/23/2023 14:56	WG2028377

Sample Narrative:

L1597201-51 WG2028377: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00299		0.000180	0.00200	1	03/27/2023 14:28	WG2028251
Arsenic,Dissolved	0.00271	B	0.000180	0.00200	1	03/23/2023 20:41	WG2028259
Barium	0.0474		0.000381	0.00200	1	03/27/2023 14:28	WG2028251
Barium,Dissolved	0.0440		0.000381	0.00200	1	03/23/2023 20:41	WG2028259
Calcium	254		0.0936	1.00	1	03/27/2023 14:28	WG2028251
Chromium	0.00223		0.00124	0.00200	1	03/27/2023 14:28	WG2028251
Chromium,Dissolved	U	J4	0.00124	0.00200	1	03/23/2023 20:41	WG2028259
Iron	1.00		0.0281	0.100	1	03/27/2023 14:28	WG2028251
Iron,Dissolved	0.178	B	0.0281	0.100	1	03/23/2023 20:41	WG2028259
Lead	0.00990		0.000849	0.00200	1	03/27/2023 14:28	WG2028251
Lead,Dissolved	0.00120	J	0.000849	0.00200	1	03/23/2023 20:41	WG2028259
Manganese	0.649		0.000704	0.00500	1	03/27/2023 14:28	WG2028251
Manganese,Dissolved	0.625		0.000704	0.00500	1	03/23/2023 20:41	WG2028259
Potassium	0.568	J	0.108	2.00	1	03/27/2023 14:28	WG2028251
Selenium	U		0.000300	0.00200	1	03/27/2023 14:28	WG2028251
Selenium,Dissolved	U		0.000300	0.00200	1	03/23/2023 20:41	WG2028259
Sodium	258		0.376	2.00	1	03/27/2023 14:28	WG2028251

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	03/27/2023 19:01	WG2030864
Benzene	0.0537		0.000471	0.00500	5	03/27/2023 19:01	WG2030864
Bromodichloromethane	U		0.000680	0.00500	5	03/27/2023 19:01	WG2030864
Bromoform	U		0.000645	0.00500	5	03/27/2023 19:01	WG2030864
Bromomethane	U		0.00303	0.0250	5	03/27/2023 19:01	WG2030864
n-Butylbenzene	0.00691		0.000785	0.00500	5	03/27/2023 19:01	WG2030864
sec-Butylbenzene	0.0102		0.000625	0.00500	5	03/27/2023 19:01	WG2030864
Carbon disulfide	0.000737	J	0.000481	0.00500	5	03/27/2023 19:01	WG2030864
Carbon tetrachloride	U		0.000640	0.00500	5	03/27/2023 19:01	WG2030864
Chlorobenzene	U		0.000580	0.00500	5	03/27/2023 19:01	WG2030864
Chlorodibromomethane	U		0.000700	0.00500	5	03/27/2023 19:01	WG2030864
Chloroethane	U	J4	0.000960	0.0250	5	03/27/2023 19:01	WG2030864
Chloroform	U		0.000555	0.0250	5	03/27/2023 19:01	WG2030864
Chloromethane	U		0.00480	0.0125	5	03/27/2023 19:01	WG2030864
1,2-Dibromoethane	U		0.000630	0.00500	5	03/27/2023 19:01	WG2030864
1,1-Dichloroethane	U		0.000500	0.00500	5	03/27/2023 19:01	WG2030864

Released to Imaging: 6/28/2024 11:23:28 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
1,2-Dichloroethane	U		0.000409	0.00500	5	03/27/2023 19:01	WG2030864
1,1-Dichloroethene	U		0.000940	0.00500	5	03/27/2023 19:01	WG2030864
cis-1,2-Dichloroethene	U		0.000630	0.00500	5	03/27/2023 19:01	WG2030864
trans-1,2-Dichloroethene	U		0.000745	0.00500	5	03/27/2023 19:01	WG2030864
1,2-Dichloropropane	U		0.000745	0.00500	5	03/27/2023 19:01	WG2030864
cis-1,3-Dichloropropene	U		0.000555	0.00500	5	03/27/2023 19:01	WG2030864
trans-1,3-Dichloropropene	U		0.000590	0.00500	5	03/27/2023 19:01	WG2030864
Ethylbenzene	0.0173		0.000685	0.00500	5	03/27/2023 19:01	WG2030864
Isopropylbenzene	0.0166		0.000525	0.00500	5	03/27/2023 19:01	WG2030864
p-Isopropyltoluene	0.00548		0.000600	0.00500	5	03/27/2023 19:01	WG2030864
2-Butanone (MEK)	U		0.00595	0.0500	5	03/27/2023 19:01	WG2030864
2-Hexanone	U		0.00394	0.0500	5	03/27/2023 19:01	WG2030864
Methylene Chloride	U		0.00215	0.0250	5	03/27/2023 19:01	WG2030864
4-Methyl-2-pentanone (MIBK)	U		0.00239	0.0500	5	03/27/2023 19:01	WG2030864
Methyl tert-butyl ether	0.0262		0.000505	0.00500	5	03/27/2023 19:01	WG2030864
Naphthalene	0.0537		0.00500	0.0250	5	03/27/2023 19:01	WG2030864
n-Propylbenzene	0.0247		0.000497	0.00500	5	03/27/2023 19:01	WG2030864
Styrene	U		0.000590	0.00500	5	03/27/2023 19:01	WG2030864
tert-Butyl alcohol	U		0.0203	0.0250	5	03/27/2023 19:01	WG2030864
1,1,1,2-Tetrachloroethane	U		0.000735	0.00500	5	03/27/2023 19:01	WG2030864
1,1,2,2-Tetrachloroethane	U		0.000665	0.00500	5	03/27/2023 19:01	WG2030864
Tetrachloroethene	U		0.00150	0.00500	5	03/27/2023 19:01	WG2030864
Toluene	U		0.00139	0.00500	5	03/27/2023 19:01	WG2030864
1,1,1-Trichloroethane	U		0.000745	0.00500	5	03/27/2023 19:01	WG2030864
1,1,2-Trichloroethane	U		0.000790	0.00500	5	03/27/2023 19:01	WG2030864
Trichloroethene	U		0.000950	0.00500	5	03/27/2023 19:01	WG2030864
1,2,4-Trimethylbenzene	0.0649		0.00161	0.00500	5	03/27/2023 19:01	WG2030864
1,3,5-Trimethylbenzene	0.0201		0.000520	0.00500	5	03/27/2023 19:01	WG2030864
Vinyl chloride	U		0.00117	0.00500	5	03/27/2023 19:01	WG2030864
o-Xylene	0.00137	J	0.000870	0.00500	5	03/27/2023 19:01	WG2030864
m&p-Xylene	0.0118		0.00215	0.0100	5	03/27/2023 19:01	WG2030864
Xylenes, Total	0.0132	J	0.000870	0.0150	5	03/27/2023 19:01	WG2030864
(S) Toluene-d8	*102*			*80.0-120*		*03/27/2023 19:01*	WG2030864
(S) 4-Bromofluorobenzene	*95.3*			*77.0-126*		*03/27/2023 19:01*	WG2030864
(S) 1,2-Dichloroethane-d4	*99.8*			*70.0-130*		*03/27/2023 19:01*	WG2030864

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	6.39		0.0247	0.100	1	03/28/2023 21:03	WG2031027
(S) o-Terphenyl	*137*			*31.0-160*		*03/28/2023 21:03*	WG2031027

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	0.000286	J	0.0000447	0.000400	1	03/23/2023 12:02	WG2027707
(S) Nitrobenzene-d5	*58.0*			*10.0-120*		*03/23/2023 12:02*	WG2027707

Received by OCD: 6/12/2024 3:31:05 PM

KWD-13
Collected date/time: 03/21/23 13:20
L1597201

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	03/23/2023 22:45	WG2028928

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		0.00900	0.0250	5	03/26/2023 18:56	WG2028779

Sample Narrative:
L1597201-52 WG2028779: Dilution due to matrix.

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	118		3.79	10.0	10	03/23/2023 12:01	WG2028377
Fluoride	1.36	B J	0.640	1.50	10	03/23/2023 12:01	WG2028377
Nitrate	13.4		0.480	1.00	10	03/23/2023 12:01	WG2028377
Nitrite	U		0.420	1.00	10	03/23/2023 12:01	WG2028377
Sulfate	1860		59.4	500	100	03/23/2023 20:09	WG2028377

Sample Narrative:
L1597201-52 WG2028377: Dilution due to matrix.

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	03/25/2023 10:39	WG2028364
Mercury,Dissolved	U		0.000100	0.000200	1	03/25/2023 11:26	WG2028366

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	0.316		0.0200	0.200	1	03/23/2023 23:18	WG2028566
Boron,Dissolved	0.296		0.0200	0.200	1	03/24/2023 16:18	WG2028557

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00364		0.000180	0.00200	1	03/27/2023 14:31	WG2028251
Arsenic,Dissolved	0.00263	B	0.000180	0.00200	1	03/23/2023 20:45	WG2028259
Barium	0.0195		0.000381	0.00200	1	03/27/2023 14:31	WG2028251
Barium,Dissolved	0.0141		0.000381	0.00200	1	03/23/2023 20:45	WG2028259
Cadmium	0.000163	J	0.000150	0.00100	1	03/27/2023 14:31	WG2028251
Cadmium,Dissolved	U		0.000150	0.00100	1	03/23/2023 20:45	WG2028259
Calcium	519		0.0936	1.00	1	03/27/2023 14:31	WG2028251
Chromium	0.00295		0.00124	0.00200	1	03/27/2023 14:31	WG2028251
Chromium,Dissolved	U	J4	0.00124	0.00200	1	03/23/2023 20:45	WG2028259
Cobalt	0.000512	J	0.0000596	0.00200	1	03/27/2023 14:31	WG2028251
Cobalt,Dissolved	U		0.0000596	0.00200	1	03/23/2023 20:45	WG2028259
Iron	1.14		0.0281	0.100	1	03/27/2023 14:31	WG2028251
Iron,Dissolved	U		0.0281	0.100	1	03/23/2023 20:45	WG2028259
Lead	0.00257		0.000849	0.00200	1	03/27/2023 14:31	WG2028251
Lead,Dissolved	U		0.000849	0.00200	1	03/23/2023 20:45	WG2028259
Manganese	0.0466		0.000704	0.00500	1	03/27/2023 14:31	WG2028251

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Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Manganese,Dissolved	0.000863	J	0.000704	0.00500	1	03/23/2023 20:45	WG2028259
Nickel	0.00184	J	0.000816	0.00200	1	03/27/2023 14:31	WG2028251
Nickel,Dissolved	U		0.000816	0.00200	1	03/23/2023 20:45	WG2028259
Potassium	1.12	J	0.108	2.00	1	03/27/2023 14:31	WG2028251
Selenium	0.00982		0.000300	0.00200	1	03/27/2023 14:31	WG2028251
Selenium,Dissolved	0.00991		0.000300	0.00200	1	03/23/2023 20:45	WG2028259
Sodium	150		0.376	2.00	1	03/27/2023 14:31	WG2028251
Uranium	0.0222		0.0000789	0.00100	1	03/27/2023 14:31	WG2028251
Uranium,Dissolved	0.0220		0.0000789	0.00100	1	03/23/2023 20:45	WG2028259
Vanadium	0.0244		0.000664	0.00500	1	03/27/2023 14:31	WG2028251
Vanadium,Dissolved	0.0209		0.000664	0.00500	1	03/23/2023 20:45	WG2028259

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	03/27/2023 04:51	WG2030391
Benzene	U		0.0000941	0.00100	1	03/27/2023 04:51	WG2030391
Bromodichloromethane	U		0.000136	0.00100	1	03/27/2023 04:51	WG2030391
Bromoform	U		0.000129	0.00100	1	03/27/2023 04:51	WG2030391
Bromomethane	U		0.000605	0.00500	1	03/27/2023 04:51	WG2030391
n-Butylbenzene	U		0.000157	0.00100	1	03/27/2023 04:51	WG2030391
sec-Butylbenzene	U		0.000125	0.00100	1	03/27/2023 04:51	WG2030391
Carbon disulfide	0.0000985	B J	0.0000962	0.00100	1	03/27/2023 04:51	WG2030391
Carbon tetrachloride	U		0.000128	0.00100	1	03/27/2023 04:51	WG2030391
Chlorobenzene	U		0.000116	0.00100	1	03/27/2023 04:51	WG2030391
Chlorodibromomethane	U		0.000140	0.00100	1	03/27/2023 04:51	WG2030391
Chloroethane	U		0.000192	0.00500	1	03/27/2023 04:51	WG2030391
Chloroform	U		0.000111	0.00500	1	03/27/2023 04:51	WG2030391
Chloromethane	U		0.000960	0.00250	1	03/27/2023 04:51	WG2030391
1,2-Dibromoethane	U		0.000126	0.00100	1	03/27/2023 04:51	WG2030391
1,1-Dichloroethane	U		0.000100	0.00100	1	03/27/2023 04:51	WG2030391
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/27/2023 04:51	WG2030391
1,1-Dichloroethene	U		0.000188	0.00100	1	03/27/2023 04:51	WG2030391
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/27/2023 04:51	WG2030391
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/27/2023 04:51	WG2030391
1,2-Dichloropropane	U		0.000149	0.00100	1	03/27/2023 04:51	WG2030391
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/27/2023 04:51	WG2030391
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/27/2023 04:51	WG2030391
Ethylbenzene	U		0.000137	0.00100	1	03/27/2023 04:51	WG2030391
Isopropylbenzene	U		0.000105	0.00100	1	03/27/2023 04:51	WG2030391
p-Isopropyltoluene	U		0.000120	0.00100	1	03/27/2023 04:51	WG2030391
2-Butanone (MEK)	U		0.00119	0.0100	1	03/27/2023 04:51	WG2030391
2-Hexanone	U		0.000787	0.0100	1	03/27/2023 04:51	WG2030391
Methylene Chloride	U		0.000430	0.00500	1	03/27/2023 04:51	WG2030391
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/27/2023 04:51	WG2030391
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/27/2023 04:51	WG2030391
Naphthalene	U		0.00100	0.00500	1	03/27/2023 04:51	WG2030391
n-Propylbenzene	U		0.0000993	0.00100	1	03/27/2023 04:51	WG2030391
Styrene	U		0.000118	0.00100	1	03/27/2023 04:51	WG2030391
tert-Butyl alcohol	U		0.00406	0.00500	1	03/27/2023 04:51	WG2030391
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/27/2023 04:51	WG2030391
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/27/2023 04:51	WG2030391
Tetrachloroethene	U		0.000300	0.00100	1	03/27/2023 04:51	WG2030391
Toluene	U		0.000278	0.00100	1	03/27/2023 04:51	WG2030391
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/27/2023 04:51	WG2030391
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/27/2023 04:51	WG2030391

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Trichloroethene	U		0.000190	0.00100	1	03/27/2023 04:51	WG2030391
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/27/2023 04:51	WG2030391
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/27/2023 04:51	WG2030391
Vinyl chloride	U		0.000234	0.00100	1	03/27/2023 04:51	WG2030391
o-Xylene	U		0.000174	0.00100	1	03/27/2023 04:51	WG2030391
m&p-Xylene	U		0.000430	0.00200	1	03/27/2023 04:51	WG2030391
Xylenes, Total	U		0.000174	0.00300	1	03/27/2023 04:51	WG2030391
(S) Toluene-d8	*102*			*80.0-120*		*03/27/2023 04:51*	WG2030391
(S) 4-Bromofluorobenzene	*95.9*			*77.0-126*		*03/27/2023 04:51*	WG2030391
(S) 1,2-Dichloroethane-d4	*119*			*70.0-130*		*03/27/2023 04:51*	WG2030391

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	0.0486	B J	0.0247	0.100	1	03/29/2023 14:05	WG2031027
(S) o-Terphenyl	*104*			*31.0-160*		*03/29/2023 14:05*	WG2031027

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	3290		50.0	1	03/23/2023 22:45	WG2028928

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	03/26/2023 18:58	WG2028779

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	130		3.79	10.0	10	03/23/2023 04:21	WG2028372
Fluoride	U		0.640	1.50	10	03/23/2023 04:21	WG2028372
Nitrate	7.19		0.480	1.00	10	03/23/2023 04:21	WG2028372
Nitrite	U		0.420	1.00	10	03/23/2023 04:21	WG2028372
Sulfate	2230		59.4	500	100	03/23/2023 10:28	WG2028372

Sample Narrative:

L1597201-53 WG2028372: Dilution due to matrix.

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	03/27/2023 07:51	WG2029442
Mercury,Dissolved	U		0.000100	0.000200	1	03/28/2023 10:37	WG2030410

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	0.686		0.0200	0.200	1	03/26/2023 22:09	WG2029748
Boron,Dissolved	0.628		0.0200	0.200	1	03/26/2023 20:29	WG2029740

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00181	J	0.000180	0.00200	1	03/27/2023 14:34	WG2028251
Arsenic,Dissolved	0.00183	B J	0.000180	0.00200	1	03/23/2023 20:48	WG2028259
Barium	0.00942		0.000381	0.00200	1	03/27/2023 14:34	WG2028251
Barium,Dissolved	0.0103		0.000381	0.00200	1	03/23/2023 20:48	WG2028259
Cadmium	U		0.000150	0.00100	1	03/27/2023 14:34	WG2028251
Cadmium,Dissolved	U		0.000150	0.00100	1	03/23/2023 20:48	WG2028259
Calcium	534		0.0936	1.00	1	03/27/2023 14:34	WG2028251
Chromium	U		0.00124	0.00200	1	03/27/2023 14:34	WG2028251
Chromium,Dissolved	U	J4	0.00124	0.00200	1	03/23/2023 20:48	WG2028259
Cobalt	0.000113	J	0.0000596	0.00200	1	03/27/2023 17:13	WG2029758
Cobalt,Dissolved	U		0.0000596	0.00200	1	03/23/2023 20:48	WG2028259
Iron	U		0.0281	0.100	1	03/27/2023 14:34	WG2028251
Iron,Dissolved	U		0.0281	0.100	1	03/23/2023 20:48	WG2028259
Lead	U		0.000849	0.00200	1	03/27/2023 14:34	WG2028251
Lead,Dissolved	U		0.000849	0.00200	1	03/23/2023 20:48	WG2028259
Manganese	U		0.000704	0.00500	1	03/27/2023 14:34	WG2028251
Manganese,Dissolved	U		0.000704	0.00500	1	03/23/2023 20:48	WG2028259
Nickel	U		0.000816	0.00200	1	03/27/2023 14:34	WG2028251
Nickel,Dissolved	U		0.000816	0.00200	1	03/23/2023 20:48	WG2028259

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Potassium	0.681	J	0.108	2.00	1	03/27/2023 14:34	WG2028251
Selenium	0.00230		0.000300	0.00200	1	03/27/2023 14:34	WG2028251
Selenium,Dissolved	0.00268		0.000300	0.00200	1	03/23/2023 20:48	WG2028259
Sodium	146		0.376	2.00	1	03/27/2023 14:34	WG2028251
Uranium	0.0299		0.0000789	0.00100	1	03/27/2023 14:34	WG2028251
Uranium,Dissolved	0.0293		0.0000789	0.00100	1	03/23/2023 20:48	WG2028259
Vanadium	0.0129		0.000664	0.00500	1	03/27/2023 14:34	WG2028251
Vanadium,Dissolved	0.0146	B	0.000664	0.00500	1	03/23/2023 20:48	WG2028259

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	03/26/2023 00:22	WG2029674
(S) a,a,a-Trifluorotoluene(FID)	*98.4*			*78.0-120*		*03/26/2023 00:22*	WG2029674

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	03/27/2023 05:11	WG2030391
Benzene	U		0.0000941	0.00100	1	03/27/2023 05:11	WG2030391
Bromodichloromethane	U		0.000136	0.00100	1	03/27/2023 05:11	WG2030391
Bromoform	U		0.000129	0.00100	1	03/27/2023 05:11	WG2030391
Bromomethane	U		0.000605	0.00500	1	03/27/2023 05:11	WG2030391
n-Butylbenzene	U		0.000157	0.00100	1	03/27/2023 05:11	WG2030391
sec-Butylbenzene	U		0.000125	0.00100	1	03/27/2023 05:11	WG2030391
Carbon disulfide	U		0.0000962	0.00100	1	03/27/2023 05:11	WG2030391
Carbon tetrachloride	U		0.000128	0.00100	1	03/27/2023 05:11	WG2030391
Chlorobenzene	U		0.000116	0.00100	1	03/27/2023 05:11	WG2030391
Chlorodibromomethane	U		0.000140	0.00100	1	03/27/2023 05:11	WG2030391
Chloroethane	U		0.000192	0.00500	1	03/27/2023 05:11	WG2030391
Chloroform	U		0.000111	0.00500	1	03/27/2023 05:11	WG2030391
Chloromethane	U		0.000960	0.00250	1	03/27/2023 05:11	WG2030391
1,2-Dibromoethane	U		0.000126	0.00100	1	03/27/2023 05:11	WG2030391
1,1-Dichloroethane	U		0.000100	0.00100	1	03/27/2023 05:11	WG2030391
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/27/2023 05:11	WG2030391
1,1-Dichloroethene	U		0.000188	0.00100	1	03/27/2023 05:11	WG2030391
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/27/2023 05:11	WG2030391
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/27/2023 05:11	WG2030391
1,2-Dichloropropane	U		0.000149	0.00100	1	03/27/2023 05:11	WG2030391
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/27/2023 05:11	WG2030391
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/27/2023 05:11	WG2030391
Ethylbenzene	U		0.000137	0.00100	1	03/27/2023 05:11	WG2030391
Isopropylbenzene	U		0.000105	0.00100	1	03/27/2023 05:11	WG2030391
p-Isopropyltoluene	U		0.000120	0.00100	1	03/27/2023 05:11	WG2030391
2-Butanone (MEK)	U		0.00119	0.0100	1	03/27/2023 05:11	WG2030391
2-Hexanone	U		0.000787	0.0100	1	03/27/2023 05:11	WG2030391
Methylene Chloride	U		0.000430	0.00500	1	03/27/2023 05:11	WG2030391
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/27/2023 05:11	WG2030391
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/27/2023 05:11	WG2030391
Naphthalene	U		0.00100	0.00500	1	03/27/2023 05:11	WG2030391
n-Propylbenzene	U		0.0000993	0.00100	1	03/27/2023 05:11	WG2030391
Styrene	U		0.000118	0.00100	1	03/27/2023 05:11	WG2030391
tert-Butyl alcohol	U		0.00406	0.00500	1	03/27/2023 05:11	WG2030391
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/27/2023 05:11	WG2030391
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/27/2023 05:11	WG2030391

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Tetrachloroethene	U		0.000300	0.00100	1	03/27/2023 05:11	WG2030391
Toluene	U		0.000278	0.00100	1	03/27/2023 05:11	WG2030391
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/27/2023 05:11	WG2030391
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/27/2023 05:11	WG2030391
Trichloroethene	U		0.000190	0.00100	1	03/27/2023 05:11	WG2030391
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/27/2023 05:11	WG2030391
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/27/2023 05:11	WG2030391
Vinyl chloride	U		0.000234	0.00100	1	03/27/2023 05:11	WG2030391
o-Xylene	U		0.000174	0.00100	1	03/27/2023 05:11	WG2030391
m&p-Xylene	U		0.000430	0.00200	1	03/27/2023 05:11	WG2030391
Xylenes, Total	U		0.000174	0.00300	1	03/27/2023 05:11	WG2030391
(S) Toluene-d8	*101*			*80.0-120*		*03/27/2023 05:11*	WG2030391
(S) 4-Bromofluorobenzene	*92.9*			*77.0-126*		*03/27/2023 05:11*	WG2030391
(S) 1,2-Dichloroethane-d4	*121*			*70.0-130*		*03/27/2023 05:11*	WG2030391

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	0.129	B	0.0247	0.100	1	03/28/2023 21:44	WG2031027
(S) o-Terphenyl	*117*			*31.0-160*		*03/28/2023 21:44*	WG2031027

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	ND		10.0	1	03/23/2023 22:45	WG2028928

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	03/26/2023 18:59	WG2028779

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	0.471	J	0.379	1.00	1	03/22/2023 22:25	WG2028309
Fluoride	U		0.0640	0.150	1	03/22/2023 22:25	WG2028309
Nitrate	0.0718	J	0.0480	0.100	1	03/22/2023 22:25	WG2028309
Nitrite	U		0.0420	0.100	1	03/22/2023 22:25	WG2028309
Sulfate	0.646	J	0.594	5.00	1	03/22/2023 22:25	WG2028309

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	03/27/2023 07:59	WG2029442
Mercury,Dissolved	U		0.000100	0.000200	1	03/28/2023 10:08	WG2030410

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Boron	0.0272	J	0.0200	0.200	1	03/26/2023 22:12	WG2029748
Boron,Dissolved	U		0.0200	0.200	1	03/26/2023 20:32	WG2029740

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	03/27/2023 14:38	WG2028251
Arsenic,Dissolved	U		0.000180	0.00200	1	03/23/2023 20:52	WG2028259
Barium	U		0.000381	0.00200	1	03/27/2023 14:38	WG2028251
Barium,Dissolved	0.00145	J	0.000381	0.00200	1	03/23/2023 20:52	WG2028259
Cadmium	U		0.000150	0.00100	1	03/27/2023 14:38	WG2028251
Cadmium,Dissolved	U		0.000150	0.00100	1	03/23/2023 20:52	WG2028259
Calcium	0.215	J	0.0936	1.00	1	03/27/2023 14:38	WG2028251
Chromium	U		0.00124	0.00200	1	03/27/2023 14:38	WG2028251
Chromium,Dissolved	U	J4	0.00124	0.00200	1	03/23/2023 20:52	WG2028259
Cobalt	0.000941	J	0.0000596	0.00200	1	03/27/2023 17:17	WG2029758
Cobalt,Dissolved	U		0.0000596	0.00200	1	03/23/2023 20:52	WG2028259
Iron	U		0.0281	0.100	1	03/27/2023 14:38	WG2028251
Iron,Dissolved	U		0.0281	0.100	1	03/23/2023 20:52	WG2028259
Lead	U		0.000849	0.00200	1	03/27/2023 14:38	WG2028251
Lead,Dissolved	0.00297		0.000849	0.00200	1	03/23/2023 20:52	WG2028259
Manganese	U		0.000704	0.00500	1	03/27/2023 14:38	WG2028251
Manganese,Dissolved	0.00157	J	0.000704	0.00500	1	03/23/2023 20:52	WG2028259
Nickel	U		0.000816	0.00200	1	03/27/2023 14:38	WG2028251
Nickel,Dissolved	0.00137	J	0.000816	0.00200	1	03/23/2023 20:52	WG2028259
Potassium	U		0.108	2.00	1	03/27/2023 14:38	WG2028251
Selenium	U		0.000300	0.00200	1	03/27/2023 14:38	WG2028251
Selenium,Dissolved	U		0.000300	0.00200	1	03/23/2023 20:52	WG2028259

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Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Sodium	U		0.376	2.00	1	03/27/2023 14:38	WG2028251
Uranium	U		0.0000789	0.00100	1	03/27/2023 14:38	WG2028251
Uranium,Dissolved	U		0.0000789	0.00100	1	03/23/2023 20:52	WG2028259
Vanadium	U		0.000664	0.00500	1	03/27/2023 14:38	WG2028251
Vanadium,Dissolved	0.00131	B J	0.000664	0.00500	1	03/23/2023 20:52	WG2028259

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	0.0331	B J	0.0314	0.100	1	03/26/2023 00:44	WG2029674
(S) a,a,a-Trifluorotoluene(FID)	*99.3*			*78.0-120*		*03/26/2023 00:44*	WG2029674

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	03/27/2023 05:32	WG2030391
Benzene	U		0.0000941	0.00100	1	03/27/2023 05:32	WG2030391
Bromodichloromethane	U		0.000136	0.00100	1	03/27/2023 05:32	WG2030391
Bromoform	U		0.000129	0.00100	1	03/27/2023 05:32	WG2030391
Bromomethane	U		0.000605	0.00500	1	03/27/2023 05:32	WG2030391
n-Butylbenzene	U		0.000157	0.00100	1	03/27/2023 05:32	WG2030391
sec-Butylbenzene	U		0.000125	0.00100	1	03/27/2023 05:32	WG2030391
Carbon disulfide	U		0.0000962	0.00100	1	03/27/2023 05:32	WG2030391
Carbon tetrachloride	U		0.000128	0.00100	1	03/27/2023 05:32	WG2030391
Chlorobenzene	U		0.000116	0.00100	1	03/27/2023 05:32	WG2030391
Chlorodibromomethane	U		0.000140	0.00100	1	03/27/2023 05:32	WG2030391
Chloroethane	U		0.000192	0.00500	1	03/27/2023 05:32	WG2030391
Chloroform	0.000688	J	0.000111	0.00500	1	03/27/2023 05:32	WG2030391
Chloromethane	U		0.000960	0.00250	1	03/27/2023 05:32	WG2030391
1,2-Dibromoethane	U		0.000126	0.00100	1	03/27/2023 05:32	WG2030391
1,1-Dichloroethane	U		0.000100	0.00100	1	03/27/2023 05:32	WG2030391
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/27/2023 05:32	WG2030391
1,1-Dichloroethene	U		0.000188	0.00100	1	03/27/2023 05:32	WG2030391
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/27/2023 05:32	WG2030391
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/27/2023 05:32	WG2030391
1,2-Dichloropropane	U		0.000149	0.00100	1	03/27/2023 05:32	WG2030391
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/27/2023 05:32	WG2030391
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/27/2023 05:32	WG2030391
Ethylbenzene	U		0.000137	0.00100	1	03/27/2023 05:32	WG2030391
Isopropylbenzene	U		0.000105	0.00100	1	03/27/2023 05:32	WG2030391
p-Isopropyltoluene	U		0.000120	0.00100	1	03/27/2023 05:32	WG2030391
2-Butanone (MEK)	U		0.00119	0.0100	1	03/27/2023 05:32	WG2030391
2-Hexanone	U		0.000787	0.0100	1	03/27/2023 05:32	WG2030391
Methylene Chloride	U		0.000430	0.00500	1	03/27/2023 05:32	WG2030391
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/27/2023 05:32	WG2030391
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/27/2023 05:32	WG2030391
Naphthalene	U		0.00100	0.00500	1	03/27/2023 05:32	WG2030391
n-Propylbenzene	U		0.0000993	0.00100	1	03/27/2023 05:32	WG2030391
Styrene	U		0.000118	0.00100	1	03/27/2023 05:32	WG2030391
tert-Butyl alcohol	U		0.00406	0.00500	1	03/27/2023 05:32	WG2030391
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/27/2023 05:32	WG2030391
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/27/2023 05:32	WG2030391
Tetrachloroethene	U		0.000300	0.00100	1	03/27/2023 05:32	WG2030391
Toluene	U		0.000278	0.00100	1	03/27/2023 05:32	WG2030391
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/27/2023 05:32	WG2030391

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Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/27/2023 05:32	WG2030391
Trichloroethene	U		0.000190	0.00100	1	03/27/2023 05:32	WG2030391
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/27/2023 05:32	WG2030391
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/27/2023 05:32	WG2030391
Vinyl chloride	U		0.000234	0.00100	1	03/27/2023 05:32	WG2030391
o-Xylene	U		0.000174	0.00100	1	03/27/2023 05:32	WG2030391
m&p-Xylene	U		0.000430	0.00200	1	03/27/2023 05:32	WG2030391
Xylenes, Total	U		0.000174	0.00300	1	03/27/2023 05:32	WG2030391
(S) Toluene-d8	*102*			*80.0-120*		*03/27/2023 05:32*	WG2030391
(S) 4-Bromofluorobenzene	*92.8*			*77.0-126*		*03/27/2023 05:32*	WG2030391
(S) 1,2-Dichloroethane-d4	*124*			*70.0-130*		*03/27/2023 05:32*	WG2030391

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	0.0682	B J	0.0247	0.100	1	03/28/2023 22:08	WG2031027
(S) o-Terphenyl	*124*			*31.0-160*		*03/28/2023 22:08*	WG2031027

Received by OCD: 6/12/2024 3:31:05 PM

TRIP BLANK-REST-02
Collected date/time: 03/21/23 00:00

SAMPLE RESULTS - 55

L1597201

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	03/27/2023 00:51	WG2030391
Benzene	U		0.0000941	0.00100	1	03/27/2023 00:51	WG2030391
Bromodichloromethane	U		0.000136	0.00100	1	03/27/2023 00:51	WG2030391
Bromoform	U		0.000129	0.00100	1	03/27/2023 00:51	WG2030391
Bromomethane	U		0.000605	0.00500	1	03/27/2023 00:51	WG2030391
n-Butylbenzene	U		0.000157	0.00100	1	03/27/2023 00:51	WG2030391
sec-Butylbenzene	U		0.000125	0.00100	1	03/27/2023 00:51	WG2030391
Carbon disulfide	0.000165	B J	0.0000962	0.00100	1	03/27/2023 00:51	WG2030391
Carbon tetrachloride	U		0.000128	0.00100	1	03/27/2023 00:51	WG2030391
Chlorobenzene	U		0.000116	0.00100	1	03/27/2023 00:51	WG2030391
Chlorodibromomethane	U		0.000140	0.00100	1	03/27/2023 00:51	WG2030391
Chloroethane	U		0.000192	0.00500	1	03/27/2023 00:51	WG2030391
Chloroform	U		0.000111	0.00500	1	03/27/2023 00:51	WG2030391
Chloromethane	U		0.000960	0.00250	1	03/27/2023 00:51	WG2030391
1,2-Dibromoethane	U		0.000126	0.00100	1	03/27/2023 00:51	WG2030391
1,1-Dichloroethane	U		0.000100	0.00100	1	03/27/2023 00:51	WG2030391
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/27/2023 00:51	WG2030391
1,1-Dichloroethene	U		0.000188	0.00100	1	03/27/2023 00:51	WG2030391
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/27/2023 00:51	WG2030391
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/27/2023 00:51	WG2030391
1,2-Dichloropropane	U		0.000149	0.00100	1	03/27/2023 00:51	WG2030391
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/27/2023 00:51	WG2030391
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/27/2023 00:51	WG2030391
Ethylbenzene	U		0.000137	0.00100	1	03/27/2023 00:51	WG2030391
Isopropylbenzene	U		0.000105	0.00100	1	03/27/2023 00:51	WG2030391
p-Isopropyltoluene	U		0.000120	0.00100	1	03/27/2023 00:51	WG2030391
2-Butanone (MEK)	U		0.00119	0.0100	1	03/27/2023 00:51	WG2030391
2-Hexanone	U		0.000787	0.0100	1	03/27/2023 00:51	WG2030391
Methylene Chloride	U		0.000430	0.00500	1	03/27/2023 00:51	WG2030391
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/27/2023 00:51	WG2030391
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/27/2023 00:51	WG2030391
Naphthalene	U		0.00100	0.00500	1	03/27/2023 00:51	WG2030391
n-Propylbenzene	U		0.0000993	0.00100	1	03/27/2023 00:51	WG2030391
Styrene	U		0.000118	0.00100	1	03/27/2023 00:51	WG2030391
tert-Butyl alcohol	U		0.00406	0.00500	1	03/27/2023 00:51	WG2030391
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/27/2023 00:51	WG2030391
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/27/2023 00:51	WG2030391
Tetrachloroethene	U		0.000300	0.00100	1	03/27/2023 00:51	WG2030391
Toluene	U		0.000278	0.00100	1	03/27/2023 00:51	WG2030391
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/27/2023 00:51	WG2030391
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/27/2023 00:51	WG2030391
Trichloroethene	U		0.000190	0.00100	1	03/27/2023 00:51	WG2030391
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/27/2023 00:51	WG2030391
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/27/2023 00:51	WG2030391
Vinyl chloride	U		0.000234	0.00100	1	03/27/2023 00:51	WG2030391
o-Xylene	U		0.000174	0.00100	1	03/27/2023 00:51	WG2030391
m&p-Xylene	U		0.000430	0.00200	1	03/27/2023 00:51	WG2030391
Xylenes, Total	U		0.000174	0.00300	1	03/27/2023 00:51	WG2030391
(S) Toluene-d8	*104*			*80.0-120*		*03/27/2023 00:51*	WG2030391
(S) 4-Bromofluorobenzene	*99.2*			*77.0-126*		*03/27/2023 00:51*	WG2030391
(S) 1,2-Dichloroethane-d4	*116*			*70.0-130*		*03/27/2023 00:51*	WG2030391

Released to Imaging: 6/28/2024 11:23:28 AM

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1710		25.0	1	03/23/2023 22:45	WG2028928

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	101		3.79	10.0	10	03/23/2023 01:15	WG2028210
Fluoride	1.47	J	0.640	1.50	10	03/23/2023 01:15	WG2028210
Nitrate	U		0.480	1.00	10	03/23/2023 01:15	WG2028210
Nitrite	U		0.420	1.00	10	03/23/2023 01:15	WG2028210
Sulfate	534		5.94	50.0	10	03/23/2023 01:15	WG2028210

Sample Narrative:

L1597201-56 WG2028210: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0117		0.000180	0.00200	1	03/27/2023 14:41	WG2028251
Arsenic,Dissolved	0.00867		0.000180	0.00200	1	03/23/2023 20:55	WG2028259
Barium	0.176		0.000381	0.00200	1	03/27/2023 14:41	WG2028251
Barium,Dissolved	0.191		0.000381	0.00200	1	03/23/2023 20:55	WG2028259
Calcium	279		0.0936	1.00	1	03/27/2023 14:41	WG2028251
Chromium	U		0.00124	0.00200	1	03/27/2023 14:41	WG2028251
Chromium,Dissolved	U	J4	0.00124	0.00200	1	03/23/2023 20:55	WG2028259
Iron	0.0923	J	0.0281	0.100	1	03/27/2023 14:41	WG2028251
Iron,Dissolved	U		0.0281	0.100	1	03/23/2023 20:55	WG2028259
Lead	0.00128	J	0.000849	0.00200	1	03/27/2023 14:41	WG2028251
Lead,Dissolved	U		0.000849	0.00200	1	03/23/2023 20:55	WG2028259
Manganese	0.476		0.000704	0.00500	1	03/27/2023 14:41	WG2028251
Manganese,Dissolved	0.474		0.000704	0.00500	1	03/23/2023 20:55	WG2028259
Potassium	1.67	J	0.108	2.00	1	03/27/2023 14:41	WG2028251
Selenium	U		0.000300	0.00200	1	03/27/2023 14:41	WG2028251
Selenium,Dissolved	U		0.000300	0.00200	1	03/23/2023 20:55	WG2028259
Sodium	125		0.376	2.00	1	03/27/2023 14:41	WG2028251

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	13.1		0.314	1.00	10	03/26/2023 01:50	WG2029674
(S) a,a,a-Trifluorotoluene(FID)	*92.3*			*78.0-120*		*03/26/2023 01:50*	WG2029674

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	03/27/2023 06:32	WG2030391
Benzene	3.93		0.00471	0.0500	50	03/27/2023 19:22	WG2030864
Bromodichloromethane	U		0.00136	0.0100	10	03/27/2023 06:32	WG2030391
Bromoform	U		0.00129	0.0100	10	03/27/2023 06:32	WG2030391
Bromomethane	U		0.00605	0.0500	10	03/27/2023 06:32	WG2030391
n-Butylbenzene	U		0.00157	0.0100	10	03/27/2023 06:32	WG2030391
sec-Butylbenzene	0.00531	J	0.00125	0.0100	10	03/27/2023 06:32	WG2030391
Carbon disulfide	0.00602	B J	0.000962	0.0100	10	03/27/2023 06:32	WG2030391
Carbon tetrachloride	U		0.00128	0.0100	10	03/27/2023 06:32	WG2030391

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	03/27/2023 06:32	WG2030391
Chlorodibromomethane	U		0.00140	0.0100	10	03/27/2023 06:32	WG2030391
Chloroethane	U		0.00192	0.0500	10	03/27/2023 06:32	WG2030391
Chloroform	U		0.00111	0.0500	10	03/27/2023 06:32	WG2030391
Chloromethane	U		0.00960	0.0250	10	03/27/2023 06:32	WG2030391
1,2-Dibromoethane	U		0.00126	0.0100	10	03/27/2023 06:32	WG2030391
1,1-Dichloroethane	U		0.00100	0.0100	10	03/27/2023 06:32	WG2030391
1,2-Dichloroethane	U		0.000819	0.0100	10	03/27/2023 06:32	WG2030391
1,1-Dichloroethene	U		0.00188	0.0100	10	03/27/2023 06:32	WG2030391
cis-1,2-Dichloroethene	U		0.00126	0.0100	10	03/27/2023 06:32	WG2030391
trans-1,2-Dichloroethene	U		0.00149	0.0100	10	03/27/2023 06:32	WG2030391
1,2-Dichloropropane	U		0.00149	0.0100	10	03/27/2023 06:32	WG2030391
cis-1,3-Dichloropropene	U		0.00111	0.0100	10	03/27/2023 06:32	WG2030391
trans-1,3-Dichloropropene	U		0.00118	0.0100	10	03/27/2023 06:32	WG2030391
Ethylbenzene	0.0323		0.00137	0.0100	10	03/27/2023 06:32	WG2030391
Isopropylbenzene	0.0297		0.00105	0.0100	10	03/27/2023 06:32	WG2030391
p-Isopropyltoluene	U		0.00120	0.0100	10	03/27/2023 06:32	WG2030391
2-Butanone (MEK)	U		0.0119	0.100	10	03/27/2023 06:32	WG2030391
2-Hexanone	U		0.00787	0.100	10	03/27/2023 06:32	WG2030391
Methylene Chloride	U		0.00430	0.0500	10	03/27/2023 06:32	WG2030391
4-Methyl-2-pentanone (MIBK)	U		0.00478	0.100	10	03/27/2023 06:32	WG2030391
Methyl tert-butyl ether	0.0790		0.00101	0.0100	10	03/27/2023 06:32	WG2030391
Naphthalene	0.0250	J	0.0100	0.0500	10	03/27/2023 06:32	WG2030391
n-Propylbenzene	0.0312		0.000993	0.0100	10	03/27/2023 06:32	WG2030391
Styrene	U		0.00118	0.0100	10	03/27/2023 06:32	WG2030391
tert-Butyl alcohol	0.0606		0.0406	0.0500	10	03/27/2023 06:32	WG2030391
1,1,1,2-Tetrachloroethane	U		0.00147	0.0100	10	03/27/2023 06:32	WG2030391
1,1,2,2-Tetrachloroethane	U		0.00133	0.0100	10	03/27/2023 06:32	WG2030391
Tetrachloroethene	U		0.00300	0.0100	10	03/27/2023 06:32	WG2030391
Toluene	0.0130		0.00278	0.0100	10	03/27/2023 06:32	WG2030391
1,1,1-Trichloroethane	U		0.00149	0.0100	10	03/27/2023 06:32	WG2030391
1,1,2-Trichloroethane	U		0.00158	0.0100	10	03/27/2023 06:32	WG2030391
Trichloroethene	U		0.00190	0.0100	10	03/27/2023 06:32	WG2030391
1,2,4-Trimethylbenzene	0.0707		0.00322	0.0100	10	03/27/2023 06:32	WG2030391
1,3,5-Trimethylbenzene	0.00255	J	0.00104	0.0100	10	03/27/2023 06:32	WG2030391
Vinyl chloride	U		0.00234	0.0100	10	03/27/2023 06:32	WG2030391
o-Xylene	U		0.00174	0.0100	10	03/27/2023 06:32	WG2030391
m&p-Xylene	0.168		0.00430	0.0200	10	03/27/2023 06:32	WG2030391
Xylenes, Total	0.168		0.00174	0.0300	10	03/27/2023 06:32	WG2030391
(S) Toluene-d8	*104*			*80.0-120*		*03/27/2023 06:32*	WG2030391
(S) Toluene-d8	*106*			*80.0-120*		*03/27/2023 19:22*	WG2030864
(S) 4-Bromofluorobenzene	*99.6*			*77.0-126*		*03/27/2023 06:32*	WG2030391
(S) 4-Bromofluorobenzene	*98.8*			*77.0-126*		*03/27/2023 19:22*	WG2030864
(S) 1,2-Dichloroethane-d4	*117*			*70.0-130*		*03/27/2023 06:32*	WG2030391
(S) 1,2-Dichloroethane-d4	*99.4*			*70.0-130*		*03/27/2023 19:22*	WG2030864

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	9.58		0.123	0.500	5	03/29/2023 18:13	WG2031027
(S) o-Terphenyl	*189*	J1		*31.0-160*		*03/29/2023 18:13*	WG2031027

Sample Narrative:

L1597201-56 WG2031027: Dilution and 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	1390	J3	20.0	1	03/23/2023 22:45	WG2028928

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	31.1		3.79	10.0	10	03/23/2023 01:20	WG2028309
Fluoride	0.775	J	0.640	1.50	10	03/23/2023 01:20	WG2028309
Nitrate	U		0.480	1.00	10	03/23/2023 01:20	WG2028309
Nitrite	0.652	J	0.420	1.00	10	03/23/2023 01:20	WG2028309
Sulfate	418		5.94	50.0	10	03/23/2023 01:20	WG2028309

Sample Narrative:

L1597201-57 WG2028309: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00751		0.000180	0.00200	1	03/27/2023 15:00	WG2028251
Arsenic,Dissolved	0.00778		0.000180	0.00200	1	03/23/2023 20:58	WG2028259
Barium	0.220		0.00190	0.0100	5	03/27/2023 15:13	WG2028251
Barium,Dissolved	0.275		0.000381	0.00200	1	03/23/2023 20:58	WG2028259
Calcium	282		0.0936	1.00	1	03/27/2023 15:00	WG2028251
Chromium	0.00176	J	0.00124	0.00200	1	03/27/2023 15:00	WG2028251
Chromium,Dissolved	0.00165	J J4	0.00124	0.00200	1	03/23/2023 20:58	WG2028259
Iron	0.167		0.0281	0.100	1	03/27/2023 15:00	WG2028251
Iron,Dissolved	U		0.0281	0.100	1	03/23/2023 20:58	WG2028259
Lead	U		0.000849	0.00200	1	03/27/2023 15:00	WG2028251
Lead,Dissolved	U		0.000849	0.00200	1	03/23/2023 20:58	WG2028259
Manganese	0.144		0.000704	0.00500	1	03/27/2023 15:00	WG2028251
Manganese,Dissolved	0.151		0.000704	0.00500	1	03/23/2023 20:58	WG2028259
Potassium	3.58		0.108	2.00	1	03/27/2023 15:00	WG2028251
Selenium	U		0.000300	0.00200	1	03/27/2023 15:00	WG2028251
Selenium,Dissolved	0.000310	J	0.000300	0.00200	1	03/23/2023 20:58	WG2028259
Sodium	32.9		0.376	2.00	1	03/27/2023 15:00	WG2028251

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	12.8		0.785	2.50	25	03/26/2023 02:12	WG2029674
(S) a,a,a-Trifluorotoluene(FID)	*94.7*			*78.0-120*		*03/26/2023 02:12*	WG2029674

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	03/27/2023 06:52	WG2030391
Benzene	3.65		0.00941	0.100	100	03/27/2023 06:52	WG2030391
Bromodichloromethane	U		0.0136	0.100	100	03/27/2023 06:52	WG2030391
Bromoform	U		0.0129	0.100	100	03/27/2023 06:52	WG2030391
Bromomethane	U		0.0605	0.500	100	03/27/2023 06:52	WG2030391
n-Butylbenzene	U		0.0157	0.100	100	03/27/2023 06:52	WG2030391
sec-Butylbenzene	U		0.0125	0.100	100	03/27/2023 06:52	WG2030391
Carbon disulfide	0.0738	B J	0.00962	0.100	100	03/27/2023 06:52	WG2030391
Carbon tetrachloride	U		0.0128	0.100	100	03/27/2023 06:52	WG2030391

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	03/27/2023 06:52	WG2030391
Chlorodibromomethane	U		0.0140	0.100	100	03/27/2023 06:52	WG2030391
Chloroethane	U		0.0192	0.500	100	03/27/2023 06:52	WG2030391
Chloroform	U		0.0111	0.500	100	03/27/2023 06:52	WG2030391
Chloromethane	U		0.0960	0.250	100	03/27/2023 06:52	WG2030391
1,2-Dibromoethane	U		0.0126	0.100	100	03/27/2023 06:52	WG2030391
1,1-Dichloroethane	U		0.0100	0.100	100	03/27/2023 06:52	WG2030391
1,2-Dichloroethane	U		0.00819	0.100	100	03/27/2023 06:52	WG2030391
1,1-Dichloroethene	U		0.0188	0.100	100	03/27/2023 06:52	WG2030391
cis-1,2-Dichloroethene	U		0.0126	0.100	100	03/27/2023 06:52	WG2030391
trans-1,2-Dichloroethene	U		0.0149	0.100	100	03/27/2023 06:52	WG2030391
1,2-Dichloropropane	U		0.0149	0.100	100	03/27/2023 06:52	WG2030391
cis-1,3-Dichloropropene	U		0.0111	0.100	100	03/27/2023 06:52	WG2030391
trans-1,3-Dichloropropene	U		0.0118	0.100	100	03/27/2023 06:52	WG2030391
Ethylbenzene	0.0216	J	0.0137	0.100	100	03/27/2023 06:52	WG2030391
Isopropylbenzene	0.0301	J	0.0105	0.100	100	03/27/2023 06:52	WG2030391
p-Isopropyltoluene	U		0.0120	0.100	100	03/27/2023 06:52	WG2030391
2-Butanone (MEK)	U		0.119	1.00	100	03/27/2023 06:52	WG2030391
2-Hexanone	U		0.0787	1.00	100	03/27/2023 06:52	WG2030391
Methylene Chloride	U		0.0430	0.500	100	03/27/2023 06:52	WG2030391
4-Methyl-2-pentanone (MIBK)	U		0.0478	1.00	100	03/27/2023 06:52	WG2030391
Methyl tert-butyl ether	U		0.0101	0.100	100	03/27/2023 06:52	WG2030391
Naphthalene	U		0.100	0.500	100	03/27/2023 06:52	WG2030391
n-Propylbenzene	0.0324	J	0.00993	0.100	100	03/27/2023 06:52	WG2030391
Styrene	U		0.0118	0.100	100	03/27/2023 06:52	WG2030391
tert-Butyl alcohol	U		0.406	0.500	100	03/27/2023 06:52	WG2030391
1,1,1,2-Tetrachloroethane	U		0.0147	0.100	100	03/27/2023 06:52	WG2030391
1,1,2,2-Tetrachloroethane	U		0.0133	0.100	100	03/27/2023 06:52	WG2030391
Tetrachloroethene	U		0.0300	0.100	100	03/27/2023 06:52	WG2030391
Toluene	U		0.0278	0.100	100	03/27/2023 06:52	WG2030391
1,1,1-Trichloroethane	U		0.0149	0.100	100	03/27/2023 06:52	WG2030391
1,1,2-Trichloroethane	U		0.0158	0.100	100	03/27/2023 06:52	WG2030391
Trichloroethene	U		0.0190	0.100	100	03/27/2023 06:52	WG2030391
1,2,4-Trimethylbenzene	0.0363	J	0.0322	0.100	100	03/27/2023 06:52	WG2030391
1,3,5-Trimethylbenzene	U		0.0104	0.100	100	03/27/2023 06:52	WG2030391
Vinyl chloride	U		0.0234	0.100	100	03/27/2023 06:52	WG2030391
o-Xylene	U		0.0174	0.100	100	03/27/2023 06:52	WG2030391
m&p-Xylene	0.0927	J	0.0430	0.200	100	03/27/2023 06:52	WG2030391
Xylenes, Total	0.0927	J	0.0174	0.300	100	03/27/2023 06:52	WG2030391
(S) Toluene-d8	*102*			*80.0-120*		*03/27/2023 06:52*	WG2030391
(S) 4-Bromofluorobenzene	*97.3*			*77.0-126*		*03/27/2023 06:52*	WG2030391
(S) 1,2-Dichloroethane-d4	*125*			*70.0-130*		*03/27/2023 06:52*	WG2030391

Sample Narrative:

L1597201-57 WG2030391: 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	8.45		0.0247	0.100	1	03/28/2023 23:02	WG2031027
(S) o-Terphenyl	*156*			*31.0-160*		*03/28/2023 23:02*	WG2031027

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2010		50.0	1	03/23/2023 22:45	WG2028928

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	274		3.79	10.0	10	03/23/2023 04:11	WG2028210
Fluoride	0.723		0.0640	0.150	1	03/23/2023 00:07	WG2028210
Nitrate	U		0.0480	0.100	1	03/23/2023 00:07	WG2028210
Nitrite	U		0.0420	0.100	1	03/23/2023 00:07	WG2028210
Sulfate	687		5.94	50.0	10	03/23/2023 04:11	WG2028210

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0200		0.000180	0.00200	1	03/27/2023 13:39	WG2028251
Arsenic,Dissolved	0.0502		0.000180	0.00200	1	03/23/2023 21:01	WG2028259
Barium	0.0845		0.000381	0.00200	1	03/27/2023 13:39	WG2028251
Barium,Dissolved	0.354		0.000381	0.00200	1	03/23/2023 21:01	WG2028259
Calcium	261		0.0936	1.00	1	03/27/2023 13:39	WG2028251
Chromium	0.00205		0.00124	0.00200	1	03/27/2023 13:39	WG2028251
Chromium,Dissolved	U	J4	0.00124	0.00200	1	03/23/2023 21:01	WG2028259
Iron	0.294		0.0281	0.100	1	03/27/2023 13:39	WG2028251
Iron,Dissolved	U		0.0281	0.100	1	03/23/2023 21:01	WG2028259
Lead	0.000897	J	0.000849	0.00200	1	03/27/2023 13:39	WG2028251
Lead,Dissolved	U		0.000849	0.00200	1	03/23/2023 21:01	WG2028259
Manganese	0.866		0.000704	0.00500	1	03/27/2023 13:39	WG2028251
Manganese,Dissolved	0.0103		0.000704	0.00500	1	03/23/2023 21:01	WG2028259
Potassium	1.26	J	0.108	2.00	1	03/27/2023 13:39	WG2028251
Selenium	0.00162	J	0.000300	0.00200	1	03/27/2023 13:39	WG2028251
Selenium,Dissolved	U		0.000300	0.00200	1	03/24/2023 12:14	WG2028259
Sodium	219		0.376	2.00	1	03/27/2023 13:39	WG2028251

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	5.56	B	0.628	2.00	20	03/26/2023 02:34	WG2029674
(S) a,a,a-Trifluorotoluene(FID)	*97.5*			*78.0-120*		*03/26/2023 02:34*	WG2029674

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	03/27/2023 07:12	WG2030391
Benzene	1.51		0.00188	0.0200	20	03/27/2023 07:12	WG2030391
Bromodichloromethane	U		0.00272	0.0200	20	03/27/2023 07:12	WG2030391
Bromoform	U		0.00258	0.0200	20	03/27/2023 07:12	WG2030391
Bromomethane	U		0.0121	0.100	20	03/27/2023 07:12	WG2030391
n-Butylbenzene	0.0156	J	0.00314	0.0200	20	03/27/2023 07:12	WG2030391
sec-Butylbenzene	0.0131	J	0.00250	0.0200	20	03/27/2023 07:12	WG2030391
Carbon disulfide	0.0125	B J	0.00192	0.0200	20	03/27/2023 07:12	WG2030391
Carbon tetrachloride	U		0.00256	0.0200	20	03/27/2023 07:12	WG2030391
Chlorobenzene	U		0.00232	0.0200	20	03/27/2023 07:12	WG2030391
Chlorodibromomethane	U		0.00280	0.0200	20	03/27/2023 07:12	WG2030391
Chloroethane	U		0.00384	0.100	20	03/27/2023 07:12	WG2030391

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloroform	U		0.00222	0.100	20	03/27/2023 07:12	WG2030391
Chloromethane	U		0.0192	0.0500	20	03/27/2023 07:12	WG2030391
1,2-Dibromoethane	U		0.00252	0.0200	20	03/27/2023 07:12	WG2030391
1,1-Dichloroethane	U		0.00200	0.0200	20	03/27/2023 07:12	WG2030391
1,2-Dichloroethane	U		0.00164	0.0200	20	03/27/2023 07:12	WG2030391
1,1-Dichloroethene	U		0.00376	0.0200	20	03/27/2023 07:12	WG2030391
cis-1,2-Dichloroethene	0.634		0.00252	0.0200	20	03/27/2023 07:12	WG2030391
trans-1,2-Dichloroethene	0.0118	J	0.00298	0.0200	20	03/27/2023 07:12	WG2030391
1,2-Dichloropropane	U		0.00298	0.0200	20	03/27/2023 07:12	WG2030391
cis-1,3-Dichloropropene	U		0.00222	0.0200	20	03/27/2023 07:12	WG2030391
trans-1,3-Dichloropropene	U		0.00236	0.0200	20	03/27/2023 07:12	WG2030391
Ethylbenzene	0.198		0.00274	0.0200	20	03/27/2023 07:12	WG2030391
Isopropylbenzene	0.0286		0.00210	0.0200	20	03/27/2023 07:12	WG2030391
p-Isopropyltoluene	U		0.00240	0.0200	20	03/27/2023 07:12	WG2030391
2-Butanone (MEK)	U		0.0238	0.200	20	03/27/2023 07:12	WG2030391
2-Hexanone	U		0.0157	0.200	20	03/27/2023 07:12	WG2030391
Methylene Chloride	U		0.00860	0.100	20	03/27/2023 07:12	WG2030391
4-Methyl-2-pentanone (MIBK)	U		0.00956	0.200	20	03/27/2023 07:12	WG2030391
Methyl tert-butyl ether	U		0.00202	0.0200	20	03/27/2023 07:12	WG2030391
Naphthalene	0.0234	J	0.0200	0.100	20	03/27/2023 07:12	WG2030391
n-Propylbenzene	0.0491		0.00199	0.0200	20	03/27/2023 07:12	WG2030391
Styrene	U		0.00236	0.0200	20	03/27/2023 07:12	WG2030391
tert-Butyl alcohol	U		0.0812	0.100	20	03/27/2023 07:12	WG2030391
1,1,1,2-Tetrachloroethane	U		0.00294	0.0200	20	03/27/2023 07:12	WG2030391
1,1,2,2-Tetrachloroethane	U		0.00266	0.0200	20	03/27/2023 07:12	WG2030391
Tetrachloroethene	0.102		0.00600	0.0200	20	03/27/2023 07:12	WG2030391
Toluene	0.0248		0.00556	0.0200	20	03/27/2023 07:12	WG2030391
1,1,1-Trichloroethane	U		0.00298	0.0200	20	03/27/2023 07:12	WG2030391
1,1,2-Trichloroethane	U		0.00316	0.0200	20	03/27/2023 07:12	WG2030391
Trichloroethene	0.200		0.00380	0.0200	20	03/27/2023 07:12	WG2030391
1,2,4-Trimethylbenzene	0.0692		0.00644	0.0200	20	03/27/2023 07:12	WG2030391
1,3,5-Trimethylbenzene	0.0187	J	0.00208	0.0200	20	03/27/2023 07:12	WG2030391
Vinyl chloride	0.228		0.00468	0.0200	20	03/27/2023 07:12	WG2030391
o-Xylene	0.0103	J	0.00348	0.0200	20	03/27/2023 07:12	WG2030391
m&p-Xylene	0.0634		0.00860	0.0400	20	03/27/2023 07:12	WG2030391
Xylenes, Total	0.0737		0.00348	0.0600	20	03/27/2023 07:12	WG2030391
(S) Toluene-d8	*102*			*80.0-120*		*03/27/2023 07:12*	WG2030391
(S) 4-Bromofluorobenzene	*94.4*			*77.0-126*		*03/27/2023 07:12*	WG2030391
(S) 1,2-Dichloroethane-d4	*118*			*70.0-130*		*03/27/2023 07:12*	WG2030391

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	5.76		0.0247	0.100	1	03/29/2023 03:47	WG2031031
(S) o-Terphenyl	*127*			*31.0-160*		*03/29/2023 03:47*	WG2031031

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	0.000280	J	0.0000447	0.000400	1	03/23/2023 12:21	WG2027707
(S) Nitrobenzene-d5	*56.4*			*10.0-120*		*03/23/2023 12:21*	WG2027707

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	0.00148		0.0000886	0.00100	1	03/28/2023 15:02	WG2030230
Acenaphthylene	U		0.0000921	0.00100	1	03/28/2023 15:02	WG2030230
Acetophenone	U		0.000208	0.0100	1	03/28/2023 15:02	WG2030230
Anthracene	0.000286	J	0.0000804	0.00100	1	03/28/2023 15:02	WG2030230
Atrazine	U		0.000255	0.0100	1	03/28/2023 15:02	WG2030230
Benzo(a)anthracene	U		0.000199	0.00100	1	03/28/2023 15:02	WG2030230
Benzaldehyde	U	J4	0.00169	0.0100	1	03/28/2023 15:02	WG2030230
Benzo(b)fluoranthene	U		0.000130	0.00100	1	03/28/2023 15:02	WG2030230
Benzo(k)fluoranthene	U		0.000120	0.00100	1	03/28/2023 15:02	WG2030230
Benzo(g,h,i)perylene	U		0.000121	0.00100	1	03/28/2023 15:02	WG2030230
Benzo(a)pyrene	U		0.0000381	0.000200	1	03/28/2023 15:02	WG2030230
Biphenyl	0.00158	J	0.000790	0.0100	1	03/28/2023 15:02	WG2030230
Bis(2-chlorethoxy)methane	U		0.000116	0.0100	1	03/28/2023 15:02	WG2030230
Bis(2-chloroethyl)ether	U		0.000137	0.0100	1	03/28/2023 15:02	WG2030230
2,2-Oxybis(1-Chloropropane)	U		0.000210	0.0100	1	03/28/2023 15:02	WG2030230
4-Bromophenyl-phenylether	U		0.0000877	0.0100	1	03/28/2023 15:02	WG2030230
2-Chloronaphthalene	U		0.0000648	0.00100	1	03/28/2023 15:02	WG2030230
4-Chlorophenyl-phenylether	U		0.0000926	0.0100	1	03/28/2023 15:02	WG2030230
Caprolactam	U		0.000309	0.0100	1	03/28/2023 15:02	WG2030230
Carbazole	0.00332	J	0.000111	0.0100	1	03/28/2023 15:02	WG2030230
Chrysene	U		0.000130	0.00100	1	03/28/2023 15:02	WG2030230
Dibenz(a,h)anthracene	U		0.0000644	0.000200	1	03/28/2023 15:02	WG2030230
Dibenzofuran	0.00259	J	0.0000970	0.0100	1	03/28/2023 15:02	WG2030230
3,3-Dichlorobenzidine	U		0.000212	0.0100	1	03/28/2023 15:02	WG2030230
2,4-Dinitrotoluene	U		0.0000983	0.0100	1	03/28/2023 15:02	WG2030230
2,6-Dinitrotoluene	U		0.000250	0.0100	1	03/28/2023 15:02	WG2030230
Fluoranthene	0.000419	J	0.000102	0.00100	1	03/28/2023 15:02	WG2030230
Fluorene	0.00359		0.0000844	0.00100	1	03/28/2023 15:02	WG2030230
Hexachlorobenzene	U		0.0000755	0.00100	1	03/28/2023 15:02	WG2030230
Hexachloro-1,3-butadiene	U		0.0000968	0.0100	1	03/28/2023 15:02	WG2030230
Hexachlorocyclopentadiene	U		0.0000598	0.0100	1	03/28/2023 15:02	WG2030230
Hexachloroethane	U		0.000127	0.0100	1	03/28/2023 15:02	WG2030230
Indeno(1,2,3-cd)pyrene	U		0.000279	0.00100	1	03/28/2023 15:02	WG2030230
Isophorone	U		0.000143	0.0100	1	03/28/2023 15:02	WG2030230
1-Methylnaphthalene	0.0187		0.0000790	0.00100	1	03/28/2023 15:02	WG2030230
2-Methylnaphthalene	0.0148		0.000117	0.00100	1	03/28/2023 15:02	WG2030230
Naphthalene	0.0149		0.000159	0.00100	1	03/28/2023 15:02	WG2030230
Nitrobenzene	U		0.000297	0.0100	1	03/28/2023 15:02	WG2030230
n-Nitrosodiphenylamine	U		0.00237	0.0100	1	03/28/2023 15:02	WG2030230
n-Nitrosodi-n-propylamine	U		0.000261	0.0100	1	03/28/2023 15:02	WG2030230
Phenanthrene	0.00813		0.000112	0.00100	1	03/28/2023 15:02	WG2030230
Benzylbutyl phthalate	U		0.000765	0.00300	1	03/28/2023 15:02	WG2030230
Bis(2-ethylhexyl)phthalate	0.00546		0.000895	0.00300	1	03/28/2023 15:02	WG2030230
Di-n-butyl phthalate	U		0.000453	0.00300	1	03/28/2023 15:02	WG2030230
Diethyl phthalate	U		0.000287	0.00300	1	03/28/2023 15:02	WG2030230
Dimethyl phthalate	U		0.000260	0.00300	1	03/28/2023 15:02	WG2030230
Di-n-octyl phthalate	U		0.000932	0.00300	1	03/28/2023 15:02	WG2030230
Pyrene	0.000875	J	0.000107	0.00100	1	03/28/2023 15:02	WG2030230
1,2,4-Trichlorobenzene	U		0.0000698	0.0100	1	03/28/2023 15:02	WG2030230
4-Chloro-3-methylphenol	U		0.000131	0.0100	1	03/28/2023 15:02	WG2030230
2-Chlorophenol	U		0.000133	0.0100	1	03/28/2023 15:02	WG2030230
2,4-Dichlorophenol	U		0.000102	0.0100	1	03/28/2023 15:02	WG2030230
2,4-Dimethylphenol	U		0.0000636	0.0100	1	03/28/2023 15:02	WG2030230
4,6-Dinitro-2-methylphenol	U		0.00112	0.0100	1	03/28/2023 15:02	WG2030230
2,4-Dinitrophenol	U		0.00593	0.0100	1	03/28/2023 15:02	WG2030230
2-Nitrophenol	U		0.000117	0.0100	1	03/28/2023 15:02	WG2030230

RW-2
Collected date/time: 03/21/23 10:25
L1597201

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		0.000102	0.0100	1	03/28/2023 15:02	WG2030230
2-Methylphenol	U		0.0000929	0.0100	1	03/28/2023 15:02	WG2030230
3&4-Methyl Phenol	U		0.000168	0.0100	1	03/28/2023 15:02	WG2030230
3-Nitroaniline	U		0.0000869	0.0100	1	03/28/2023 15:02	WG2030230
4-Chloroaniline	U		0.000234	0.0100	1	03/28/2023 15:02	WG2030230
4-Nitroaniline	U		0.0000910	0.0100	1	03/28/2023 15:02	WG2030230
4-Nitrophenol	U		0.000143	0.0100	1	03/28/2023 15:02	WG2030230
Pentachlorophenol	U		0.000313	0.0100	1	03/28/2023 15:02	WG2030230
Phenol	0.00652	J	0.00433	0.0100	1	03/28/2023 15:02	WG2030230
2,4,5-Trichlorophenol	U		0.000109	0.0100	1	03/28/2023 15:02	WG2030230
2,4,6-Trichlorophenol	U		0.000100	0.0100	1	03/28/2023 15:02	WG2030230
(S) 2-Fluorophenol	*28.8*			*10.0-120*		*03/28/2023 15:02*	WG2030230
(S) Phenol-d5	*18.1*			*10.0-120*		*03/28/2023 15:02*	WG2030230
(S) Nitrobenzene-d5	*56.5*			*10.0-127*		*03/28/2023 15:02*	WG2030230
(S) 2-Fluorobiphenyl	*66.3*			*10.0-130*		*03/28/2023 15:02*	WG2030230
(S) 2,4,6-Tribromophenol	*65.9*			*10.0-155*		*03/28/2023 15:02*	WG2030230
(S) p-Terphenyl-d14	*71.1*			*10.0-128*		*03/28/2023 15:02*	WG2030230

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2450		50.0	1	03/23/2023 22:45	WG2028928

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	365		3.79	10.0	10	03/22/2023 22:41	WG2028309
Fluoride	1.33	J	0.640	1.50	10	03/22/2023 22:41	WG2028309
Nitrate	0.642	J	0.480	1.00	10	03/22/2023 22:41	WG2028309
Nitrite	0.657	J	0.420	1.00	10	03/22/2023 22:41	WG2028309
Sulfate	784		5.94	50.0	10	03/22/2023 22:41	WG2028309

Sample Narrative:

L1597201-59 WG2028309: Dilution due to matrix.

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	03/27/2023 15:04	WG2028251
Arsenic,Dissolved	0.00270	B	0.000180	0.00200	1	03/23/2023 21:11	WG2028259
Barium	0.0518		0.000381	0.00200	1	03/27/2023 15:04	WG2028251
Barium,Dissolved	0.0900		0.000381	0.00200	1	03/23/2023 21:11	WG2028259
Calcium	325		0.0936	1.00	1	03/27/2023 15:04	WG2028251
Chromium	U		0.00124	0.00200	1	03/27/2023 15:04	WG2028251
Chromium,Dissolved	U	J4	0.00124	0.00200	1	03/23/2023 21:11	WG2028259
Iron	U		0.0281	0.100	1	03/27/2023 15:04	WG2028251
Iron,Dissolved	0.0726	B J	0.0281	0.100	1	03/23/2023 21:11	WG2028259
Lead	0.00342		0.000849	0.00200	1	03/27/2023 15:04	WG2028251
Lead,Dissolved	U		0.000849	0.00200	1	03/23/2023 21:11	WG2028259
Manganese	0.0293		0.000704	0.00500	1	03/27/2023 15:04	WG2028251
Manganese,Dissolved	0.867		0.000704	0.00500	1	03/23/2023 21:11	WG2028259
Potassium	1.17	J	0.108	2.00	1	03/27/2023 15:04	WG2028251
Selenium	U		0.000300	0.00200	1	03/27/2023 15:04	WG2028251
Selenium,Dissolved	0.000504	J	0.000300	0.00200	1	03/23/2023 21:11	WG2028259
Sodium	288		0.376	2.00	1	03/27/2023 15:04	WG2028251

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	7.36		0.314	1.00	10	03/26/2023 02:56	WG2029674
(S) a,a,a-Trifluorotoluene(FID)	*95.7*			*78.0-120*		*03/26/2023 02:56*	WG2029674

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	03/27/2023 07:32	WG2030391
Benzene	0.993		0.00471	0.0500	50	03/27/2023 07:32	WG2030391
Bromodichloromethane	U		0.00680	0.0500	50	03/27/2023 07:32	WG2030391
Bromoform	U		0.00645	0.0500	50	03/27/2023 07:32	WG2030391
Bromomethane	U		0.0303	0.250	50	03/27/2023 07:32	WG2030391
n-Butylbenzene	U		0.00785	0.0500	50	03/27/2023 07:32	WG2030391
sec-Butylbenzene	0.00995	J	0.00625	0.0500	50	03/27/2023 07:32	WG2030391
Carbon disulfide	0.0297	B J	0.00481	0.0500	50	03/27/2023 07:32	WG2030391
Carbon tetrachloride	U		0.00640	0.0500	50	03/27/2023 07:32	WG2030391

MW-01
Collected date/time: 03/21/23 09:25
L1597201

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	03/27/2023 07:32	WG2030391
Chlorodibromomethane	U		0.00700	0.0500	50	03/27/2023 07:32	WG2030391
Chloroethane	U		0.00960	0.250	50	03/27/2023 07:32	WG2030391
Chloroform	U		0.00555	0.250	50	03/27/2023 07:32	WG2030391
Chloromethane	U		0.0480	0.125	50	03/27/2023 07:32	WG2030391
1,2-Dibromoethane	U		0.00630	0.0500	50	03/27/2023 07:32	WG2030391
1,1-Dichloroethane	U		0.00500	0.0500	50	03/27/2023 07:32	WG2030391
1,2-Dichloroethane	U		0.00409	0.0500	50	03/27/2023 07:32	WG2030391
1,1-Dichloroethene	U		0.00940	0.0500	50	03/27/2023 07:32	WG2030391
cis-1,2-Dichloroethene	U		0.00630	0.0500	50	03/27/2023 07:32	WG2030391
trans-1,2-Dichloroethene	U		0.00745	0.0500	50	03/27/2023 07:32	WG2030391
1,2-Dichloropropane	U		0.00745	0.0500	50	03/27/2023 07:32	WG2030391
cis-1,3-Dichloropropene	U		0.00555	0.0500	50	03/27/2023 07:32	WG2030391
trans-1,3-Dichloropropene	U		0.00590	0.0500	50	03/27/2023 07:32	WG2030391
Ethylbenzene	0.0510		0.00685	0.0500	50	03/27/2023 07:32	WG2030391
Isopropylbenzene	0.0760		0.00525	0.0500	50	03/27/2023 07:32	WG2030391
p-Isopropyltoluene	U		0.00600	0.0500	50	03/27/2023 07:32	WG2030391
2-Butanone (MEK)	U		0.0595	0.500	50	03/27/2023 07:32	WG2030391
2-Hexanone	U		0.0394	0.500	50	03/27/2023 07:32	WG2030391
Methylene Chloride	U		0.0215	0.250	50	03/27/2023 07:32	WG2030391
4-Methyl-2-pentanone (MIBK)	U		0.0239	0.500	50	03/27/2023 07:32	WG2030391
Methyl tert-butyl ether	U		0.00505	0.0500	50	03/27/2023 07:32	WG2030391
Naphthalene	0.149	J	0.0500	0.250	50	03/27/2023 07:32	WG2030391
n-Propylbenzene	0.103		0.00497	0.0500	50	03/27/2023 07:32	WG2030391
Styrene	U		0.00590	0.0500	50	03/27/2023 07:32	WG2030391
tert-Butyl alcohol	U		0.203	0.250	50	03/27/2023 07:32	WG2030391
1,1,1,2-Tetrachloroethane	U		0.00735	0.0500	50	03/27/2023 07:32	WG2030391
1,1,2,2-Tetrachloroethane	U		0.00665	0.0500	50	03/27/2023 07:32	WG2030391
Tetrachloroethene	U		0.0150	0.0500	50	03/27/2023 07:32	WG2030391
Toluene	0.125		0.0139	0.0500	50	03/27/2023 07:32	WG2030391
1,1,1-Trichloroethane	U		0.00745	0.0500	50	03/27/2023 07:32	WG2030391
1,1,2-Trichloroethane	U		0.00790	0.0500	50	03/27/2023 07:32	WG2030391
Trichloroethene	U		0.00950	0.0500	50	03/27/2023 07:32	WG2030391
1,2,4-Trimethylbenzene	0.230		0.0161	0.0500	50	03/27/2023 07:32	WG2030391
1,3,5-Trimethylbenzene	0.0280	J	0.00520	0.0500	50	03/27/2023 07:32	WG2030391
Vinyl chloride	U		0.0117	0.0500	50	03/27/2023 07:32	WG2030391
o-Xylene	U		0.00870	0.0500	50	03/27/2023 07:32	WG2030391
m&p-Xylene	0.574		0.0215	0.100	50	03/27/2023 07:32	WG2030391
Xylenes, Total	0.574		0.00870	0.150	50	03/27/2023 07:32	WG2030391
(S) Toluene-d8	*104*			*80.0-120*		*03/27/2023 07:32*	WG2030391
(S) 4-Bromofluorobenzene	*99.2*			*77.0-126*		*03/27/2023 07:32*	WG2030391
(S) 1,2-Dichloroethane-d4	*124*			*70.0-130*		*03/27/2023 07:32*	WG2030391

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		0.0247	0.100	1	03/29/2023 04:07	WG2031031
(S) o-Terphenyl	*87.4*			*31.0-160*		*03/29/2023 04:07*	WG2031031

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	0.000446	J	0.0000886	0.00100	1	03/28/2023 15:23	WG2030230
Acenaphthylene	U		0.0000921	0.00100	1	03/28/2023 15:23	WG2030230
Acetophenone	U		0.000208	0.0100	1	03/28/2023 15:23	WG2030230
Anthracene	U		0.0000804	0.00100	1	03/28/2023 15:23	WG2030230
Atrazine	U		0.000255	0.0100	1	03/28/2023 15:23	WG2030230
Benzo(a)anthracene	U		0.000199	0.00100	1	03/28/2023 15:23	WG2030230
Benzaldehyde	U	J4	0.00169	0.0100	1	03/28/2023 15:23	WG2030230
Benzo(b)fluoranthene	U		0.000130	0.00100	1	03/28/2023 15:23	WG2030230
Benzo(k)fluoranthene	U		0.000120	0.00100	1	03/28/2023 15:23	WG2030230
Benzo(g,h,i)perylene	U		0.000121	0.00100	1	03/28/2023 15:23	WG2030230
Benzo(a)pyrene	U		0.0000381	0.000200	1	03/28/2023 15:23	WG2030230
Biphenyl	0.00243	J	0.000790	0.0100	1	03/28/2023 15:23	WG2030230
Bis(2-chlorethoxy)methane	U		0.000116	0.0100	1	03/28/2023 15:23	WG2030230
Bis(2-chloroethyl)ether	U		0.000137	0.0100	1	03/28/2023 15:23	WG2030230
2,2-Oxybis(1-Chloropropane)	U		0.000210	0.0100	1	03/28/2023 15:23	WG2030230
4-Bromophenyl-phenylether	U		0.0000877	0.0100	1	03/28/2023 15:23	WG2030230
2-Chloronaphthalene	U		0.0000648	0.00100	1	03/28/2023 15:23	WG2030230
4-Chlorophenyl-phenylether	U		0.0000926	0.0100	1	03/28/2023 15:23	WG2030230
Caprolactam	U		0.000309	0.0100	1	03/28/2023 15:23	WG2030230
Carbazole	0.00125	J	0.000111	0.0100	1	03/28/2023 15:23	WG2030230
Chrysene	U		0.000130	0.00100	1	03/28/2023 15:23	WG2030230
Dibenz(a,h)anthracene	U		0.0000644	0.000200	1	03/28/2023 15:23	WG2030230
Dibenzofuran	0.00207	J	0.0000970	0.0100	1	03/28/2023 15:23	WG2030230
3,3-Dichlorobenzidine	U		0.000212	0.0100	1	03/28/2023 15:23	WG2030230
2,4-Dinitrotoluene	U		0.0000983	0.0100	1	03/28/2023 15:23	WG2030230
2,6-Dinitrotoluene	U		0.000250	0.0100	1	03/28/2023 15:23	WG2030230
Fluoranthene	U		0.000102	0.00100	1	03/28/2023 15:23	WG2030230
Fluorene	0.00121		0.0000844	0.00100	1	03/28/2023 15:23	WG2030230
Hexachlorobenzene	U		0.0000755	0.00100	1	03/28/2023 15:23	WG2030230
Hexachloro-1,3-butadiene	U		0.0000968	0.0100	1	03/28/2023 15:23	WG2030230
Hexachlorocyclopentadiene	U		0.0000598	0.0100	1	03/28/2023 15:23	WG2030230
Hexachloroethane	U		0.000127	0.0100	1	03/28/2023 15:23	WG2030230
Indeno(1,2,3-cd)pyrene	U		0.000279	0.00100	1	03/28/2023 15:23	WG2030230
Isophorone	U		0.000143	0.0100	1	03/28/2023 15:23	WG2030230
1-Methylnaphthalene	0.0475		0.0000790	0.00100	1	03/28/2023 15:23	WG2030230
2-Methylnaphthalene	0.0174		0.000117	0.00100	1	03/28/2023 15:23	WG2030230
Naphthalene	0.0676		0.000159	0.00100	1	03/28/2023 15:23	WG2030230
Nitrobenzene	U		0.000297	0.0100	1	03/28/2023 15:23	WG2030230
n-Nitrosodiphenylamine	U		0.00237	0.0100	1	03/28/2023 15:23	WG2030230
n-Nitrosodi-n-propylamine	U		0.000261	0.0100	1	03/28/2023 15:23	WG2030230
Phenanthrene	0.000741	J	0.000112	0.00100	1	03/28/2023 15:23	WG2030230
Benzylbutyl phthalate	U		0.000765	0.00300	1	03/28/2023 15:23	WG2030230
Bis(2-ethylhexyl)phthalate	0.0317		0.000895	0.00300	1	03/28/2023 15:23	WG2030230
Di-n-butyl phthalate	U		0.000453	0.00300	1	03/28/2023 15:23	WG2030230
Diethyl phthalate	U		0.000287	0.00300	1	03/28/2023 15:23	WG2030230
Dimethyl phthalate	U		0.000260	0.00300	1	03/28/2023 15:23	WG2030230
Di-n-octyl phthalate	U		0.000932	0.00300	1	03/28/2023 15:23	WG2030230
Pyrene	U		0.000107	0.00100	1	03/28/2023 15:23	WG2030230
1,2,4-Trichlorobenzene	U		0.0000698	0.0100	1	03/28/2023 15:23	WG2030230
4-Chloro-3-methylphenol	U		0.000131	0.0100	1	03/28/2023 15:23	WG2030230
2-Chlorophenol	U		0.000133	0.0100	1	03/28/2023 15:23	WG2030230
2,4-Dichlorophenol	U		0.000102	0.0100	1	03/28/2023 15:23	WG2030230
2,4-Dimethylphenol	0.000799	J	0.0000636	0.0100	1	03/28/2023 15:23	WG2030230
4,6-Dinitro-2-methylphenol	U		0.00112	0.0100	1	03/28/2023 15:23	WG2030230
2,4-Dinitrophenol	U		0.00593	0.0100	1	03/28/2023 15:23	WG2030230
2-Nitrophenol	U		0.000117	0.0100	1	03/28/2023 15:23	WG2030230

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

MW-01
Collected date/time: 03/21/23 09:25
L1597201

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		0.000102	0.0100	1	03/28/2023 15:23	WG2030230
2-Methylphenol	U		0.0000929	0.0100	1	03/28/2023 15:23	WG2030230
3&4-Methyl Phenol	U		0.000168	0.0100	1	03/28/2023 15:23	WG2030230
3-Nitroaniline	U		0.0000869	0.0100	1	03/28/2023 15:23	WG2030230
4-Chloroaniline	U		0.000234	0.0100	1	03/28/2023 15:23	WG2030230
4-Nitroaniline	U		0.0000910	0.0100	1	03/28/2023 15:23	WG2030230
4-Nitrophenol	U		0.000143	0.0100	1	03/28/2023 15:23	WG2030230
Pentachlorophenol	U		0.000313	0.0100	1	03/28/2023 15:23	WG2030230
Phenol	U		0.00433	0.0100	1	03/28/2023 15:23	WG2030230
2,4,5-Trichlorophenol	U		0.000109	0.0100	1	03/28/2023 15:23	WG2030230
2,4,6-Trichlorophenol	U		0.000100	0.0100	1	03/28/2023 15:23	WG2030230
(S) 2-Fluorophenol	*19.9*			*10.0-120*		*03/28/2023 15:23*	WG2030230
(S) Phenol-d5	*13.6*			*10.0-120*		*03/28/2023 15:23*	WG2030230
(S) Nitrobenzene-d5	*40.5*			*10.0-127*		*03/28/2023 15:23*	WG2030230
(S) 2-Fluorobiphenyl	*43.6*			*10.0-130*		*03/28/2023 15:23*	WG2030230
(S) 2,4,6-Tribromophenol	*53.8*			*10.0-155*		*03/28/2023 15:23*	WG2030230
(S) p-Terphenyl-d14	*53.6*			*10.0-128*		*03/28/2023 15:23*	WG2030230

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1610		50.0	1	03/23/2023 22:45	WG2028928

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	338		3.79	10.0	10	03/23/2023 12:03	WG2028372
Fluoride	0.900		0.0640	0.150	1	03/23/2023 04:37	WG2028372
Nitrate	U		0.0480	0.100	1	03/23/2023 04:37	WG2028372
Nitrite	U		0.0420	0.100	1	03/23/2023 04:37	WG2028372
Sulfate	111		0.594	5.00	1	03/23/2023 04:37	WG2028372

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0470		0.000180	0.00200	1	03/27/2023 15:07	WG2028251
Arsenic,Dissolved	0.00231	B	0.000180	0.00200	1	03/23/2023 21:14	WG2028259
Barium	0.354		0.00190	0.0100	5	03/27/2023 15:17	WG2028251
Barium,Dissolved	0.0475		0.000381	0.00200	1	03/23/2023 21:14	WG2028259
Calcium	196		0.0936	1.00	1	03/27/2023 15:07	WG2028251
Chromium	U		0.00124	0.00200	1	03/27/2023 15:07	WG2028251
Chromium,Dissolved	U	J4	0.00124	0.00200	1	03/23/2023 21:14	WG2028259
Iron	U		0.0281	0.100	1	03/27/2023 15:07	WG2028251
Iron,Dissolved	U		0.0281	0.100	1	03/23/2023 21:14	WG2028259
Lead	U		0.000849	0.00200	1	03/27/2023 15:07	WG2028251
Lead,Dissolved	0.00244		0.000849	0.00200	1	03/23/2023 21:14	WG2028259
Manganese	0.00666		0.000704	0.00500	1	03/27/2023 15:07	WG2028251
Manganese,Dissolved	0.0302		0.000704	0.00500	1	03/23/2023 21:14	WG2028259
Potassium	0.758	J	0.108	2.00	1	03/27/2023 15:07	WG2028251
Selenium	0.000567	J	0.000300	0.00200	1	03/27/2023 15:07	WG2028251
Selenium,Dissolved	0.000302	J	0.000300	0.00200	1	03/23/2023 21:14	WG2028259
Sodium	229		0.376	2.00	1	03/27/2023 15:07	WG2028251

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	15.1		0.314	1.00	10	03/28/2023 10:59	WG2031178
(S) a,a,a-Trifluorotoluene(FID)	*94.3*			*78.0-120*		*03/28/2023 10:59*	WG2031178

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	03/27/2023 07:52	WG2030391
Benzene	6.02		0.00941	0.100	100	03/27/2023 07:52	WG2030391
Bromodichloromethane	U		0.0136	0.100	100	03/27/2023 07:52	WG2030391
Bromoform	U		0.0129	0.100	100	03/27/2023 07:52	WG2030391
Bromomethane	U		0.0605	0.500	100	03/27/2023 07:52	WG2030391
n-Butylbenzene	U		0.0157	0.100	100	03/27/2023 07:52	WG2030391
sec-Butylbenzene	U		0.0125	0.100	100	03/27/2023 07:52	WG2030391
Carbon disulfide	0.0515	B J	0.00962	0.100	100	03/27/2023 07:52	WG2030391
Carbon tetrachloride	U		0.0128	0.100	100	03/27/2023 07:52	WG2030391
Chlorobenzene	U		0.0116	0.100	100	03/27/2023 07:52	WG2030391
Chlorodibromomethane	U		0.0140	0.100	100	03/27/2023 07:52	WG2030391
Chloroethane	U		0.0192	0.500	100	03/27/2023 07:52	WG2030391

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloroform	U		0.0111	0.500	100	03/27/2023 07:52	WG2030391
Chloromethane	U		0.0960	0.250	100	03/27/2023 07:52	WG2030391
1,2-Dibromoethane	U		0.0126	0.100	100	03/27/2023 07:52	WG2030391
1,1-Dichloroethane	U		0.0100	0.100	100	03/27/2023 07:52	WG2030391
1,2-Dichloroethane	U		0.00819	0.100	100	03/27/2023 07:52	WG2030391
1,1-Dichloroethene	U		0.0188	0.100	100	03/27/2023 07:52	WG2030391
cis-1,2-Dichloroethene	U		0.0126	0.100	100	03/27/2023 07:52	WG2030391
trans-1,2-Dichloroethene	U		0.0149	0.100	100	03/27/2023 07:52	WG2030391
1,2-Dichloropropane	U		0.0149	0.100	100	03/27/2023 07:52	WG2030391
cis-1,3-Dichloropropene	U		0.0111	0.100	100	03/27/2023 07:52	WG2030391
trans-1,3-Dichloropropene	U		0.0118	0.100	100	03/27/2023 07:52	WG2030391
Ethylbenzene	U		0.0137	0.100	100	03/27/2023 07:52	WG2030391
Isopropylbenzene	0.121		0.0105	0.100	100	03/27/2023 07:52	WG2030391
p-Isopropyltoluene	U		0.0120	0.100	100	03/27/2023 07:52	WG2030391
2-Butanone (MEK)	U		0.119	1.00	100	03/27/2023 07:52	WG2030391
2-Hexanone	U		0.0787	1.00	100	03/27/2023 07:52	WG2030391
Methylene Chloride	U		0.0430	0.500	100	03/27/2023 07:52	WG2030391
4-Methyl-2-pentanone (MIBK)	U		0.0478	1.00	100	03/27/2023 07:52	WG2030391
Methyl tert-butyl ether	0.0517	J	0.0101	0.100	100	03/27/2023 07:52	WG2030391
Naphthalene	U		0.100	0.500	100	03/27/2023 07:52	WG2030391
n-Propylbenzene	0.229		0.00993	0.100	100	03/27/2023 07:52	WG2030391
Styrene	U		0.0118	0.100	100	03/27/2023 07:52	WG2030391
tert-Butyl alcohol	U		0.406	0.500	100	03/27/2023 07:52	WG2030391
1,1,1,2-Tetrachloroethane	U		0.0147	0.100	100	03/27/2023 07:52	WG2030391
1,1,2,2-Tetrachloroethane	U		0.0133	0.100	100	03/27/2023 07:52	WG2030391
Tetrachloroethene	U		0.0300	0.100	100	03/27/2023 07:52	WG2030391
Toluene	U		0.0278	0.100	100	03/27/2023 07:52	WG2030391
1,1,1-Trichloroethane	U		0.0149	0.100	100	03/27/2023 07:52	WG2030391
1,1,2-Trichloroethane	U		0.0158	0.100	100	03/27/2023 07:52	WG2030391
Trichloroethene	U		0.0190	0.100	100	03/27/2023 07:52	WG2030391
1,2,4-Trimethylbenzene	U		0.0322	0.100	100	03/27/2023 07:52	WG2030391
1,3,5-Trimethylbenzene	U		0.0104	0.100	100	03/27/2023 07:52	WG2030391
Vinyl chloride	U		0.0234	0.100	100	03/27/2023 07:52	WG2030391
o-Xylene	U		0.0174	0.100	100	03/27/2023 07:52	WG2030391
m&p-Xylene	U		0.0430	0.200	100	03/27/2023 07:52	WG2030391
Xylenes, Total	U		0.0174	0.300	100	03/27/2023 07:52	WG2030391
(S) Toluene-d8	*103*			*80.0-120*		*03/27/2023 07:52*	WG2030391
(S) 4-Bromofluorobenzene	*93.9*			*77.0-126*		*03/27/2023 07:52*	WG2030391
(S) 1,2-Dichloroethane-d4	*125*			*70.0-130*		*03/27/2023 07:52*	WG2030391

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	5.95		0.0247	0.100	1	03/29/2023 04:26	WG2031031
(S) o-Terphenyl	*92.6*			*31.0-160*		*03/29/2023 04:26*	WG2031031

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	1530		25.0	1	03/23/2023 22:45	WG2028928

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	03/26/2023 19:00	WG2028779

Sample Narrative:

L1597201-61 WG2028779: Dilution due to matrix.

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	204		3.79	10.0	10	03/23/2023 22:50	WG2028377
Fluoride	1.55		0.0640	0.150	1	03/23/2023 11:35	WG2028377
Nitrate	U		0.0480	0.100	1	03/23/2023 11:35	WG2028377
Nitrite	U		0.0420	0.100	1	03/23/2023 11:35	WG2028377
Sulfate	154	J6	0.594	5.00	1	03/23/2023 11:35	WG2028377

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	03/25/2023 10:41	WG2028364
Mercury,Dissolved	U		0.000100	0.000200	1	03/25/2023 11:28	WG2028366

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Boron	0.777		0.0200	0.200	1	03/23/2023 23:20	WG2028566
Boron,Dissolved	0.729		0.0200	0.200	1	03/24/2023 15:40	WG2028557

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00434		0.000180	0.00200	1	03/27/2023 15:10	WG2028251
Arsenic,Dissolved	0.00414		0.000180	0.00200	1	03/23/2023 21:18	WG2028259
Barium	0.0681		0.000381	0.00200	1	03/27/2023 15:10	WG2028251
Barium,Dissolved	0.0685		0.000381	0.00200	1	03/23/2023 21:18	WG2028259
Cadmium	U		0.000150	0.00100	1	03/27/2023 15:10	WG2028251
Cadmium,Dissolved	U		0.000150	0.00100	1	03/24/2023 12:17	WG2028259
Calcium	130		0.0936	1.00	1	03/27/2023 15:10	WG2028251
Chromium	U		0.00124	0.00200	1	03/27/2023 15:10	WG2028251
Chromium,Dissolved	U		0.00124	0.00200	1	03/24/2023 23:16	WG2029229
Cobalt	U		0.0000596	0.00200	1	03/27/2023 15:10	WG2028251
Cobalt,Dissolved	U		0.0000596	0.00200	1	03/23/2023 21:18	WG2028259
Iron	U		0.0281	0.100	1	03/27/2023 15:10	WG2028251
Iron,Dissolved	0.0367	B J	0.0281	0.100	1	03/23/2023 21:18	WG2028259
Lead	U		0.000849	0.00200	1	03/27/2023 15:10	WG2028251
Lead,Dissolved	U		0.000849	0.00200	1	03/23/2023 21:18	WG2028259
Manganese	0.145		0.000704	0.00500	1	03/27/2023 15:10	WG2028251
Manganese,Dissolved	0.145		0.000704	0.00500	1	03/23/2023 21:18	WG2028259
Nickel	0.00833		0.000816	0.00200	1	03/27/2023 15:10	WG2028251
Nickel,Dissolved	0.00948		0.000816	0.00200	1	03/23/2023 21:18	WG2028259

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Potassium	2.03		0.108	2.00	1	03/27/2023 15:10	WG2028251
Selenium	U		0.000300	0.00200	1	03/27/2023 15:10	WG2028251
Selenium,Dissolved	U		0.000300	0.00200	1	03/23/2023 21:18	WG2028259
Sodium	271		0.376	2.00	1	03/27/2023 15:10	WG2028251
Uranium	U		0.0000789	0.00100	1	03/27/2023 15:10	WG2028251
Uranium,Dissolved	U		0.0000789	0.00100	1	03/23/2023 21:18	WG2028259
Vanadium	U		0.000664	0.00500	1	03/27/2023 15:10	WG2028251
Vanadium,Dissolved	0.00124	B J	0.000664	0.00500	1	03/23/2023 21:18	WG2028259

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	4.68		0.157	0.500	5	03/26/2023 03:17	WG2029674
(S) a,a,a-Trifluorotoluene(FID)	*97.1*			*78.0-120*		*03/26/2023 03:17*	WG2029674

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	03/27/2023 08:12	WG2030391
Benzene	0.280		0.000941	0.0100	10	03/27/2023 08:12	WG2030391
Bromodichloromethane	U		0.00136	0.0100	10	03/27/2023 08:12	WG2030391
Bromoform	U		0.00129	0.0100	10	03/27/2023 08:12	WG2030391
Bromomethane	U		0.00605	0.0500	10	03/27/2023 08:12	WG2030391
n-Butylbenzene	0.00485	J	0.00157	0.0100	10	03/27/2023 08:12	WG2030391
sec-Butylbenzene	0.00696	J	0.00125	0.0100	10	03/27/2023 08:12	WG2030391
Carbon disulfide	0.00528	B J	0.000962	0.0100	10	03/27/2023 08:12	WG2030391
Carbon tetrachloride	U		0.00128	0.0100	10	03/27/2023 08:12	WG2030391
Chlorobenzene	U		0.00116	0.0100	10	03/27/2023 08:12	WG2030391
Chlorodibromomethane	U		0.00140	0.0100	10	03/27/2023 08:12	WG2030391
Chloroethane	U		0.00192	0.0500	10	03/27/2023 08:12	WG2030391
Chloroform	U		0.00111	0.0500	10	03/27/2023 08:12	WG2030391
Chloromethane	U		0.00960	0.0250	10	03/27/2023 08:12	WG2030391
1,2-Dibromoethane	U		0.00126	0.0100	10	03/27/2023 08:12	WG2030391
1,1-Dichloroethane	U		0.00100	0.0100	10	03/27/2023 08:12	WG2030391
1,2-Dichloroethane	U		0.000819	0.0100	10	03/27/2023 08:12	WG2030391
1,1-Dichloroethene	U		0.00188	0.0100	10	03/27/2023 08:12	WG2030391
cis-1,2-Dichloroethene	U		0.00126	0.0100	10	03/27/2023 08:12	WG2030391
trans-1,2-Dichloroethene	U		0.00149	0.0100	10	03/27/2023 08:12	WG2030391
1,2-Dichloropropane	U		0.00149	0.0100	10	03/27/2023 08:12	WG2030391
cis-1,3-Dichloropropene	U		0.00111	0.0100	10	03/27/2023 08:12	WG2030391
trans-1,3-Dichloropropene	U		0.00118	0.0100	10	03/27/2023 08:12	WG2030391
Ethylbenzene	0.00796	J	0.00137	0.0100	10	03/27/2023 08:12	WG2030391
Isopropylbenzene	0.0389		0.00105	0.0100	10	03/27/2023 08:12	WG2030391
p-Isopropyltoluene	U		0.00120	0.0100	10	03/27/2023 08:12	WG2030391
2-Butanone (MEK)	U		0.0119	0.100	10	03/27/2023 08:12	WG2030391
2-Hexanone	U		0.00787	0.100	10	03/27/2023 08:12	WG2030391
Methylene Chloride	U		0.00430	0.0500	10	03/27/2023 08:12	WG2030391
4-Methyl-2-pentanone (MIBK)	U		0.00478	0.100	10	03/27/2023 08:12	WG2030391
Methyl tert-butyl ether	0.145		0.00101	0.0100	10	03/27/2023 08:12	WG2030391
Naphthalene	U		0.0100	0.0500	10	03/27/2023 08:12	WG2030391
n-Propylbenzene	0.0489		0.000993	0.0100	10	03/27/2023 08:12	WG2030391
Styrene	U		0.00118	0.0100	10	03/27/2023 08:12	WG2030391
tert-Butyl alcohol	U		0.0406	0.0500	10	03/27/2023 08:12	WG2030391
1,1,1,2-Tetrachloroethane	U		0.00147	0.0100	10	03/27/2023 08:12	WG2030391
1,1,2,2-Tetrachloroethane	U		0.00133	0.0100	10	03/27/2023 08:12	WG2030391

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Tetrachloroethene	U		0.00300	0.0100	10	03/27/2023 08:12	WG2030391
Toluene	0.00354	J	0.00278	0.0100	10	03/27/2023 08:12	WG2030391
1,1,1-Trichloroethane	U		0.00149	0.0100	10	03/27/2023 08:12	WG2030391
1,1,2-Trichloroethane	U		0.00158	0.0100	10	03/27/2023 08:12	WG2030391
Trichloroethene	U		0.00190	0.0100	10	03/27/2023 08:12	WG2030391
1,2,4-Trimethylbenzene	0.0804		0.00322	0.0100	10	03/27/2023 08:12	WG2030391
1,3,5-Trimethylbenzene	0.0107		0.00104	0.0100	10	03/27/2023 08:12	WG2030391
Vinyl chloride	U		0.00234	0.0100	10	03/27/2023 08:12	WG2030391
o-Xylene	U		0.00174	0.0100	10	03/27/2023 08:12	WG2030391
m&p-Xylene	0.101		0.00430	0.0200	10	03/27/2023 08:12	WG2030391
Xylenes, Total	0.101		0.00174	0.0300	10	03/27/2023 08:12	WG2030391
(S) Toluene-d8	*102*			*80.0-120*		*03/27/2023 08:12*	WG2030391
(S) 4-Bromofluorobenzene	*93.4*			*77.0-126*		*03/27/2023 08:12*	WG2030391
(S) 1,2-Dichloroethane-d4	*125*			*70.0-130*		*03/27/2023 08:12*	WG2030391

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	4.60		0.0247	0.100	1	03/29/2023 04:47	WG2031031
(S) o-Terphenyl	*93.7*			*31.0-160*		*03/29/2023 04:47*	WG2031031

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
Acetone	U		0.0113	0.0500	1	03/27/2023 01:11	WG2030391
Benzene	U		0.0000941	0.00100	1	03/27/2023 01:11	WG2030391
Bromodichloromethane	U		0.000136	0.00100	1	03/27/2023 01:11	WG2030391
Bromoform	U		0.000129	0.00100	1	03/27/2023 01:11	WG2030391
Bromomethane	U		0.000605	0.00500	1	03/27/2023 01:11	WG2030391
n-Butylbenzene	U		0.000157	0.00100	1	03/27/2023 01:11	WG2030391
sec-Butylbenzene	U		0.000125	0.00100	1	03/27/2023 01:11	WG2030391
Carbon disulfide	U		0.0000962	0.00100	1	03/27/2023 01:11	WG2030391
Carbon tetrachloride	U		0.000128	0.00100	1	03/27/2023 01:11	WG2030391
Chlorobenzene	U		0.000116	0.00100	1	03/27/2023 01:11	WG2030391
Chlorodibromomethane	U		0.000140	0.00100	1	03/27/2023 01:11	WG2030391
Chloroethane	U		0.000192	0.00500	1	03/27/2023 01:11	WG2030391
Chloroform	U		0.000111	0.00500	1	03/27/2023 01:11	WG2030391
Chloromethane	U		0.000960	0.00250	1	03/27/2023 01:11	WG2030391
1,2-Dibromoethane	U		0.000126	0.00100	1	03/27/2023 01:11	WG2030391
1,1-Dichloroethane	U		0.000100	0.00100	1	03/27/2023 01:11	WG2030391
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/27/2023 01:11	WG2030391
1,1-Dichloroethene	U		0.000188	0.00100	1	03/27/2023 01:11	WG2030391
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/27/2023 01:11	WG2030391
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/27/2023 01:11	WG2030391
1,2-Dichloropropane	U		0.000149	0.00100	1	03/27/2023 01:11	WG2030391
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/27/2023 01:11	WG2030391
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/27/2023 01:11	WG2030391
Ethylbenzene	U		0.000137	0.00100	1	03/27/2023 01:11	WG2030391
Isopropylbenzene	U		0.000105	0.00100	1	03/27/2023 01:11	WG2030391
p-Isopropyltoluene	U		0.000120	0.00100	1	03/27/2023 01:11	WG2030391
2-Butanone (MEK)	U		0.00119	0.0100	1	03/27/2023 01:11	WG2030391
2-Hexanone	U		0.000787	0.0100	1	03/27/2023 01:11	WG2030391
Methylene Chloride	U		0.000430	0.00500	1	03/27/2023 01:11	WG2030391
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/27/2023 01:11	WG2030391
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/27/2023 01:11	WG2030391
Naphthalene	U		0.00100	0.00500	1	03/27/2023 01:11	WG2030391
n-Propylbenzene	U		0.0000993	0.00100	1	03/27/2023 01:11	WG2030391
Styrene	U		0.000118	0.00100	1	03/27/2023 01:11	WG2030391
tert-Butyl alcohol	U		0.00406	0.00500	1	03/27/2023 01:11	WG2030391
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/27/2023 01:11	WG2030391
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/27/2023 01:11	WG2030391
Tetrachloroethene	U		0.000300	0.00100	1	03/27/2023 01:11	WG2030391
Toluene	U		0.000278	0.00100	1	03/27/2023 01:11	WG2030391
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/27/2023 01:11	WG2030391
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/27/2023 01:11	WG2030391
Trichloroethene	U		0.000190	0.00100	1	03/27/2023 01:11	WG2030391
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/27/2023 01:11	WG2030391
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/27/2023 01:11	WG2030391
Vinyl chloride	U		0.000234	0.00100	1	03/27/2023 01:11	WG2030391
o-Xylene	U		0.000174	0.00100	1	03/27/2023 01:11	WG2030391
m&p-Xylene	U		0.000430	0.00200	1	03/27/2023 01:11	WG2030391
Xylenes, Total	U		0.000174	0.00300	1	03/27/2023 01:11	WG2030391
(S) Toluene-d8	*99.6*			*80.0-120*		*03/27/2023 01:11*	WG2030391
(S) 4-Bromofluorobenzene	*97.8*			*77.0-126*		*03/27/2023 01:11*	WG2030391
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*03/27/2023 01:11*	WG2030391

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	5820		200	1	03/23/2023 22:45	WG2028928

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	2590		37.9	100	100	03/23/2023 05:05	WG2028309
Fluoride	3.87		0.640	1.50	10	03/22/2023 22:56	WG2028309
Nitrate	U		0.480	1.00	10	03/22/2023 22:56	WG2028309
Nitrite	U		0.420	1.00	10	03/22/2023 22:56	WG2028309
Sulfate	114		5.94	50.0	10	03/22/2023 22:56	WG2028309

Sample Narrative:

L1597201-63 WG2028309: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00216		0.000180	0.00200	1	03/24/2023 15:42	WG2028573
Arsenic,Dissolved	0.00204	B	0.000180	0.00200	1	03/23/2023 21:21	WG2028259
Barium	0.420		0.000381	0.00200	1	03/24/2023 15:42	WG2028573
Barium,Dissolved	0.440		0.000381	0.00200	1	03/24/2023 12:21	WG2028259
Calcium	65.4		0.0936	1.00	1	03/24/2023 15:42	WG2028573
Chromium	U		0.00124	0.00200	1	03/24/2023 15:42	WG2028573
Chromium,Dissolved	U	J4	0.00124	0.00200	1	03/23/2023 21:21	WG2028259
Iron	0.0407	J	0.0281	0.100	1	03/24/2023 15:42	WG2028573
Iron,Dissolved	U		0.0281	0.100	1	03/23/2023 21:21	WG2028259
Lead	0.00106	J	0.000849	0.00200	1	03/24/2023 15:42	WG2028573
Lead,Dissolved	U		0.000849	0.00200	1	03/23/2023 21:21	WG2028259
Manganese	0.00181	J	0.000704	0.00500	1	03/24/2023 15:42	WG2028573
Manganese,Dissolved	0.00158	J	0.000704	0.00500	1	03/23/2023 21:21	WG2028259
Potassium	0.809	J	0.108	2.00	1	03/24/2023 15:42	WG2028573
Selenium	0.000384	J	0.000300	0.00200	1	03/24/2023 15:42	WG2028573
Selenium,Dissolved	U		0.000300	0.00200	1	03/24/2023 12:21	WG2028259
Sodium	2150		1.88	10.0	5	03/24/2023 17:53	WG2028573

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	5.56		0.157	0.500	5	03/26/2023 03:40	WG2029674
(S) a,a,a-Trifluorotoluene(FID)	*96.3*			*78.0-120*		*03/26/2023 03:40*	WG2029674

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	03/27/2023 08:32	WG2030391
Benzene	0.995		0.000941	0.0100	10	03/27/2023 08:32	WG2030391
Bromodichloromethane	U		0.00136	0.0100	10	03/27/2023 08:32	WG2030391
Bromoform	U		0.00129	0.0100	10	03/27/2023 08:32	WG2030391
Bromomethane	U		0.00605	0.0500	10	03/27/2023 08:32	WG2030391
n-Butylbenzene	U		0.00157	0.0100	10	03/27/2023 08:32	WG2030391
sec-Butylbenzene	0.00394	J	0.00125	0.0100	10	03/27/2023 08:32	WG2030391
Carbon disulfide	0.00371	B J	0.000962	0.0100	10	03/27/2023 08:32	WG2030391
Carbon tetrachloride	U		0.00128	0.0100	10	03/27/2023 08:32	WG2030391

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	03/27/2023 08:32	WG2030391
Chlorodibromomethane	U		0.00140	0.0100	10	03/27/2023 08:32	WG2030391
Chloroethane	U		0.00192	0.0500	10	03/27/2023 08:32	WG2030391
Chloroform	U		0.00111	0.0500	10	03/27/2023 08:32	WG2030391
Chloromethane	U		0.00960	0.0250	10	03/27/2023 08:32	WG2030391
1,2-Dibromoethane	U		0.00126	0.0100	10	03/27/2023 08:32	WG2030391
1,1-Dichloroethane	U		0.00100	0.0100	10	03/27/2023 08:32	WG2030391
1,2-Dichloroethane	U		0.000819	0.0100	10	03/27/2023 08:32	WG2030391
1,1-Dichloroethene	U		0.00188	0.0100	10	03/27/2023 08:32	WG2030391
cis-1,2-Dichloroethene	U		0.00126	0.0100	10	03/27/2023 08:32	WG2030391
trans-1,2-Dichloroethene	U		0.00149	0.0100	10	03/27/2023 08:32	WG2030391
1,2-Dichloropropane	U		0.00149	0.0100	10	03/27/2023 08:32	WG2030391
cis-1,3-Dichloropropene	U		0.00111	0.0100	10	03/27/2023 08:32	WG2030391
trans-1,3-Dichloropropene	U		0.00118	0.0100	10	03/27/2023 08:32	WG2030391
Ethylbenzene	0.00145	J	0.00137	0.0100	10	03/27/2023 08:32	WG2030391
Isopropylbenzene	0.0242		0.00105	0.0100	10	03/27/2023 08:32	WG2030391
p-Isopropyltoluene	U		0.00120	0.0100	10	03/27/2023 08:32	WG2030391
2-Butanone (MEK)	U		0.0119	0.100	10	03/27/2023 08:32	WG2030391
2-Hexanone	U		0.00787	0.100	10	03/27/2023 08:32	WG2030391
Methylene Chloride	U		0.00430	0.0500	10	03/27/2023 08:32	WG2030391
4-Methyl-2-pentanone (MIBK)	U		0.00478	0.100	10	03/27/2023 08:32	WG2030391
Methyl tert-butyl ether	U		0.00101	0.0100	10	03/27/2023 08:32	WG2030391
Naphthalene	U		0.0100	0.0500	10	03/27/2023 08:32	WG2030391
n-Propylbenzene	0.0301		0.000993	0.0100	10	03/27/2023 08:32	WG2030391
Styrene	U		0.00118	0.0100	10	03/27/2023 08:32	WG2030391
tert-Butyl alcohol	0.0974		0.0406	0.0500	10	03/27/2023 08:32	WG2030391
1,1,1,2-Tetrachloroethane	U		0.00147	0.0100	10	03/27/2023 08:32	WG2030391
1,1,2,2-Tetrachloroethane	U		0.00133	0.0100	10	03/27/2023 08:32	WG2030391
Tetrachloroethene	U		0.00300	0.0100	10	03/27/2023 08:32	WG2030391
Toluene	0.00654	J	0.00278	0.0100	10	03/27/2023 08:32	WG2030391
1,1,1-Trichloroethane	U		0.00149	0.0100	10	03/27/2023 08:32	WG2030391
1,1,2-Trichloroethane	U		0.00158	0.0100	10	03/27/2023 08:32	WG2030391
Trichloroethene	U		0.00190	0.0100	10	03/27/2023 08:32	WG2030391
1,2,4-Trimethylbenzene	U		0.00322	0.0100	10	03/27/2023 08:32	WG2030391
1,3,5-Trimethylbenzene	U		0.00104	0.0100	10	03/27/2023 08:32	WG2030391
Vinyl chloride	U		0.00234	0.0100	10	03/27/2023 08:32	WG2030391
o-Xylene	U		0.00174	0.0100	10	03/27/2023 08:32	WG2030391
m&p-Xylene	0.00441	J	0.00430	0.0200	10	03/27/2023 08:32	WG2030391
Xylenes, Total	0.00441	J	0.00174	0.0300	10	03/27/2023 08:32	WG2030391
(S) Toluene-d8	*102*			*80.0-120*		*03/27/2023 08:32*	WG2030391
(S) 4-Bromofluorobenzene	*95.5*			*77.0-126*		*03/27/2023 08:32*	WG2030391
(S) 1,2-Dichloroethane-d4	*122*			*70.0-130*		*03/27/2023 08:32*	WG2030391

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	4.00		0.0247	0.100	1	03/29/2023 05:10	WG2031031
(S) o-Terphenyl	*103*			*31.0-160*		*03/29/2023 05:10*	WG2031031

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1200	J3	20.0	1	03/23/2023 22:45	WG2028928

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	39.9		0.379	1.00	1	03/23/2023 04:53	WG2028372
Fluoride	1.91		0.0640	0.150	1	03/23/2023 04:53	WG2028372
Nitrate	0.402		0.0480	0.100	1	03/23/2023 04:53	WG2028372
Nitrite	U		0.0420	0.100	1	03/23/2023 04:53	WG2028372
Sulfate	471		5.94	50.0	10	03/23/2023 12:35	WG2028372

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00207		0.000180	0.00200	1	03/24/2023 17:07	WG2028573
Arsenic,Dissolved	0.00204	B	0.000180	0.00200	1	03/23/2023 21:24	WG2028259
Barium	0.0232		0.000381	0.00200	1	03/24/2023 17:07	WG2028573
Barium,Dissolved	0.0237		0.000381	0.00200	1	03/23/2023 21:24	WG2028259
Calcium	179		0.0936	1.00	1	03/24/2023 17:07	WG2028573
Chromium	U		0.00124	0.00200	1	03/24/2023 17:07	WG2028573
Chromium,Dissolved	U	J4	0.00124	0.00200	1	03/23/2023 21:24	WG2028259
Iron	U		0.0281	0.100	1	03/24/2023 17:07	WG2028573
Iron,Dissolved	U		0.0281	0.100	1	03/23/2023 21:24	WG2028259
Lead	U		0.000849	0.00200	1	03/24/2023 17:07	WG2028573
Lead,Dissolved	U		0.000849	0.00200	1	03/23/2023 21:24	WG2028259
Manganese	0.0128		0.000704	0.00500	1	03/24/2023 17:07	WG2028573
Manganese,Dissolved	0.0127		0.000704	0.00500	1	03/23/2023 21:24	WG2028259
Potassium	4.70		0.108	2.00	1	03/24/2023 17:07	WG2028573
Selenium	U		0.000300	0.00200	1	03/24/2023 17:07	WG2028573
Selenium,Dissolved	U		0.000300	0.00200	1	03/23/2023 21:24	WG2028259
Sodium	56.4		0.376	2.00	1	03/24/2023 17:07	WG2028573

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	0.740		0.0314	0.100	1	03/28/2023 10:37	WG2031178
(S) a,a,a-Trifluorotoluene(FID)	*94.8*			*78.0-120*		*03/28/2023 10:37*	WG2031178

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	03/27/2023 05:52	WG2030391
Benzene	0.00954		0.0000941	0.00100	1	03/27/2023 05:52	WG2030391
Bromodichloromethane	U		0.000136	0.00100	1	03/27/2023 05:52	WG2030391
Bromoform	U		0.000129	0.00100	1	03/27/2023 05:52	WG2030391
Bromomethane	U		0.000605	0.00500	1	03/27/2023 05:52	WG2030391
n-Butylbenzene	0.000261	J	0.000157	0.00100	1	03/27/2023 05:52	WG2030391
sec-Butylbenzene	0.0384		0.000125	0.00100	1	03/27/2023 05:52	WG2030391
Carbon disulfide	0.00204		0.0000962	0.00100	1	03/27/2023 05:52	WG2030391
Carbon tetrachloride	U		0.000128	0.00100	1	03/27/2023 05:52	WG2030391
Chlorobenzene	U		0.000116	0.00100	1	03/27/2023 05:52	WG2030391
Chlorodibromomethane	U		0.000140	0.00100	1	03/27/2023 05:52	WG2030391
Chloroethane	U		0.000192	0.00500	1	03/27/2023 05:52	WG2030391

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloroform	U		0.000111	0.00500	1	03/27/2023 05:52	WG2030391
Chloromethane	U		0.000960	0.00250	1	03/27/2023 05:52	WG2030391
1,2-Dibromoethane	U		0.000126	0.00100	1	03/27/2023 05:52	WG2030391
1,1-Dichloroethane	U		0.000100	0.00100	1	03/27/2023 05:52	WG2030391
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/27/2023 05:52	WG2030391
1,1-Dichloroethene	U		0.000188	0.00100	1	03/27/2023 05:52	WG2030391
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/27/2023 05:52	WG2030391
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/27/2023 05:52	WG2030391
1,2-Dichloropropane	U		0.000149	0.00100	1	03/27/2023 05:52	WG2030391
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/27/2023 05:52	WG2030391
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/27/2023 05:52	WG2030391
Ethylbenzene	U		0.000137	0.00100	1	03/27/2023 05:52	WG2030391
Isopropylbenzene	0.0231		0.000105	0.00100	1	03/27/2023 05:52	WG2030391
p-Isopropyltoluene	U		0.000120	0.00100	1	03/27/2023 05:52	WG2030391
2-Butanone (MEK)	U		0.00119	0.0100	1	03/27/2023 05:52	WG2030391
2-Hexanone	U		0.000787	0.0100	1	03/27/2023 05:52	WG2030391
Methylene Chloride	U		0.000430	0.00500	1	03/27/2023 05:52	WG2030391
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/27/2023 05:52	WG2030391
Methyl tert-butyl ether	0.000679	J	0.000101	0.00100	1	03/27/2023 05:52	WG2030391
Naphthalene	U		0.00100	0.00500	1	03/27/2023 05:52	WG2030391
n-Propylbenzene	0.00228		0.0000993	0.00100	1	03/27/2023 05:52	WG2030391
Styrene	U		0.000118	0.00100	1	03/27/2023 05:52	WG2030391
tert-Butyl alcohol	0.00411	J	0.00406	0.00500	1	03/27/2023 05:52	WG2030391
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/27/2023 05:52	WG2030391
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/27/2023 05:52	WG2030391
Tetrachloroethene	U		0.000300	0.00100	1	03/27/2023 05:52	WG2030391
Toluene	U		0.000278	0.00100	1	03/27/2023 05:52	WG2030391
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/27/2023 05:52	WG2030391
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/27/2023 05:52	WG2030391
Trichloroethene	U		0.000190	0.00100	1	03/27/2023 05:52	WG2030391
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/27/2023 05:52	WG2030391
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/27/2023 05:52	WG2030391
Vinyl chloride	U		0.000234	0.00100	1	03/27/2023 05:52	WG2030391
o-Xylene	U		0.000174	0.00100	1	03/27/2023 05:52	WG2030391
m&p-Xylene	U		0.000430	0.00200	1	03/27/2023 05:52	WG2030391
Xylenes, Total	U		0.000174	0.00300	1	03/27/2023 05:52	WG2030391
(S) Toluene-d8	*88.1*			*80.0-120*		*03/27/2023 05:52*	WG2030391
(S) 4-Bromofluorobenzene	*82.9*			*77.0-126*		*03/27/2023 05:52*	WG2030391
(S) 1,2-Dichloroethane-d4	*117*			*70.0-130*		*03/27/2023 05:52*	WG2030391

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	0.855		0.0247	0.100	1	03/29/2023 15:34	WG2031031
(S) o-Terphenyl	*100*			*31.0-160*		*03/29/2023 15:34*	WG2031031

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1390		50.0	1	03/23/2023 22:45	WG2028928

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	309		3.79	10.0	10	03/23/2023 13:23	WG2028372
Fluoride	1.05		0.0640	0.150	1	03/23/2023 05:41	WG2028372
Nitrate	U		0.0480	0.100	1	03/23/2023 05:41	WG2028372
Nitrite	U		0.0420	0.100	1	03/23/2023 05:41	WG2028372
Sulfate	3.45	J	0.594	5.00	1	03/23/2023 05:41	WG2028372

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0265		0.000180	0.00200	1	03/24/2023 17:10	WG2028573
Arsenic,Dissolved	0.0249		0.000180	0.00200	1	03/23/2023 21:28	WG2028259
Barium	2.13		0.000381	0.00200	1	03/24/2023 17:10	WG2028573
Barium,Dissolved	2.37		0.000381	0.00200	1	03/23/2023 21:28	WG2028259
Calcium	88.2		0.0936	1.00	1	03/24/2023 17:10	WG2028573
Chromium	U		0.00124	0.00200	1	03/24/2023 17:10	WG2028573
Chromium,Dissolved	U	J4	0.00124	0.00200	1	03/23/2023 21:28	WG2028259
Iron	0.0411	J	0.0281	0.100	1	03/24/2023 17:10	WG2028573
Iron,Dissolved	U		0.0281	0.100	1	03/23/2023 21:28	WG2028259
Lead	U		0.000849	0.00200	1	03/24/2023 17:10	WG2028573
Lead,Dissolved	U		0.000849	0.00200	1	03/23/2023 21:28	WG2028259
Manganese	0.0588		0.000704	0.00500	1	03/24/2023 17:10	WG2028573
Manganese,Dissolved	0.0573		0.000704	0.00500	1	03/23/2023 21:28	WG2028259
Potassium	0.588	J	0.108	2.00	1	03/24/2023 17:10	WG2028573
Selenium	0.000706	J	0.000300	0.00200	1	03/24/2023 17:10	WG2028573
Selenium,Dissolved	0.000436	J	0.000300	0.00200	1	03/23/2023 21:28	WG2028259
Sodium	350		0.376	2.00	1	03/24/2023 17:10	WG2028573

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	139		0.785	2.50	25	03/26/2023 05:13	WG2030121
(S) a,a,a-Trifluorotoluene(FID)	*97.6*			*78.0-120*		*03/26/2023 05:13*	WG2030121

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	03/27/2023 08:52	WG2030391
Benzene	22.7		0.0471	0.500	500	03/27/2023 08:52	WG2030391
Bromodichloromethane	U		0.0680	0.500	500	03/27/2023 08:52	WG2030391
Bromoform	U		0.0645	0.500	500	03/27/2023 08:52	WG2030391
Bromomethane	U		0.303	2.50	500	03/27/2023 08:52	WG2030391
n-Butylbenzene	U		0.0785	0.500	500	03/27/2023 08:52	WG2030391
sec-Butylbenzene	U		0.0625	0.500	500	03/27/2023 08:52	WG2030391
Carbon disulfide	0.257	B J	0.0481	0.500	500	03/27/2023 08:52	WG2030391
Carbon tetrachloride	U		0.0640	0.500	500	03/27/2023 08:52	WG2030391
Chlorobenzene	U		0.0580	0.500	500	03/27/2023 08:52	WG2030391
Chlorodibromomethane	U		0.0700	0.500	500	03/27/2023 08:52	WG2030391
Chloroethane	U		0.0960	2.50	500	03/27/2023 08:52	WG2030391

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloroform	U		0.0555	2.50	500	03/27/2023 08:52	WG2030391
Chloromethane	U		0.480	1.25	500	03/27/2023 08:52	WG2030391
1,2-Dibromoethane	U		0.0630	0.500	500	03/27/2023 08:52	WG2030391
1,1-Dichloroethane	U		0.0500	0.500	500	03/27/2023 08:52	WG2030391
1,2-Dichloroethane	U		0.0409	0.500	500	03/27/2023 08:52	WG2030391
1,1-Dichloroethene	U		0.0940	0.500	500	03/27/2023 08:52	WG2030391
cis-1,2-Dichloroethene	U		0.0630	0.500	500	03/27/2023 08:52	WG2030391
trans-1,2-Dichloroethene	U		0.0745	0.500	500	03/27/2023 08:52	WG2030391
1,2-Dichloropropane	U		0.0745	0.500	500	03/27/2023 08:52	WG2030391
cis-1,3-Dichloropropene	U		0.0555	0.500	500	03/27/2023 08:52	WG2030391
trans-1,3-Dichloropropene	U		0.0590	0.500	500	03/27/2023 08:52	WG2030391
Ethylbenzene	1.90		0.0685	0.500	500	03/27/2023 08:52	WG2030391
Isopropylbenzene	U		0.0525	0.500	500	03/27/2023 08:52	WG2030391
p-Isopropyltoluene	U		0.0600	0.500	500	03/27/2023 08:52	WG2030391
2-Butanone (MEK)	U		0.595	5.00	500	03/27/2023 08:52	WG2030391
2-Hexanone	U		0.394	5.00	500	03/27/2023 08:52	WG2030391
Methylene Chloride	U		0.215	2.50	500	03/27/2023 08:52	WG2030391
4-Methyl-2-pentanone (MIBK)	U		0.239	5.00	500	03/27/2023 08:52	WG2030391
Methyl tert-butyl ether	0.430	J	0.0505	0.500	500	03/27/2023 08:52	WG2030391
Naphthalene	U		0.500	2.50	500	03/27/2023 08:52	WG2030391
n-Propylbenzene	U		0.0497	0.500	500	03/27/2023 08:52	WG2030391
Styrene	U		0.0590	0.500	500	03/27/2023 08:52	WG2030391
tert-Butyl alcohol	2.28	J	2.03	2.50	500	03/27/2023 08:52	WG2030391
1,1,1,2-Tetrachloroethane	U		0.0735	0.500	500	03/27/2023 08:52	WG2030391
1,1,2,2-Tetrachloroethane	U		0.0665	0.500	500	03/27/2023 08:52	WG2030391
Tetrachloroethene	U		0.150	0.500	500	03/27/2023 08:52	WG2030391
Toluene	13.4		0.139	0.500	500	03/27/2023 08:52	WG2030391
1,1,1-Trichloroethane	U		0.0745	0.500	500	03/27/2023 08:52	WG2030391
1,1,2-Trichloroethane	U		0.0790	0.500	500	03/27/2023 08:52	WG2030391
Trichloroethene	U		0.0950	0.500	500	03/27/2023 08:52	WG2030391
1,2,4-Trimethylbenzene	0.596		0.161	0.500	500	03/27/2023 08:52	WG2030391
1,3,5-Trimethylbenzene	0.142	J	0.0520	0.500	500	03/27/2023 08:52	WG2030391
Vinyl chloride	U		0.117	0.500	500	03/27/2023 08:52	WG2030391
o-Xylene	1.52		0.0870	0.500	500	03/27/2023 08:52	WG2030391
m&p-Xylene	3.87		0.215	1.00	500	03/27/2023 08:52	WG2030391
Xylenes, Total	5.39		0.0870	1.50	500	03/27/2023 08:52	WG2030391
(S) Toluene-d8	*102*			*80.0-120*		*03/27/2023 08:52*	WG2030391
(S) 4-Bromofluorobenzene	*95.3*			*77.0-126*		*03/27/2023 08:52*	WG2030391
(S) 1,2-Dichloroethane-d4	*125*			*70.0-130*		*03/27/2023 08:52*	WG2030391

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	5.90		0.0247	0.100	1	03/29/2023 05:55	WG2031031
(S) o-Terphenyl	*91.6*			*31.0-160*		*03/29/2023 05:55*	WG2031031

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	1480		25.0	1	03/24/2023 10:51	WG2029304

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	272		3.79	10.0	10	03/23/2023 05:58	WG2028210
Fluoride	1.46		0.0640	0.150	1	03/23/2023 01:28	WG2028210
Nitrate	0.0496	J	0.0480	0.100	1	03/23/2023 01:28	WG2028210
Nitrite	U		0.0420	0.100	1	03/23/2023 01:28	WG2028210
Sulfate	47.8		0.594	5.00	1	03/23/2023 01:28	WG2028210

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0511		0.000180	0.00200	1	03/24/2023 17:13	WG2028573
Arsenic,Dissolved	0.0475		0.000180	0.00200	1	03/23/2023 15:45	WG2028260
Barium	1.37		0.000381	0.00200	1	03/24/2023 17:13	WG2028573
Barium,Dissolved	1.43		0.000381	0.00200	1	03/23/2023 15:45	WG2028260
Calcium	158		0.0936	1.00	1	03/24/2023 17:13	WG2028573
Chromium	U		0.00124	0.00200	1	03/24/2023 17:13	WG2028573
Chromium,Dissolved	U		0.00124	0.00200	1	03/23/2023 15:45	WG2028260
Iron	0.510		0.0281	0.100	1	03/24/2023 17:13	WG2028573
Iron,Dissolved	0.0486	J	0.0281	0.100	1	03/23/2023 15:45	WG2028260
Lead	0.00224		0.000849	0.00200	1	03/24/2023 17:13	WG2028573
Lead,Dissolved	U		0.000849	0.00200	1	03/23/2023 15:45	WG2028260
Manganese	0.549		0.000704	0.00500	1	03/24/2023 17:13	WG2028573
Manganese,Dissolved	0.522		0.000704	0.00500	1	03/23/2023 15:45	WG2028260
Potassium	0.670	J	0.108	2.00	1	03/24/2023 17:13	WG2028573
Selenium	0.000945	J	0.000300	0.00200	1	03/24/2023 17:13	WG2028573
Selenium,Dissolved	0.000726	J	0.000300	0.00200	1	03/23/2023 15:45	WG2028260
Sodium	255		0.376	2.00	1	03/24/2023 17:13	WG2028573

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	3.90		0.0314	0.100	1	03/26/2023 01:56	WG2030121
(S) a,a,a-Trifluorotoluene(FID)	*98.9*			*78.0-120*		*03/26/2023 01:56*	WG2030121

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	03/27/2023 13:22	WG2030392
Benzene	0.462		0.00235	0.0250	25	03/29/2023 02:20	WG2031544
Bromodichloromethane	U		0.000136	0.00100	1	03/27/2023 13:22	WG2030392
Bromoform	U	J3	0.000129	0.00100	1	03/27/2023 13:22	WG2030392
Bromomethane	U	J3	0.000605	0.00500	1	03/27/2023 13:22	WG2030392
n-Butylbenzene	0.00906		0.000157	0.00100	1	03/27/2023 13:22	WG2030392
sec-Butylbenzene	0.0106		0.000125	0.00100	1	03/27/2023 13:22	WG2030392
Carbon disulfide	0.00144		0.0000962	0.00100	1	03/27/2023 13:22	WG2030392
Carbon tetrachloride	U		0.000128	0.00100	1	03/27/2023 13:22	WG2030392
Chlorobenzene	U		0.000116	0.00100	1	03/27/2023 13:22	WG2030392
Chlorodibromomethane	U		0.000140	0.00100	1	03/27/2023 13:22	WG2030392
Chloroethane	U		0.000192	0.00500	1	03/27/2023 13:22	WG2030392

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloroform	U		0.000111	0.00500	1	03/27/2023 13:22	WG2030392
Chloromethane	U	J3	0.000960	0.00250	1	03/27/2023 13:22	WG2030392
1,2-Dibromoethane	U	J3	0.000126	0.00100	1	03/27/2023 13:22	WG2030392
1,1-Dichloroethane	U		0.000100	0.00100	1	03/27/2023 13:22	WG2030392
1,2-Dichloroethane	U	J3	0.0000819	0.00100	1	03/27/2023 13:22	WG2030392
1,1-Dichloroethene	U		0.000188	0.00100	1	03/27/2023 13:22	WG2030392
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/27/2023 13:22	WG2030392
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/27/2023 13:22	WG2030392
1,2-Dichloropropane	U		0.000149	0.00100	1	03/27/2023 13:22	WG2030392
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/27/2023 13:22	WG2030392
trans-1,3-Dichloropropene	U	J3	0.000118	0.00100	1	03/27/2023 13:22	WG2030392
Ethylbenzene	0.0420		0.000137	0.00100	1	03/27/2023 13:22	WG2030392
Isopropylbenzene	0.0593		0.000105	0.00100	1	03/27/2023 13:22	WG2030392
p-Isopropyltoluene	0.000816	J	0.000120	0.00100	1	03/27/2023 13:22	WG2030392
2-Butanone (MEK)	U	J3	0.00119	0.0100	1	03/27/2023 13:22	WG2030392
2-Hexanone	U	J3	0.000787	0.0100	1	03/27/2023 13:22	WG2030392
Methylene Chloride	U	J4	0.000430	0.00500	1	03/27/2023 13:22	WG2030392
4-Methyl-2-pentanone (MIBK)	U	J3 J4	0.000478	0.0100	1	03/27/2023 13:22	WG2030392
Methyl tert-butyl ether	0.842		0.00253	0.0250	25	03/29/2023 02:20	WG2031544
Naphthalene	0.208		0.0250	0.125	25	03/29/2023 02:20	WG2031544
n-Propylbenzene	0.0913		0.0000993	0.00100	1	03/27/2023 13:22	WG2030392
Styrene	U		0.000118	0.00100	1	03/27/2023 13:22	WG2030392
tert-Butyl alcohol	4.90		0.102	0.125	25	03/29/2023 02:20	WG2031544
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/27/2023 13:22	WG2030392
1,1,2,2-Tetrachloroethane	U	J3	0.000133	0.00100	1	03/27/2023 13:22	WG2030392
Tetrachloroethene	U		0.000300	0.00100	1	03/27/2023 13:22	WG2030392
Toluene	0.00820		0.000278	0.00100	1	03/27/2023 13:22	WG2030392
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/27/2023 13:22	WG2030392
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/27/2023 13:22	WG2030392
Trichloroethene	U		0.000190	0.00100	1	03/27/2023 13:22	WG2030392
1,2,4-Trimethylbenzene	0.00173		0.000322	0.00100	1	03/27/2023 13:22	WG2030392
1,3,5-Trimethylbenzene	0.00101		0.000104	0.00100	1	03/27/2023 13:22	WG2030392
Vinyl chloride	U		0.000234	0.00100	1	03/27/2023 13:22	WG2030392
o-Xylene	0.00313		0.000174	0.00100	1	03/27/2023 13:22	WG2030392
m&p-Xylene	0.00443		0.000430	0.00200	1	03/27/2023 13:22	WG2030392
Xylenes, Total	0.00756		0.000174	0.00300	1	03/27/2023 13:22	WG2030392
(S) Toluene-d8	*93.9*			*80.0-120*		*03/27/2023 13:22*	WG2030392
(S) Toluene-d8	*105*			*80.0-120*		*03/29/2023 02:20*	WG2031544
(S) 4-Bromofluorobenzene	*91.3*			*77.0-126*		*03/27/2023 13:22*	WG2030392
(S) 4-Bromofluorobenzene	*97.7*			*77.0-126*		*03/29/2023 02:20*	WG2031544
(S) 1,2-Dichloroethane-d4	*83.5*			*70.0-130*		*03/27/2023 13:22*	WG2030392
(S) 1,2-Dichloroethane-d4	*98.9*			*70.0-130*		*03/29/2023 02:20*	WG2031544

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	15.7		0.0494	0.200	2	03/29/2023 06:17	WG2031031
(S) o-Terphenyl	*66.8*			*31.0-160*		*03/29/2023 06:17*	WG2031031

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1440		25.0	1	03/24/2023 10:51	WG2029304

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	159		0.379	1.00	1	03/23/2023 13:35	WG2028377
Fluoride	0.729		0.0640	0.150	1	03/23/2023 13:35	WG2028377
Nitrate	U		0.0480	0.100	1	03/23/2023 13:35	WG2028377
Nitrite	0.0465	J	0.0420	0.100	1	03/23/2023 13:35	WG2028377
Sulfate	433		5.94	50.0	10	03/23/2023 20:23	WG2028377

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00486		0.000180	0.00200	1	03/24/2023 17:17	WG2028573
Arsenic,Dissolved	0.00451		0.000180	0.00200	1	03/23/2023 15:49	WG2028260
Barium	0.0655		0.000381	0.00200	1	03/24/2023 17:17	WG2028573
Barium,Dissolved	0.0693		0.000381	0.00200	1	03/23/2023 15:49	WG2028260
Calcium	205		0.0936	1.00	1	03/24/2023 17:17	WG2028573
Chromium	U		0.00124	0.00200	1	03/24/2023 17:17	WG2028573
Chromium,Dissolved	U		0.00124	0.00200	1	03/23/2023 15:49	WG2028260
Iron	0.0475	J	0.0281	0.100	1	03/24/2023 17:17	WG2028573
Iron,Dissolved	U		0.0281	0.100	1	03/23/2023 15:49	WG2028260
Lead	0.000881	J	0.000849	0.00200	1	03/24/2023 17:17	WG2028573
Lead,Dissolved	U		0.000849	0.00200	1	03/23/2023 15:49	WG2028260
Manganese	0.187		0.000704	0.00500	1	03/24/2023 17:17	WG2028573
Manganese,Dissolved	0.180		0.000704	0.00500	1	03/23/2023 15:49	WG2028260
Potassium	0.973	J	0.108	2.00	1	03/24/2023 17:17	WG2028573
Selenium	U		0.000300	0.00200	1	03/24/2023 17:17	WG2028573
Selenium,Dissolved	U		0.000300	0.00200	1	03/23/2023 15:49	WG2028260
Sodium	117		0.376	2.00	1	03/24/2023 17:17	WG2028573

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	03/29/2023 02:32	WG2031702
Benzene	0.0145		0.0000941	0.00100	1	03/29/2023 02:32	WG2031702
Bromodichloromethane	U		0.000136	0.00100	1	03/29/2023 02:32	WG2031702
Bromoform	U		0.000129	0.00100	1	03/29/2023 02:32	WG2031702
Bromomethane	U		0.000605	0.00500	1	03/29/2023 02:32	WG2031702
n-Butylbenzene	0.00151		0.000157	0.00100	1	03/29/2023 02:32	WG2031702
sec-Butylbenzene	0.00560		0.000125	0.00100	1	03/29/2023 02:32	WG2031702
Carbon disulfide	0.00344		0.0000962	0.00100	1	03/29/2023 02:32	WG2031702
Carbon tetrachloride	U		0.000128	0.00100	1	03/29/2023 02:32	WG2031702
Chlorobenzene	U		0.000116	0.00100	1	03/29/2023 02:32	WG2031702
Chlorodibromomethane	U		0.000140	0.00100	1	03/29/2023 02:32	WG2031702
Chloroethane	U		0.000192	0.00500	1	03/29/2023 02:32	WG2031702
Chloroform	U		0.000111	0.00500	1	03/29/2023 02:32	WG2031702
Chloromethane	U		0.000960	0.00250	1	03/29/2023 02:32	WG2031702
1,2-Dibromoethane	U		0.000126	0.00100	1	03/29/2023 02:32	WG2031702
1,1-Dichloroethane	U		0.000100	0.00100	1	03/29/2023 02:32	WG2031702
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/29/2023 02:32	WG2031702
1,1-Dichloroethene	U		0.000188	0.00100	1	03/29/2023 02:32	WG2031702
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/29/2023 02:32	WG2031702

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/29/2023 02:32	WG2031702
1,2-Dichloropropane	U		0.000149	0.00100	1	03/29/2023 02:32	WG2031702
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/29/2023 02:32	WG2031702
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/29/2023 02:32	WG2031702
Ethylbenzene	0.00397		0.000137	0.00100	1	03/29/2023 02:32	WG2031702
Isopropylbenzene	0.0152		0.000105	0.00100	1	03/29/2023 02:32	WG2031702
p-Isopropyltoluene	0.000378	J	0.000120	0.00100	1	03/29/2023 02:32	WG2031702
2-Butanone (MEK)	0.00879	J	0.00119	0.0100	1	03/29/2023 02:32	WG2031702
2-Hexanone	U		0.000787	0.0100	1	03/29/2023 02:32	WG2031702
Methylene Chloride	U		0.000430	0.00500	1	03/29/2023 02:32	WG2031702
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/29/2023 02:32	WG2031702
Methyl tert-butyl ether	0.0180		0.000101	0.00100	1	03/29/2023 02:32	WG2031702
Naphthalene	0.00146	J	0.00100	0.00500	1	03/29/2023 02:32	WG2031702
n-Propylbenzene	0.0162		0.0000993	0.00100	1	03/29/2023 02:32	WG2031702
Styrene	U		0.000118	0.00100	1	03/29/2023 02:32	WG2031702
tert-Butyl alcohol	0.0106		0.00406	0.00500	1	03/29/2023 02:32	WG2031702
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/29/2023 02:32	WG2031702
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/29/2023 02:32	WG2031702
Tetrachloroethene	U		0.000300	0.00100	1	03/29/2023 02:32	WG2031702
Toluene	0.00111		0.000278	0.00100	1	03/29/2023 02:32	WG2031702
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/29/2023 02:32	WG2031702
1,1,2-Trichloroethane	0.00194		0.000158	0.00100	1	03/29/2023 02:32	WG2031702
Trichloroethene	U		0.000190	0.00100	1	03/29/2023 02:32	WG2031702
1,2,4-Trimethylbenzene	0.00279		0.000322	0.00100	1	03/29/2023 02:32	WG2031702
1,3,5-Trimethylbenzene	0.000271	J	0.000104	0.00100	1	03/29/2023 02:32	WG2031702
Vinyl chloride	U		0.000234	0.00100	1	03/29/2023 02:32	WG2031702
o-Xylene	0.000333	J	0.000174	0.00100	1	03/29/2023 02:32	WG2031702
m&p-Xylene	0.00329		0.000430	0.00200	1	03/29/2023 02:32	WG2031702
Xylenes, Total	0.00362		0.000174	0.00300	1	03/29/2023 02:32	WG2031702
(S) Toluene-d8	*101*			*80.0-120*		*03/29/2023 02:32*	WG2031702
(S) 4-Bromofluorobenzene	*94.1*			*77.0-126*		*03/29/2023 02:32*	WG2031702
(S) 1,2-Dichloroethane-d4	*97.7*			*70.0-130*		*03/29/2023 02:32*	WG2031702

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	1.41		0.0247	0.100	1	03/29/2023 14:50	WG2031031
(S) o-Terphenyl	*96.3*			*31.0-160*		*03/29/2023 14:50*	WG2031031

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2160		50.0	1	03/24/2023 10:51	WG2029304

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	343		3.79	10.0	10	03/23/2023 23:44	WG2028377
Fluoride	0.881		0.0640	0.150	1	03/23/2023 11:48	WG2028377
Nitrate	U		0.0480	0.100	1	03/23/2023 11:48	WG2028377
Nitrite	0.0573	J P1	0.0420	0.100	1	03/23/2023 11:48	WG2028377
Sulfate	547		5.94	50.0	10	03/23/2023 23:44	WG2028377

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	03/24/2023 17:20	WG2028573
Arsenic,Dissolved	0.0325		0.000180	0.00200	1	03/23/2023 15:53	WG2028260
Barium	0.633		0.000381	0.00200	1	03/24/2023 17:20	WG2028573
Barium,Dissolved	0.161		0.000381	0.00200	1	03/23/2023 15:53	WG2028260
Calcium	331		0.0936	1.00	1	03/24/2023 17:20	WG2028573
Chromium	0.00443		0.00124	0.00200	1	03/24/2023 17:20	WG2028573
Chromium,Dissolved	0.00172	J	0.00124	0.00200	1	03/23/2023 15:53	WG2028260
Iron	1.19		0.0281	0.100	1	03/24/2023 17:20	WG2028573
Iron,Dissolved	U		0.0281	0.100	1	03/23/2023 15:53	WG2028260
Lead	0.00577		0.000849	0.00200	1	03/24/2023 17:20	WG2028573
Lead,Dissolved	U		0.000849	0.00200	1	03/23/2023 15:53	WG2028260
Manganese	0.195		0.000704	0.00500	1	03/24/2023 17:20	WG2028573
Manganese,Dissolved	0.185		0.000704	0.00500	1	03/23/2023 15:53	WG2028260
Potassium	1.33	J	0.108	2.00	1	03/24/2023 17:20	WG2028573
Selenium	0.000538	J	0.000300	0.00200	1	03/24/2023 17:20	WG2028573
Selenium,Dissolved	0.000426	J	0.000300	0.00200	1	03/23/2023 15:53	WG2028260
Sodium	199		0.376	2.00	1	03/24/2023 17:20	WG2028573

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	03/27/2023 18:06	WG2030392
Benzene	6.04		0.0235	0.250	250	03/29/2023 02:39	WG2031544
Bromodichloromethane	U		0.00340	0.0250	25	03/27/2023 18:06	WG2030392
Bromoform	U	J3	0.00322	0.0250	25	03/27/2023 18:06	WG2030392
Bromomethane	U	J3	0.0151	0.125	25	03/27/2023 18:06	WG2030392
n-Butylbenzene	0.00723	J	0.00393	0.0250	25	03/27/2023 18:06	WG2030392
sec-Butylbenzene	0.0135	J	0.00313	0.0250	25	03/27/2023 18:06	WG2030392
Carbon disulfide	0.0331		0.00241	0.0250	25	03/27/2023 18:06	WG2030392
Carbon tetrachloride	U		0.00320	0.0250	25	03/27/2023 18:06	WG2030392
Chlorobenzene	U		0.00290	0.0250	25	03/27/2023 18:06	WG2030392
Chlorodibromomethane	U		0.00350	0.0250	25	03/27/2023 18:06	WG2030392
Chloroethane	U		0.00480	0.125	25	03/27/2023 18:06	WG2030392
Chloroform	U		0.00278	0.125	25	03/27/2023 18:06	WG2030392
Chloromethane	U	J3	0.0240	0.0625	25	03/27/2023 18:06	WG2030392
1,2-Dibromoethane	U	J3	0.00315	0.0250	25	03/27/2023 18:06	WG2030392
1,1-Dichloroethane	U		0.00250	0.0250	25	03/27/2023 18:06	WG2030392
1,2-Dichloroethane	U	J3	0.00205	0.0250	25	03/27/2023 18:06	WG2030392
1,1-Dichloroethene	U		0.00470	0.0250	25	03/27/2023 18:06	WG2030392
cis-1,2-Dichloroethene	U		0.00315	0.0250	25	03/27/2023 18:06	WG2030392

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
trans-1,2-Dichloroethene	U		0.00373	0.0250	25	03/27/2023 18:06	WG2030392
1,2-Dichloropropane	U		0.00373	0.0250	25	03/27/2023 18:06	WG2030392
cis-1,3-Dichloropropene	U		0.00278	0.0250	25	03/27/2023 18:06	WG2030392
trans-1,3-Dichloropropene	U	J3	0.00295	0.0250	25	03/27/2023 18:06	WG2030392
Ethylbenzene	0.417		0.00343	0.0250	25	03/27/2023 18:06	WG2030392
Isopropylbenzene	0.0295		0.00263	0.0250	25	03/27/2023 18:06	WG2030392
p-Isopropyltoluene	U		0.00300	0.0250	25	03/27/2023 18:06	WG2030392
2-Butanone (MEK)	U	J3	0.0298	0.250	25	03/27/2023 18:06	WG2030392
2-Hexanone	U	J3	0.0197	0.250	25	03/27/2023 18:06	WG2030392
Methylene Chloride	U	J4	0.0107	0.125	25	03/27/2023 18:06	WG2030392
4-Methyl-2-pentanone (MIBK)	U	J3 J4	0.0120	0.250	25	03/27/2023 18:06	WG2030392
Methyl tert-butyl ether	0.482	J3	0.00253	0.0250	25	03/27/2023 18:06	WG2030392
Naphthalene	0.115	J J3 J4	0.0250	0.125	25	03/27/2023 18:06	WG2030392
n-Propylbenzene	0.0352		0.00248	0.0250	25	03/27/2023 18:06	WG2030392
Styrene	U		0.00295	0.0250	25	03/27/2023 18:06	WG2030392
tert-Butyl alcohol	0.449		0.102	0.125	25	03/27/2023 18:06	WG2030392
1,1,1,2-Tetrachloroethane	U		0.00368	0.0250	25	03/27/2023 18:06	WG2030392
1,1,2,2-Tetrachloroethane	U	J3	0.00333	0.0250	25	03/27/2023 18:06	WG2030392
Tetrachloroethene	U		0.00750	0.0250	25	03/27/2023 18:06	WG2030392
Toluene	2.78		0.00695	0.0250	25	03/27/2023 18:06	WG2030392
1,1,1-Trichloroethane	U		0.00373	0.0250	25	03/27/2023 18:06	WG2030392
1,1,2-Trichloroethane	U		0.00395	0.0250	25	03/27/2023 18:06	WG2030392
Trichloroethene	U		0.00475	0.0250	25	03/27/2023 18:06	WG2030392
1,2,4-Trimethylbenzene	0.225		0.00805	0.0250	25	03/27/2023 18:06	WG2030392
1,3,5-Trimethylbenzene	0.0456		0.00260	0.0250	25	03/27/2023 18:06	WG2030392
Vinyl chloride	U		0.00585	0.0250	25	03/27/2023 18:06	WG2030392
o-Xylene	0.378		0.00435	0.0250	25	03/27/2023 18:06	WG2030392
m&p-Xylene	0.928		0.0107	0.0500	25	03/27/2023 18:06	WG2030392
Xylenes, Total	1.31		0.00435	0.0750	25	03/27/2023 18:06	WG2030392
(S) Toluene-d8	*94.9*			*80.0-120*		*03/27/2023 18:06*	WG2030392
(S) Toluene-d8	*102*			*80.0-120*		*03/29/2023 02:39*	WG2031544
(S) 4-Bromofluorobenzene	*88.9*			*77.0-126*		*03/27/2023 18:06*	WG2030392
(S) 4-Bromofluorobenzene	*93.6*			*77.0-126*		*03/29/2023 02:39*	WG2031544
(S) 1,2-Dichloroethane-d4	*80.4*			*70.0-130*		*03/27/2023 18:06*	WG2030392
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*03/29/2023 02:39*	WG2031544

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	7.34		0.0494	0.200	2	03/29/2023 09:04	WG2031031
(S) o-Terphenyl	*81.1*			*31.0-160*		*03/29/2023 09:04*	WG2031031

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1340		25.0	1	03/24/2023 10:51	WG2029304

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	146		0.379	1.00	1	03/23/2023 01:36	WG2028309
Fluoride	1.04	J3	0.0640	0.150	1	03/23/2023 01:36	WG2028309
Nitrate	U		0.0480	0.100	1	03/23/2023 01:36	WG2028309
Nitrite	0.200	J5 P1	0.0420	0.100	1	03/23/2023 01:36	WG2028309
Sulfate	117		0.594	5.00	1	03/23/2023 01:36	WG2028309

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00211		0.000180	0.00200	1	03/24/2023 17:23	WG2028573
Arsenic,Dissolved	0.00178	J	0.000180	0.00200	1	03/24/2023 19:46	WG2028558
Barium	0.322		0.000381	0.00200	1	03/24/2023 17:23	WG2028573
Barium,Dissolved	0.326		0.000381	0.00200	1	03/24/2023 19:46	WG2028558
Calcium	148		0.0936	1.00	1	03/24/2023 17:23	WG2028573
Chromium	U		0.00124	0.00200	1	03/24/2023 17:23	WG2028573
Chromium,Dissolved	U		0.00124	0.00200	1	03/24/2023 19:46	WG2028558
Iron	1.06		0.0281	0.100	1	03/24/2023 17:23	WG2028573
Iron,Dissolved	0.180	B	0.0281	0.100	1	03/24/2023 19:46	WG2028558
Lead	U		0.000849	0.00200	1	03/24/2023 17:23	WG2028573
Lead,Dissolved	U		0.000849	0.00200	1	03/24/2023 19:46	WG2028558
Manganese	0.00301	J	0.000704	0.00500	1	03/24/2023 17:23	WG2028573
Manganese,Dissolved	0.00269	J	0.000704	0.00500	1	03/24/2023 19:46	WG2028558
Potassium	0.982	J	0.108	2.00	1	03/24/2023 17:23	WG2028573
Selenium	0.000591	J	0.000300	0.00200	1	03/24/2023 17:23	WG2028573
Selenium,Dissolved	0.000490	J	0.000300	0.00200	1	03/24/2023 19:46	WG2028558
Sodium	209		0.376	2.00	1	03/24/2023 17:23	WG2028573

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	34.7		0.314	1.00	10	03/26/2023 05:35	WG2030121
(S) a,a,a-Trifluorotoluene(FID)	*106*			*78.0-120*		*03/26/2023 05:35*	WG2030121

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		11.3	50.0	1000	03/27/2023 18:27	WG2030392
Benzene	U		0.0941	1.00	1000	03/29/2023 02:58	WG2031544
Bromodichloromethane	U		0.136	1.00	1000	03/27/2023 18:27	WG2030392
Bromoform	U	J3	0.129	1.00	1000	03/27/2023 18:27	WG2030392
Bromomethane	U	J3	0.605	5.00	1000	03/27/2023 18:27	WG2030392
n-Butylbenzene	U		0.157	1.00	1000	03/27/2023 18:27	WG2030392
sec-Butylbenzene	U		0.125	1.00	1000	03/27/2023 18:27	WG2030392
Carbon disulfide	0.572	J	0.0962	1.00	1000	03/27/2023 18:27	WG2030392
Carbon tetrachloride	U		0.128	1.00	1000	03/27/2023 18:27	WG2030392
Chlorobenzene	U		0.116	1.00	1000	03/27/2023 18:27	WG2030392
Chlorodibromomethane	U		0.140	1.00	1000	03/27/2023 18:27	WG2030392
Chloroethane	U		0.192	5.00	1000	03/27/2023 18:27	WG2030392

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloroform	U		0.111	5.00	1000	03/27/2023 18:27	WG2030392
Chloromethane	U	J3	0.960	2.50	1000	03/27/2023 18:27	WG2030392
1,2-Dibromoethane	U	J3	0.126	1.00	1000	03/27/2023 18:27	WG2030392
1,1-Dichloroethane	U		0.100	1.00	1000	03/27/2023 18:27	WG2030392
1,2-Dichloroethane	U	J3	0.0819	1.00	1000	03/27/2023 18:27	WG2030392
1,1-Dichloroethene	U		0.188	1.00	1000	03/27/2023 18:27	WG2030392
cis-1,2-Dichloroethene	U		0.126	1.00	1000	03/27/2023 18:27	WG2030392
trans-1,2-Dichloroethene	U		0.149	1.00	1000	03/27/2023 18:27	WG2030392
1,2-Dichloropropane	U		0.149	1.00	1000	03/27/2023 18:27	WG2030392
cis-1,3-Dichloropropene	U		0.111	1.00	1000	03/27/2023 18:27	WG2030392
trans-1,3-Dichloropropene	U	J3	0.118	1.00	1000	03/27/2023 18:27	WG2030392
Ethylbenzene	0.155	J	0.137	1.00	1000	03/27/2023 18:27	WG2030392
Isopropylbenzene	U		0.105	1.00	1000	03/27/2023 18:27	WG2030392
p-Isopropyltoluene	U		0.120	1.00	1000	03/27/2023 18:27	WG2030392
2-Butanone (MEK)	U	J3	1.19	10.0	1000	03/27/2023 18:27	WG2030392
2-Hexanone	U	J3	0.787	10.0	1000	03/27/2023 18:27	WG2030392
Methylene Chloride	U	J4	0.430	5.00	1000	03/27/2023 18:27	WG2030392
4-Methyl-2-pentanone (MIBK)	U	J3 J4	0.478	10.0	1000	03/27/2023 18:27	WG2030392
Methyl tert-butyl ether	25.7	J3	0.101	1.00	1000	03/27/2023 18:27	WG2030392
Naphthalene	U	J3 J4	1.00	5.00	1000	03/27/2023 18:27	WG2030392
n-Propylbenzene	0.116	J	0.0993	1.00	1000	03/27/2023 18:27	WG2030392
Styrene	U		0.118	1.00	1000	03/27/2023 18:27	WG2030392
tert-Butyl alcohol	15.5		4.06	5.00	1000	03/27/2023 18:27	WG2030392
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1000	03/27/2023 18:27	WG2030392
1,1,2,2-Tetrachloroethane	U	J3	0.133	1.00	1000	03/27/2023 18:27	WG2030392
Tetrachloroethene	U		0.300	1.00	1000	03/27/2023 18:27	WG2030392
Toluene	U		0.278	1.00	1000	03/27/2023 18:27	WG2030392
1,1,1-Trichloroethane	U		0.149	1.00	1000	03/27/2023 18:27	WG2030392
1,1,2-Trichloroethane	U		0.158	1.00	1000	03/27/2023 18:27	WG2030392
Trichloroethene	U		0.190	1.00	1000	03/27/2023 18:27	WG2030392
1,2,4-Trimethylbenzene	U		0.322	1.00	1000	03/27/2023 18:27	WG2030392
1,3,5-Trimethylbenzene	U		0.104	1.00	1000	03/27/2023 18:27	WG2030392
Vinyl chloride	U		0.234	1.00	1000	03/27/2023 18:27	WG2030392
o-Xylene	U		0.174	1.00	1000	03/27/2023 18:27	WG2030392
m&p-Xylene	U		0.430	2.00	1000	03/27/2023 18:27	WG2030392
Xylenes, Total	U		0.174	3.00	1000	03/27/2023 18:27	WG2030392
(S) Toluene-d8	*98.0*			*80.0-120*		*03/27/2023 18:27*	WG2030392
(S) Toluene-d8	*103*			*80.0-120*		*03/29/2023 02:58*	WG2031544
(S) 4-Bromofluorobenzene	*84.6*			*77.0-126*		*03/27/2023 18:27*	WG2030392
(S) 4-Bromofluorobenzene	*95.4*			*77.0-126*		*03/29/2023 02:58*	WG2031544
(S) 1,2-Dichloroethane-d4	*83.2*			*70.0-130*		*03/27/2023 18:27*	WG2030392
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*03/29/2023 02:58*	WG2031544

Sample Narrative:

L1597201-69 WG2030392: 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	4.59		0.0247	0.100	1	03/29/2023 09:26	WG2031031
(S) o-Terphenyl	*91.1*			*31.0-160*		*03/29/2023 09:26*	WG2031031

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3190		50.0	1	03/24/2023 10:51	WG2029304

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	570		3.79	10.0	10	03/23/2023 11:21	WG2028377
Fluoride	2.79	B	0.640	1.50	10	03/23/2023 11:21	WG2028377
Nitrate	U		0.480	1.00	10	03/23/2023 11:21	WG2028377
Nitrite	U		0.420	1.00	10	03/23/2023 11:21	WG2028377
Sulfate	1310		5.94	50.0	10	03/23/2023 11:21	WG2028377

Sample Narrative:

L1597201-70 WG2028377: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0170		0.000180	0.00200	1	03/24/2023 17:26	WG2028573
Arsenic,Dissolved	0.00463		0.000180	0.00200	1	03/24/2023 19:52	WG2028558
Barium	0.0195		0.000381	0.00200	1	03/24/2023 17:26	WG2028573
Barium,Dissolved	0.0183		0.000381	0.00200	1	03/24/2023 19:52	WG2028558
Calcium	511		0.0936	1.00	1	03/24/2023 17:26	WG2028573
Chromium	0.00133	J	0.00124	0.00200	1	03/24/2023 17:26	WG2028573
Chromium,Dissolved	0.00131	J	0.00124	0.00200	1	03/24/2023 19:52	WG2028558
Iron	10.2		0.0281	0.100	1	03/24/2023 17:26	WG2028573
Iron,Dissolved	0.506	B	0.0281	0.100	1	03/24/2023 19:52	WG2028558
Lead	0.000949	J	0.000849	0.00200	1	03/24/2023 17:26	WG2028573
Lead,Dissolved	U		0.000849	0.00200	1	03/24/2023 19:52	WG2028558
Manganese	0.152		0.000704	0.00500	1	03/24/2023 17:26	WG2028573
Manganese,Dissolved	0.147		0.000704	0.00500	1	03/24/2023 19:52	WG2028558
Potassium	6.17		0.108	2.00	1	03/24/2023 17:26	WG2028573
Selenium	0.00175	J	0.000300	0.00200	1	03/24/2023 17:26	WG2028573
Selenium,Dissolved	0.00129	J	0.000300	0.00200	1	03/24/2023 19:52	WG2028558
Sodium	284		0.376	2.00	1	03/24/2023 17:26	WG2028573

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	03/27/2023 14:06	WG2030392
Benzene	U		0.0000941	0.00100	1	03/29/2023 00:24	WG2031544
Bromodichloromethane	U		0.000136	0.00100	1	03/27/2023 14:06	WG2030392
Bromoform	U	J3	0.000129	0.00100	1	03/27/2023 14:06	WG2030392
Bromomethane	U	J3	0.000605	0.00500	1	03/27/2023 14:06	WG2030392
n-Butylbenzene	U		0.000157	0.00100	1	03/27/2023 14:06	WG2030392
sec-Butylbenzene	U		0.000125	0.00100	1	03/29/2023 00:24	WG2031544
Carbon disulfide	0.000895	J	0.0000962	0.00100	1	03/27/2023 14:06	WG2030392
Carbon tetrachloride	U		0.000128	0.00100	1	03/27/2023 14:06	WG2030392
Chlorobenzene	U		0.000116	0.00100	1	03/27/2023 14:06	WG2030392
Chlorodibromomethane	U		0.000140	0.00100	1	03/27/2023 14:06	WG2030392
Chloroethane	U		0.000192	0.00500	1	03/27/2023 14:06	WG2030392
Chloroform	U		0.000111	0.00500	1	03/27/2023 14:06	WG2030392
Chloromethane	U	J3	0.000960	0.00250	1	03/27/2023 14:06	WG2030392
1,2-Dibromoethane	U	J3	0.000126	0.00100	1	03/27/2023 14:06	WG2030392
1,1-Dichloroethane	U		0.000100	0.00100	1	03/27/2023 14:06	WG2030392

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	J3	0.0000819	0.00100	1	03/27/2023 14:06	WG2030392
1,1-Dichloroethene	U		0.000188	0.00100	1	03/27/2023 14:06	WG2030392
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/27/2023 14:06	WG2030392
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/27/2023 14:06	WG2030392
1,2-Dichloropropane	U		0.000149	0.00100	1	03/27/2023 14:06	WG2030392
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/27/2023 14:06	WG2030392
trans-1,3-Dichloropropene	U	J3	0.000118	0.00100	1	03/27/2023 14:06	WG2030392
Ethylbenzene	U		0.000137	0.00100	1	03/27/2023 14:06	WG2030392
Isopropylbenzene	U		0.000105	0.00100	1	03/29/2023 00:24	WG2031544
p-Isopropyltoluene	U		0.000120	0.00100	1	03/27/2023 14:06	WG2030392
2-Butanone (MEK)	U	J3	0.00119	0.0100	1	03/27/2023 14:06	WG2030392
2-Hexanone	U	J3	0.000787	0.0100	1	03/27/2023 14:06	WG2030392
Methylene Chloride	U	J4	0.000430	0.00500	1	03/27/2023 14:06	WG2030392
4-Methyl-2-pentanone (MIBK)	U	J3 J4	0.000478	0.0100	1	03/27/2023 14:06	WG2030392
Methyl tert-butyl ether	0.000310	J	0.000101	0.00100	1	03/29/2023 00:24	WG2031544
Naphthalene	U		0.00100	0.00500	1	03/29/2023 00:24	WG2031544
n-Propylbenzene	U		0.0000993	0.00100	1	03/29/2023 00:24	WG2031544
Styrene	U		0.000118	0.00100	1	03/27/2023 14:06	WG2030392
tert-Butyl alcohol	U		0.00406	0.00500	1	03/29/2023 00:24	WG2031544
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/27/2023 14:06	WG2030392
1,1,2,2-Tetrachloroethane	U	J3	0.000133	0.00100	1	03/27/2023 14:06	WG2030392
Tetrachloroethene	U		0.000300	0.00100	1	03/27/2023 14:06	WG2030392
Toluene	U		0.000278	0.00100	1	03/27/2023 14:06	WG2030392
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/27/2023 14:06	WG2030392
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/27/2023 14:06	WG2030392
Trichloroethene	U		0.000190	0.00100	1	03/27/2023 14:06	WG2030392
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/27/2023 14:06	WG2030392
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/27/2023 14:06	WG2030392
Vinyl chloride	U		0.000234	0.00100	1	03/27/2023 14:06	WG2030392
o-Xylene	U		0.000174	0.00100	1	03/27/2023 14:06	WG2030392
m&p-Xylene	U		0.000430	0.00200	1	03/27/2023 14:06	WG2030392
Xylenes, Total	U		0.000174	0.00300	1	03/27/2023 14:06	WG2030392
(S) Toluene-d8	*97.5*			*80.0-120*		*03/27/2023 14:06*	WG2030392
(S) Toluene-d8	*101*			*80.0-120*		*03/29/2023 00:24*	WG2031544
(S) 4-Bromofluorobenzene	*90.0*			*77.0-126*		*03/27/2023 14:06*	WG2030392
(S) 4-Bromofluorobenzene	*93.3*			*77.0-126*		*03/29/2023 00:24*	WG2031544
(S) 1,2-Dichloroethane-d4	*81.3*			*70.0-130*		*03/27/2023 14:06*	WG2030392
(S) 1,2-Dichloroethane-d4	*111*			*70.0-130*		*03/29/2023 00:24*	WG2031544

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	8.82		0.0247	0.100	1	03/29/2023 13:43	WG2031031
(S) o-Terphenyl	*106*			*31.0-160*		*03/29/2023 13:43*	WG2031031

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2330		50.0	1	03/24/2023 10:51	WG2029304

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	97.6		3.79	10.0	10	03/23/2023 05:57	WG2028372
Fluoride	1.52		0.640	1.50	10	03/23/2023 05:57	WG2028372
Nitrate	U		0.480	1.00	10	03/23/2023 05:57	WG2028372
Nitrite	U		0.420	1.00	10	03/23/2023 05:57	WG2028372
Sulfate	1250		5.94	50.0	10	03/23/2023 05:57	WG2028372

Sample Narrative:

L1597201-71 WG2028372: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00847		0.000180	0.00200	1	03/24/2023 17:30	WG2028573
Arsenic,Dissolved	0.00691		0.000180	0.00200	1	03/24/2023 19:55	WG2028558
Barium	0.0169		0.000381	0.00200	1	03/24/2023 17:30	WG2028573
Barium,Dissolved	0.0165		0.000381	0.00200	1	03/24/2023 19:55	WG2028558
Calcium	345		0.0936	1.00	1	03/24/2023 17:30	WG2028573
Chromium	0.00139	J	0.00124	0.00200	1	03/24/2023 17:30	WG2028573
Chromium,Dissolved	U		0.00124	0.00200	1	03/24/2023 19:55	WG2028558
Iron	0.392		0.0281	0.100	1	03/24/2023 17:30	WG2028573
Iron,Dissolved	0.319	B	0.0281	0.100	1	03/24/2023 19:55	WG2028558
Lead	U		0.000849	0.00200	1	03/24/2023 17:30	WG2028573
Lead,Dissolved	U		0.000849	0.00200	1	03/24/2023 19:55	WG2028558
Manganese	0.733		0.000704	0.00500	1	03/24/2023 17:30	WG2028573
Manganese,Dissolved	0.702		0.000704	0.00500	1	03/24/2023 19:55	WG2028558
Potassium	2.36		0.108	2.00	1	03/24/2023 17:30	WG2028573
Selenium	0.000376	J	0.000300	0.00200	1	03/24/2023 17:30	WG2028573
Selenium,Dissolved	U		0.000300	0.00200	1	03/24/2023 19:55	WG2028558
Sodium	150		0.376	2.00	1	03/24/2023 17:30	WG2028573

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	03/27/2023 14:27	WG2030392
Benzene	U		0.0000941	0.00100	1	03/29/2023 00:44	WG2031544
Bromodichloromethane	U		0.000136	0.00100	1	03/27/2023 14:27	WG2030392
Bromoform	U	J3	0.000129	0.00100	1	03/27/2023 14:27	WG2030392
Bromomethane	U	J3	0.000605	0.00500	1	03/27/2023 14:27	WG2030392
n-Butylbenzene	U		0.000157	0.00100	1	03/27/2023 14:27	WG2030392
sec-Butylbenzene	0.000197	J	0.000125	0.00100	1	03/29/2023 00:44	WG2031544
Carbon disulfide	0.000848	J	0.0000962	0.00100	1	03/27/2023 14:27	WG2030392
Carbon tetrachloride	U		0.000128	0.00100	1	03/27/2023 14:27	WG2030392
Chlorobenzene	U		0.000116	0.00100	1	03/27/2023 14:27	WG2030392
Chlorodibromomethane	U		0.000140	0.00100	1	03/27/2023 14:27	WG2030392
Chloroethane	U		0.000192	0.00500	1	03/27/2023 14:27	WG2030392
Chloroform	U		0.000111	0.00500	1	03/27/2023 14:27	WG2030392
Chloromethane	U	J3	0.000960	0.00250	1	03/27/2023 14:27	WG2030392
1,2-Dibromoethane	U	J3	0.000126	0.00100	1	03/27/2023 14:27	WG2030392
1,1-Dichloroethane	U		0.000100	0.00100	1	03/27/2023 14:27	WG2030392

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	J3	0.0000819	0.00100	1	03/27/2023 14:27	WG2030392
1,1-Dichloroethene	U		0.000188	0.00100	1	03/27/2023 14:27	WG2030392
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/27/2023 14:27	WG2030392
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/27/2023 14:27	WG2030392
1,2-Dichloropropane	U		0.000149	0.00100	1	03/27/2023 14:27	WG2030392
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/27/2023 14:27	WG2030392
trans-1,3-Dichloropropene	U	J3	0.000118	0.00100	1	03/27/2023 14:27	WG2030392
Ethylbenzene	U		0.000137	0.00100	1	03/27/2023 14:27	WG2030392
Isopropylbenzene	0.000636	J	0.000105	0.00100	1	03/29/2023 00:44	WG2031544
p-Isopropyltoluene	U		0.000120	0.00100	1	03/27/2023 14:27	WG2030392
2-Butanone (MEK)	U	J3	0.00119	0.0100	1	03/27/2023 14:27	WG2030392
2-Hexanone	U	J3	0.000787	0.0100	1	03/27/2023 14:27	WG2030392
Methylene Chloride	U	J4	0.000430	0.00500	1	03/27/2023 14:27	WG2030392
4-Methyl-2-pentanone (MIBK)	U	J3 J4	0.000478	0.0100	1	03/27/2023 14:27	WG2030392
Methyl tert-butyl ether	0.000182	J	0.000101	0.00100	1	03/29/2023 00:44	WG2031544
Naphthalene	U		0.00100	0.00500	1	03/29/2023 00:44	WG2031544
n-Propylbenzene	U		0.0000993	0.00100	1	03/29/2023 00:44	WG2031544
Styrene	U		0.000118	0.00100	1	03/27/2023 14:27	WG2030392
tert-Butyl alcohol	U		0.00406	0.00500	1	03/27/2023 14:27	WG2030392
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/27/2023 14:27	WG2030392
1,1,2,2-Tetrachloroethane	U	J3	0.000133	0.00100	1	03/27/2023 14:27	WG2030392
Tetrachloroethene	U		0.000300	0.00100	1	03/27/2023 14:27	WG2030392
Toluene	U		0.000278	0.00100	1	03/27/2023 14:27	WG2030392
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/27/2023 14:27	WG2030392
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/27/2023 14:27	WG2030392
Trichloroethene	U		0.000190	0.00100	1	03/27/2023 14:27	WG2030392
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/27/2023 14:27	WG2030392
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/27/2023 14:27	WG2030392
Vinyl chloride	U		0.000234	0.00100	1	03/27/2023 14:27	WG2030392
o-Xylene	U		0.000174	0.00100	1	03/27/2023 14:27	WG2030392
m&p-Xylene	U		0.000430	0.00200	1	03/27/2023 14:27	WG2030392
Xylenes, Total	U		0.000174	0.00300	1	03/27/2023 14:27	WG2030392
(S) Toluene-d8	*93.4*			*80.0-120*		*03/27/2023 14:27*	WG2030392
(S) Toluene-d8	*99.7*			*80.0-120*		*03/29/2023 00:44*	WG2031544
(S) 4-Bromofluorobenzene	*88.0*			*77.0-126*		*03/27/2023 14:27*	WG2030392
(S) 4-Bromofluorobenzene	*93.4*			*77.0-126*		*03/29/2023 00:44*	WG2031544
(S) 1,2-Dichloroethane-d4	*83.3*			*70.0-130*		*03/27/2023 14:27*	WG2030392
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*03/29/2023 00:44*	WG2031544

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	3.39		0.0247	0.100	1	03/29/2023 11:07	WG2031031
(S) o-Terphenyl	*91.6*			*31.0-160*		*03/29/2023 11:07*	WG2031031

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2780		50.0	1	03/24/2023 10:51	WG2029304

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	181		3.79	10.0	10	03/23/2023 06:13	WG2028372
Fluoride	1.04	J	0.640	1.50	10	03/23/2023 06:13	WG2028372
Nitrate	2.45		0.480	1.00	10	03/23/2023 06:13	WG2028372
Nitrite	U		0.420	1.00	10	03/23/2023 06:13	WG2028372
Sulfate	1660		5.94	50.0	10	03/23/2023 06:13	WG2028372

Sample Narrative:

L1597201-72 WG2028372: Dilution due to matrix.

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	03/24/2023 17:33	WG2028573
Arsenic,Dissolved	0.00258		0.000180	0.00200	1	03/24/2023 20:05	WG2028558
Barium	0.0210		0.000381	0.00200	1	03/24/2023 17:33	WG2028573
Barium,Dissolved	0.0160		0.000381	0.00200	1	03/24/2023 20:05	WG2028558
Calcium	500		0.0936	1.00	1	03/24/2023 17:33	WG2028573
Chromium	0.00341		0.00124	0.00200	1	03/24/2023 17:33	WG2028573
Chromium,Dissolved	0.00148	J	0.00124	0.00200	1	03/24/2023 20:05	WG2028558
Iron	0.304		0.0281	0.100	1	03/24/2023 17:33	WG2028573
Iron,Dissolved	U		0.0281	0.100	1	03/24/2023 20:05	WG2028558
Lead	0.00242		0.000849	0.00200	1	03/24/2023 17:33	WG2028573
Lead,Dissolved	0.00111	J	0.000849	0.00200	1	03/24/2023 20:05	WG2028558
Manganese	2.02		0.000704	0.00500	1	03/24/2023 17:33	WG2028573
Manganese,Dissolved	1.83		0.000704	0.00500	1	03/24/2023 20:05	WG2028558
Potassium	3.57		0.108	2.00	1	03/24/2023 17:33	WG2028573
Selenium	0.00144	J	0.000300	0.00200	1	03/24/2023 17:33	WG2028573
Selenium,Dissolved	0.00115	J	0.000300	0.00200	1	03/24/2023 20:05	WG2028558
Sodium	108		0.376	2.00	1	03/24/2023 17:33	WG2028573

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	0.0133	J	0.0113	0.0500	1	03/27/2023 14:49	WG2030392
Benzene	U		0.0000941	0.00100	1	03/29/2023 01:03	WG2031544
Bromodichloromethane	U		0.000136	0.00100	1	03/27/2023 14:49	WG2030392
Bromoform	U	J3	0.000129	0.00100	1	03/27/2023 14:49	WG2030392
Bromomethane	U	J3	0.000605	0.00500	1	03/27/2023 14:49	WG2030392
n-Butylbenzene	U		0.000157	0.00100	1	03/27/2023 14:49	WG2030392
sec-Butylbenzene	U		0.000125	0.00100	1	03/27/2023 14:49	WG2030392
Carbon disulfide	0.000526	J	0.0000962	0.00100	1	03/27/2023 14:49	WG2030392
Carbon tetrachloride	U		0.000128	0.00100	1	03/27/2023 14:49	WG2030392
Chlorobenzene	U		0.000116	0.00100	1	03/27/2023 14:49	WG2030392
Chlorodibromomethane	U		0.000140	0.00100	1	03/27/2023 14:49	WG2030392
Chloroethane	U		0.000192	0.00500	1	03/27/2023 14:49	WG2030392
Chloroform	U		0.000111	0.00500	1	03/27/2023 14:49	WG2030392
Chloromethane	U	J3	0.000960	0.00250	1	03/27/2023 14:49	WG2030392
1,2-Dibromoethane	U	J3	0.000126	0.00100	1	03/27/2023 14:49	WG2030392
1,1-Dichloroethane	U		0.000100	0.00100	1	03/27/2023 14:49	WG2030392

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	J3	0.0000819	0.00100	1	03/27/2023 14:49	WG2030392
1,1-Dichloroethene	U		0.000188	0.00100	1	03/27/2023 14:49	WG2030392
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/27/2023 14:49	WG2030392
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/27/2023 14:49	WG2030392
1,2-Dichloropropane	U		0.000149	0.00100	1	03/27/2023 14:49	WG2030392
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/27/2023 14:49	WG2030392
trans-1,3-Dichloropropene	U	J3	0.000118	0.00100	1	03/27/2023 14:49	WG2030392
Ethylbenzene	U		0.000137	0.00100	1	03/27/2023 14:49	WG2030392
Isopropylbenzene	U		0.000105	0.00100	1	03/27/2023 14:49	WG2030392
p-Isopropyltoluene	U		0.000120	0.00100	1	03/27/2023 14:49	WG2030392
2-Butanone (MEK)	0.00180	J J3	0.00119	0.0100	1	03/27/2023 14:49	WG2030392
2-Hexanone	U	J3	0.000787	0.0100	1	03/27/2023 14:49	WG2030392
Methylene Chloride	U	J4	0.000430	0.00500	1	03/27/2023 14:49	WG2030392
4-Methyl-2-pentanone (MIBK)	U	J3 J4	0.000478	0.0100	1	03/27/2023 14:49	WG2030392
Methyl tert-butyl ether	U	J3	0.000101	0.00100	1	03/27/2023 14:49	WG2030392
Naphthalene	U	J3 J4	0.00100	0.00500	1	03/27/2023 14:49	WG2030392
n-Propylbenzene	U		0.0000993	0.00100	1	03/29/2023 01:03	WG2031544
Styrene	U		0.000118	0.00100	1	03/27/2023 14:49	WG2030392
tert-Butyl alcohol	U		0.00406	0.00500	1	03/27/2023 14:49	WG2030392
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/27/2023 14:49	WG2030392
1,1,2,2-Tetrachloroethane	U	J3	0.000133	0.00100	1	03/27/2023 14:49	WG2030392
Tetrachloroethene	U		0.000300	0.00100	1	03/27/2023 14:49	WG2030392
Toluene	U		0.000278	0.00100	1	03/27/2023 14:49	WG2030392
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/27/2023 14:49	WG2030392
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/27/2023 14:49	WG2030392
Trichloroethene	U		0.000190	0.00100	1	03/27/2023 14:49	WG2030392
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/27/2023 14:49	WG2030392
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/27/2023 14:49	WG2030392
Vinyl chloride	U		0.000234	0.00100	1	03/27/2023 14:49	WG2030392
o-Xylene	U		0.000174	0.00100	1	03/27/2023 14:49	WG2030392
m&p-Xylene	U		0.000430	0.00200	1	03/27/2023 14:49	WG2030392
Xylenes, Total	U		0.000174	0.00300	1	03/27/2023 14:49	WG2030392
(S) Toluene-d8	*97.8*			*80.0-120*		*03/27/2023 14:49*	WG2030392
(S) Toluene-d8	*105*			*80.0-120*		*03/29/2023 01:03*	WG2031544
(S) 4-Bromofluorobenzene	*87.0*			*77.0-126*		*03/27/2023 14:49*	WG2030392
(S) 4-Bromofluorobenzene	*91.4*			*77.0-126*		*03/29/2023 01:03*	WG2031544
(S) 1,2-Dichloroethane-d4	*84.7*			*70.0-130*		*03/27/2023 14:49*	WG2030392
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*03/29/2023 01:03*	WG2031544

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	2.58		0.0247	0.100	1	03/29/2023 12:59	WG2031031
(S) o-Terphenyl	*86.3*			*31.0-160*		*03/29/2023 12:59*	WG2031031

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1750		25.0	1	03/24/2023 10:51	WG2029304

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	146		0.379	1.00	1	03/22/2023 23:28	WG2028309
Fluoride	1.08		0.0640	0.150	1	03/22/2023 23:28	WG2028309
Nitrate	U		0.0480	0.100	1	03/22/2023 23:28	WG2028309
Nitrite	U		0.0420	0.100	1	03/22/2023 23:28	WG2028309
Sulfate	105		0.594	5.00	1	03/22/2023 23:28	WG2028309

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00179	J	0.000180	0.00200	1	03/24/2023 17:43	WG2028573
Arsenic,Dissolved	0.00110	J	0.000180	0.00200	1	03/24/2023 20:09	WG2028558
Barium	0.0459		0.000381	0.00200	1	03/24/2023 17:43	WG2028573
Barium,Dissolved	0.0467		0.000381	0.00200	1	03/24/2023 20:09	WG2028558
Calcium	238		0.0936	1.00	1	03/24/2023 17:43	WG2028573
Chromium	0.00188	J	0.00124	0.00200	1	03/24/2023 17:43	WG2028573
Chromium,Dissolved	0.00143	J	0.00124	0.00200	1	03/24/2023 20:09	WG2028558
Iron	1.07		0.0281	0.100	1	03/24/2023 17:43	WG2028573
Iron,Dissolved	U		0.0281	0.100	1	03/24/2023 20:09	WG2028558
Lead	0.00117	J	0.000849	0.00200	1	03/24/2023 17:43	WG2028573
Lead,Dissolved	U		0.000849	0.00200	1	03/24/2023 20:09	WG2028558
Manganese	0.0457		0.000704	0.00500	1	03/24/2023 17:43	WG2028573
Manganese,Dissolved	0.0379		0.000704	0.00500	1	03/24/2023 20:09	WG2028558
Potassium	0.484	J	0.108	2.00	1	03/24/2023 17:43	WG2028573
Selenium	0.000325	J	0.000300	0.00200	1	03/24/2023 17:43	WG2028573
Selenium,Dissolved	U		0.000300	0.00200	1	03/24/2023 20:09	WG2028558
Sodium	45.4		0.376	2.00	1	03/24/2023 17:43	WG2028573

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	03/27/2023 15:11	WG2030392
Benzene	0.0681		0.0000941	0.00100	1	03/27/2023 15:11	WG2030392
Bromodichloromethane	U		0.000136	0.00100	1	03/27/2023 15:11	WG2030392
Bromoform	U	J3	0.000129	0.00100	1	03/27/2023 15:11	WG2030392
Bromomethane	U	J3	0.000605	0.00500	1	03/27/2023 15:11	WG2030392
n-Butylbenzene	0.00190		0.000157	0.00100	1	03/27/2023 15:11	WG2030392
sec-Butylbenzene	0.00687		0.000125	0.00100	1	03/27/2023 15:11	WG2030392
Carbon disulfide	0.000970	J	0.0000962	0.00100	1	03/27/2023 15:11	WG2030392
Carbon tetrachloride	U		0.000128	0.00100	1	03/27/2023 15:11	WG2030392
Chlorobenzene	U		0.000116	0.00100	1	03/27/2023 15:11	WG2030392
Chlorodibromomethane	U		0.000140	0.00100	1	03/27/2023 15:11	WG2030392
Chloroethane	U		0.000192	0.00500	1	03/27/2023 15:11	WG2030392
Chloroform	U		0.000111	0.00500	1	03/27/2023 15:11	WG2030392
Chloromethane	U	J3	0.000960	0.00250	1	03/27/2023 15:11	WG2030392
1,2-Dibromoethane	U	J3	0.000126	0.00100	1	03/27/2023 15:11	WG2030392
1,1-Dichloroethane	U		0.000100	0.00100	1	03/27/2023 15:11	WG2030392
1,2-Dichloroethane	U	J3	0.0000819	0.00100	1	03/27/2023 15:11	WG2030392
1,1-Dichloroethene	U		0.000188	0.00100	1	03/27/2023 15:11	WG2030392
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/27/2023 15:11	WG2030392

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/27/2023 15:11	WG2030392
1,2-Dichloropropane	U		0.000149	0.00100	1	03/27/2023 15:11	WG2030392
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/27/2023 15:11	WG2030392
trans-1,3-Dichloropropene	U	J3	0.000118	0.00100	1	03/27/2023 15:11	WG2030392
Ethylbenzene	0.000750	J	0.000137	0.00100	1	03/27/2023 15:11	WG2030392
Isopropylbenzene	0.0322		0.000105	0.00100	1	03/27/2023 15:11	WG2030392
p-Isopropyltoluene	0.000300	J	0.000120	0.00100	1	03/27/2023 15:11	WG2030392
2-Butanone (MEK)	U	J3	0.00119	0.0100	1	03/27/2023 15:11	WG2030392
2-Hexanone	U	J3	0.000787	0.0100	1	03/27/2023 15:11	WG2030392
Methylene Chloride	U	J4	0.000430	0.00500	1	03/27/2023 15:11	WG2030392
4-Methyl-2-pentanone (MIBK)	U	J3 J4	0.000478	0.0100	1	03/27/2023 15:11	WG2030392
Methyl tert-butyl ether	U	J3	0.000101	0.00100	1	03/27/2023 15:11	WG2030392
Naphthalene	0.00243	J J3 J4	0.00100	0.00500	1	03/27/2023 15:11	WG2030392
n-Propylbenzene	0.0147		0.0000993	0.00100	1	03/27/2023 15:11	WG2030392
Styrene	U		0.000118	0.00100	1	03/27/2023 15:11	WG2030392
tert-Butyl alcohol	U		0.00406	0.00500	1	03/27/2023 15:11	WG2030392
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/27/2023 15:11	WG2030392
1,1,2,2-Tetrachloroethane	U	J3	0.000133	0.00100	1	03/27/2023 15:11	WG2030392
Tetrachloroethene	U		0.000300	0.00100	1	03/27/2023 15:11	WG2030392
Toluene	0.000628	J	0.000278	0.00100	1	03/27/2023 15:11	WG2030392
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/27/2023 15:11	WG2030392
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/27/2023 15:11	WG2030392
Trichloroethene	U		0.000190	0.00100	1	03/27/2023 15:11	WG2030392
1,2,4-Trimethylbenzene	0.00272		0.000322	0.00100	1	03/27/2023 15:11	WG2030392
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/27/2023 15:11	WG2030392
Vinyl chloride	U		0.000234	0.00100	1	03/27/2023 15:11	WG2030392
o-Xylene	0.000278	J	0.000174	0.00100	1	03/27/2023 15:11	WG2030392
m&p-Xylene	0.00585		0.000430	0.00200	1	03/27/2023 15:11	WG2030392
Xylenes, Total	0.00613		0.000174	0.00300	1	03/27/2023 15:11	WG2030392
(S) Toluene-d8	*93.3*			*80.0-120*		*03/27/2023 15:11*	WG2030392
(S) 4-Bromofluorobenzene	*86.4*			*77.0-126*		*03/27/2023 15:11*	WG2030392
(S) 1,2-Dichloroethane-d4	*80.6*			*70.0-130*		*03/27/2023 15:11*	WG2030392

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	2.39		0.0247	0.100	1	03/29/2023 11:30	WG2031031
(S) o-Terphenyl	*93.7*			*31.0-160*		*03/29/2023 11:30*	WG2031031

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1320		20.0	1	03/24/2023 10:51	WG2029304

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	27.6		0.379	1.00	1	03/22/2023 23:44	WG2028309
Fluoride	1.25		0.0640	0.150	1	03/22/2023 23:44	WG2028309
Nitrate	U		0.0480	0.100	1	03/22/2023 23:44	WG2028309
Nitrite	U		0.0420	0.100	1	03/22/2023 23:44	WG2028309
Sulfate	723		5.94	50.0	10	03/23/2023 05:37	WG2028309

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0110		0.000180	0.00200	1	03/24/2023 17:46	WG2028573
Arsenic,Dissolved	0.00781		0.000180	0.00200	1	03/24/2023 20:12	WG2028558
Barium	0.0206		0.000381	0.00200	1	03/24/2023 17:46	WG2028573
Barium,Dissolved	0.0159		0.000381	0.00200	1	03/24/2023 20:12	WG2028558
Calcium	190		0.0936	1.00	1	03/24/2023 17:46	WG2028573
Chromium	0.00303		0.00124	0.00200	1	03/24/2023 17:46	WG2028573
Chromium,Dissolved	U		0.00124	0.00200	1	03/24/2023 20:12	WG2028558
Iron	0.552		0.0281	0.100	1	03/24/2023 17:46	WG2028573
Iron,Dissolved	0.210	B	0.0281	0.100	1	03/24/2023 20:12	WG2028558
Lead	U		0.000849	0.00200	1	03/24/2023 17:46	WG2028573
Lead,Dissolved	U		0.000849	0.00200	1	03/24/2023 20:12	WG2028558
Manganese	1.50		0.000704	0.00500	1	03/24/2023 17:46	WG2028573
Manganese,Dissolved	1.49		0.000704	0.00500	1	03/24/2023 20:12	WG2028558
Potassium	0.266	J	0.108	2.00	1	03/24/2023 17:46	WG2028573
Selenium	U		0.000300	0.00200	1	03/24/2023 17:46	WG2028573
Selenium,Dissolved	U		0.000300	0.00200	1	03/24/2023 20:12	WG2028558
Sodium	30.3		0.376	2.00	1	03/24/2023 17:46	WG2028573

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	03/27/2023 15:33	WG2030392
Benzene	0.000173	J	0.0000941	0.00100	1	03/27/2023 15:33	WG2030392
Bromodichloromethane	U		0.000136	0.00100	1	03/27/2023 15:33	WG2030392
Bromoform	U	J3	0.000129	0.00100	1	03/27/2023 15:33	WG2030392
Bromomethane	U	J3	0.000605	0.00500	1	03/27/2023 15:33	WG2030392
n-Butylbenzene	U		0.000157	0.00100	1	03/27/2023 15:33	WG2030392
sec-Butylbenzene	0.000205	J	0.000125	0.00100	1	03/27/2023 15:33	WG2030392
Carbon disulfide	0.000925	J	0.0000962	0.00100	1	03/27/2023 15:33	WG2030392
Carbon tetrachloride	U		0.000128	0.00100	1	03/27/2023 15:33	WG2030392
Chlorobenzene	U		0.000116	0.00100	1	03/27/2023 15:33	WG2030392
Chlorodibromomethane	U		0.000140	0.00100	1	03/27/2023 15:33	WG2030392
Chloroethane	U		0.000192	0.00500	1	03/27/2023 15:33	WG2030392
Chloroform	U		0.000111	0.00500	1	03/27/2023 15:33	WG2030392
Chloromethane	U	J3	0.000960	0.00250	1	03/27/2023 15:33	WG2030392
1,2-Dibromoethane	U	J3	0.000126	0.00100	1	03/27/2023 15:33	WG2030392
1,1-Dichloroethane	U		0.000100	0.00100	1	03/27/2023 15:33	WG2030392
1,2-Dichloroethane	U	J3	0.0000819	0.00100	1	03/27/2023 15:33	WG2030392
1,1-Dichloroethene	U		0.000188	0.00100	1	03/27/2023 15:33	WG2030392
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/27/2023 15:33	WG2030392

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/27/2023 15:33	WG2030392
1,2-Dichloropropane	U		0.000149	0.00100	1	03/27/2023 15:33	WG2030392
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/27/2023 15:33	WG2030392
trans-1,3-Dichloropropene	U	J3	0.000118	0.00100	1	03/27/2023 15:33	WG2030392
Ethylbenzene	U		0.000137	0.00100	1	03/27/2023 15:33	WG2030392
Isopropylbenzene	0.000391	J	0.000105	0.00100	1	03/27/2023 15:33	WG2030392
p-Isopropyltoluene	U		0.000120	0.00100	1	03/27/2023 15:33	WG2030392
2-Butanone (MEK)	U	J3	0.00119	0.0100	1	03/27/2023 15:33	WG2030392
2-Hexanone	U	J3	0.000787	0.0100	1	03/27/2023 15:33	WG2030392
Methylene Chloride	U	J4	0.000430	0.00500	1	03/27/2023 15:33	WG2030392
4-Methyl-2-pentanone (MIBK)	U	J3 J4	0.000478	0.0100	1	03/27/2023 15:33	WG2030392
Methyl tert-butyl ether	U	J3	0.000101	0.00100	1	03/27/2023 15:33	WG2030392
Naphthalene	0.00104	J J3 J4	0.00100	0.00500	1	03/27/2023 15:33	WG2030392
n-Propylbenzene	0.000333	J	0.0000993	0.00100	1	03/27/2023 15:33	WG2030392
Styrene	U		0.000118	0.00100	1	03/27/2023 15:33	WG2030392
tert-Butyl alcohol	U		0.00406	0.00500	1	03/27/2023 15:33	WG2030392
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/27/2023 15:33	WG2030392
1,1,2,2-Tetrachloroethane	U	J3	0.000133	0.00100	1	03/27/2023 15:33	WG2030392
Tetrachloroethene	U		0.000300	0.00100	1	03/27/2023 15:33	WG2030392
Toluene	U		0.000278	0.00100	1	03/27/2023 15:33	WG2030392
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/27/2023 15:33	WG2030392
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/27/2023 15:33	WG2030392
Trichloroethene	U		0.000190	0.00100	1	03/27/2023 15:33	WG2030392
1,2,4-Trimethylbenzene	0.000380	J	0.000322	0.00100	1	03/27/2023 15:33	WG2030392
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/27/2023 15:33	WG2030392
Vinyl chloride	U		0.000234	0.00100	1	03/27/2023 15:33	WG2030392
o-Xylene	U		0.000174	0.00100	1	03/27/2023 15:33	WG2030392
m&p-Xylene	U		0.000430	0.00200	1	03/27/2023 15:33	WG2030392
Xylenes, Total	U		0.000174	0.00300	1	03/27/2023 15:33	WG2030392
(S) Toluene-d8	*96.3*			*80.0-120*		*03/27/2023 15:33*	WG2030392
(S) 4-Bromofluorobenzene	*86.5*			*77.0-126*		*03/27/2023 15:33*	WG2030392
(S) 1,2-Dichloroethane-d4	*84.2*			*70.0-130*		*03/27/2023 15:33*	WG2030392

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	0.337	B	0.0247	0.100	1	03/29/2023 15:12	WG2031031
(S) o-Terphenyl	*77.9*			*31.0-160*		*03/29/2023 15:12*	WG2031031

MW-33
Collected date/time: 03/21/23 10:15
L1597201

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	1930		50.0	1	03/24/2023 10:51	WG2029304

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	03/26/2023 19:02	WG2028779

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	391		3.79	10.0	10	03/23/2023 04:51	WG2028210
Fluoride	1.36		0.0640	0.150	1	03/23/2023 00:21	WG2028210
Nitrate	U		0.0480	0.100	1	03/23/2023 00:21	WG2028210
Nitrite	U		0.0420	0.100	1	03/23/2023 00:21	WG2028210
Sulfate	646		5.94	50.0	10	03/23/2023 04:51	WG2028210

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	03/25/2023 10:47	WG2028364
Mercury,Dissolved	U		0.000100	0.000200	1	03/25/2023 11:30	WG2028366

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Boron	0.586		0.0200	0.200	1	03/23/2023 23:23	WG2028566
Boron,Dissolved	0.549		0.0200	0.200	1	03/24/2023 15:43	WG2028557

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00642		0.000180	0.00200	1	03/24/2023 17:49	WG2028573
Arsenic,Dissolved	0.00635		0.000180	0.00200	1	03/24/2023 20:15	WG2028558
Barium	0.0152		0.000381	0.00200	1	03/24/2023 17:49	WG2028573
Barium,Dissolved	0.0152		0.000381	0.00200	1	03/24/2023 20:15	WG2028558
Cadmium	U		0.000150	0.00100	1	03/24/2023 17:49	WG2028573
Cadmium,Dissolved	U		0.000150	0.00100	1	03/24/2023 20:15	WG2028558
Calcium	248		0.0936	1.00	1	03/24/2023 17:49	WG2028573
Chromium	0.00135	J	0.00124	0.00200	1	03/24/2023 17:49	WG2028573
Chromium,Dissolved	U		0.00124	0.00200	1	03/24/2023 20:15	WG2028558
Cobalt	0.000325	J	0.0000596	0.00200	1	03/24/2023 17:49	WG2028573
Cobalt,Dissolved	0.000320	J	0.0000596	0.00200	1	03/24/2023 20:15	WG2028558
Iron	U		0.0281	0.100	1	03/24/2023 17:49	WG2028573
Iron,Dissolved	U		0.0281	0.100	1	03/24/2023 20:15	WG2028558
Lead	U		0.000849	0.00200	1	03/24/2023 17:49	WG2028573
Lead,Dissolved	U		0.000849	0.00200	1	03/24/2023 20:15	WG2028558
Manganese	0.212		0.000704	0.00500	1	03/24/2023 17:49	WG2028573
Manganese,Dissolved	0.211		0.000704	0.00500	1	03/24/2023 20:15	WG2028558
Nickel	0.00636		0.000816	0.00200	1	03/24/2023 17:49	WG2028573
Nickel,Dissolved	0.00627		0.000816	0.00200	1	03/24/2023 20:15	WG2028558
Potassium	0.577	J	0.108	2.00	1	03/24/2023 17:49	WG2028573
Selenium	0.00160	J	0.000300	0.00200	1	03/24/2023 17:49	WG2028573
Selenium,Dissolved	0.00136	J	0.000300	0.00200	1	03/24/2023 20:15	WG2028558

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Sodium	219		0.376	2.00	1	03/24/2023 17:49	WG2028573
Uranium	0.0211		0.0000789	0.00100	1	03/24/2023 17:49	WG2028573
Uranium,Dissolved	0.0198		0.0000789	0.00100	1	03/24/2023 20:15	WG2028558
Vanadium	0.0179		0.000664	0.00500	1	03/24/2023 17:49	WG2028573
Vanadium,Dissolved	0.0173		0.000664	0.00500	1	03/24/2023 20:15	WG2028558

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	0.479		0.0314	0.100	1	03/26/2023 02:17	WG2030121
(S) a,a,a-Trifluorotoluene(FID)	*109*			*78.0-120*		*03/26/2023 02:17*	WG2030121

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	03/27/2023 15:54	WG2030392
Benzene	0.0000977	J	0.0000941	0.00100	1	03/27/2023 15:54	WG2030392
Bromodichloromethane	U		0.000136	0.00100	1	03/27/2023 15:54	WG2030392
Bromoform	U	J3	0.000129	0.00100	1	03/27/2023 15:54	WG2030392
Bromomethane	U	J3	0.000605	0.00500	1	03/27/2023 15:54	WG2030392
n-Butylbenzene	U		0.000157	0.00100	1	03/27/2023 15:54	WG2030392
sec-Butylbenzene	U		0.000125	0.00100	1	03/27/2023 15:54	WG2030392
Carbon disulfide	0.000614	J	0.0000962	0.00100	1	03/27/2023 15:54	WG2030392
Carbon tetrachloride	U		0.000128	0.00100	1	03/27/2023 15:54	WG2030392
Chlorobenzene	U		0.000116	0.00100	1	03/27/2023 15:54	WG2030392
Chlorodibromomethane	U		0.000140	0.00100	1	03/27/2023 15:54	WG2030392
Chloroethane	U		0.000192	0.00500	1	03/27/2023 15:54	WG2030392
Chloroform	U		0.000111	0.00500	1	03/27/2023 15:54	WG2030392
Chloromethane	U	J3	0.000960	0.00250	1	03/27/2023 15:54	WG2030392
1,2-Dibromoethane	U	J3	0.000126	0.00100	1	03/27/2023 15:54	WG2030392
1,1-Dichloroethane	U		0.000100	0.00100	1	03/27/2023 15:54	WG2030392
1,2-Dichloroethane	U	J3	0.0000819	0.00100	1	03/27/2023 15:54	WG2030392
1,1-Dichloroethene	U		0.000188	0.00100	1	03/27/2023 15:54	WG2030392
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/27/2023 15:54	WG2030392
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/27/2023 15:54	WG2030392
1,2-Dichloropropane	U		0.000149	0.00100	1	03/27/2023 15:54	WG2030392
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/27/2023 15:54	WG2030392
trans-1,3-Dichloropropene	U	J3	0.000118	0.00100	1	03/27/2023 15:54	WG2030392
Ethylbenzene	U		0.000137	0.00100	1	03/27/2023 15:54	WG2030392
Isopropylbenzene	U		0.000105	0.00100	1	03/27/2023 15:54	WG2030392
p-Isopropyltoluene	U		0.000120	0.00100	1	03/27/2023 15:54	WG2030392
2-Butanone (MEK)	U	J3	0.00119	0.0100	1	03/27/2023 15:54	WG2030392
2-Hexanone	U	J3	0.000787	0.0100	1	03/27/2023 15:54	WG2030392
Methylene Chloride	U	J4	0.000430	0.00500	1	03/27/2023 15:54	WG2030392
4-Methyl-2-pentanone (MIBK)	U	J3 J4	0.000478	0.0100	1	03/27/2023 15:54	WG2030392
Methyl tert-butyl ether	0.357		0.00101	0.0100	10	03/29/2023 03:17	WG2031544
Naphthalene	U	J3 J4	0.00100	0.00500	1	03/27/2023 15:54	WG2030392
n-Propylbenzene	U		0.0000993	0.00100	1	03/27/2023 15:54	WG2030392
Styrene	U		0.000118	0.00100	1	03/27/2023 15:54	WG2030392
tert-Butyl alcohol	0.111		0.00406	0.00500	1	03/27/2023 15:54	WG2030392
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/27/2023 15:54	WG2030392
1,1,2,2-Tetrachloroethane	U	J3	0.000133	0.00100	1	03/27/2023 15:54	WG2030392
Tetrachloroethene	U		0.000300	0.00100	1	03/27/2023 15:54	WG2030392
Toluene	U		0.000278	0.00100	1	03/27/2023 15:54	WG2030392
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/27/2023 15:54	WG2030392

MW-33
Collected date/time: 03/21/23 10:15
L1597201

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/27/2023 15:54	WG2030392
Trichloroethene	U		0.000190	0.00100	1	03/27/2023 15:54	WG2030392
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/27/2023 15:54	WG2030392
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/27/2023 15:54	WG2030392
Vinyl chloride	U		0.000234	0.00100	1	03/27/2023 15:54	WG2030392
o-Xylene	U		0.000174	0.00100	1	03/27/2023 15:54	WG2030392
m&p-Xylene	U		0.000430	0.00200	1	03/27/2023 15:54	WG2030392
Xylenes, Total	U		0.000174	0.00300	1	03/27/2023 15:54	WG2030392
(S) Toluene-d8	*97.5*			*80.0-120*		*03/27/2023 15:54*	WG2030392
(S) Toluene-d8	*102*			*80.0-120*		*03/29/2023 03:17*	WG2031544
(S) 4-Bromofluorobenzene	*86.0*			*77.0-126*		*03/27/2023 15:54*	WG2030392
(S) 4-Bromofluorobenzene	*95.0*			*77.0-126*		*03/29/2023 03:17*	WG2031544
(S) 1,2-Dichloroethane-d4	*85.6*			*70.0-130*		*03/27/2023 15:54*	WG2030392
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*03/29/2023 03:17*	WG2031544

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	1.05		0.0247	0.100	1	03/29/2023 12:14	WG2031031
(S) o-Terphenyl	*86.3*			*31.0-160*		*03/29/2023 12:14*	WG2031031

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	2200		50.0	1	03/24/2023 10:51	WG2029304

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		0.00360	0.0100	2	03/26/2023 19:18	WG2028779

Sample Narrative:

L1597201-76 WG2028779: Dilution due to matrix.

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	200		3.79	10.0	10	03/23/2023 00:00	WG2028309
Fluoride	1.63		0.640	1.50	10	03/23/2023 00:00	WG2028309
Nitrate	6.45		0.480	1.00	10	03/23/2023 00:00	WG2028309
Nitrate	10.8	Q	0.480	1.00	10	03/28/2023 05:48	WG2030997
Nitrite	U		0.420	1.00	10	03/23/2023 00:00	WG2028309
Sulfate	1120		5.94	50.0	10	03/23/2023 00:00	WG2028309

Sample Narrative:

L1597201-76 WG2030997: Nitrate reporting twice due to QC failure.

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	03/25/2023 10:49	WG2028364
Mercury,Dissolved	U		0.000100	0.000200	1	03/25/2023 11:38	WG2028366

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Boron	1.91		0.0200	0.200	1	03/23/2023 23:26	WG2028566
Boron,Dissolved	1.82		0.0200	0.200	1	03/24/2023 15:57	WG2028557

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00298		0.000180	0.00200	1	03/24/2023 17:56	WG2028573
Arsenic,Dissolved	0.00287		0.000180	0.00200	1	03/24/2023 20:18	WG2028558
Barium	0.0137		0.000381	0.00200	1	03/24/2023 17:56	WG2028573
Barium,Dissolved	0.0137		0.000381	0.00200	1	03/24/2023 20:18	WG2028558
Cadmium	U		0.000150	0.00100	1	03/24/2023 17:56	WG2028573
Cadmium,Dissolved	U		0.000150	0.00100	1	03/24/2023 20:18	WG2028558
Calcium	400		0.0936	1.00	1	03/24/2023 17:56	WG2028573
Chromium	0.00139	J	0.00124	0.00200	1	03/24/2023 17:56	WG2028573
Chromium,Dissolved	U		0.00124	0.00200	1	03/24/2023 20:18	WG2028558
Cobalt	0.0000634	J	0.0000596	0.00200	1	03/24/2023 17:56	WG2028573
Cobalt,Dissolved	0.0000811	J	0.0000596	0.00200	1	03/24/2023 20:18	WG2028558
Iron	U		0.0281	0.100	1	03/24/2023 17:56	WG2028573
Iron,Dissolved	U		0.0281	0.100	1	03/24/2023 20:18	WG2028558
Lead	U		0.000849	0.00200	1	03/24/2023 17:56	WG2028573
Lead,Dissolved	0.00288		0.000849	0.00200	1	03/24/2023 20:18	WG2028558

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Manganese	0.00419	J	0.000704	0.00500	1	03/24/2023 17:56	WG2028573
Manganese,Dissolved	0.00294	J	0.000704	0.00500	1	03/24/2023 20:18	WG2028558
Nickel	0.00144	J	0.000816	0.00200	1	03/24/2023 17:56	WG2028573
Nickel,Dissolved	0.00141	J	0.000816	0.00200	1	03/24/2023 20:18	WG2028558
Potassium	1.72	J	0.108	2.00	1	03/24/2023 17:56	WG2028573
Selenium	0.00506		0.000300	0.00200	1	03/24/2023 17:56	WG2028573
Selenium,Dissolved	0.00486		0.000300	0.00200	1	03/24/2023 20:18	WG2028558
Sodium	60.3		0.376	2.00	1	03/24/2023 17:56	WG2028573
Uranium	0.0419		0.0000789	0.00100	1	03/24/2023 17:56	WG2028573
Uranium,Dissolved	0.0405		0.0000789	0.00100	1	03/24/2023 20:18	WG2028558
Vanadium	0.0181		0.000664	0.00500	1	03/24/2023 17:56	WG2028573
Vanadium,Dissolved	0.0176		0.000664	0.00500	1	03/24/2023 20:18	WG2028558

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	03/27/2023 16:16	WG2030392
Benzene	U		0.0000941	0.00100	1	03/27/2023 16:16	WG2030392
Bromodichloromethane	U		0.000136	0.00100	1	03/27/2023 16:16	WG2030392
Bromoform	U	J3	0.000129	0.00100	1	03/27/2023 16:16	WG2030392
Bromomethane	U	J3	0.000605	0.00500	1	03/27/2023 16:16	WG2030392
n-Butylbenzene	U		0.000157	0.00100	1	03/27/2023 16:16	WG2030392
sec-Butylbenzene	U		0.000125	0.00100	1	03/27/2023 16:16	WG2030392
Carbon disulfide	0.000480	J	0.0000962	0.00100	1	03/27/2023 16:16	WG2030392
Carbon tetrachloride	U		0.000128	0.00100	1	03/27/2023 16:16	WG2030392
Chlorobenzene	U		0.000116	0.00100	1	03/27/2023 16:16	WG2030392
Chlorodibromomethane	U		0.000140	0.00100	1	03/27/2023 16:16	WG2030392
Chloroethane	U		0.000192	0.00500	1	03/27/2023 16:16	WG2030392
Chloroform	U		0.000111	0.00500	1	03/27/2023 16:16	WG2030392
Chloromethane	U	J3	0.000960	0.00250	1	03/27/2023 16:16	WG2030392
1,2-Dibromoethane	U	J3	0.000126	0.00100	1	03/27/2023 16:16	WG2030392
1,1-Dichloroethane	U		0.000100	0.00100	1	03/27/2023 16:16	WG2030392
1,2-Dichloroethane	U	J3	0.0000819	0.00100	1	03/27/2023 16:16	WG2030392
1,1-Dichloroethene	U		0.000188	0.00100	1	03/27/2023 16:16	WG2030392
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/27/2023 16:16	WG2030392
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/27/2023 16:16	WG2030392
1,2-Dichloropropane	U		0.000149	0.00100	1	03/27/2023 16:16	WG2030392
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/27/2023 16:16	WG2030392
trans-1,3-Dichloropropene	U	J3	0.000118	0.00100	1	03/27/2023 16:16	WG2030392
Ethylbenzene	U		0.000137	0.00100	1	03/27/2023 16:16	WG2030392
Isopropylbenzene	U		0.000105	0.00100	1	03/27/2023 16:16	WG2030392
p-Isopropyltoluene	U		0.000120	0.00100	1	03/27/2023 16:16	WG2030392
2-Butanone (MEK)	U	J3	0.00119	0.0100	1	03/27/2023 16:16	WG2030392
2-Hexanone	U	J3	0.000787	0.0100	1	03/27/2023 16:16	WG2030392
Methylene Chloride	U	J4	0.000430	0.00500	1	03/27/2023 16:16	WG2030392
4-Methyl-2-pentanone (MIBK)	U	J3 J4	0.000478	0.0100	1	03/27/2023 16:16	WG2030392
Methyl tert-butyl ether	0.000201	J	0.000101	0.00100	1	03/29/2023 01:22	WG2031544
Naphthalene	U	J3 J4	0.00100	0.00500	1	03/27/2023 16:16	WG2030392
n-Propylbenzene	U		0.0000993	0.00100	1	03/27/2023 16:16	WG2030392
Styrene	U		0.000118	0.00100	1	03/27/2023 16:16	WG2030392
tert-Butyl alcohol	U		0.00406	0.00500	1	03/27/2023 16:16	WG2030392
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/27/2023 16:16	WG2030392
1,1,2,2-Tetrachloroethane	U	J3	0.000133	0.00100	1	03/27/2023 16:16	WG2030392
Tetrachloroethene	U		0.000300	0.00100	1	03/27/2023 16:16	WG2030392
Toluene	U		0.000278	0.00100	1	03/27/2023 16:16	WG2030392
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/27/2023 16:16	WG2030392

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/27/2023 16:16	WG2030392
Trichloroethene	U		0.000190	0.00100	1	03/27/2023 16:16	WG2030392
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/27/2023 16:16	WG2030392
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/27/2023 16:16	WG2030392
Vinyl chloride	U		0.000234	0.00100	1	03/27/2023 16:16	WG2030392
o-Xylene	U		0.000174	0.00100	1	03/27/2023 16:16	WG2030392
m&p-Xylene	U		0.000430	0.00200	1	03/27/2023 16:16	WG2030392
Xylenes, Total	U		0.000174	0.00300	1	03/27/2023 16:16	WG2030392
(S) Toluene-d8	*97.4*			*80.0-120*		*03/27/2023 16:16*	WG2030392
(S) Toluene-d8	*103*			*80.0-120*		*03/29/2023 01:22*	WG2031544
(S) 4-Bromofluorobenzene	*89.4*			*77.0-126*		*03/27/2023 16:16*	WG2030392
(S) 4-Bromofluorobenzene	*91.5*			*77.0-126*		*03/29/2023 01:22*	WG2031544
(S) 1,2-Dichloroethane-d4	*88.6*			*70.0-130*		*03/27/2023 16:16*	WG2030392
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*03/29/2023 01:22*	WG2031544

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	1.18		0.0247	0.100	1	03/29/2023 10:23	WG2031031
(S) o-Terphenyl	*89.5*			*31.0-160*		*03/29/2023 10:23*	WG2031031

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1760		25.0	1	03/24/2023 10:51	WG2029304

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	66.5		3.79	10.0	10	03/23/2023 13:49	WG2028377
Fluoride	1.87	B	0.640	1.50	10	03/23/2023 13:49	WG2028377
Nitrate	1.23		0.480	1.00	10	03/23/2023 13:49	WG2028377
Nitrite	U		0.420	1.00	10	03/23/2023 13:49	WG2028377
Sulfate	1030		5.94	50.0	10	03/23/2023 13:49	WG2028377

Sample Narrative:

L1597201-77 WG2028377: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00165	J	0.000180	0.00200	1	03/24/2023 17:59	WG2028573
Arsenic,Dissolved	0.00172	J	0.000180	0.00200	1	03/24/2023 20:22	WG2028558
Barium	0.0179		0.000381	0.00200	1	03/24/2023 17:59	WG2028573
Barium,Dissolved	0.0177		0.000381	0.00200	1	03/24/2023 20:22	WG2028558
Calcium	295		0.0936	1.00	1	03/24/2023 17:59	WG2028573
Chromium	U		0.00124	0.00200	1	03/24/2023 17:59	WG2028573
Chromium,Dissolved	U		0.00124	0.00200	1	03/24/2023 20:22	WG2028558
Iron	0.0304	J	0.0281	0.100	1	03/24/2023 17:59	WG2028573
Iron,Dissolved	0.0985	B J	0.0281	0.100	1	03/24/2023 20:22	WG2028558
Lead	U		0.000849	0.00200	1	03/24/2023 17:59	WG2028573
Lead,Dissolved	U		0.000849	0.00200	1	03/24/2023 20:22	WG2028558
Manganese	0.411		0.000704	0.00500	1	03/24/2023 17:59	WG2028573
Manganese,Dissolved	0.374		0.000704	0.00500	1	03/24/2023 20:22	WG2028558
Potassium	1.88	J	0.108	2.00	1	03/24/2023 17:59	WG2028573
Selenium	U		0.000300	0.00200	1	03/24/2023 17:59	WG2028573
Selenium,Dissolved	0.000312	J	0.000300	0.00200	1	03/24/2023 20:22	WG2028558
Sodium	75.7		0.376	2.00	1	03/24/2023 17:59	WG2028573

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	03/27/2023 16:38	WG2030392
Benzene	U		0.0000941	0.00100	1	03/27/2023 16:38	WG2030392
Bromodichloromethane	U		0.000136	0.00100	1	03/27/2023 16:38	WG2030392
Bromoform	U	J3	0.000129	0.00100	1	03/27/2023 16:38	WG2030392
Bromomethane	U	J3	0.000605	0.00500	1	03/27/2023 16:38	WG2030392
n-Butylbenzene	U		0.000157	0.00100	1	03/27/2023 16:38	WG2030392
sec-Butylbenzene	U		0.000125	0.00100	1	03/27/2023 16:38	WG2030392
Carbon disulfide	0.000357	J	0.0000962	0.00100	1	03/27/2023 16:38	WG2030392
Carbon tetrachloride	U		0.000128	0.00100	1	03/27/2023 16:38	WG2030392
Chlorobenzene	U		0.000116	0.00100	1	03/27/2023 16:38	WG2030392
Chlorodibromomethane	U		0.000140	0.00100	1	03/27/2023 16:38	WG2030392
Chloroethane	U		0.000192	0.00500	1	03/27/2023 16:38	WG2030392
Chloroform	U		0.000111	0.00500	1	03/27/2023 16:38	WG2030392
Chloromethane	U	J3	0.000960	0.00250	1	03/27/2023 16:38	WG2030392
1,2-Dibromoethane	U	J3	0.000126	0.00100	1	03/27/2023 16:38	WG2030392
1,1-Dichloroethane	U		0.000100	0.00100	1	03/27/2023 16:38	WG2030392

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	J3	0.0000819	0.00100	1	03/27/2023 16:38	WG2030392
1,1-Dichloroethene	U		0.000188	0.00100	1	03/27/2023 16:38	WG2030392
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/27/2023 16:38	WG2030392
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/27/2023 16:38	WG2030392
1,2-Dichloropropane	U		0.000149	0.00100	1	03/27/2023 16:38	WG2030392
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/27/2023 16:38	WG2030392
trans-1,3-Dichloropropene	U	J3	0.000118	0.00100	1	03/27/2023 16:38	WG2030392
Ethylbenzene	U		0.000137	0.00100	1	03/27/2023 16:38	WG2030392
Isopropylbenzene	U		0.000105	0.00100	1	03/27/2023 16:38	WG2030392
p-Isopropyltoluene	U		0.000120	0.00100	1	03/27/2023 16:38	WG2030392
2-Butanone (MEK)	U	J3	0.00119	0.0100	1	03/27/2023 16:38	WG2030392
2-Hexanone	U	J3	0.000787	0.0100	1	03/27/2023 16:38	WG2030392
Methylene Chloride	U	J4	0.000430	0.00500	1	03/27/2023 16:38	WG2030392
4-Methyl-2-pentanone (MIBK)	U	J3 J4	0.000478	0.0100	1	03/27/2023 16:38	WG2030392
Methyl tert-butyl ether	U	J3	0.000101	0.00100	1	03/27/2023 16:38	WG2030392
Naphthalene	U	J3 J4	0.00100	0.00500	1	03/27/2023 16:38	WG2030392
n-Propylbenzene	U		0.0000993	0.00100	1	03/27/2023 16:38	WG2030392
Styrene	U		0.000118	0.00100	1	03/27/2023 16:38	WG2030392
tert-Butyl alcohol	U		0.00406	0.00500	1	03/27/2023 16:38	WG2030392
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/27/2023 16:38	WG2030392
1,1,2,2-Tetrachloroethane	U	J3	0.000133	0.00100	1	03/27/2023 16:38	WG2030392
Tetrachloroethene	U		0.000300	0.00100	1	03/27/2023 16:38	WG2030392
Toluene	U		0.000278	0.00100	1	03/27/2023 16:38	WG2030392
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/27/2023 16:38	WG2030392
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/27/2023 16:38	WG2030392
Trichloroethene	U		0.000190	0.00100	1	03/27/2023 16:38	WG2030392
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/27/2023 16:38	WG2030392
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/27/2023 16:38	WG2030392
Vinyl chloride	U		0.000234	0.00100	1	03/27/2023 16:38	WG2030392
o-Xylene	U		0.000174	0.00100	1	03/27/2023 16:38	WG2030392
m&p-Xylene	U		0.000430	0.00200	1	03/27/2023 16:38	WG2030392
Xylenes, Total	U		0.000174	0.00300	1	03/27/2023 16:38	WG2030392
(S) Toluene-d8	*97.9*			*80.0-120*		*03/27/2023 16:38*	WG2030392
(S) 4-Bromofluorobenzene	*86.3*			*77.0-126*		*03/27/2023 16:38*	WG2030392
(S) 1,2-Dichloroethane-d4	*84.3*			*70.0-130*		*03/27/2023 16:38*	WG2030392

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	0.179	B	0.0247	0.100	1	03/31/2023 13:28	WG2031031
(S) o-Terphenyl	*126*			*31.0-160*		*03/31/2023 13:28*	WG2031031

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	03/23/2023 12:40	WG2027707
(S) Nitrobenzene-d5	*41.8*			*10.0-120*		*03/23/2023 12:40*	WG2027707

Method Blank (MB)

(MB) R3905990-1 03/23/23 22:05

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1595838-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1595838-08 03/23/23 22:05 • (DUP) R3905990-3 03/23/23 22:05

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

L1597201-14 Original Sample (OS) • Duplicate (DUP)

(OS) L1597201-14 03/23/23 22:05 • (DUP) R3905990-4 03/23/23 22:05

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	2820	3080	1	8.99	J3	5

Laboratory Control Sample (LCS)

(LCS) R3905990-2 03/23/23 22:05

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8200	93.2	77.3-123	

Method Blank (MB)

(MB) R3905974-1 03/23/23 23:29

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1597201-20 Original Sample (OS) • Duplicate (DUP)

(OS) L1597201-20 03/23/23 23:29 • (DUP) R3905974-3 03/23/23 23:29

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

L1597201-30 Original Sample (OS) • Duplicate (DUP)

(OS) L1597201-30 03/23/23 23:29 • (DUP) R3905974-4 03/23/23 23:29

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) R3905974-2 03/23/23 23:29

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	9080	103	77.3-123	

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Method Blank (MB)

(MB) R3905993-1 03/23/23 22:45

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1597201-57 Original Sample (OS) • Duplicate (DUP)

(OS) L1597201-57 03/23/23 22:45 • (DUP) R3905993-3 03/23/23 22:45

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	1390	1170	1	17.7	J3	5

L1597201-64 Original Sample (OS) • Duplicate (DUP)

(OS) L1597201-64 03/23/23 22:45 • (DUP) R3905993-4 03/23/23 22:45

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	1200	998	1	18.7	J3	5

Laboratory Control Sample (LCS)

(LCS) R3905993-2 03/23/23 22:45

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	7800	88.6	77.3-123	

Released to Imaging: 6/28/2024 11:23:28 AM

Method Blank (MB)

(MB) R3905911-1 03/24/23 10:51

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1597009-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1597009-01 03/24/23 10:51 • (DUP) R3905911-3 03/24/23 10:51

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	510	507	1	0.590		5

L1597041-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1597041-02 03/24/23 10:51 • (DUP) R3905911-4 03/24/23 10:51

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	416	465	1	11.1	J3	5

Laboratory Control Sample (LCS)

(LCS) R3905911-2 03/24/23 10:51

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8570	97.4	77.3-123	

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Method Blank (MB)

(MB) R3905539-1 03/26/23 18:32

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Cyanide	U		0.00180	0.00500

L1597146-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1597146-06 03/26/23 18:43 • (DUP) R3905539-3 03/26/23 18:45

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	0.105	0.105	1	0.000		20

L1597201-41 Original Sample (OS) • Duplicate (DUP)

(OS) L1597201-41 03/26/23 18:49 • (DUP) R3905539-4 03/26/23 18:50

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) R3905539-2 03/26/23 18:33

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Cyanide	0.100	0.0952	95.2	87.1-120	

L1597357-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597357-01 03/26/23 19:13 • (MS) R3905539-5 03/26/23 19:15 • (MSD) R3905539-6 03/26/23 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 %
Cyanide	0.100	U	0.101	0.0946	101	94.6	1	90.0-110			6.54	20

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Method Blank (MB)

(MB) R3905740-1 03/27/23 10:48

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Cyanide	U		0.00180	0.00500

L1597083-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1597083-02 03/27/23 10:57 • (DUP) R3905740-3 03/27/23 10:58

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	0.00239	U	1	200	P1	20

L1597529-78 Original Sample (OS) • Duplicate (DUP)

(OS) L1597529-78 03/27/23 11:17 • (DUP) R3905740-6 03/27/23 11:19

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) R3905740-2 03/27/23 10:50

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Cyanide	0.100	0.101	101	87.1-120	

L1597317-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597317-01 03/27/23 11:06 • (MS) R3905740-4 03/27/23 11:07 • (MSD) R3905740-5 03/27/23 11:09

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 %
Cyanide	0.100	0.00203	0.0938	0.0951	91.8	93.1	1	90.0-110			1.38	20

Method Blank (MB)

(MB) R3905529-1 03/22/23 09:59

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	0.706	J	0.379	1.00
Fluoride	U		0.0640	0.150
Nitrate	U		0.0480	0.100
Nitrite	U		0.0420	0.100
Sulfate	U		0.594	5.00

L1596788-15 Original Sample (OS) • Duplicate (DUP)

(OS) L1596788-15 03/22/23 20:45 • (DUP) R3905529-3 03/23/23 02:09

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	27.1	27.2	1	0.531		15
Nitrate	0.855	1.04	1	19.2	J3	15

L1596788-19 Original Sample (OS) • Duplicate (DUP)

(OS) L1596788-19 03/22/23 21:39 • (DUP) R3905529-6 03/23/23 02:50

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	14.2	14.1	1	0.420		15
Nitrate	4.66	4.65	1	0.254		15

Laboratory Control Sample (LCS)

(LCS) R3905529-2 03/22/23 10:12

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	39.8	99.6	80.0-120	
Fluoride	8.00	8.31	104	80.0-120	
Nitrate	8.00	7.65	95.7	80.0-120	
Nitrite	8.00	8.13	102	80.0-120	
Sulfate	40.0	39.8	99.5	80.0-120	

Received by OCD: 6/12/2024 3:31:05 PM

Wet Chemistry by Method 9056A
L1597201-03,13,36,38,44,48,56,58,66,75

L1596788-15 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1596788-15 03/22/23 20:45 • (MS) R3905529-4 03/23/23 02:23 • (MSD) R3905529-5 03/23/23 02:36

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 %
Chloride	50.0	27.1	75.4	75.2	96.5	96.3	1	80.0-120			0.172	15
Nitrate	5.00	0.855	5.91	5.91	101	101	1	80.0-120			0.00169	15

L1596788-19 Original Sample (OS) • Matrix Spike (MS)

(OS) L1596788-19 03/22/23 21:39 • (MS) R3905529-7 03/23/23 03:03

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	14.2	63.0	97.5	1	80.0-120	
Nitrate	5.00	4.66	10.0	107	1	80.0-120	

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Method Blank (MB)

(MB) R3906002-1 03/22/23 18:26

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
Nitrate	U		0.0480	0.100
Nitrite	U		0.0420	0.100
Sulfate	U		0.594	5.00

L1597201-69 Original Sample (OS) • Duplicate (DUP)

(OS) L1597201-69 03/23/23 01:36 • (DUP) R3906002-3 03/23/23 01:54

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	146	146	1	0.292		15
Fluoride	1.04	1.23	1	17.1	J3	15
Nitrate	U	U	1	0.000		15
Nitrite	0.200	0.0649	1	102	J P1	15
Sulfate	117	117	1	0.365		15

L1597201-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1597201-02 03/22/23 19:45 • (DUP) R3906002-5 03/23/23 07:28

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	1420	1410	10	0.489		15
Fluoride	0.848	0.780	10	8.33	J	15
Nitrate	U	U	10	0.000		15
Nitrite	0.644	0.648	10	0.557	J	15
Sulfate	1670	1640	10	1.72		15

Sample Narrative:

OS: Dilution due to matrix.

Laboratory Control Sample (LCS)

(LCS) R3906002-2 03/22/23 18:41

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	8.06	101	80.0-120	
Nitrate	8.00	7.58	94.8	80.0-120	
Nitrite	8.00	7.97	99.7	80.0-120	
Sulfate	40.0	38.4	96.1	80.0-120	

L1597201-69 Original Sample (OS) • Matrix Spike (MS)

(OS) L1597201-69 03/23/23 01:36 • (MS) R3906002-4 03/23/23 02:10

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	146	187	82.6	1	80.0-120	
Fluoride	5.00	1.04	5.78	94.9	1	80.0-120	
Nitrate	5.00	U	4.49	89.8	1	80.0-120	
Nitrite	5.00	0.200	8.13	159	1	80.0-120	J5
Sulfate	50.0	117	162	89.4	1	80.0-120	

L1597201-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597201-02 03/22/23 19:45 • (MS) R3906002-6 03/23/23 07:44 • (MSD) R3906002-7 03/23/23 08:00

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 %
Chloride	50.0	1420	1390	1380	0.000	0.000	10	80.0-120	V	V	0.227	15
Fluoride	5.00	0.848	5.36	5.55	90.2	94.0	10	80.0-120			3.47	15
Nitrate	5.00	U	4.52	4.80	90.4	96.1	10	80.0-120			6.14	15
Nitrite	5.00	0.644	4.21	4.20	71.4	71.1	10	80.0-120	J6	J6	0.326	15
Sulfate	50.0	1670	1600	1620	0.000	0.000	10	80.0-120	V	V	1.09	15

Sample Narrative:

OS: Dilution due to matrix.

Method Blank (MB)

(MB) R3905481-1 03/22/23 16:39

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
Nitrate	U		0.0480	0.100
Nitrite	U		0.0420	0.100
Sulfate	U		0.594	5.00

L1597201-60 Original Sample (OS) • Duplicate (DUP)

(OS) L1597201-60 03/23/23 04:37 • (DUP) R3905481-3 03/23/23 10:44

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Fluoride	0.900	0.832	1	7.84		15
Nitrate	U	U	1	0.000		15
Nitrite	U	U	1	0.000		15
Sulfate	111	118	1	6.14		15

L1597201-60 Original Sample (OS) • Duplicate (DUP)

(OS) L1597201-60 03/23/23 12:03 • (DUP) R3905481-6 03/23/23 12:19

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	338	337	10	0.141		15

L1597201-65 Original Sample (OS) • Duplicate (DUP)

(OS) L1597201-65 03/23/23 05:41 • (DUP) R3905481-7 03/23/23 12:51

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Fluoride	1.05	0.958	1	9.10		15
Nitrate	U	U	1	0.000		15
Nitrite	U	U	1	0.000		15
Sulfate	3.45	3.59	1	4.07	J	15

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L1597201-65 Original Sample (OS) • Duplicate (DUP)

(OS) L1597201-65 03/23/23 13:23 • (DUP) R3905481-9 03/23/23 13:39

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	309	310	10	0.408		15

Laboratory Control Sample (LCS)

(LCS) R3905481-2 03/22/23 16:55

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	40.4	101	80.0-120	
Fluoride	8.00	8.32	104	80.0-120	
Nitrate	8.00	7.95	99.4	80.0-120	
Nitrite	8.00	8.28	103	80.0-120	
Sulfate	40.0	40.7	102	80.0-120	

L1597201-60 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597201-60 03/23/23 04:37 • (MS) R3905481-4 03/23/23 11:00 • (MSD) R3905481-5 03/23/23 11:16

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 %
Chloride	50.0	338	369	369	61.7	62.8	1	80.0-120	E V	E V	0.149	15
Fluoride	5.00	0.900	5.72	5.84	96.5	98.7	1	80.0-120			1.96	15
Nitrate	5.00	U	4.46	4.54	89.2	90.9	1	80.0-120			1.89	15
Nitrite	5.00	U	4.88	4.96	97.5	99.1	1	80.0-120			1.62	15
Sulfate	50.0	111	165	167	108	113	1	80.0-120			1.33	15

L1597201-65 Original Sample (OS) • Matrix Spike (MS)

(OS) L1597201-65 03/23/23 05:41 • (MS) R3905481-8 03/23/23 13:07

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	308	341	66.4	1	80.0-120	E V
Fluoride	5.00	1.05	5.99	98.8	1	80.0-120	
Nitrate	5.00	U	4.58	91.7	1	80.0-120	
Nitrite	5.00	U	4.97	99.4	1	80.0-120	
Sulfate	50.0	3.45	53.6	100	1	80.0-120	

Released to Imaging: 6/28/2024 11:23:28 AM

Method Blank (MB)

(MB) R3905518-1 03/23/23 09:59

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	0.448	J	0.379	1.00
Fluoride	0.0675	J	0.0640	0.150
Nitrate	U		0.0480	0.100
Nitrite	U		0.0420	0.100
Sulfate	U		0.594	5.00

L1597201-61 Original Sample (OS) • Duplicate (DUP)

(OS) L1597201-61 03/23/23 11:35 • (DUP) R3905518-2 03/23/23 21:03

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Fluoride	1.55	1.52	1	2.29		15
Nitrate	U	U	1	0.000		15
Nitrite	U	U	1	0.000		15
Sulfate	154	155	1	0.114		15

L1597201-61 Original Sample (OS) • Duplicate (DUP)

(OS) L1597201-61 03/23/23 22:50 • (DUP) R3905518-4 03/23/23 21:43

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	204	196	10	3.51		15

L1597201-68 Original Sample (OS) • Duplicate (DUP)

(OS) L1597201-68 03/23/23 11:48 • (DUP) R3905518-7 03/23/23 23:03

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Fluoride	0.881	0.927	1	4.99		15
Nitrate	U	U	1	0.000		15
Nitrite	0.0573	0.0708	1	21.1	J P1	15

L1597201-68 Original Sample (OS) • Duplicate (DUP)

(OS) L1597201-68 03/23/23 23:44 • (DUP) R3905518-8 03/23/23 23:17

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	343	340	10	1.02		15
Sulfate	547	545	10	0.404		15

Laboratory Control Sample (LCS)

(LCS) R3905518-3 03/23/23 21:16

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	39.6	99.0	80.0-120	
Fluoride	8.00	8.35	104	80.0-120	
Nitrate	8.00	8.11	101	80.0-120	
Nitrite	8.00	8.42	105	80.0-120	
Sulfate	40.0	40.7	102	80.0-120	

L1597201-61 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597201-61 03/23/23 11:35 • (MS) R3905518-5 03/23/23 22:23 • (MSD) R3905518-6 03/23/23 22:37

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	209	245	245	72.3	73.7	1	80.0-120	E V	E V	0.294	15
Fluoride	5.00	1.55	6.38	6.37	96.5	96.4	1	80.0-120			0.144	15
Nitrate	5.00	U	4.74	4.76	94.8	95.1	1	80.0-120			0.348	15
Nitrite	5.00	U	5.04	5.06	101	101	1	80.0-120			0.420	15
Sulfate	50.0	154	194	194	78.6	80.2	1	80.0-120	J6		0.395	15

L1597201-68 Original Sample (OS) • Matrix Spike (MS)

(OS) L1597201-68 03/23/23 11:48 • (MS) R3905518-9 03/23/23 23:30

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	350	381	60.5	1	80.0-120	E V
Fluoride	5.00	0.881	5.99	102	1	80.0-120	
Nitrate	5.00	U	4.77	95.3	1	80.0-120	
Nitrite	5.00	0.0573	5.17	102	1	80.0-120	
Sulfate	50.0	535	551	32.1	1	80.0-120	E V

Method Blank (MB)

(MB) R3906193-1 03/27/23 13:54

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Nitrate	U		0.0480	0.100

L1597201-54 Original Sample (OS) • Duplicate (DUP)

(OS) L1597201-54 03/27/23 23:54 • (DUP) R3906193-3 03/28/23 00:07

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate	0.0545	0.0517	1	5.27	J	15

L1597201-74 Original Sample (OS) • Duplicate (DUP)

(OS) L1597201-74 03/28/23 05:10 • (DUP) R3906193-6 03/28/23 05:23

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate	U	U	1	0.000		15

Laboratory Control Sample (LCS)

(LCS) R3906193-2 03/27/23 14:08

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Nitrate	8.00	7.92	99.0	80.0-120	

L1597201-54 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597201-54 03/27/23 23:54 • (MS) R3906193-4 03/28/23 00:21 • (MSD) R3906193-5 03/28/23 00:34

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 %
Nitrate	5.00	0.0545	5.11	5.13	101	102	1	80.0-120			0.473	15

L1597201-74 Original Sample (OS) • Matrix Spike (MS)

(OS) L1597201-74 03/28/23 05:10 • (MS) R3906193-7 03/28/23 05:35

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Nitrate	5.00	U	5.58	112	1	80.0-120	

Method Blank (MB)

(MB) R3905367-1 03/25/23 10:02

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) R3905367-2 03/25/23 10:04

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.00300	0.00295	98.2	80.0-120	

L1597125-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597125-11 03/25/23 10:06 • (MS) R3905367-3 03/25/23 10:08 • (MSD) R3905367-4 03/25/23 10:10

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 %
Mercury	0.00300	U	0.00289	0.00275	96.3	91.7	1	75.0-125			4.92	20

Method Blank (MB)

(MB) R3905377-1 03/25/23 11:01

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) R3905377-2 03/25/23 11:03

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury,Dissolved	0.00300	0.00299	99.7	80.0-120	

L1597201-17 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597201-17 03/25/23 11:05 • (MS) R3905377-3 03/25/23 11:12 • (MSD) R3905377-4 03/25/23 11:14

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 %
Mercury,Dissolved	0.00300	U	0.00271	0.00260	90.4	86.5	1	75.0-125			4.41	20

Method Blank (MB)

(MB) R3905637-1 03/27/23 07:47

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) R3905637-2 03/27/23 07:49

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.00300	0.00293	97.6	80.0-120	

L1597201-53 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597201-53 03/27/23 07:51 • (MS) R3905637-3 03/27/23 07:53 • (MSD) R3905637-4 03/27/23 07:55

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 %
Mercury	0.00300	U	0.00278	0.00269	92.8	89.8	1	75.0-125			3.29	20

Method Blank (MB)

(MB) R3906266-1 03/28/23 10:04

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) R3906266-2 03/28/23 10:06

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury,Dissolved	0.00300	0.00298	99.4	80.0-120	

L1597201-54 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597201-54 03/28/23 10:08 • (MS) R3906266-3 03/28/23 10:10 • (MSD) R3906266-4 03/28/23 10:12

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 %
Mercury,Dissolved	0.00300	U	0.00293	0.00293	97.7	97.6	1	75.0-125			0.0102	20

Received by OCD: 6/12/2024 3:31:05 PM

Method Blank (MB)

(MB) R3906721-1 03/29/23 08:38

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) R3906721-2 03/29/23 08:40

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.00300	0.00308	103	80.0-120	

L1597201-42 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597201-42 03/29/23 08:42 • (MS) R3906721-3 03/29/23 08:44 • (MSD) R3906721-4 03/29/23 08:46

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 %
Mercury	0.00300	U	0.00242	0.00222	80.7	74.0	1	75.0-125		J6	8.64	20

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Received by OCD: 6/12/2024 3:31:05 PM

Method Blank (MB)

(MB) R3906716-1 03/29/23 08:55

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) R3906716-2 03/29/23 08:57

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury,Dissolved	0.00300	0.00282	94.0	80.0-120	

L1597201-42 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597201-42 03/29/23 09:03 • (MS) R3906716-3 03/29/23 09:05 • (MSD) R3906716-4 03/29/23 09:07

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	0.00236	0.00221	78.8	73.8	1	75.0-125		J6	6.58	20

Released to Imaging: 6/28/2024 11:23:28 AM

Method Blank (MB)

(MB) R3904846-1 03/23/23 21:42

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) R3904846-2 03/23/23 21:44

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron,Dissolved	1.00	0.995	99.5	80.0-120	

L1596346-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1596346-04 03/23/23 21:56 • (MS) R3904846-4 03/23/23 22:01 • (MSD) R3904846-5 03/23/23 22:03

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 %
Boron,Dissolved	1.00	1.22	2.19	2.20	96.6	97.6	1	75.0-125			0.461	20

Method Blank (MB)

(MB) R3905254-1 03/24/23 15:51

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) R3905254-2 03/24/23 15:54

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron,Dissolved	1.00	0.978	97.8	80.0-120	

L1597201-76 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597201-76 03/24/23 15:57 • (MS) R3905254-4 03/24/23 16:03 • (MSD) R3905254-5 03/24/23 16:05

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 %
Boron,Dissolved	1.00	1.82	2.74	2.75	91.7	93.1	1	75.0-125			0.485	20

Received by OCD: 6/12/2024 3:31:05 PM

Method Blank (MB)

(MB) R3904857-1 03/23/23 22:34

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) R3904857-2 03/23/23 22:37

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron	1.00	0.977	97.7	80.0-120	

L1597250-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597250-03 03/23/23 22:40 • (MS) R3904857-4 03/23/23 22:45 • (MSD) R3904857-5 03/23/23 22:47

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 %
Boron	1.00	0.251	1.23	1.23	97.6	97.6	1	75.0-125			0.00969	20

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Released to Imaging: 6/28/2024 11:23:28 AM

Method Blank (MB)

(MB) R3905588-1 03/26/23 20:08

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) R3905588-2 03/26/23 20:10

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron,Dissolved	1.00	0.931	93.1	80.0-120	

L1596664-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1596664-01 03/26/23 20:13 • (MS) R3905588-4 03/26/23 20:24 • (MSD) R3905588-5 03/26/23 20:26

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	0.581	1.52	1.54	93.7	95.5	1	75.0-125			1.19	20

Method Blank (MB)

(MB) R3905581-1 03/26/23 21:54

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) R3905581-2 03/26/23 21:56

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron	1.00	0.998	99.8	80.0-120	

L1596664-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1596664-01 03/26/23 21:59 • (MS) R3905581-4 03/26/23 22:04 • (MSD) R3905581-5 03/26/23 22:07

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	0.700	1.73	1.71	103	101	1	75.0-125			1.04	20

Method Blank (MB)

(MB) R3906523-1 03/28/23 18:03

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Boron	0.0422	J	0.0200	0.200

Laboratory Control Sample (LCS)

(LCS) R3906523-2 03/28/23 18:06

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron	1.00	1.04	104	80.0-120	

L1597201-44 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597201-44 03/28/23 18:09 • (MS) R3906523-4 03/28/23 18:14 • (MSD) R3906523-5 03/28/23 18:17

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	1.00	0.525	1.54	1.54	101	101	1	75.0-125			0.128	20

Method Blank (MB)

(MB) R3906527-1 03/28/23 18:34

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) R3906527-2 03/28/23 18:37

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron,Dissolved	1.00	0.973	97.3	80.0-120	

L1597201-42 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597201-42 03/28/23 18:40 • (MS) R3906527-4 03/28/23 18:45 • (MSD) R3906527-5 03/28/23 18:48

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 %
Boron,Dissolved	1.00	0.332	1.33	1.34	100	101	1	75.0-125			0.412	20

Method Blank (MB)

(MB) R3904733-1 03/23/23 15:17

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	0.000828	J	0.000704	0.00500
Nickel	U		0.000816	0.00200
Potassium	U		0.108	2.00
Selenium	U		0.000300	0.00200
Sodium	0.436	J	0.376	2.00
Uranium	U		0.0000789	0.00100
Vanadium	U		0.000664	0.00500

Laboratory Control Sample (LCS)

(LCS) R3904733-2 03/23/23 15:20

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	0.0498	99.5	80.0-120	
Cadmium	0.0500	0.0532	106	80.0-120	
Calcium	5.00	5.19	104	80.0-120	
Chromium	0.0500	0.0533	107	80.0-120	
Cobalt	0.0500	0.0525	105	80.0-120	
Iron	5.00	5.22	104	80.0-120	
Lead	0.0500	0.0506	101	80.0-120	
Manganese	0.0500	0.0527	105	80.0-120	
Nickel	0.0500	0.0586	117	80.0-120	
Potassium	5.00	4.97	99.5	80.0-120	
Selenium	0.0500	0.0593	119	80.0-120	
Sodium	5.00	5.42	108	80.0-120	
Uranium	0.0500	0.0525	105	80.0-120	
Vanadium	0.0500	0.0519	104	80.0-120	

L1597201-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597201-02 03/23/23 15:24 • (MS) R3904733-4 03/23/23 15:30 • (MSD) R3904733-5 03/23/23 15:33

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	0.0367	0.0882	0.0838	103	94.1	1	75.0-125			5.11	20
Barium	0.0500	0.0149	0.0637	0.0645	97.7	99.3	1	75.0-125			1.25	20
Cadmium	0.0500	U	0.0529	0.0528	106	106	1	75.0-125			0.124	20
Calcium	5.00	539	530	531	0.000	0.000	1	75.0-125	V	V	0.0757	20
Chromium	0.0500	U	0.0504	0.0476	101	95.2	1	75.0-125			5.74	20
Cobalt	0.0500	0.00404	0.0535	0.0515	98.8	94.9	1	75.0-125			3.77	20
Iron	5.00	1.59	6.52	6.25	98.4	93.1	1	75.0-125			4.15	20
Lead	0.0500	U	0.0510	0.0507	102	101	1	75.0-125			0.620	20
Manganese	0.0500	2.57	2.68	2.56	215	0.000	1	75.0-125	V	V	4.37	20
Nickel	0.0500	0.00168	0.0500	0.0470	96.7	90.7	1	75.0-125			6.20	20
Potassium	5.00	5.66	10.2	10.4	90.3	94.0	1	75.0-125			1.78	20
Selenium	0.0500	U	0.0614	0.0601	123	120	1	75.0-125			2.10	20
Sodium	5.00	760	727	721	0.000	0.000	1	75.0-125	V	V	0.798	20
Uranium	0.0500	0.000796	0.0560	0.0554	110	109	1	75.0-125			1.09	20
Vanadium	0.0500	U	0.0521	0.0487	104	97.3	1	75.0-125			6.72	20

Method Blank (MB)

(MB) R3904781-1 03/23/23 15:04

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	0.00148	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	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) R3904781-2 03/23/23 15:08

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	0.0464	92.8	80.0-120	
Cadmium	0.0500	0.0500	100	80.0-120	
Calcium	5.00	4.89	97.7	80.0-120	
Chromium	0.0500	0.0517	103	80.0-120	
Cobalt	0.0500	0.0515	103	80.0-120	
Iron	5.00	5.23	105	80.0-120	
Lead	0.0500	0.0475	95.0	80.0-120	
Manganese	0.0500	0.0517	103	80.0-120	
Nickel	0.0500	0.0517	103	80.0-120	
Potassium	5.00	4.86	97.1	80.0-120	
Selenium	0.0500	0.0509	102	80.0-120	
Sodium	5.00	5.02	100	80.0-120	
Uranium	0.0500	0.0460	91.9	80.0-120	
Vanadium	0.0500	0.0504	101	80.0-120	

QUALITY CONTROL SUMMARY

Metals (ICPMS) by Method 6020

L1597201-22,23,24,25,26,27,28,29,30,36,37,38,39,40,41,42,43,44,45,46

L1597201-22 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597201-22 03/23/23 15:11 • (MS) R3904781-4 03/23/23 15:18 • (MSD) R3904781-5 03/23/23 15:21

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 %
Arsenic	0.0500	0.00368	0.0519	0.0519	96.5	96.4	1	75.0-125			0.0514	20
Barium	0.0500	0.0390	0.0887	0.0898	99.3	102	1	75.0-125			1.25	20
Cadmium	0.0500	0.000321	0.0473	0.0466	93.9	92.5	1	75.0-125			1.44	20
Calcium	5.00	1250	1230	1220	0.000	0.000	1	75.0-125	E V	E V	0.498	20
Chromium	0.0500	0.00171	0.0484	0.0473	93.3	91.2	1	75.0-125			2.16	20
Cobalt	0.0500	0.000889	0.0477	0.0471	93.7	92.5	1	75.0-125			1.21	20
Iron	5.00	U	4.96	4.80	99.3	96.0	1	75.0-125			3.36	20
Lead	0.0500	U	0.0498	0.0495	99.5	99.0	1	75.0-125			0.520	20
Manganese	0.0500	0.741	0.775	0.906	67.8	328	1	75.0-125	V	V	15.5	20
Nickel	0.0500	0.00461	0.0494	0.0485	89.5	87.8	1	75.0-125			1.76	20
Potassium	5.00	7.53	12.2	12.0	94.0	90.1	1	75.0-125			1.61	20
Selenium	0.0500	0.000407	0.0535	0.0526	106	104	1	75.0-125			1.72	20
Sodium	5.00	2480	2460	2440	0.000	0.000	1	75.0-125	E V	E V	0.692	20
Uranium	0.0500	0.0113	0.0609	0.0612	99.2	99.8	1	75.0-125			0.473	20
Vanadium	0.0500	0.0102	0.0595	0.0584	98.6	96.3	1	75.0-125			1.89	20

Method Blank (MB)

(MB) R3905846-1 03/27/23 13:32

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) R3905846-2 03/27/23 13:35

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	0.0500	0.0511	102	80.0-120	
Barium	0.0500	0.0462	92.5	80.0-120	
Cadmium	0.0500	0.0500	100	80.0-120	
Calcium	5.00	4.76	95.3	80.0-120	
Chromium	0.0500	0.0517	103	80.0-120	
Cobalt	0.0500	0.0525	105	80.0-120	
Iron	5.00	5.13	103	80.0-120	
Lead	0.0500	0.0492	98.3	80.0-120	
Manganese	0.0500	0.0528	106	80.0-120	
Nickel	0.0500	0.0516	103	80.0-120	
Potassium	5.00	4.94	98.8	80.0-120	
Selenium	0.0500	0.0555	111	80.0-120	
Sodium	5.00	5.02	100	80.0-120	
Uranium	0.0500	0.0504	101	80.0-120	
Vanadium	0.0500	0.0516	103	80.0-120	

L1597201-58 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597201-58 03/27/23 13:39 • (MS) R3905846-4 03/27/23 13:45 • (MSD) R3905846-5 03/27/23 13:48

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 %
Arsenic	0.0500	0.0200	0.0516	0.0525	63.2	65.0	1	75.0-125	J6	J6	1.68	20
Barium	0.0500	0.0845	0.136	0.137	102	105	1	75.0-125			0.900	20
Cadmium	0.0500	U	0.0510	0.0519	102	104	1	75.0-125			1.77	20
Calcium	5.00	261	263	266	28.5	93.2	1	75.0-125	V		1.22	20
Chromium	0.0500	0.00205	0.0492	0.0505	98.5	101	1	75.0-125			2.53	20
Cobalt	0.0500	0.000240	0.0480	0.0489	95.5	97.3	1	75.0-125			1.87	20
Iron	5.00	0.294	4.99	5.05	93.9	95.1	1	75.0-125			1.16	20
Lead	0.0500	0.000897	0.0507	0.0509	99.5	99.9	1	75.0-125			0.388	20
Manganese	0.0500	0.866	0.899	0.908	66.1	84.1	1	75.0-125	V		0.999	20
Nickel	0.0500	0.00148	0.0479	0.0487	92.9	94.4	1	75.0-125			1.57	20
Potassium	5.00	1.26	6.02	6.07	95.2	96.3	1	75.0-125			0.917	20
Selenium	0.0500	0.00162	0.0498	0.0535	96.3	104	1	75.0-125			7.29	20
Sodium	5.00	219	223	225	94.1	124	1	75.0-125			0.658	20
Uranium	0.0500	0.00271	0.0548	0.0553	110	111	1	75.0-125			0.888	20
Vanadium	0.0500	0.00156	0.0503	0.0506	97.4	98.1	1	75.0-125			0.622	20

Method Blank (MB)

(MB) R3905297-1 03/25/23 00:38

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	0.00200
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		0.0000789	0.00100
Vanadium,Dissolved	U		0.000664	0.00500

Laboratory Control Sample (LCS)

(LCS) R3905297-2 03/25/23 00:41

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic,Dissolved	0.0500	0.0509	102	80.0-120	
Barium,Dissolved	0.0500	0.0506	101	80.0-120	
Cadmium,Dissolved	0.0500	0.0529	106	80.0-120	
Chromium,Dissolved	0.0500	0.0525	105	80.0-120	
Cobalt,Dissolved	0.0500	0.0535	107	80.0-120	
Iron,Dissolved	5.00	5.23	105	80.0-120	
Lead,Dissolved	0.0500	0.0511	102	80.0-120	
Manganese,Dissolved	0.0500	0.0531	106	80.0-120	
Nickel,Dissolved	0.0500	0.0534	107	80.0-120	
Selenium,Dissolved	0.0500	0.0530	106	80.0-120	
Uranium,Dissolved	0.0500	0.0511	102	80.0-120	
Vanadium,Dissolved	0.0500	0.0527	105	80.0-120	

L1597201-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597201-01 03/25/23 00:45 • (MS) R3905297-4 03/25/23 00:51 • (MSD) R3905297-5 03/25/23 00:54

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 %
Arsenic,Dissolved	0.0500	0.00635	0.0563	0.0562	99.9	99.6	1	75.0-125			0.301	20
Barium,Dissolved	0.0500	0.0152	0.0661	0.0660	102	102	1	75.0-125			0.115	20
Cadmium,Dissolved	0.0500	U	0.0504	0.0502	101	100	1	75.0-125			0.468	20

L1597201-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597201-01 03/25/23 00:45 • (MS) R3905297-4 03/25/23 00:51 • (MSD) R3905297-5 03/25/23 00:54

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 %
Chromium,Dissolved	0.0500	U	0.0502	0.0496	100	99.3	1	75.0-125			1.20	20
Cobalt,Dissolved	0.0500	0.000494	0.0505	0.0498	100	98.7	1	75.0-125			1.26	20
Iron,Dissolved	5.00	0.958	5.84	5.81	97.7	97.1	1	75.0-125			0.549	20
Lead,Dissolved	0.0500	U	0.0492	0.0492	98.4	98.4	1	75.0-125			0.0278	20
Manganese,Dissolved	0.0500	0.701	0.751	0.742	99.4	82.1	1	75.0-125			1.16	20
Nickel,Dissolved	0.0500	0.00121	0.0501	0.0498	97.8	97.2	1	75.0-125			0.614	20
Selenium,Dissolved	0.0500	0.000597	0.0555	0.0556	110	110	1	75.0-125			0.147	20
Uranium,Dissolved	0.0500	0.000234	0.0516	0.0517	103	103	1	75.0-125			0.0449	20
Vanadium,Dissolved	0.0500	U	0.0520	0.0516	104	103	1	75.0-125			0.671	20

Method Blank (MB)

(MB) R3904786-1 03/23/23 18:01

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	0.00200
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		0.0000789	0.00100
Vanadium,Dissolved	U		0.000664	0.00500

Laboratory Control Sample (LCS)

(LCS) R3904786-2 03/23/23 18:05

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic,Dissolved	0.0500	0.0488	97.6	80.0-120	
Barium,Dissolved	0.0500	0.0497	99.4	80.0-120	
Cadmium,Dissolved	0.0500	0.0513	103	80.0-120	
Chromium,Dissolved	0.0500	0.0498	99.7	80.0-120	
Cobalt,Dissolved	0.0500	0.0507	101	80.0-120	
Iron,Dissolved	5.00	4.99	99.8	80.0-120	
Lead,Dissolved	0.0500	0.0477	95.4	80.0-120	
Manganese,Dissolved	0.0500	0.0499	99.9	80.0-120	
Nickel,Dissolved	0.0500	0.0504	101	80.0-120	
Selenium,Dissolved	0.0500	0.0513	103	80.0-120	
Uranium,Dissolved	0.0500	0.0507	101	80.0-120	
Vanadium,Dissolved	0.0500	0.0513	103	80.0-120	

L1597201-22 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597201-22 03/23/23 18:08 • (MS) R3904786-4 03/23/23 18:14 • (MSD) R3904786-5 03/23/23 18:18

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 %
Arsenic,Dissolved	0.0500	0.00399	0.0543	0.0538	101	99.6	1	75.0-125			0.832	20
Barium,Dissolved	0.0500	0.0353	0.0892	0.0880	108	105	1	75.0-125			1.29	20
Cadmium,Dissolved	0.0500	0.000241	0.0477	0.0476	94.8	94.8	1	75.0-125			0.0716	20

L1597201-22 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597201-22 03/23/23 18:08 • (MS) R3904786-4 03/23/23 18:14 • (MSD) R3904786-5 03/23/23 18:18

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 %
Chromium,Dissolved	0.0500	U	0.0487	0.0480	97.5	95.9	1	75.0-125			1.60	20
Cobalt,Dissolved	0.0500	0.00130	0.0494	0.0484	96.2	94.3	1	75.0-125			1.98	20
Iron,Dissolved	5.00	U	4.93	4.89	98.6	97.8	1	75.0-125			0.847	20
Lead,Dissolved	0.0500	U	0.0490	0.0480	98.1	95.9	1	75.0-125			2.22	20
Manganese,Dissolved	0.0500	0.786	0.841	0.834	111	95.6	1	75.0-125			0.920	20
Nickel,Dissolved	0.0500	0.00388	0.0500	0.0487	92.3	89.7	1	75.0-125			2.61	20
Selenium,Dissolved	0.0500	0.000551	0.0567	0.0567	112	112	1	75.0-125			0.0790	20
Uranium,Dissolved	0.0500	0.0130	0.0650	0.0632	104	100	1	75.0-125			2.77	20
Vanadium,Dissolved	0.0500	0.0106	0.0621	0.0616	103	102	1	75.0-125			0.816	20

Method Blank (MB)

(MB) R3904810-1 03/23/23 19:50

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic,Dissolved	0.000348	J	0.000180	0.00200
Barium,Dissolved	U		0.000381	0.00200
Cadmium,Dissolved	U		0.000150	0.00100
Chromium,Dissolved	U		0.00124	0.00200
Cobalt,Dissolved	U		0.0000596	0.00200
Iron,Dissolved	0.0356	J	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		0.0000789	0.00100
Vanadium,Dissolved	0.00182	J	0.000664	0.00500

Laboratory Control Sample (LCS)

(LCS) R3904810-2 03/23/23 19:54

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic,Dissolved	0.0500	0.0499	99.7	80.0-120	
Barium,Dissolved	0.0500	0.0509	102	80.0-120	
Cadmium,Dissolved	0.0500	0.0536	107	80.0-120	
Chromium,Dissolved	0.0500	0.0642	128	80.0-120	J4
Cobalt,Dissolved	0.0500	0.0530	106	80.0-120	
Iron,Dissolved	5.00	5.30	106	80.0-120	
Lead,Dissolved	0.0500	0.0502	100	80.0-120	
Manganese,Dissolved	0.0500	0.0542	108	80.0-120	
Nickel,Dissolved	0.0500	0.0573	115	80.0-120	
Selenium,Dissolved	0.0500	0.0536	107	80.0-120	
Uranium,Dissolved	0.0500	0.0530	106	80.0-120	
Vanadium,Dissolved	0.0500	0.0550	110	80.0-120	

L1597201-44 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597201-44 03/23/23 19:57 • (MS) R3904810-4 03/23/23 20:03 • (MSD) R3904810-5 03/23/23 20:07

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	0.00423	0.0530	0.0538	97.5	99.2	1	75.0-125			1.65	20
Barium,Dissolved	0.0500	0.00937	0.0590	0.0599	99.3	101	1	75.0-125			1.56	20
Cadmium,Dissolved	0.0500	U	0.0494	0.0490	98.8	98.0	1	75.0-125			0.758	20

L1597201-44 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597201-44 03/23/23 19:57 • (MS) R3904810-4 03/23/23 20:03 • (MSD) R3904810-5 03/23/23 20:07

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	0.0507	0.0504	101	101	1	75.0-125			0.568	20
Cobalt,Dissolved	0.0500	0.0000884	0.0498	0.0502	99.5	100	1	75.0-125			0.763	20
Iron,Dissolved	5.00	U	5.13	5.18	103	104	1	75.0-125			1.02	20
Lead,Dissolved	0.0500	U	0.0491	0.0492	98.2	98.3	1	75.0-125			0.0909	20
Manganese,Dissolved	0.0500	0.00280	0.0529	0.0532	100	101	1	75.0-125			0.504	20
Nickel,Dissolved	0.0500	0.00136	0.0495	0.0491	96.2	95.4	1	75.0-125			0.776	20
Selenium,Dissolved	0.0500	0.00510	0.0599	0.0596	110	109	1	75.0-125			0.477	20
Uranium,Dissolved	0.0500	0.0480	0.105	0.103	114	110	1	75.0-125			1.91	20
Vanadium,Dissolved	0.0500	0.0203	0.0724	0.0723	104	104	1	75.0-125			0.148	20

Method Blank (MB)

(MB) R3904675-1 03/23/23 14:24

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	0.00200
Chromium,Dissolved	U		0.00124	0.00200
Iron,Dissolved	U		0.0281	0.100
Lead,Dissolved	U		0.000849	0.00200
Manganese,Dissolved	0.000704	J	0.000704	0.00500
Selenium,Dissolved	U		0.000300	0.00200

Laboratory Control Sample (LCS)

(LCS) R3904675-2 03/23/23 14:27

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic,Dissolved	0.0500	0.0487	97.4	80.0-120	
Barium,Dissolved	0.0500	0.0495	99.0	80.0-120	
Chromium,Dissolved	0.0500	0.0505	101	80.0-120	
Iron,Dissolved	5.00	5.08	102	80.0-120	
Lead,Dissolved	0.0500	0.0488	97.5	80.0-120	
Manganese,Dissolved	0.0500	0.0513	103	80.0-120	
Selenium,Dissolved	0.0500	0.0519	104	80.0-120	

L1597125-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597125-01 03/23/23 14:30 • (MS) R3904675-4 03/23/23 14:37 • (MSD) R3904675-5 03/23/23 14:40

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	0.00105	0.0509	0.0499	99.7	97.8	1	75.0-125			1.92	20
Barium,Dissolved	0.0500	0.0259	0.0777	0.0769	104	102	1	75.0-125			1.05	20
Chromium,Dissolved	0.0500	U	0.0497	0.0485	99.4	97.0	1	75.0-125			2.40	20
Iron,Dissolved	5.00	U	5.00	4.89	100	97.9	1	75.0-125			2.15	20
Lead,Dissolved	0.0500	U	0.0500	0.0498	100	99.7	1	75.0-125			0.313	20
Manganese,Dissolved	0.0500	0.0141	0.0631	0.0622	98.1	96.2	1	75.0-125			1.48	20
Selenium,Dissolved	0.0500	0.000632	0.0571	0.0567	113	112	1	75.0-125			0.737	20

Method Blank (MB)

(MB) R3905261-1 03/24/23 19:26

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	0.00200
Cadmium,Dissolved	U		0.000150	0.00100
Chromium,Dissolved	U		0.00124	0.00200
Cobalt,Dissolved	U		0.0000596	0.00200
Iron,Dissolved	0.0810	J	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		0.0000789	0.00100
Vanadium,Dissolved	U		0.000664	0.00500

Laboratory Control Sample (LCS)

(LCS) R3905261-2 03/24/23 19:29

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic,Dissolved	0.0500	0.0478	95.5	80.0-120	
Barium,Dissolved	0.0500	0.0466	93.3	80.0-120	
Cadmium,Dissolved	0.0500	0.0502	100	80.0-120	
Chromium,Dissolved	0.0500	0.0491	98.3	80.0-120	
Cobalt,Dissolved	0.0500	0.0498	99.7	80.0-120	
Iron,Dissolved	5.00	4.69	93.8	80.0-120	
Lead,Dissolved	0.0500	0.0498	99.5	80.0-120	
Manganese,Dissolved	0.0500	0.0499	99.9	80.0-120	
Nickel,Dissolved	0.0500	0.0497	99.3	80.0-120	
Selenium,Dissolved	0.0500	0.0499	99.9	80.0-120	
Uranium,Dissolved	0.0500	0.0480	96.0	80.0-120	
Vanadium,Dissolved	0.0500	0.0490	98.1	80.0-120	

L1597252-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597252-05 03/24/23 19:33 • (MS) R3905261-4 03/24/23 19:39 • (MSD) R3905261-5 03/24/23 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	0.00329	0.0525	0.0511	98.4	95.7	1	75.0-125			2.65	20
Barium,Dissolved	0.0500	0.0230	0.0719	0.0733	97.8	101	1	75.0-125			1.94	20
Cadmium,Dissolved	0.0500	U	0.0494	0.0492	98.7	98.5	1	75.0-125			0.273	20

L1597252-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597252-05 03/24/23 19:33 • (MS) R3905261-4 03/24/23 19:39 • (MSD) R3905261-5 03/24/23 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 %
Chromium,Dissolved	0.0500	U	0.0496	0.0479	99.3	95.8	1	75.0-125			3.60	20
Cobalt,Dissolved	0.0500	U	0.0491	0.0474	98.1	94.8	1	75.0-125			3.42	20
Iron,Dissolved	5.00	0.365	5.16	5.14	96.0	95.4	1	75.0-125			0.520	20
Lead,Dissolved	0.0500	0.00140	0.0483	0.0500	93.8	97.3	1	75.0-125			3.56	20
Manganese,Dissolved	0.0500	0.250	0.302	0.293	103	86.1	1	75.0-125			2.84	20
Nickel,Dissolved	0.0500	0.000891	0.0495	0.0479	97.1	94.0	1	75.0-125			3.28	20
Selenium,Dissolved	0.0500	0.000627	0.0527	0.0536	104	106	1	75.0-125			1.55	20
Uranium,Dissolved	0.0500	0.00129	0.0490	0.0490	95.4	95.4	1	75.0-125			0.0153	20
Vanadium,Dissolved	0.0500	0.00105	0.0516	0.0507	101	99.4	1	75.0-125			1.67	20

Method Blank (MB)

(MB) R3905230-1 03/24/23 15:36

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) R3905230-2 03/24/23 15:39

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	0.0488	97.6	80.0-120	
Cadmium	0.0500	0.0556	111	80.0-120	
Calcium	5.00	5.24	105	80.0-120	
Chromium	0.0500	0.0522	104	80.0-120	
Cobalt	0.0500	0.0526	105	80.0-120	
Iron	5.00	5.20	104	80.0-120	
Lead	0.0500	0.0486	97.2	80.0-120	
Manganese	0.0500	0.0527	105	80.0-120	
Nickel	0.0500	0.0530	106	80.0-120	
Potassium	5.00	5.05	101	80.0-120	
Selenium	0.0500	0.0548	110	80.0-120	
Sodium	5.00	5.34	107	80.0-120	
Uranium	0.0500	0.0499	99.8	80.0-120	
Vanadium	0.0500	0.0514	103	80.0-120	

L1597201-63 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597201-63 03/24/23 15:42 • (MS) R3905230-4 03/24/23 15:49 • (MSD) R3905230-5 03/24/23 15:52

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	0.0500	0.00216	0.0539	0.0543	104	104	1	75.0-125			0.619	20
Barium	0.0500	0.420	0.474	0.482	108	124	1	75.0-125			1.68	20
Cadmium	0.0500	U	0.0553	0.0555	111	111	1	75.0-125			0.354	20
Calcium	5.00	65.4	71.0	71.7	110	125	1	75.0-125			1.01	20
Chromium	0.0500	U	0.0517	0.0518	103	104	1	75.0-125			0.111	20
Cobalt	0.0500	0.0000999	0.0511	0.0509	102	102	1	75.0-125			0.351	20
Iron	5.00	0.0407	5.14	5.14	102	102	1	75.0-125			0.0259	20
Lead	0.0500	0.00106	0.0522	0.0511	102	100	1	75.0-125			2.14	20
Manganese	0.0500	0.00181	0.0545	0.0548	105	106	1	75.0-125			0.531	20
Nickel	0.0500	U	0.0504	0.0498	101	99.6	1	75.0-125			1.08	20
Potassium	5.00	0.809	5.96	5.98	103	103	1	75.0-125			0.390	20
Selenium	0.0500	0.000384	0.0559	0.0570	111	113	1	75.0-125			2.06	20
Sodium	5.00	2000	2000	2070	0.000	1410	1	75.0-125	E V	E V	3.60	20
Uranium	0.0500	U	0.0545	0.0529	109	106	1	75.0-125			3.12	20
Vanadium	0.0500	0.00116	0.0540	0.0536	106	105	1	75.0-125			0.763	20

Method Blank (MB)

(MB) R3905287-1 03/24/23 22:56

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chromium,Dissolved	U		0.00124	0.00200

Laboratory Control Sample (LCS)

(LCS) R3905287-2 03/24/23 22:59

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chromium,Dissolved	0.0500	0.0498	99.6	80.0-120	

L1594705-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1594705-03 03/24/23 23:02 • (MS) R3905287-4 03/24/23 23:09 • (MSD) R3905287-5 03/24/23 23:12

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 %
Chromium,Dissolved	0.0500	U	0.0487	0.0485	97.4	97.0	1	75.0-125			0.341	20

Method Blank (MB)

(MB) R3906005-1 03/27/23 16:54

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Cobalt	U		0.0000596	0.00200

Laboratory Control Sample (LCS)

(LCS) R3906005-2 03/27/23 16:57

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Cobalt	0.0500	0.0493	98.5	80.0-120	

L1598041-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1598041-10 03/27/23 17:00 • (MS) R3906005-4 03/27/23 17:07 • (MSD) R3906005-5 03/27/23 17:10

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 %
Cobalt	0.0500	0.0000899	0.0481	0.0476	96.1	95.1	1	75.0-125			1.03	20

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Method Blank (MB)

(MB) R3904968-2 03/23/23 22:23

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	0.0839	J	0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*97.9*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R3904968-1 03/23/23 21:39

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.22	94.9	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*103*	*78.0-120*	

L1597499-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597499-02 03/24/23 09:02 • (MS) R3904968-3 03/24/23 09:24 • (MSD) R3904968-4 03/24/23 09:46

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 %
TPH (GC/FID) Low Fraction	55.0	5.69	56.8	57.4	92.9	94.0	10	10.0-160			1.05	22
(S) a,a,a-Trifluorotoluene(FID)					*104*	*104*		*78.0-120*				

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Method Blank (MB)

(MB) R3905093-2 03/24/23 10:57

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)	*109*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R3905093-1 03/24/23 10:13

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.51	100	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*104*	*78.0-120*	

Method Blank (MB)

(MB) R3906137-2 03/25/23 19:18

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	0.0376	J	0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*98.9*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R3906137-1 03/25/23 17:34

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.25	95.5	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*105*	*78.0-120*	

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Method Blank (MB)

(MB) R3906706-2 03/25/23 20:48

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)	*112*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R3906706-1 03/25/23 19:36

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.16	93.8	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*107*	*78.0-120*	

Released to Imaging: 6/28/2024 11:23:28 AM

Method Blank (MB)

(MB) R3906714-2 03/28/23 10:00

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	0.0465	J	0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*96.9*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R3906714-1 03/28/23 08:51

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.00	90.9	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*100*	*78.0-120*	

Received by OCD: 6/12/2024 3:31:05 PM

Method Blank (MB)

(MB) R3906818-2 03/26/23 12:01

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	0.000317	J	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
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
2-Hexanone	U		0.000787	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
tert-Butyl alcohol	U		0.00406	0.00500
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

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Method Blank (MB)

(MB) R3906818-2 03/26/23 12:01

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,1,2-Trichloroethane	U		0.000158	0.00100
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
o-Xylene	U		0.000174	0.00100
m&p-Xylenes	U		0.000430	0.00200
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	*108*			*80.0-120*
(S) 4-Bromofluorobenzene	*99.7*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3906818-1 03/26/23 11:21

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	0.00529	106	70.0-123	
Bromodichloromethane	0.00500	0.00516	103	75.0-120	
Bromoform	0.00500	0.00515	103	68.0-132	
Bromomethane	0.00500	0.00556	111	10.0-160	
n-Butylbenzene	0.00500	0.00549	110	73.0-125	
sec-Butylbenzene	0.00500	0.00551	110	75.0-125	
Carbon disulfide	0.00500	0.00553	111	61.0-128	
Carbon tetrachloride	0.00500	0.00548	110	68.0-126	
Chlorobenzene	0.00500	0.00514	103	80.0-121	
Chlorodibromomethane	0.00500	0.00491	98.2	77.0-125	
Chloroethane	0.00500	0.00526	105	47.0-150	
Chloroform	0.00500	0.00531	106	73.0-120	
Chloromethane	0.00500	0.00518	104	41.0-142	
1,2-Dibromoethane	0.00500	0.00497	99.4	80.0-122	
1,1-Dichloroethane	0.00500	0.00502	100	70.0-126	
1,2-Dichloroethane	0.00500	0.00507	101	70.0-128	
1,1-Dichloroethene	0.00500	0.00468	93.6	71.0-124	
cis-1,2-Dichloroethene	0.00500	0.00539	108	73.0-120	
trans-1,2-Dichloroethene	0.00500	0.00521	104	73.0-120	
1,2-Dichloropropane	0.00500	0.00531	106	77.0-125	
cis-1,3-Dichloropropene	0.00500	0.00532	106	80.0-123	

Laboratory Control Sample (LCS)

(LCS) R3906818-1 03/26/23 11:21

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
trans-1,3-Dichloropropene	0.00500	0.00513	103	78.0-124	
Ethylbenzene	0.00500	0.00524	105	79.0-123	
Isopropylbenzene	0.00500	0.00518	104	76.0-127	
p-Isopropyltoluene	0.00500	0.00566	113	76.0-125	
2-Butanone (MEK)	0.0250	0.0262	105	44.0-160	
2-Hexanone	0.0250	0.0254	102	67.0-149	
Methylene Chloride	0.00500	0.00534	107	67.0-120	
4-Methyl-2-pentanone (MIBK)	0.0250	0.0269	108	68.0-142	
Methyl tert-butyl ether	0.00500	0.00529	106	68.0-125	
Naphthalene	0.00500	0.00498	99.6	54.0-135	
n-Propylbenzene	0.00500	0.00547	109	77.0-124	
Styrene	0.00500	0.00521	104	73.0-130	
tert-Butyl alcohol	0.0250	0.0267	107	27.0-160	
1,1,1,2-Tetrachloroethane	0.00500	0.00490	98.0	75.0-125	
1,1,2,2-Tetrachloroethane	0.00500	0.00583	117	65.0-130	
Tetrachloroethene	0.00500	0.00537	107	72.0-132	
Toluene	0.00500	0.00504	101	79.0-120	
1,1,1-Trichloroethane	0.00500	0.00540	108	73.0-124	
1,1,2-Trichloroethane	0.00500	0.00492	98.4	80.0-120	
Trichloroethene	0.00500	0.00462	92.4	78.0-124	
1,2,4-Trimethylbenzene	0.00500	0.00521	104	76.0-121	
1,3,5-Trimethylbenzene	0.00500	0.00555	111	76.0-122	
Vinyl chloride	0.00500	0.00513	103	67.0-131	
o-Xylene	0.00500	0.00510	102	80.0-122	
m&p-Xylenes	0.0100	0.0103	103	80.0-122	
Xylenes, Total	0.0150	0.0154	103	79.0-123	
(S) Toluene-d8			*103*	*80.0-120*	
(S) 4-Bromofluorobenzene			*97.9*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*106*	*70.0-130*	

Method Blank (MB)

(MB) R3906443-3 03/26/23 12:42

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
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
2-Hexanone	U		0.000787	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
tert-Butyl alcohol	U		0.00406	0.00500
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

Method Blank (MB)

(MB) R3906443-3 03/26/23 12:42

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,1,2-Trichloroethane	U		0.000158	0.00100
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
o-Xylene	U		0.000174	0.00100
m&p-Xylenes	U		0.000430	0.00200
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	*97.9*			*80.0-120*
(S) 4-Bromofluorobenzene	*85.4*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*85.2*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3906443-1 03/26/23 11:37 • (LCSD) R3906443-2 03/26/23 11:59

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	0.0210	0.0219	84.0	87.6	19.0-160			4.20	27
Benzene	0.00500	0.00581	0.00535	116	107	70.0-123			8.24	20
Bromodichloromethane	0.00500	0.00542	0.00545	108	109	75.0-120			0.552	20
Bromoform	0.00500	0.00456	0.00475	91.2	95.0	68.0-132			4.08	20
Bromomethane	0.00500	0.00404	0.00433	80.8	86.6	10.0-160			6.93	25
n-Butylbenzene	0.00500	0.00548	0.00509	110	102	73.0-125			7.38	20
sec-Butylbenzene	0.00500	0.00570	0.00550	114	110	75.0-125			3.57	20
Carbon disulfide	0.00500	0.00510	0.00519	102	104	61.0-128			1.75	20
Carbon tetrachloride	0.00500	0.00535	0.00514	107	103	68.0-126			4.00	20
Chlorobenzene	0.00500	0.00561	0.00536	112	107	80.0-121			4.56	20
Chlorodibromomethane	0.00500	0.00499	0.00485	99.8	97.0	77.0-125			2.85	20
Chloroethane	0.00500	0.00502	0.00472	100	94.4	47.0-150			6.16	20
Chloroform	0.00500	0.00544	0.00530	109	106	73.0-120			2.61	20
Chloromethane	0.00500	0.00349	0.00345	69.8	69.0	41.0-142			1.15	20
1,2-Dibromoethane	0.00500	0.00506	0.00510	101	102	80.0-122			0.787	20
1,1-Dichloroethane	0.00500	0.00541	0.00506	108	101	70.0-126			6.69	20
1,2-Dichloroethane	0.00500	0.00481	0.00469	96.2	93.8	70.0-128			2.53	20
1,1-Dichloroethene	0.00500	0.00564	0.00517	113	103	71.0-124			8.70	20
cis-1,2-Dichloroethene	0.00500	0.00540	0.00539	108	108	73.0-120			0.185	20
trans-1,2-Dichloroethene	0.00500	0.00573	0.00535	115	107	73.0-120			6.86	20
1,2-Dichloropropane	0.00500	0.00545	0.00497	109	99.4	77.0-125			9.21	20
cis-1,3-Dichloropropene	0.00500	0.00488	0.00470	97.6	94.0	80.0-123			3.76	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3906443-1 03/26/23 11:37 • (LCSD) R3906443-2 03/26/23 11:59

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	0.00463	0.00441	92.6	88.2	78.0-124			4.87	20
Ethylbenzene	0.00500	0.00566	0.00532	113	106	79.0-123			6.19	20
Isopropylbenzene	0.00500	0.00537	0.00500	107	100	76.0-127			7.14	20
p-Isopropyltoluene	0.00500	0.00531	0.00509	106	102	76.0-125			4.23	20
2-Butanone (MEK)	0.0250	0.0193	0.0202	77.2	80.8	44.0-160			4.56	20
2-Hexanone	0.0250	0.0181	0.0196	72.4	78.4	67.0-149			7.96	20
Methylene Chloride	0.00500	0.00571	0.00561	114	112	67.0-120			1.77	20
4-Methyl-2-pentanone (MIBK)	0.0250	0.0180	0.0188	72.0	75.2	68.0-142			4.35	20
Methyl tert-butyl ether	0.00500	0.00503	0.00479	101	95.8	68.0-125			4.89	20
Naphthalene	0.00500	0.00217	0.00290	43.4	58.0	54.0-135	J4	J3	28.8	20
n-Propylbenzene	0.00500	0.00551	0.00529	110	106	77.0-124			4.07	20
Styrene	0.00500	0.00529	0.00487	106	97.4	73.0-130			8.27	20
tert-Butyl alcohol	0.0250	0.0227	0.0238	90.8	95.2	27.0-160			4.73	30
1,1,1,2-Tetrachloroethane	0.00500	0.00535	0.00498	107	99.6	75.0-125			7.16	20
1,1,2,2-Tetrachloroethane	0.00500	0.00478	0.00501	95.6	100	65.0-130			4.70	20
Tetrachloroethene	0.00500	0.00563	0.00523	113	105	72.0-132			7.37	20
Toluene	0.00500	0.00558	0.00513	112	103	79.0-120			8.40	20
1,1,1-Trichloroethane	0.00500	0.00561	0.00570	112	114	73.0-124			1.59	20
1,1,2-Trichloroethane	0.00500	0.00506	0.00518	101	104	80.0-120			2.34	20
Trichloroethene	0.00500	0.00573	0.00548	115	110	78.0-124			4.46	20
1,2,4-Trimethylbenzene	0.00500	0.00533	0.00516	107	103	76.0-121			3.24	20
1,3,5-Trimethylbenzene	0.00500	0.00555	0.00528	111	106	76.0-122			4.99	20
Vinyl chloride	0.00500	0.00507	0.00495	101	99.0	67.0-131			2.40	20
o-Xylene	0.00500	0.00535	0.00506	107	101	80.0-122			5.57	20
m&p-Xylenes	0.0100	0.0109	0.0103	109	103	80.0-122			5.66	20
Xylenes, Total	0.0150	0.0163	0.0154	109	103	79.0-123			5.68	20
(S) Toluene-d8				*95.8*	*94.8*	*80.0-120*				
(S) 4-Bromofluorobenzene				*85.1*	*87.9*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*83.6*	*86.6*	*70.0-130*				

Method Blank (MB)

(MB) R3905881-2 03/27/23 00:16

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	0.000149	J	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
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
2-Hexanone	U		0.000787	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
tert-Butyl alcohol	U		0.00406	0.00500
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

Method Blank (MB)

(MB) R3905881-2 03/27/23 00:16

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,1,2-Trichloroethane	U		0.000158	0.00100
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
o-Xylene	U		0.000174	0.00100
m&p-Xylenes	U		0.000430	0.00200
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	*107*			*80.0-120*
(S) 4-Bromofluorobenzene	*96.8*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3905881-1 03/26/23 23:37

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.0250	0.0236	94.4	19.0-160	
Benzene	0.00500	0.00463	92.6	70.0-123	
Bromodichloromethane	0.00500	0.00458	91.6	75.0-120	
Bromoform	0.00500	0.00425	85.0	68.0-132	
Bromomethane	0.00500	0.00427	85.4	10.0-160	
n-Butylbenzene	0.00500	0.00477	95.4	73.0-125	
sec-Butylbenzene	0.00500	0.00459	91.8	75.0-125	
Carbon disulfide	0.00500	0.00469	93.8	61.0-128	
Carbon tetrachloride	0.00500	0.00514	103	68.0-126	
Chlorobenzene	0.00500	0.00452	90.4	80.0-121	
Chlorodibromomethane	0.00500	0.00448	89.6	77.0-125	
Chloroethane	0.00500	0.00464	92.8	47.0-150	
Chloroform	0.00500	0.00467	93.4	73.0-120	
Chloromethane	0.00500	0.00574	115	41.0-142	
1,2-Dibromoethane	0.00500	0.00438	87.6	80.0-122	
1,1-Dichloroethane	0.00500	0.00449	89.8	70.0-126	
1,2-Dichloroethane	0.00500	0.00491	98.2	70.0-128	
1,1-Dichloroethene	0.00500	0.00447	89.4	71.0-124	
cis-1,2-Dichloroethene	0.00500	0.00487	97.4	73.0-120	
trans-1,2-Dichloroethene	0.00500	0.00474	94.8	73.0-120	
1,2-Dichloropropane	0.00500	0.00446	89.2	77.0-125	
cis-1,3-Dichloropropene	0.00500	0.00471	94.2	80.0-123	

Laboratory Control Sample (LCS)

(LCS) R3905881-1 03/26/23 23:37

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
trans-1,3-Dichloropropene	0.00500	0.00455	91.0	78.0-124	
Ethylbenzene	0.00500	0.00451	90.2	79.0-123	
Isopropylbenzene	0.00500	0.00439	87.8	76.0-127	
p-Isopropyltoluene	0.00500	0.00446	89.2	76.0-125	
2-Butanone (MEK)	0.0250	0.0229	91.6	44.0-160	
2-Hexanone	0.0250	0.0203	81.2	67.0-149	
Methylene Chloride	0.00500	0.00478	95.6	67.0-120	
4-Methyl-2-pentanone (MIBK)	0.0250	0.0221	88.4	68.0-142	
Methyl tert-butyl ether	0.00500	0.00474	94.8	68.0-125	
Naphthalene	0.00500	0.00324	64.8	54.0-135	
n-Propylbenzene	0.00500	0.00462	92.4	77.0-124	
Styrene	0.00500	0.00399	79.8	73.0-130	
tert-Butyl alcohol	0.0250	0.0181	72.4	27.0-160	
1,1,1,2-Tetrachloroethane	0.00500	0.00428	85.6	75.0-125	
1,1,2,2-Tetrachloroethane	0.00500	0.00468	93.6	65.0-130	
Tetrachloroethene	0.00500	0.00474	94.8	72.0-132	
Toluene	0.00500	0.00421	84.2	79.0-120	
1,1,1-Trichloroethane	0.00500	0.00494	98.8	73.0-124	
1,1,2-Trichloroethane	0.00500	0.00424	84.8	80.0-120	
Trichloroethene	0.00500	0.00406	81.2	78.0-124	
1,2,4-Trimethylbenzene	0.00500	0.00451	90.2	76.0-121	
1,3,5-Trimethylbenzene	0.00500	0.00454	90.8	76.0-122	
Vinyl chloride	0.00500	0.00511	102	67.0-131	
o-Xylene	0.00500	0.00440	88.0	80.0-122	
m&p-Xylenes	0.0100	0.00884	88.4	80.0-122	
Xylenes, Total	0.0150	0.0132	88.0	79.0-123	
(S) Toluene-d8			*98.5*	*80.0-120*	
(S) 4-Bromofluorobenzene			*95.1*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*118*	*70.0-130*	

Method Blank (MB)

(MB) R3906411-2 03/27/23 11:43

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
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
2-Hexanone	U		0.000787	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
tert-Butyl alcohol	U		0.00406	0.00500
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

Method Blank (MB)

(MB) R3906411-2 03/27/23 11:43

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,1,2-Trichloroethane	U		0.000158	0.00100
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
o-Xylene	U		0.000174	0.00100
m&p-Xylenes	U		0.000430	0.00200
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	*99.0*			*80.0-120*
(S) 4-Bromofluorobenzene	*85.1*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*85.2*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3906411-1 03/27/23 10:38 • (LCSD) R3906411-3 03/27/23 19:55

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	0.0240	0.0185	96.0	74.0	19.0-160			25.9	27
Benzene	0.00500	0.00587	0.00538	117	108	70.0-123			8.71	20
Bromodichloromethane	0.00500	0.00580	0.00485	116	97.0	75.0-120			17.8	20
Bromoform	0.00500	0.00546	0.00403	109	80.6	68.0-132		J3	30.1	20
Bromomethane	0.00500	0.00376	0.00134	75.2	26.8	10.0-160		J3	94.9	25
n-Butylbenzene	0.00500	0.00561	0.00471	112	94.2	73.0-125			17.4	20
sec-Butylbenzene	0.00500	0.00569	0.00500	114	100	75.0-125			12.9	20
Carbon disulfide	0.00500	0.00586	0.00532	117	106	61.0-128			9.66	20
Carbon tetrachloride	0.00500	0.00544	0.00492	109	98.4	68.0-126			10.0	20
Chlorobenzene	0.00500	0.00583	0.00490	117	98.0	80.0-121			17.3	20
Chlorodibromomethane	0.00500	0.00529	0.00451	106	90.2	77.0-125			15.9	20
Chloroethane	0.00500	0.00558	0.00508	112	102	47.0-150			9.38	20
Chloroform	0.00500	0.00553	0.00497	111	99.4	73.0-120			10.7	20
Chloromethane	0.00500	0.00376	0.00243	75.2	48.6	41.0-142		J3	43.0	20
1,2-Dibromoethane	0.00500	0.00569	0.00462	114	92.4	80.0-122		J3	20.8	20
1,1-Dichloroethane	0.00500	0.00558	0.00471	112	94.2	70.0-126			16.9	20
1,2-Dichloroethane	0.00500	0.00532	0.00434	106	86.8	70.0-128		J3	20.3	20
1,1-Dichloroethene	0.00500	0.00595	0.00529	119	106	71.0-124			11.7	20
cis-1,2-Dichloroethene	0.00500	0.00579	0.00512	116	102	73.0-120			12.3	20
trans-1,2-Dichloroethene	0.00500	0.00573	0.00534	115	107	73.0-120			7.05	20
1,2-Dichloropropane	0.00500	0.00542	0.00456	108	91.2	77.0-125			17.2	20
cis-1,3-Dichloropropene	0.00500	0.00537	0.00441	107	88.2	80.0-123			19.6	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3906411-1 03/27/23 10:38 • (LCSD) R3906411-3 03/27/23 19:55

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	0.00511	0.00390	102	78.0	78.0-124		J3	26.9	20
Ethylbenzene	0.00500	0.00553	0.00476	111	95.2	79.0-123			15.0	20
Isopropylbenzene	0.00500	0.00550	0.00467	110	93.4	76.0-127			16.3	20
p-Isopropyltoluene	0.00500	0.00540	0.00474	108	94.8	76.0-125			13.0	20
2-Butanone (MEK)	0.0250	0.0232	0.0174	92.8	69.6	44.0-160		J3	28.6	20
2-Hexanone	0.0250	0.0233	0.0168	93.2	67.2	67.0-149		J3	32.4	20
Methylene Chloride	0.00500	0.00606	0.00513	121	103	67.0-120	J4		16.6	20
4-Methyl-2-pentanone (MIBK)	0.0250	0.0217	0.0164	86.8	65.6	68.0-142		J3 J4	27.8	20
Methyl tert-butyl ether	0.00500	0.00562	0.00443	112	88.6	68.0-125		J3	23.7	20
Naphthalene	0.00500	0.00360	0.00239	72.0	47.8	54.0-135		J3 J4	40.4	20
n-Propylbenzene	0.00500	0.00553	0.00485	111	97.0	77.0-124			13.1	20
Styrene	0.00500	0.00563	0.00468	113	93.6	73.0-130			18.4	20
tert-Butyl alcohol	0.0250	0.0262	0.0248	105	99.2	27.0-160			5.49	30
1,1,1,2-Tetrachloroethane	0.00500	0.00540	0.00476	108	95.2	75.0-125			12.6	20
1,1,2,2-Tetrachloroethane	0.00500	0.00582	0.00433	116	86.6	65.0-130		J3	29.4	20
Tetrachloroethene	0.00500	0.00561	0.00493	112	98.6	72.0-132			12.9	20
Toluene	0.00500	0.00576	0.00489	115	97.8	79.0-120			16.3	20
1,1,1-Trichloroethane	0.00500	0.00578	0.00495	116	99.0	73.0-124			15.5	20
1,1,2-Trichloroethane	0.00500	0.00568	0.00487	114	97.4	80.0-120			15.4	20
Trichloroethene	0.00500	0.00584	0.00511	117	102	78.0-124			13.3	20
1,2,4-Trimethylbenzene	0.00500	0.00569	0.00485	114	97.0	76.0-121			15.9	20
1,3,5-Trimethylbenzene	0.00500	0.00564	0.00500	113	100	76.0-122			12.0	20
Vinyl chloride	0.00500	0.00525	0.00439	105	87.8	67.0-131			17.8	20
o-Xylene	0.00500	0.00545	0.00477	109	95.4	80.0-122			13.3	20
m&p-Xylenes	0.0100	0.0112	0.00980	112	98.0	80.0-122			13.3	20
Xylenes, Total	0.0150	0.0167	0.0146	111	97.3	79.0-123			13.4	20
(S) Toluene-d8				*94.7*	*93.6*	*80.0-120*				
(S) 4-Bromofluorobenzene				*88.6*	*88.3*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*87.3*	*83.8*	*70.0-130*				

Method Blank (MB)

(MB) R3906255-2 03/27/23 17:01

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
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
2-Hexanone	U		0.000787	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
tert-Butyl alcohol	U		0.00406	0.00500
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

Method Blank (MB)

(MB) R3906255-2 03/27/23 17:01

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,1,2-Trichloroethane	U		0.000158	0.00100
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
o-Xylene	U		0.000174	0.00100
m&p-Xylenes	U		0.000430	0.00200
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	*107*			*80.0-120*
(S) 4-Bromofluorobenzene	*96.9*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3906255-1 03/27/23 16:20

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.0250	0.0248	99.2	19.0-160	
Benzene	0.00500	0.00487	97.4	70.0-123	
Bromodichloromethane	0.00500	0.00437	87.4	75.0-120	
Bromoform	0.00500	0.00381	76.2	68.0-132	
Bromomethane	0.00500	0.00526	105	10.0-160	
n-Butylbenzene	0.00500	0.00448	89.6	73.0-125	
sec-Butylbenzene	0.00500	0.00473	94.6	75.0-125	
Carbon disulfide	0.00500	0.00436	87.2	61.0-128	
Carbon tetrachloride	0.00500	0.00462	92.4	68.0-126	
Chlorobenzene	0.00500	0.00479	95.8	80.0-121	
Chlorodibromomethane	0.00500	0.00389	77.8	77.0-125	
Chloroethane	0.00500	0.00190	38.0	47.0-150	J4
Chloroform	0.00500	0.00479	95.8	73.0-120	
Chloromethane	0.00500	0.00505	101	41.0-142	
1,2-Dibromoethane	0.00500	0.00452	90.4	80.0-122	
1,1-Dichloroethane	0.00500	0.00477	95.4	70.0-126	
1,2-Dichloroethane	0.00500	0.00437	87.4	70.0-128	
1,1-Dichloroethene	0.00500	0.00476	95.2	71.0-124	
cis-1,2-Dichloroethene	0.00500	0.00473	94.6	73.0-120	
trans-1,2-Dichloroethene	0.00500	0.00465	93.0	73.0-120	
1,2-Dichloropropane	0.00500	0.00489	97.8	77.0-125	
cis-1,3-Dichloropropene	0.00500	0.00451	90.2	80.0-123	

Laboratory Control Sample (LCS)

(LCS) R3906255-1 03/27/23 16:20

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
trans-1,3-Dichloropropene	0.00500	0.00411	82.2	78.0-124	
Ethylbenzene	0.00500	0.00492	98.4	79.0-123	
Isopropylbenzene	0.00500	0.00479	95.8	76.0-127	
p-Isopropyltoluene	0.00500	0.00473	94.6	76.0-125	
2-Butanone (MEK)	0.0250	0.0247	98.8	44.0-160	
2-Hexanone	0.0250	0.0236	94.4	67.0-149	
Methylene Chloride	0.00500	0.00498	99.6	67.0-120	
4-Methyl-2-pentanone (MIBK)	0.0250	0.0232	92.8	68.0-142	
Methyl tert-butyl ether	0.00500	0.00467	93.4	68.0-125	
Naphthalene	0.00500	0.00440	88.0	54.0-135	
n-Propylbenzene	0.00500	0.00462	92.4	77.0-124	
Styrene	0.00500	0.00455	91.0	73.0-130	
tert-Butyl alcohol	0.0250	0.0261	104	27.0-160	
1,1,1,2-Tetrachloroethane	0.00500	0.00495	99.0	75.0-125	
1,1,2,2-Tetrachloroethane	0.00500	0.00433	86.6	65.0-130	
Tetrachloroethene	0.00500	0.00481	96.2	72.0-132	
Toluene	0.00500	0.00469	93.8	79.0-120	
1,1,1-Trichloroethane	0.00500	0.00490	98.0	73.0-124	
1,1,2-Trichloroethane	0.00500	0.00447	89.4	80.0-120	
Trichloroethene	0.00500	0.00472	94.4	78.0-124	
1,2,4-Trimethylbenzene	0.00500	0.00469	93.8	76.0-121	
1,3,5-Trimethylbenzene	0.00500	0.00475	95.0	76.0-122	
Vinyl chloride	0.00500	0.00528	106	67.0-131	
o-Xylene	0.00500	0.00472	94.4	80.0-122	
m&p-Xylenes	0.0100	0.00978	97.8	80.0-122	
Xylenes, Total	0.0150	0.0145	96.7	79.0-123	
(S) Toluene-d8			*105*	*80.0-120*	
(S) 4-Bromofluorobenzene			*93.8*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*102*	*70.0-130*	

Method Blank (MB)

(MB) R3906758-3 03/28/23 23:46

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.0000941	0.00100
sec-Butylbenzene	U		0.000125	0.00100
Isopropylbenzene	U		0.000105	0.00100
Methyl tert-butyl ether	U		0.000101	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.0000993	0.00100
tert-Butyl alcohol	U		0.00406	0.00500
(S) Toluene-d8	*104*			*80.0-120*
(S) 4-Bromofluorobenzene	*93.6*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3906758-1 03/28/23 22:29 • (LCSD) R3906758-2 03/28/23 22:48

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	0.00435	0.00443	87.0	88.6	70.0-123			1.82	20
sec-Butylbenzene	0.00500	0.00515	0.00511	103	102	75.0-125			0.780	20
Isopropylbenzene	0.00500	0.00444	0.00445	88.8	89.0	76.0-127			0.225	20
Methyl tert-butyl ether	0.00500	0.00508	0.00506	102	101	68.0-125			0.394	20
Naphthalene	0.00500	0.00453	0.00479	90.6	95.8	54.0-135			5.58	20
n-Propylbenzene	0.00500	0.00541	0.00551	108	110	77.0-124			1.83	20
tert-Butyl alcohol	0.0250	0.0231	0.0225	92.4	90.0	27.0-160			2.63	30
(S) Toluene-d8				*103*	*101*	*80.0-120*				
(S) 4-Bromofluorobenzene				*95.3*	*94.1*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*111*	*113*	*70.0-130*				

Method Blank (MB)

(MB) R3906755-3 03/29/23 00:34

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
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
2-Hexanone	U		0.000787	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
tert-Butyl alcohol	U		0.00406	0.00500
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

Method Blank (MB)

(MB) R3906755-3 03/29/23 00:34

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,1,2-Trichloroethane	U		0.000158	0.00100
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
o-Xylene	U		0.000174	0.00100
m&p-Xylenes	U		0.000430	0.00200
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	*105*			*80.0-120*
(S) 4-Bromofluorobenzene	*95.3*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*100*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3906755-1 03/28/23 23:32 • (LCSD) R3906755-2 03/28/23 23:53

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	0.0249	0.0242	99.6	96.8	19.0-160			2.85	27
Benzene	0.00500	0.00456	0.00490	91.2	98.0	70.0-123			7.19	20
Bromodichloromethane	0.00500	0.00429	0.00469	85.8	93.8	75.0-120			8.91	20
Bromoform	0.00500	0.00382	0.00384	76.4	76.8	68.0-132			0.522	20
Bromomethane	0.00500	0.00422	0.00440	84.4	88.0	10.0-160			4.18	25
n-Butylbenzene	0.00500	0.00389	0.00418	77.8	83.6	73.0-125			7.19	20
sec-Butylbenzene	0.00500	0.00420	0.00459	84.0	91.8	75.0-125			8.87	20
Carbon disulfide	0.00500	0.00497	0.00524	99.4	105	61.0-128			5.29	20
Carbon tetrachloride	0.00500	0.00449	0.00494	89.8	98.8	68.0-126			9.54	20
Chlorobenzene	0.00500	0.00473	0.00462	94.6	92.4	80.0-121			2.35	20
Chlorodibromomethane	0.00500	0.00405	0.00406	81.0	81.2	77.0-125			0.247	20
Chloroethane	0.00500	0.00563	0.00591	113	118	47.0-150			4.85	20
Chloroform	0.00500	0.00450	0.00455	90.0	91.0	73.0-120			1.10	20
Chloromethane	0.00500	0.00540	0.00573	108	115	41.0-142			5.93	20
1,2-Dibromoethane	0.00500	0.00404	0.00423	80.8	84.6	80.0-122			4.59	20
1,1-Dichloroethane	0.00500	0.00475	0.00481	95.0	96.2	70.0-126			1.26	20
1,2-Dichloroethane	0.00500	0.00436	0.00460	87.2	92.0	70.0-128			5.36	20
1,1-Dichloroethene	0.00500	0.00480	0.00524	96.0	105	71.0-124			8.76	20
cis-1,2-Dichloroethene	0.00500	0.00454	0.00471	90.8	94.2	73.0-120			3.68	20
trans-1,2-Dichloroethene	0.00500	0.00469	0.00513	93.8	103	73.0-120			8.96	20
1,2-Dichloropropane	0.00500	0.00449	0.00458	89.8	91.6	77.0-125			1.98	20
cis-1,3-Dichloropropene	0.00500	0.00421	0.00432	84.2	86.4	80.0-123			2.58	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3906755-1 03/28/23 23:32 • (LCSD) R3906755-2 03/28/23 23:53

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	0.00413	0.00407	82.6	81.4	78.0-124			1.46	20
Ethylbenzene	0.00500	0.00467	0.00496	93.4	99.2	79.0-123			6.02	20
Isopropylbenzene	0.00500	0.00458	0.00473	91.6	94.6	76.0-127			3.22	20
p-Isopropyltoluene	0.00500	0.00421	0.00463	84.2	92.6	76.0-125			9.50	20
2-Butanone (MEK)	0.0250	0.0232	0.0238	92.8	95.2	44.0-160			2.55	20
2-Hexanone	0.0250	0.0227	0.0224	90.8	89.6	67.0-149			1.33	20
Methylene Chloride	0.00500	0.00475	0.00496	95.0	99.2	67.0-120			4.33	20
4-Methyl-2-pentanone (MIBK)	0.0250	0.0224	0.0219	89.6	87.6	68.0-142			2.26	20
Methyl tert-butyl ether	0.00500	0.00418	0.00423	83.6	84.6	68.0-125			1.19	20
Naphthalene	0.00500	0.00386	0.00408	77.2	81.6	54.0-135			5.54	20
n-Propylbenzene	0.00500	0.00435	0.00484	87.0	96.8	77.0-124			10.7	20
Styrene	0.00500	0.00447	0.00444	89.4	88.8	73.0-130			0.673	20
tert-Butyl alcohol	0.0250	0.0245	0.0226	98.0	90.4	27.0-160			8.07	30
1,1,1,2-Tetrachloroethane	0.00500	0.00456	0.00455	91.2	91.0	75.0-125			0.220	20
1,1,2,2-Tetrachloroethane	0.00500	0.00411	0.00425	82.2	85.0	65.0-130			3.35	20
Tetrachloroethene	0.00500	0.00460	0.00485	92.0	97.0	72.0-132			5.29	20
Toluene	0.00500	0.00469	0.00481	93.8	96.2	79.0-120			2.53	20
1,1,1-Trichloroethane	0.00500	0.00471	0.00495	94.2	99.0	73.0-124			4.97	20
1,1,2-Trichloroethane	0.00500	0.00405	0.00412	81.0	82.4	80.0-120			1.71	20
Trichloroethene	0.00500	0.00451	0.00459	90.2	91.8	78.0-124			1.76	20
1,2,4-Trimethylbenzene	0.00500	0.00447	0.00464	89.4	92.8	76.0-121			3.73	20
1,3,5-Trimethylbenzene	0.00500	0.00450	0.00483	90.0	96.6	76.0-122			7.07	20
Vinyl chloride	0.00500	0.00561	0.00607	112	121	67.0-131			7.88	20
o-Xylene	0.00500	0.00441	0.00455	88.2	91.0	80.0-122			3.13	20
m&p-Xylenes	0.0100	0.00917	0.00949	91.7	94.9	80.0-122			3.43	20
Xylenes, Total	0.0150	0.0136	0.0140	90.7	93.3	79.0-123			2.90	20
(S) Toluene-d8				*104*	*103*	*80.0-120*				
(S) 4-Bromofluorobenzene				*97.1*	*94.4*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*100*	*101*	*70.0-130*				

Method Blank (MB)

(MB) R3906418-1 03/28/23 14:49

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Ethylene Dibromide	U		0.00000536	0.0000200

L1597389-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1597389-04 03/28/23 15:37 • (DUP) R3906418-3 03/28/23 15:25

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) R3906418-4 03/28/23 17:36 • (LCSD) R3906418-5 03/28/23 20:10

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 %
Ethylene Dibromide	0.000250	0.000193	0.000194	77.2	77.6	60.0-140			0.517	20

L1597411-10 Original Sample (OS) • Matrix Spike (MS)

(OS) L1597411-10 03/28/23 15:13 • (MS) R3906418-2 03/28/23 15:01

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Ethylene Dibromide	0.0000984	U	0.0000998	101	1	64.0-159	

Method Blank (MB)

(MB) R3906691-1 03/29/23 01:28

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) High Fraction	0.0666	J	0.0247	0.100
(S) o-Terphenyl	*132*			*31.0-160*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3906691-2 03/29/23 01:48 • (LCSD) R3906691-3 03/29/23 02:08

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 %
TPH (GC/FID) High Fraction	1.50	1.91	1.92	127	128	50.0-150			0.522	20
(S) o-Terphenyl				*111*	*124*	*31.0-160*				

Semi-Volatile Organic Compounds (GC) by Method 3511/8015 L1597201-14,15,16,17,18,19,20,22,23,24,25,26,27,28,29,30,36,37,38,39

Method Blank (MB)

(MB) R3906595-1 03/28/23 15:22

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	*118*			*31.0-160*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3906595-2 03/28/23 15:43 • (LCSD) R3906595-3 03/28/23 16:03

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 %
TPH (GC/FID) High Fraction	1.50	1.39	1.47	92.7	98.0	50.0-150			5.59	20
(S) o-Terphenyl				*104*	*121*	*31.0-160*				

Method Blank (MB)

(MB) R3906590-1 03/28/23 14:12

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) High Fraction	0.0613	J	0.0247	0.100
(S) o-Terphenyl	*150*			*31.0-160*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3906590-2 03/28/23 14:37 • (LCSD) R3906590-3 03/28/23 14:57

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	1.93	2.01	129	134	50.0-150			4.06	20
(S) o-Terphenyl				*149*	*142*	*31.0-160*				

Method Blank (MB)

(MB) R3907029-1 03/29/23 02:28

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) High Fraction	0.0810	J	0.0247	0.100
(S) o-Terphenyl	*77.0*			*31.0-160*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3907029-2 03/29/23 02:48 • (LCSD) R3907029-3 03/29/23 03:07

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	1.47	1.38	98.0	92.0	50.0-150			6.32	20
(S) o-Terphenyl				*82.0*	*74.5*	*31.0-160*				

Method Blank (MB)

(MB) R3904954-2 03/23/23 09:27

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	*55.6*			*10.0-120*

Laboratory Control Sample (LCS)

(LCS) R3904954-1 03/23/23 09:08

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
1,4-Dioxane	0.0500	0.0420	84.0	73.0-146	
(S) Nitrobenzene-d5			*59.1*	*10.0-120*	

L1597244-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597244-05 03/23/23 14:17 • (MS) R3904954-3 03/23/23 14:36 • (MSD) R3904954-4 03/23/23 14:56

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 %
1,4-Dioxane	0.0500	0.0000893	0.0428	0.0430	85.4	85.8	1	38.0-160			0.466	21
(S) Nitrobenzene-d5					*59.1*	*49.1*		*10.0-120*				

Method Blank (MB)

(MB) R3906541-2 03/28/23 09:42

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
Benzo(a)anthracene	U		0.000199	0.00100
Benzaldehyde	U		0.00169	0.0100
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
2-Chloronaphthalene	U		0.0000648	0.00100
4-Chlorophenyl-phenylether	U		0.0000926	0.0100
Caprolactam	U		0.000309	0.0100
Carbazole	U		0.000111	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
Nitrobenzene	U		0.000297	0.0100
n-Nitrosodiphenylamine	U		0.00237	0.0100
n-Nitrosodi-n-propylamine	U		0.000261	0.0100

Method Blank (MB)

(MB) R3906541-2 03/28/23 09:42

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
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
2,4-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
2-Nitroaniline	U		0.000102	0.0100
2-Methylphenol	U		0.0000929	0.0100
3&4-Methyl Phenol	U		0.000168	0.0100
3-Nitroaniline	U		0.0000869	0.0100
4-Chloroaniline	U		0.000234	0.0100
4-Nitroaniline	U		0.0000910	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) 2-Fluorophenol	*29.3*			*10.0-120*
(S) Phenol-d5	*18.2*			*10.0-120*
(S) Nitrobenzene-d5	*66.8*			*10.0-127*
(S) 2-Fluorobiphenyl	*77.7*			*10.0-130*
(S) 2,4,6-Tribromophenol	*72.0*			*10.0-155*
(S) p-Terphenyl-d14	*84.7*			*10.0-128*

Laboratory Control Sample (LCS)

(LCS) R3906541-1 03/28/23 09:21

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acenaphthene	0.0500	0.0351	70.2	41.0-120	
Acenaphthylene	0.0500	0.0371	74.2	43.0-120	
Acetophenone	0.0500	0.0325	65.0	29.0-120	
Anthracene	0.0500	0.0361	72.2	45.0-120	
Atrazine	0.0500	0.0416	83.2	39.0-141	
Benzo(a)anthracene	0.0500	0.0408	81.6	47.0-120	
Benzaldehyde	0.0500	0.0962	192	10.0-160	J4
Benzo(b)fluoranthene	0.0500	0.0399	79.8	46.0-120	
Benzo(k)fluoranthene	0.0500	0.0391	78.2	46.0-120	
Benzo(g,h,i)perylene	0.0500	0.0429	85.8	48.0-121	
Benzo(a)pyrene	0.0500	0.0428	85.6	47.0-120	
Biphenyl	0.0500	0.0353	70.6	38.0-120	
Bis(2-chlorethoxy)methane	0.0500	0.0313	62.6	33.0-120	
Bis(2-chloroethyl)ether	0.0500	0.0332	66.4	23.0-120	
2,2-Oxybis(1-Chloropropane)	0.0500	0.0318	63.6	28.0-120	
4-Bromophenyl-phenylether	0.0500	0.0383	76.6	45.0-120	
2-Chloronaphthalene	0.0500	0.0351	70.2	37.0-120	
4-Chlorophenyl-phenylether	0.0500	0.0361	72.2	44.0-120	
Caprolactam	0.0500	0.00856	17.1	10.0-120	
Carbazole	0.0500	0.0387	77.4	51.0-122	
Chrysene	0.0500	0.0409	81.8	48.0-120	
Dibenz(a,h)anthracene	0.0500	0.0455	91.0	47.0-120	
Dibenzofuran	0.0500	0.0355	71.0	44.0-120	
3,3-Dichlorobenzidine	0.100	0.0784	78.4	44.0-120	
2,4-Dinitrotoluene	0.0500	0.0409	81.8	49.0-124	
2,6-Dinitrotoluene	0.0500	0.0386	77.2	46.0-120	
Fluoranthene	0.0500	0.0408	81.6	51.0-120	
Fluorene	0.0500	0.0351	70.2	47.0-120	
Hexachlorobenzene	0.0500	0.0396	79.2	44.0-120	
Hexachloro-1,3-butadiene	0.0500	0.0323	64.6	19.0-120	
Hexachlorocyclopentadiene	0.0500	0.0339	67.8	15.0-120	
Hexachloroethane	0.0500	0.0301	60.2	15.0-120	
Indeno(1,2,3-cd)pyrene	0.0500	0.0404	80.8	49.0-122	
Isophorone	0.0500	0.0300	60.0	36.0-120	
1-Methylnaphthalene	0.0500	0.0308	61.6	33.0-120	
2-Methylnaphthalene	0.0500	0.0309	61.8	33.0-120	
Naphthalene	0.0500	0.0306	61.2	27.0-120	
Nitrobenzene	0.0500	0.0311	62.2	27.0-120	
n-Nitrosodiphenylamine	0.0500	0.0356	71.2	47.0-120	
n-Nitrosodi-n-propylamine	0.0500	0.0304	60.8	31.0-120	

Laboratory Control Sample (LCS)

(LCS) R3906541-1 03/28/23 09:21

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Phenanthrene	0.0500	0.0364	72.8	46.0-120	
Benzylbutyl phthalate	0.0500	0.0360	72.0	43.0-121	
Bis(2-ethylhexyl)phthalate	0.0500	0.0379	75.8	43.0-122	
Di-n-butyl phthalate	0.0500	0.0379	75.8	49.0-121	
Diethyl phthalate	0.0500	0.0357	71.4	48.0-122	
Dimethyl phthalate	0.0500	0.0370	74.0	48.0-120	
Di-n-octyl phthalate	0.0500	0.0380	76.0	42.0-125	
Pyrene	0.0500	0.0361	72.2	47.0-120	
1,2,4-Trichlorobenzene	0.0500	0.0323	64.6	24.0-120	
4-Chloro-3-methylphenol	0.0500	0.0262	52.4	40.0-120	
2-Chlorophenol	0.0500	0.0256	51.2	25.0-120	
2,4-Dichlorophenol	0.0500	0.0299	59.8	36.0-120	
2,4-Dimethylphenol	0.0500	0.0228	45.6	33.0-120	
4,6-Dinitro-2-methylphenol	0.0500	0.0490	98.0	38.0-138	
2,4-Dinitrophenol	0.0500	0.0493	98.6	10.0-120	
2-Nitrophenol	0.0500	0.0346	69.2	31.0-120	
2-Nitroaniline	0.0500	0.0413	82.6	43.0-120	
2-Methylphenol	0.0500	0.0207	41.4	28.0-120	
3&4-Methyl Phenol	0.0500	0.0212	42.4	31.0-120	
3-Nitroaniline	0.0500	0.0370	74.0	38.0-120	
4-Chloroaniline	0.0500	0.0245	49.0	25.0-120	
4-Nitroaniline	0.0500	0.0399	79.8	18.0-160	
4-Nitrophenol	0.0500	0.0138	27.6	10.0-120	
Pentachlorophenol	0.0500	0.0399	79.8	23.0-120	
Phenol	0.0500	0.0100	20.0	10.0-120	
2,4,5-Trichlorophenol	0.0500	0.0386	77.2	44.0-120	
2,4,6-Trichlorophenol	0.0500	0.0380	76.0	42.0-120	
(S) 2-Fluorophenol			*31.1*	*10.0-120*	
(S) Phenol-d5			*19.0*	*10.0-120*	
(S) Nitrobenzene-d5			*57.7*	*10.0-127*	
(S) 2-Fluorobiphenyl			*71.3*	*10.0-130*	
(S) 2,4,6-Tribromophenol			*80.5*	*10.0-155*	
(S) p-Terphenyl-d14			*76.9*	*10.0-128*	

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.
O1	The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.

GLOSSARY OF TERMS

Qualifier	Description
Q	Sample was prepared and/or analyzed past holding time as defined in the method. Concentrations should be considered minimum values.
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.

Released to Imaging: 6/28/2024 11:23:28 AM

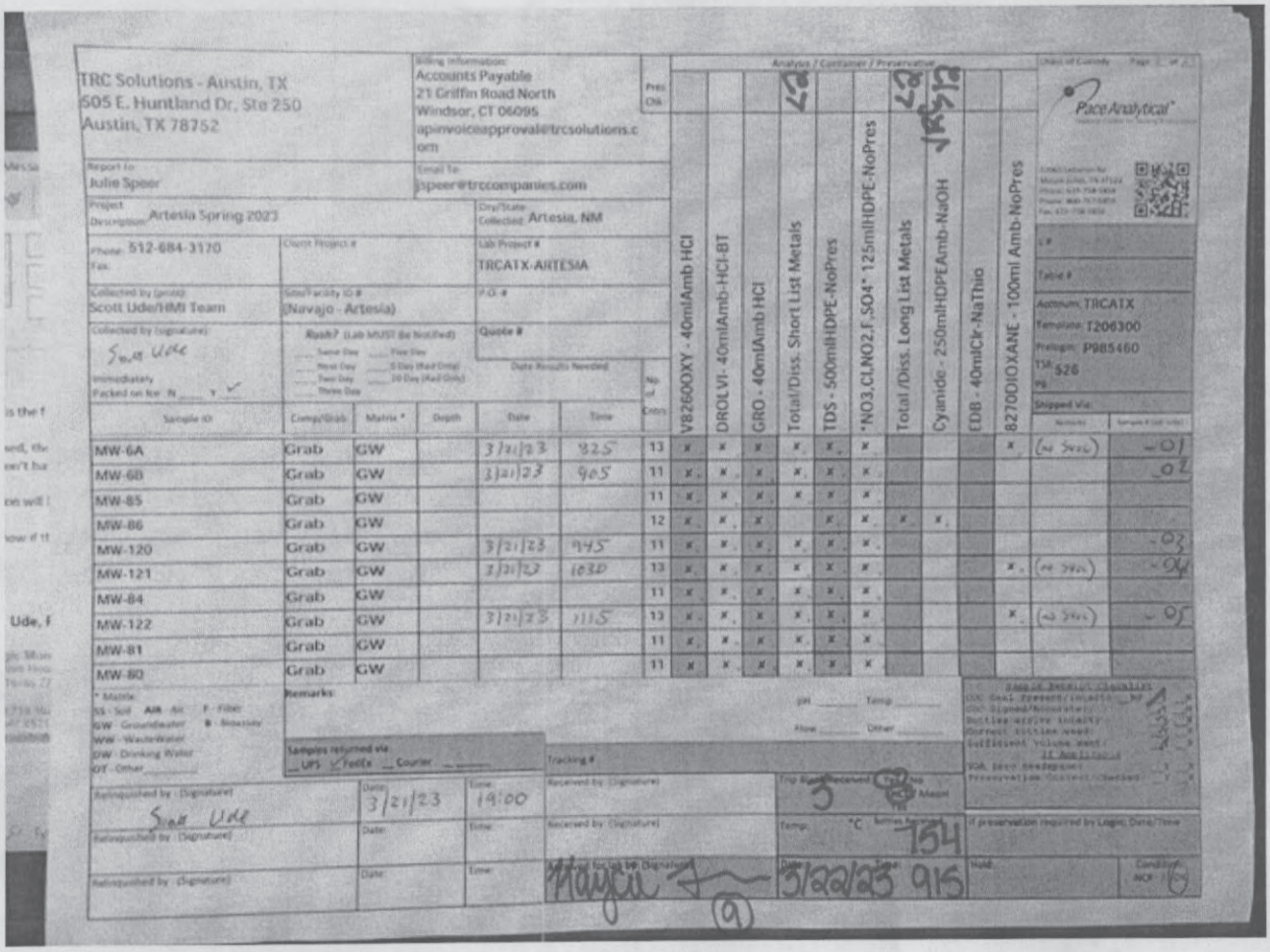
Hydrologic Monitoring
1654 W. Sam Houston Pkwy. N.
Houston, Texas 77043

Direct 713.714.1624
Cell 832.347.4521
ude@hmigroundwater.com

From: Ude, Scott <ude@hmigroundwater.com>
Sent: Tuesday, March 21, 2023 10:26 PM
To: Ude, Scott <ude@hmigroundwater.com>
Subject: Artesia COC, 3-21-23

D077

L159 7201



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 Spring 2023
City/State Collected: Artesia, NM
Phone: 512-684-3170
Client Project #
Lab Project #: TRCATX-ARTESIA
Collected by (print): Scott Ude/HMI Team
Site/Facility ID #: (Navajo - Artesia)
P.O. #
Collected by (signature): Scott Ude
Rush? (Lab MUST Be Notified)
Quote #
Date Results Needed
Packed on Ice: N ___ Y ✓

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/Diss. Short List Metals	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total /Diss. Long List Metals	Cyanide - 250mlHDPEAmb-NaOH	CDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	
MW-6A	Grab	GW		3/21/23	825	13	x	x	x	x	x	x				x	-01
MW-6B	Grab	GW		3/21/23	905	11	x	x	x	x	x	x					-02
MW-85	Grab	GW				11	x	x	x	x	x	x					
MW-86	Grab	GW				12	x	x	x		x	x	x	x			
MW-120	Grab	GW		3/21/23	945	11	x	x	x	x	x	x					-03
MW-121	Grab	GW		3/21/23	1030	13	x	x	x	x	x	x				x	-04
MW-84	Grab	GW				11	x	x	x	x	x	x					
MW-122	Grab	GW		3/21/23	1115	13	x	x	x	x	x	x				x	-05
MW-81	Grab	GW				11	x	x	x	x	x	x					
MW-80	Grab	GW				11	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 #

Relinquished by: (Signature) Scott Ude — Date: 3/21/23 — Time: 19:00
Received by: (Signature)
Trip Blank Received: Yes / No — HCL / MeOH
Relinquished by: (Signature) — Date: — Time:
Received by: (Signature)
Temp: °C — Bottles Received: 15
Relinquished by: (Signature) — Date: — Time:
Received by: (Signature) Maycie — Date: 3/22/23 — Time: 915
Hold — Condition: NCF

Pace Analytical

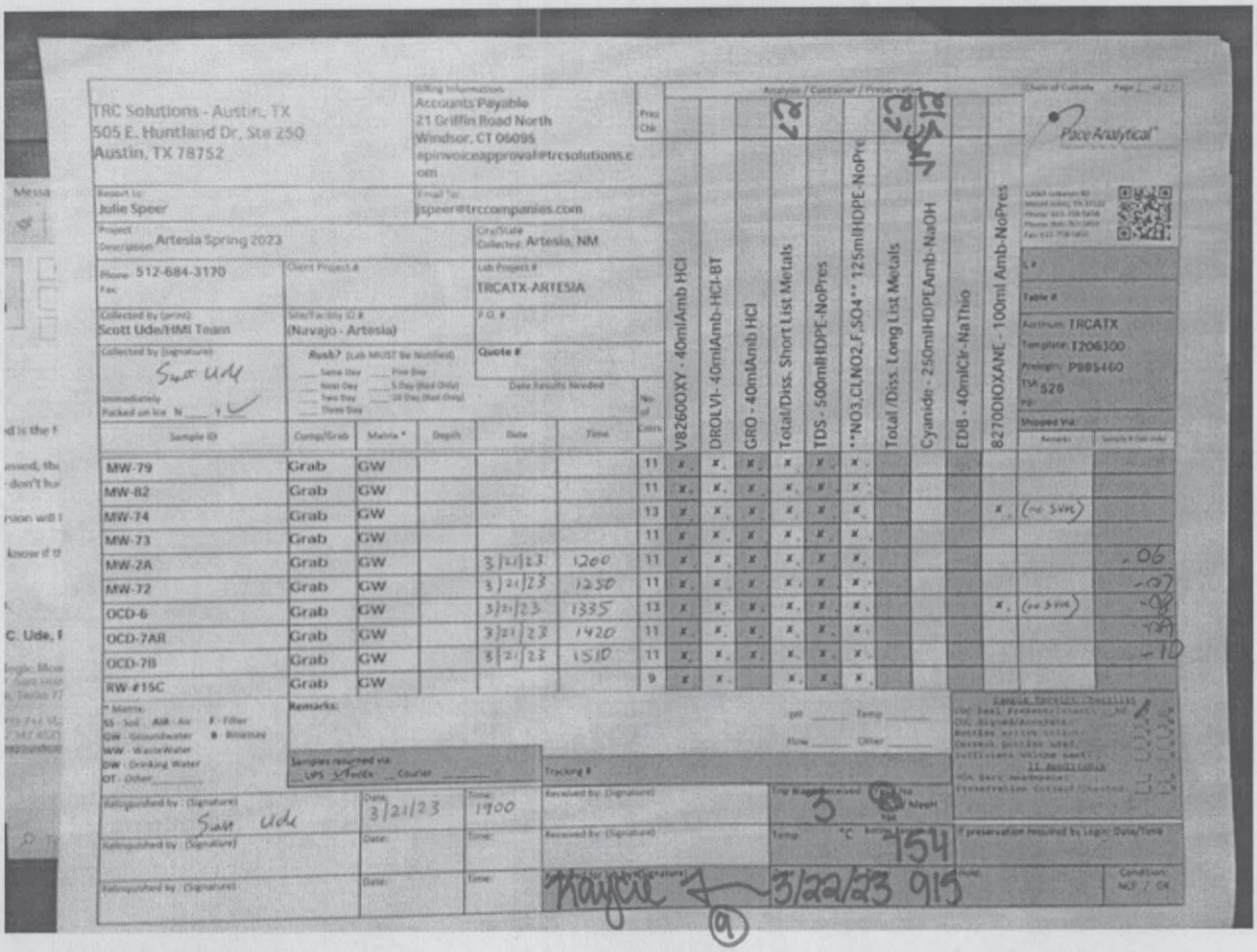
Lab # — Table # — Acctnum: TRCATX — Template: T206300 — Prelogin: P985460 — TSR: 526 — PM — Shipped Via:

Sample # (Lab only)

Page 420 of 1657

Received by OCD: 6/12/2024 3:31:05 PM

Released to Imaging: 6/28/2024 11:23:28 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

Project Description: Artesia Spring 2023
City/State Collected: Artesia, NM

Phone: 512-684-3170
Client Project #
Lab Project #: TRCATX-ARTESIA

Collected By (printed): Scott Ude/HMI Team
Site/Facility ID #: (Navajo - Artesia)
P.O. #

Collected By (signature): Scott Ude
Rush? (Lab MUST Be Notified)
Quote #
Date Results Needed
Immediately Packed on Ice: N ___ Y ✓

Analysis / Container / Preservation

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260OXY - 40mlAmb HCl	DROLVI - 40mlAmb-HCl-BT	GRO - 40mlAmb HCl	Total/Diss. Short List Metals	TDS - 500mlHDPE-NoPres	**NO3,CLNO2,F,SO4** 125mlHDPE-NoPres	Total /Diss. Long List Metals	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (Lab only)
MW-79	Grab	GW				11	x	x	x	x	x	x						
MW-82	Grab	GW				11	x	x	x	x	x	x						
MW-74	Grab	GW				13	x	x	x	x	x	x				x	(no SVE)	
MW-73	Grab	GW				11	x	x	x	x	x	x						
MW-2A	Grab	GW		3/21/23	1200	11	x	x	x	x	x	x						-06
MW-72	Grab	GW		3/21/23	1250	11	x	x	x	x	x	x						-07
OCD-6	Grab	GW		3/21/23	1335	13	x	x	x	x	x	x				x	(no SVE)	-08
OCD-7AR	Grab	GW		3/21/23	1420	11	x	x	x	x	x	x						-09
OCD-7B	Grab	GW		3/21/23	1510	11	x	x	x	x	x	x						-10
RW-#15C	Grab	GW				9	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 #

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	3/21/23	1900	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)

Trip Blank Received: Yes / No
HCL / MeoH
Temp: °C 1.54
Received: 3/22/23 915
Condition: NCF / OK

Chain of Custody — Page ___ of ___
Pace Analytical

Lab # ___
Table # ___
Acctnum: TRCATX
Template: T206300
Prelogin: P885460
TSR: 526
PO: ___
Shipped Via: ___

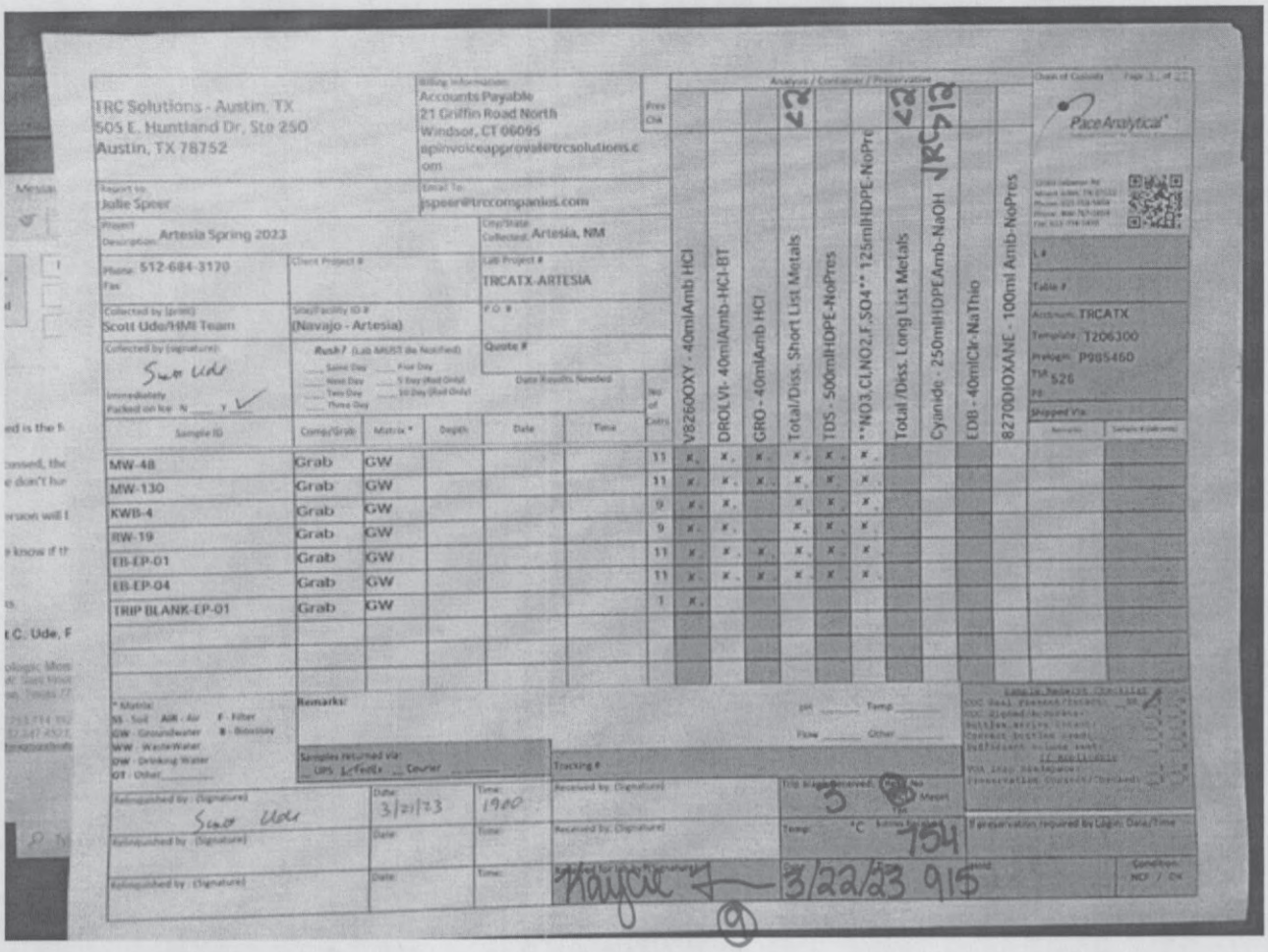
Sample Receipt Checklist
COC Seal Present/Intact: NP
COC Signed/Accurate: ___
Bottles arrive intact: ___
Correct bottles used: ___
Sufficient volume sent: ___
If Applicable
VOA Zero Headspace: ___
Preservation Correct/Checked: ___

If preservation required by Login: Date/Time

(9)

Received by OCD: 6/12/2024 3:31:05 PM

Released to Imaging: 6/28/2024 11:23:28 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@trcompanies.com

Project Description: Artesia Spring 2023 | City/State Collected: Artesia, NM

Phone: 512-684-3170 | Client Project # | Lab Project #: TRCATX-ARTESIA

Collected by (print): Scott Ude/HMI Team | Site/Facility ID #: (Navajo - Artesia) | P.O. #

Collected by (signature): Scott Ude | Immediately Packed on Ice: N ___ Y ✓ | Rush? (Lab MUST be Notified): Same Day, Next Day, Two Day, Three Day, Four Day, 5 Day (Rad Only), 10 Day (Rad Only) | Quote # | Date Results Needed

Analysis / Container / Preservation

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260OXY - 40mlAmb HCl	DROLVI- 40mlAmb-HCl-BT	GRO - 40mlAmb HCl	Total/Diss. Short List Metals	TDS - 500mlHDPE-NoPres	**NO3,Cl,NO2,F,SO4** 125mlHDPE-NoPres	Total /Diss. Long List Metals	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres
MW-48	Grab	GW				11	X	X	X	X	X	X				
MW-130	Grab	GW				11	X	X	X	X	X	X				
KWB-4	Grab	GW				9	X	X		X	X	X				
RW-19	Grab	GW				9	X	X		X	X	X				
EB-EP-01	Grab	GW				11	X	X	X	X	X	X				
EB-EP-04	Grab	GW				11	X	X	X	X	X	X				
TRIP BLANK-EP-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 #

Relinquished by: (Signature) Scott Ude | Date: 3/21/23 | Time: 1900 | Received by: (Signature)

Relinquished by: (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No | HCL / MeOH | Temp: °C | Bottles Received: 754

Relinquished by: (Signature) | Date: | Time: | Received by: (Signature) Kayla Z | Date: 3/22/23 | Time: 915 | If preservation required by Login: Date/Time

Condition: NCF / OK

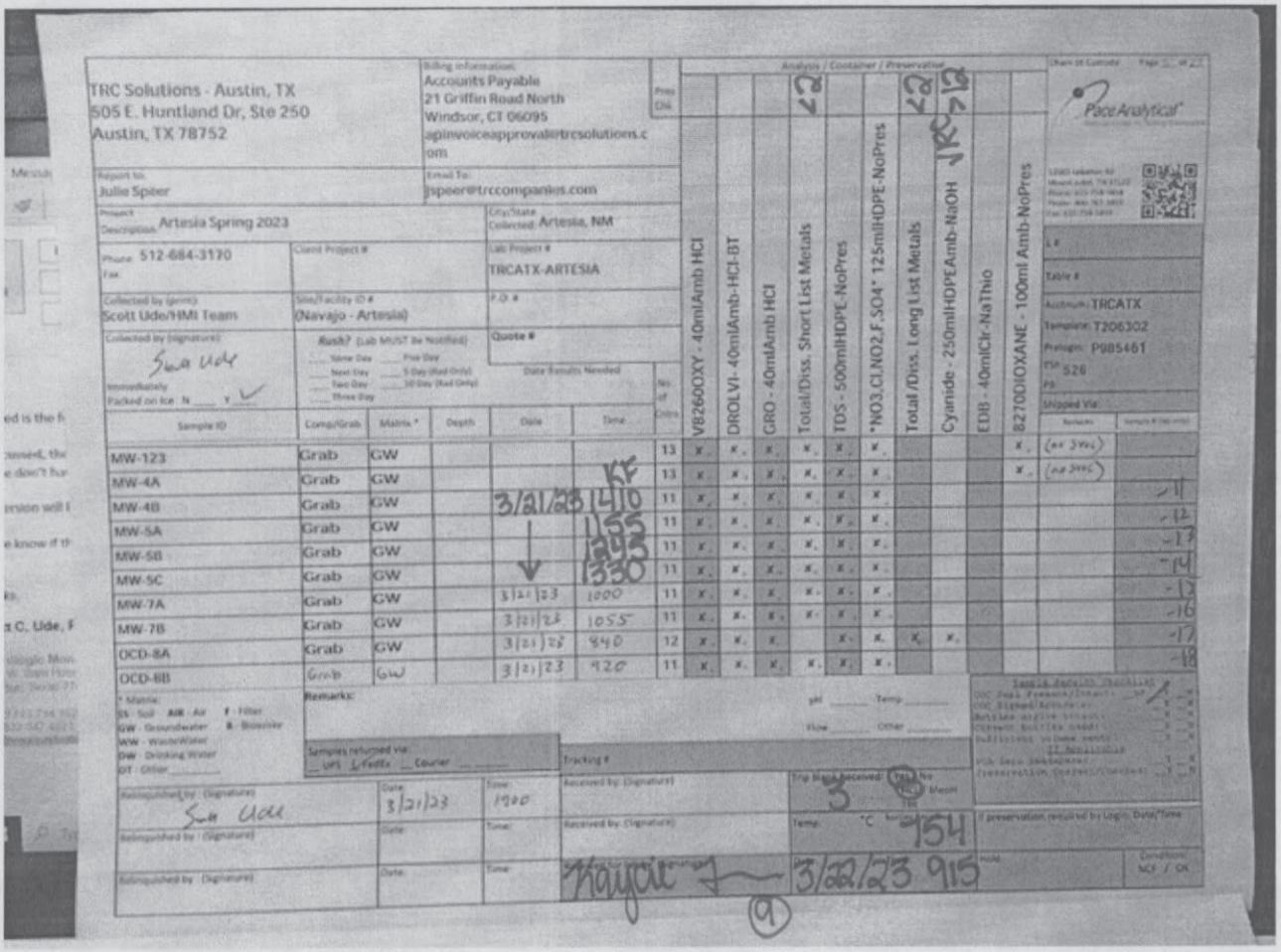
Chain of Custody | Page 1 of 1 | Pace Analytical

L # | Table # | Acctnum: TRCATX | Template: T206300 | Prelogin: P985460 | TSR: 526 | PB: | Shipped Via: | Remarks | Sample # (lab only)

JRC512

Received by OCD: 6/12/2024 3:31:05 PM

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Report to: Julie Speer | Email To: jspeer@trccompanies.com

Project Description: Artesia Spring 2023 | City/State Collected: Artesia, NM

Phone: 512-684-3170 | Client Project #: | Lab Project #: TRCATX-ARTESIA

Collected by (print): Scott Ude/HMI Team | Site/Facility ID #: (Navajo - Artesia) | P.O. #:

Collected by (signature): Scott Ude | Immediately Packed on Ice: N ___ Y ✓ | Rush? (Lab MUST be Notified): ___ Same Day ___ Next Day ___ Two Day ___ Three Day ___ Five Day ___ 5 Day (Rad Only) ___ 10 Day (Rad Only) | 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/Diss. Short List Metals	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total /Diss. Long List Metals	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
MW-123	Grab	GW				13	X	X	X	X	X	X				X	(at 3 Vol)	
MW-4A	Grab	GW				13	X	X	X	X	X	X				X	(at 3Vol)	
MW-4B	Grab	GW		3/21/23	1410	11	X	X	X	X	X	X						-11
MW-5A	Grab	GW			1555	11	X	X	X	X	X	X						-12
MW-5B	Grab	GW			1543	11	X	X	X	X	X	X						-13
MW-5C	Grab	GW			1330	11	X	X	X	X	X	X						-14
MW-7A	Grab	GW		3/21/23	1000	11	X	X	X	X	X	X						-15
MW-7B	Grab	GW		3/21/23	1055	11	X	X	X	X	X	X						-16
OCD-8A	Grab	GW		3/21/23	840	12	X	X	X		X	X	X	X				-17
OCD-8B	Grab	GW		3/21/23	920	11	X	X	X	X	X	X						-18

* 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: 3/21/23 | Time: 1900 | Received by: (Signature)

Relinquished by: (Signature) | Date: | Time: | Received by: (Signature)

Relinquished by: (Signature) | Date: | Time: | Navajo

Trip Blank Received: Yes / No, HCL / Meoh | Temp: °C | Bottles Received: 154

3/22/23 915

If preservation required by Login: Date/Time

Hold: | Condition: NCF / OK

Pace Analytical

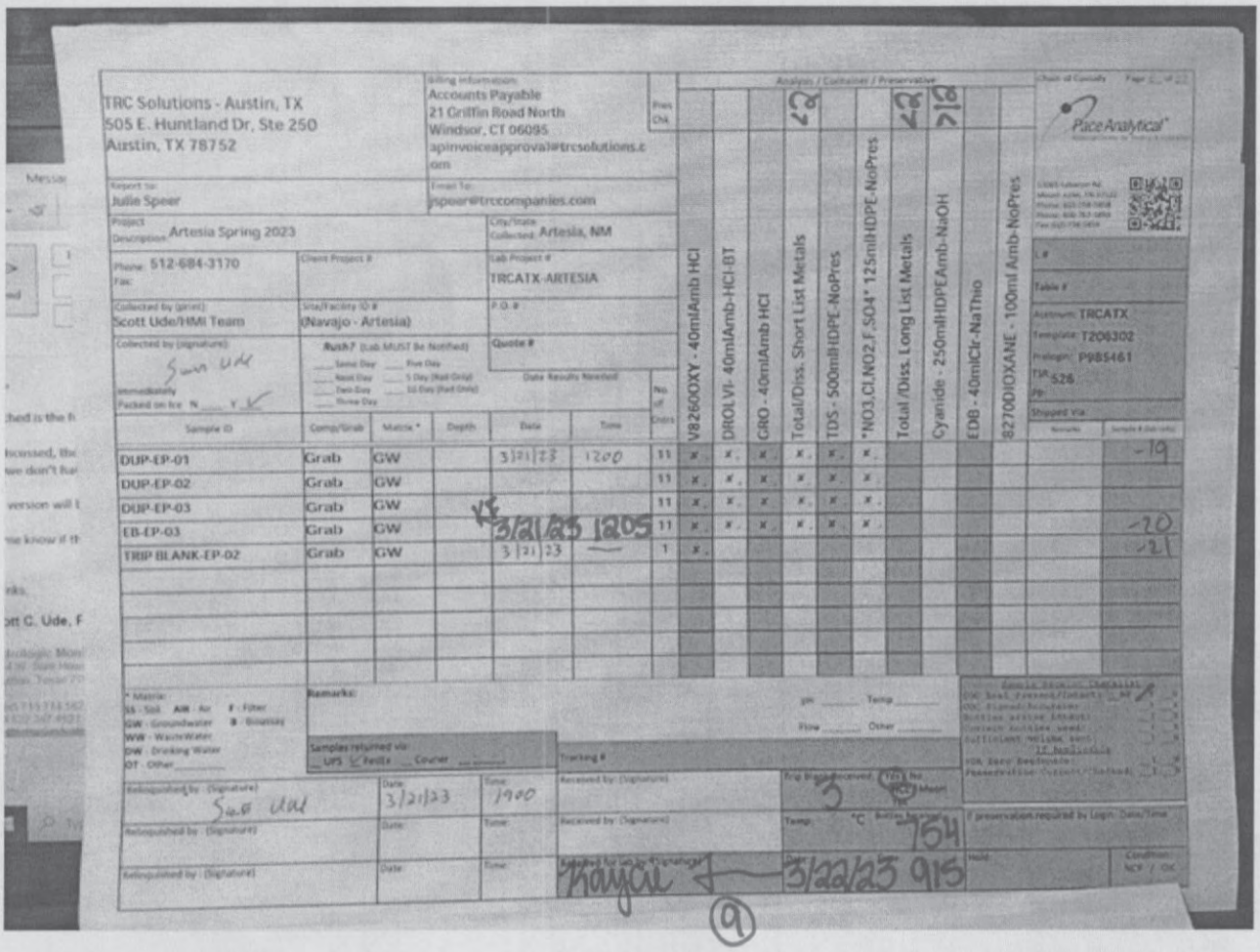
Lab # | Table # | Acctnum: TRCATX | Template: T206302 | Prelogin: P985481 | TSR: 526 | PB: | Shipped Via:

Chain of Custody Page ___ of ___

(9)

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Email To: jspoer@trccompanies.com

Project Description: Artesia Spring 2023
City/State Collected: Artesia, NM

Phone: 512-684-3170
Fax:

Client Project #

Lab Project #: TRCATX-ARTESIA

Collected by (print): Scott Ude/HMI Team

Site/Facility ID #: (Navajo - Artesia)

P.O. #

Collected by (signature): Scott Ude

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

Quote #

Date Results Needed

Immediately Packed on Ice: N ___ Y ✓

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260OXY - 40mlAmb HCl	DROLVI - 40mlAmb-HCl-BT	GRO - 40mlAmb HCl	Total/Diss. Short List Metals	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total /Diss. Long List Metals	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	
DUP-EP-01	Grab	GW		3/21/23	1200	11	x	x	x	x	x	x					-19
DUP-EP-02	Grab	GW				11	x	x	x	x	x	x					
DUP-EP-03	Grab	GW				11	x	x	x	x	x	x					
EB-EP-03	Grab	GW		3/21/23	1205	11	x	x	x	x	x	x					-20 -21
TRIP BLANK-EP-02	Grab	GW		3/21/23	—	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 #

Relinquished by: (Signature) Scott Ude — Date: 3/21/23 — Time: 1900

Received by: (Signature)

Trip Blank Received: Yes / No — HCL / MeOH

Relinquished by: (Signature) — Date: — Time:

Received by: (Signature)

Temp: °C — Bottles Received: 3

Relinquished by: (Signature) — Date: — Time:

Received for lab by: (Signature) Mayra — Date: 3/22/23 — Time: 915

Hold:

Condition: NCF / OK

Pace Analytical

Chain of Custody

L #

Table #

Acctnum: TRCATX
Template: T206302
Prelogin: P985461
TSR: 526
PB:

Shipped Via:

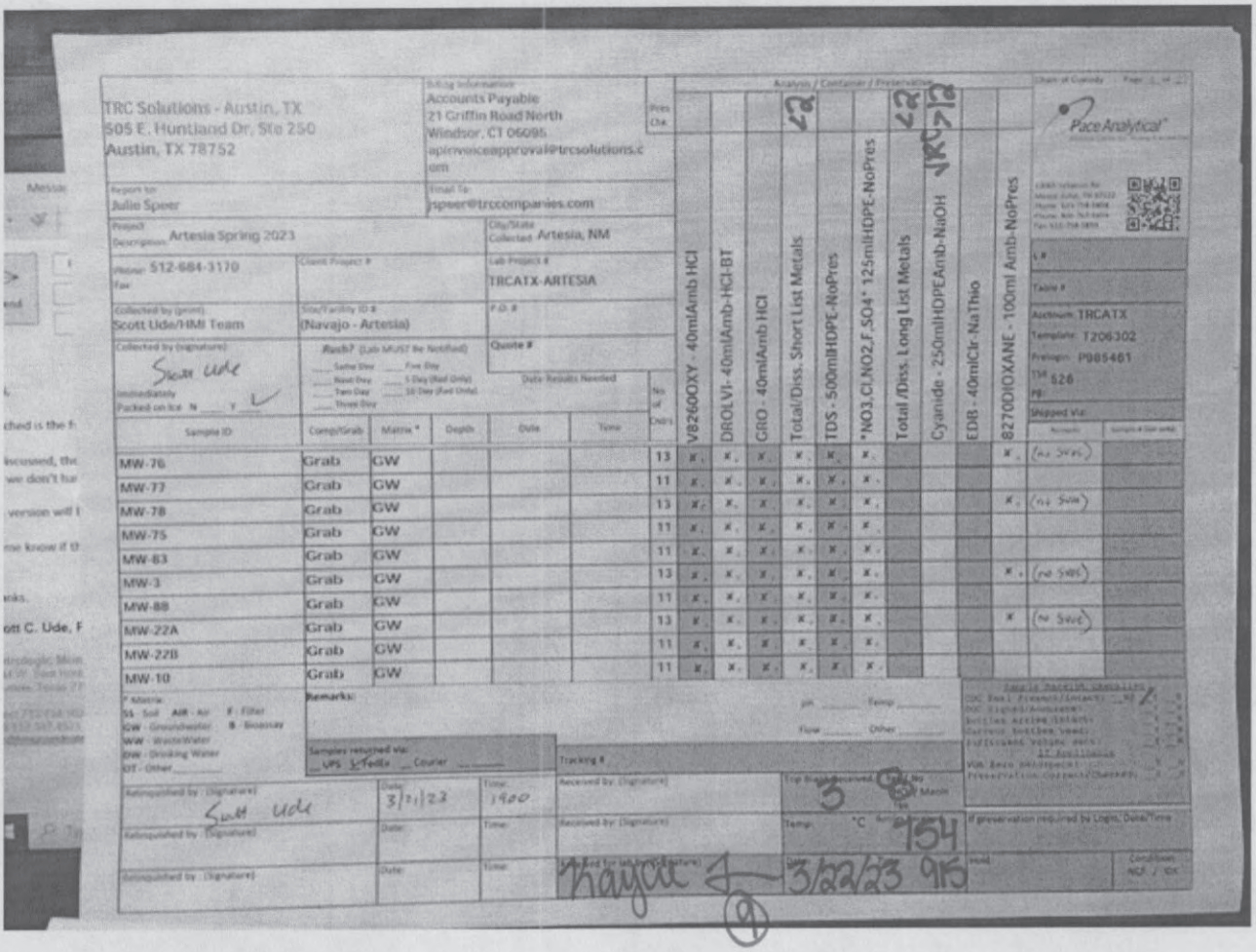
Sample Receipt Checklist
COC Seal Present/Intact: ___ NP
COC Signed/Accurate: ___
Bottles arrive intact: ___
Correct bottles used: ___
Sufficient volume sent: ___
If Applicable
VOA Zero Headspace: ___
Preservation Correct/Checked: ___

Preservation required by Login: Date/Time

(9)

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Phone: 512-684-3170
Client Project #
Lab Project #: TRCATX-ARTESIA
Collected by (print): Scott Ude/HMI Team
Site/Facility ID #: (Navajo - Artesia)
P.O. #
Collected by (signature): Scott Ude
Rush? (Lab MUST Be Notified)
Quote #
Immediately Packed on Ice: N ___ Y ___
Date Results Needed
No. of Cntrs

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VB260OXY - 40mlAmb HCl	DROLVI - 40mlAmb-HCl-BT	GRO - 40mlAmb HCl	Total/Diss. Short List Metals	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total /Diss. Long List Metals	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Analysis	Sample # (lab only)
MW-76	Grab	GW				13	x	x	x	x	x	x				x	(no Svoc)	
MW-77	Grab	GW				11	x	x	x	x	x	x						
MW-78	Grab	GW				13	x	x	x	x	x	x				x	(no Svoc)	
MW-75	Grab	GW				11	x	x	x	x	x	x						
MW-83	Grab	GW				11	x	x	x	x	x	x						
MW-3	Grab	GW				13	x	x	x	x	x	x				x	(no Svoc)	
MW-88	Grab	GW				11	x	x	x	x	x	x						
MW-22A	Grab	GW				13	x	x	x	x	x	x				x	(no Svoc)	
MW-22B	Grab	GW				11	x	x	x	x	x	x						
MW-10	Grab	GW				11	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 #

Relinquished by: (Signature) Scott Ude — Date: 3/21/23 — Time: 1900
Received by: (Signature)
Trip Blank Received: Yes / No — HCL / MeOH
Temp: °C — Bottles Received: 3 — 9
Relinquished by: (Signature) — Date: — Time:
Received by: (Signature)
Temp: °C — Bottles Received: 154
If preservation required by Login: Date/Time
Relinquished by: (Signature) — Date: — Time:
Received for lab by: (Signature) — Date: 3/22/23 — Time: 915
Hold — Condition: NCF / OK

Pace Analytical

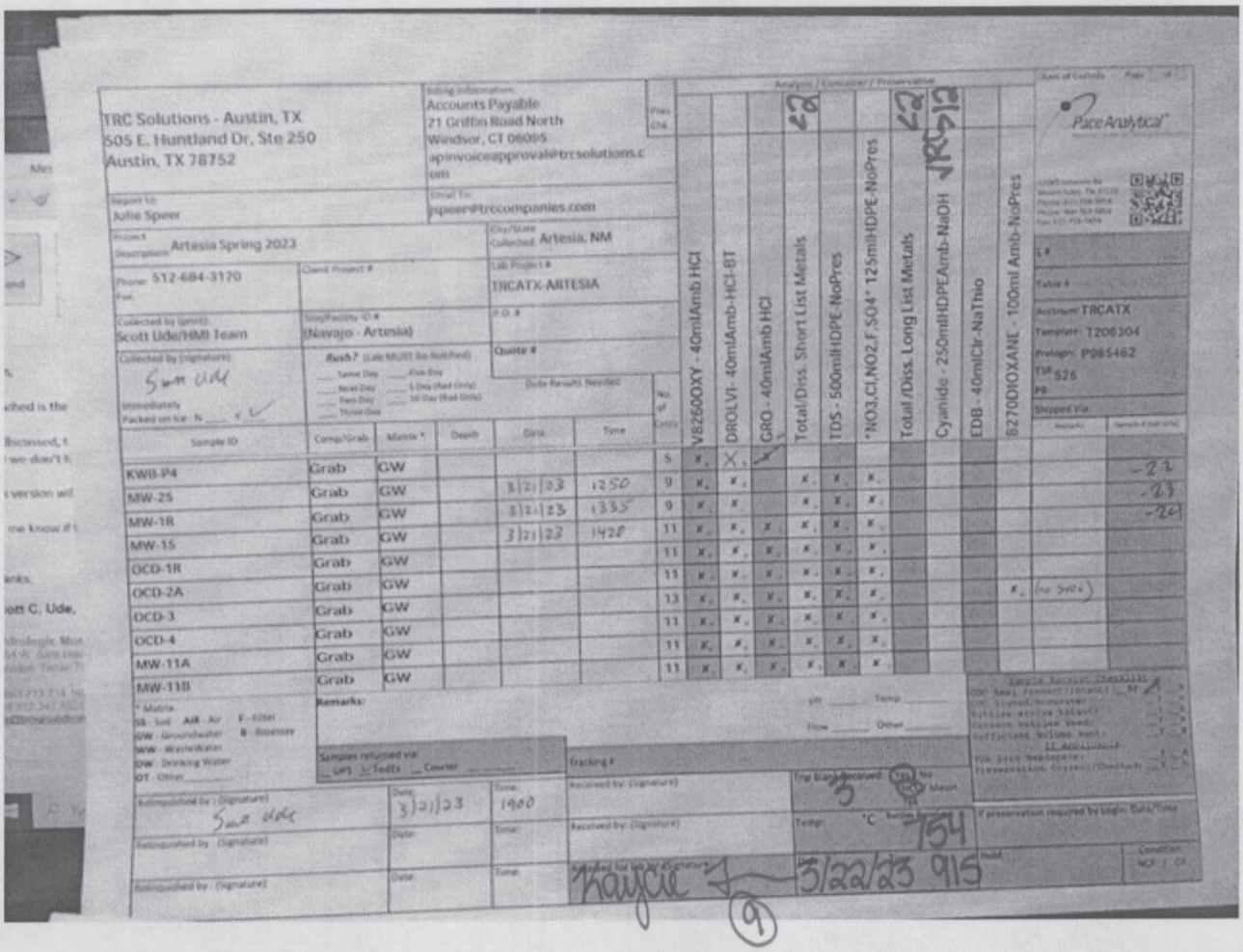
Lab Reference: Phone: 512-724-0200 Fax: 512-724-0202
LF
Table #
Acctnum: TRCATX
Template: T206302
Prelogin: P985461
TSR: 526
PB:
Shipped Via:

Sample Receipt Checklist
COC Seal Present/Intact: ___ NP
COC Signed/Accurate: ___
Bottles Arrive Intact: ___
Correct Bottles Used: ___
Sufficient Volume Sent: ___
If Applicable
VOA Zero Headspace: ___
Preservation Correct/Checked: ___

(9)

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Lab Project #: TRCATX-ARTESIA

Collected by (print): Scott Ude/HMI Team
Site/Facility ID #: (Navajo - Artesia)
P.O. #
Quote #

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

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	# of Cntrs	V8260DXY - 40mlAmb HCl	DROLVI- 40mlAmb-HCl-BT	GRO - 40mlAmb HCl	Total/Diss. Short List Metals	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total /Diss. Long List Metals	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
KWB-P4	Grab	GW		3/21/23	1250	9	x	x		x	x	x						-22
MW-25	Grab	GW		3/21/23	1335	9	x	x		x	x	x						-23
MW-1R	Grab	GW		3/21/23	1428	11	x	x	x	x	x	x						-24
MW-15	Grab	GW				11	x	x	x	x	x	x						
OCD-1R	Grab	GW				11	x	x	x	x	x	x						
OCD-2A	Grab	GW				13	x	x	x	x	x	x				x	(no 5x24)	
OCD-3	Grab	GW				11	x	x	x	x	x	x						
OCD-4	Grab	GW				11	x	x	x	x	x	x						
MW-11A	Grab	GW				11	x	x	x	x	x	x						
MW-11B	Grab	GW				11	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 #

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	3/21/23	1900	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) Kaycie

Trip Blank Received: Yes / No; HCL / Meoh; TBR

Temp: 1.5 °C Bottles Received: 3

Date: 3/22/23 Time: 915

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

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

Page 1 of 1

Analysis / Container / Preservative

Chain of Custody

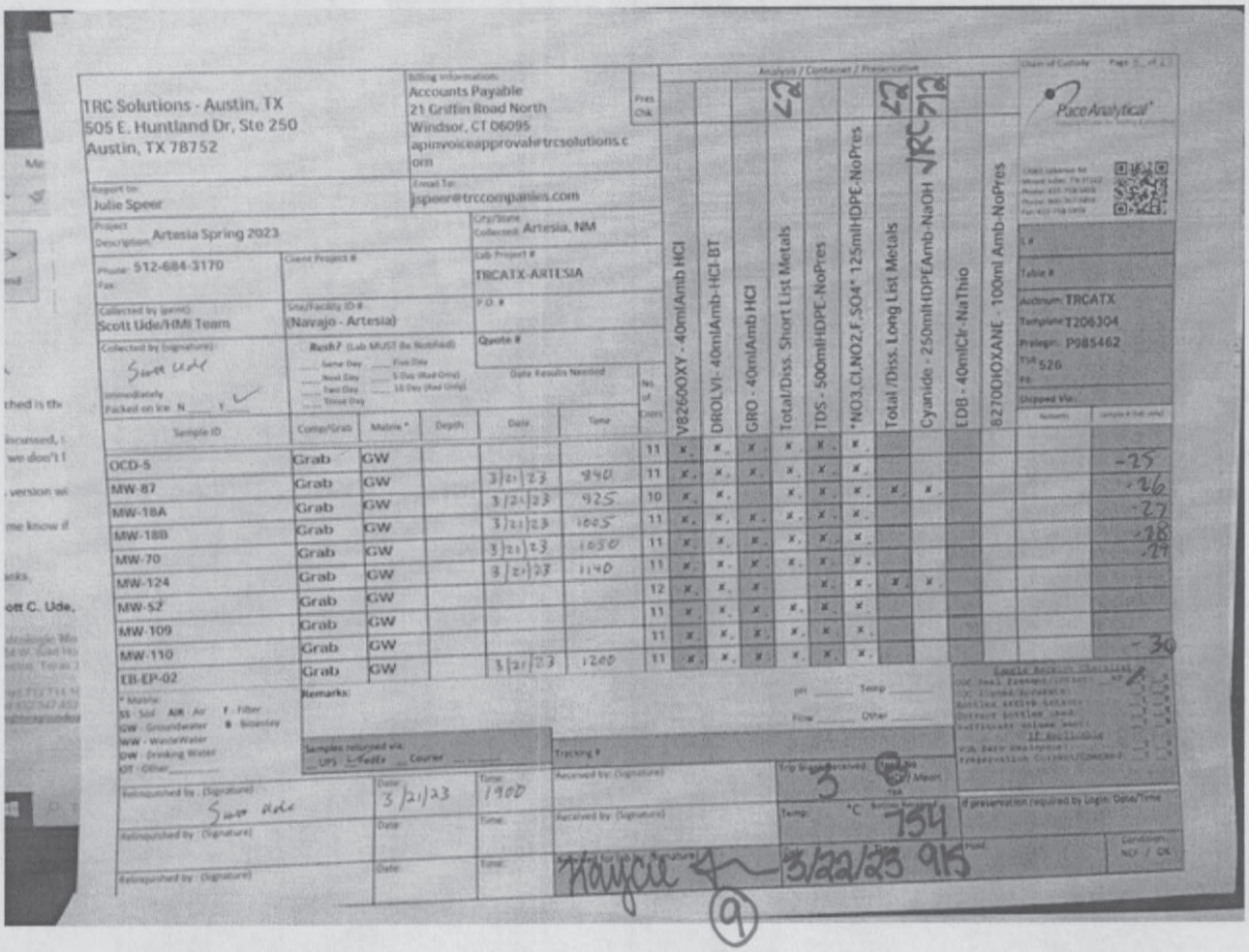
Pace Analytical

Lab Number: TRCATX
Template: T206304
Prelogin: P985462
TSR: 526
PB:
Shipped Via:

(9)

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Phone: 512-684-3170 | Client Project #: | Lab Project #: TRCATX-ARTESIA

Collected by (print): Scott Ude/HMI Team | Site/Facility ID #: (Navajo - Artesia) | P.O. #:

Collected by (signature): Scott Ude | 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	V8260BOXY - 40mlAmb HCl	DROLVI - 40mlAmb-HCl-BT	GRO - 40mlAmb HCl	Total/Diss. Short List Metals	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total /Diss. Long List Metals	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	
OCD-5	Grab	GW				11	x	x	x	x	x	x					-25
MW-87	Grab	GW		3/21/23	840	11	x	x	x	x	x	x					-26
MW-18A	Grab	GW		3/21/23	925	10	x	x		x	x	x	x	x			-27
MW-18B	Grab	GW		3/21/23	1005	11	x	x	x	x	x	x					-28
MW-70	Grab	GW		3/21/23	1050	11	x	x	x	x	x	x					-29
MW-124	Grab	GW		3/21/23	1140	11	x	x	x	x	x	x					
MW-52	Grab	GW				12	x	x	x		x	x	x	x			
MW-109	Grab	GW				11	x	x	x	x	x	x					
MW-110	Grab	GW				11	x	x	x	x	x	x					
EB-EP-02	Grab	GW		3/21/23	1200	11	x	x	x	x	x	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 #:

Relinquished by: (Signature) Scott Ude | Date: 3/21/23 | Time: 1900 | Received by: (Signature)

Relinquished by: (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No | HCL / MeoH | TBR | Temp: 3 °C | Bottles Received: 754 | If preservation required by Login: Date/Time

Relinquished by: (Signature) | Date: | Time: | Received by: (Signature) Kaycie | Date: 3/22/23 | Time: 915 | Hold: | Condition: NCF / OK

Analysis / Container / Preservative

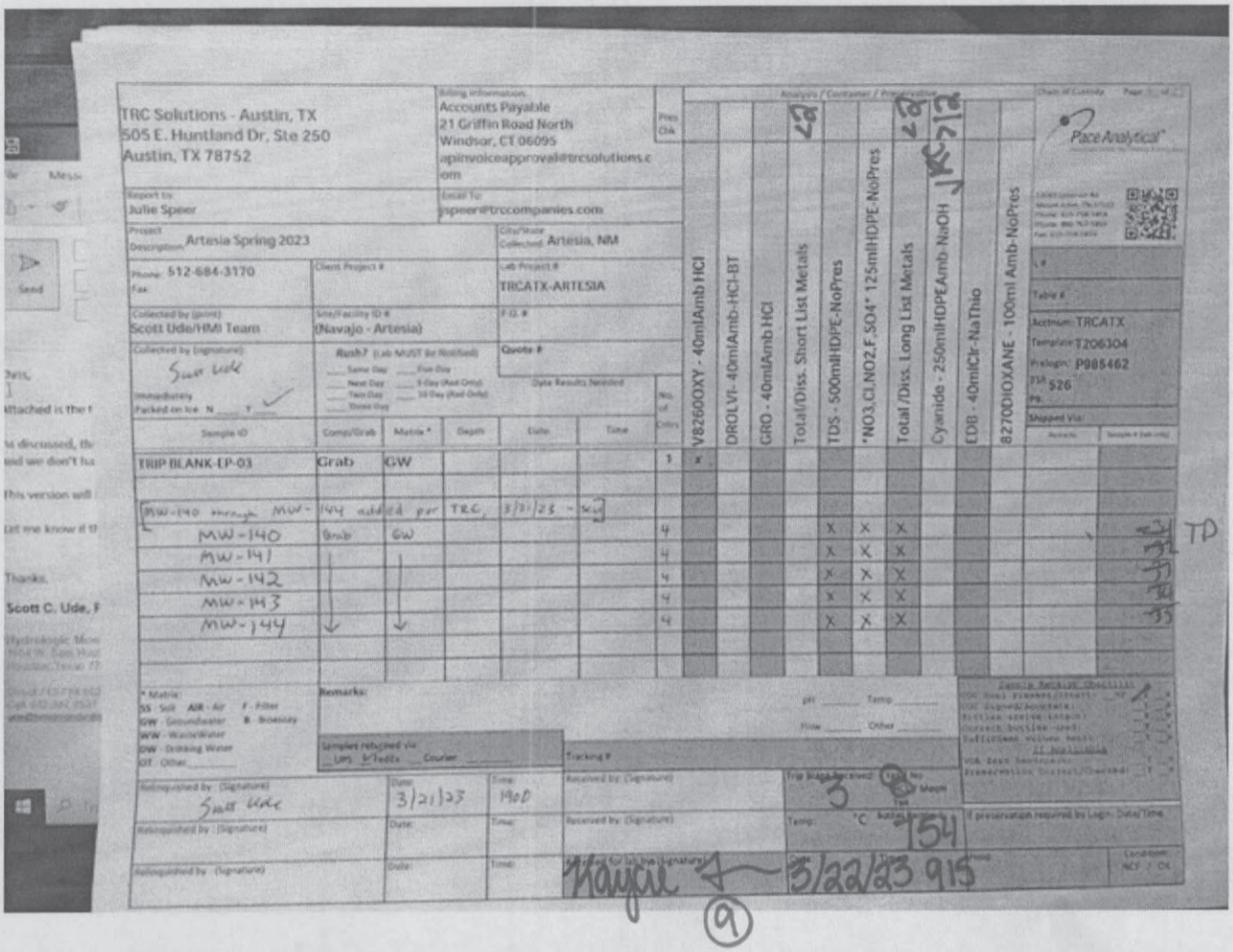
Chain of Custody | Page 1 of 2 | Pace Analytical

Lab Use Only: Lab # | Table # | Acctnum: TRCATX | Template: T206304 | Prelogin: P985462 | TSR: 526 | PB: | Shipped Via: | Sample # (lab only)

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: | Preservation Correct/Checked: Y

Received by OCD: 6/12/2024 3:31:05 PM

Released to Imaging: 6/28/2024 11:23:28 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

Project Description: Artesia Spring 2023
City/State Collected: Artesia, NM

Phone: 512-684-3170
Client Project #
Lab Project #: TRCATX-ARTESIA

Collected by (print): Scott Ude/HMI Team
Site/Facility ID #: (Navajo - Artesia)
P.O. #

Collected by (signature): Scott Ude
Rush? (Lab MUST Be Notified) Same Day, Next Day, Two Day, Three Day, Five Day, 5 Day (Rad Only), 10 Day (Rad Only)
Quote #
Immediately Packed on Ice N ___ Y ___
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/Diss. Short List Metals	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total /Diss. Long List Metals	Cyanide - 250mlHDPE,Amb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres
TRIP BLANK-EP-03	Grab	GW				3	x									
MW-140 through MW-144 added per TRC, 3/21/23 - SCU																
MW-140	Grab	GW				4					X	X	X			
MW-141						4					X	X	X			
MW-142						4					X	X	X			
MW-143						4					X	X	X			
MW-144						4					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 #

Relinquished by: (Signature) Scott Ude — Date: 3/21/23 — Time: 1900 — Received by: (Signature)

Relinquished by: (Signature) — Date: — Time: — Received by: (Signature)

Relinquished by: (Signature) — Date: — Time: — Received by: (Signature) — 3/22/23 915

Trip blank received: Yes / No — HCL / MeOH

Temp: °C — Bottles Received: 154

If preservation required by Login: Date/Time

Condition: NCF / OK

Pace Analytical

Chain of Custody — Page ___ of ___

Lab #

Table #

Acctnum: TRCATX
Template: T206304
Prelogin: P985462
TSR: 526
PB:

Shipped Via:

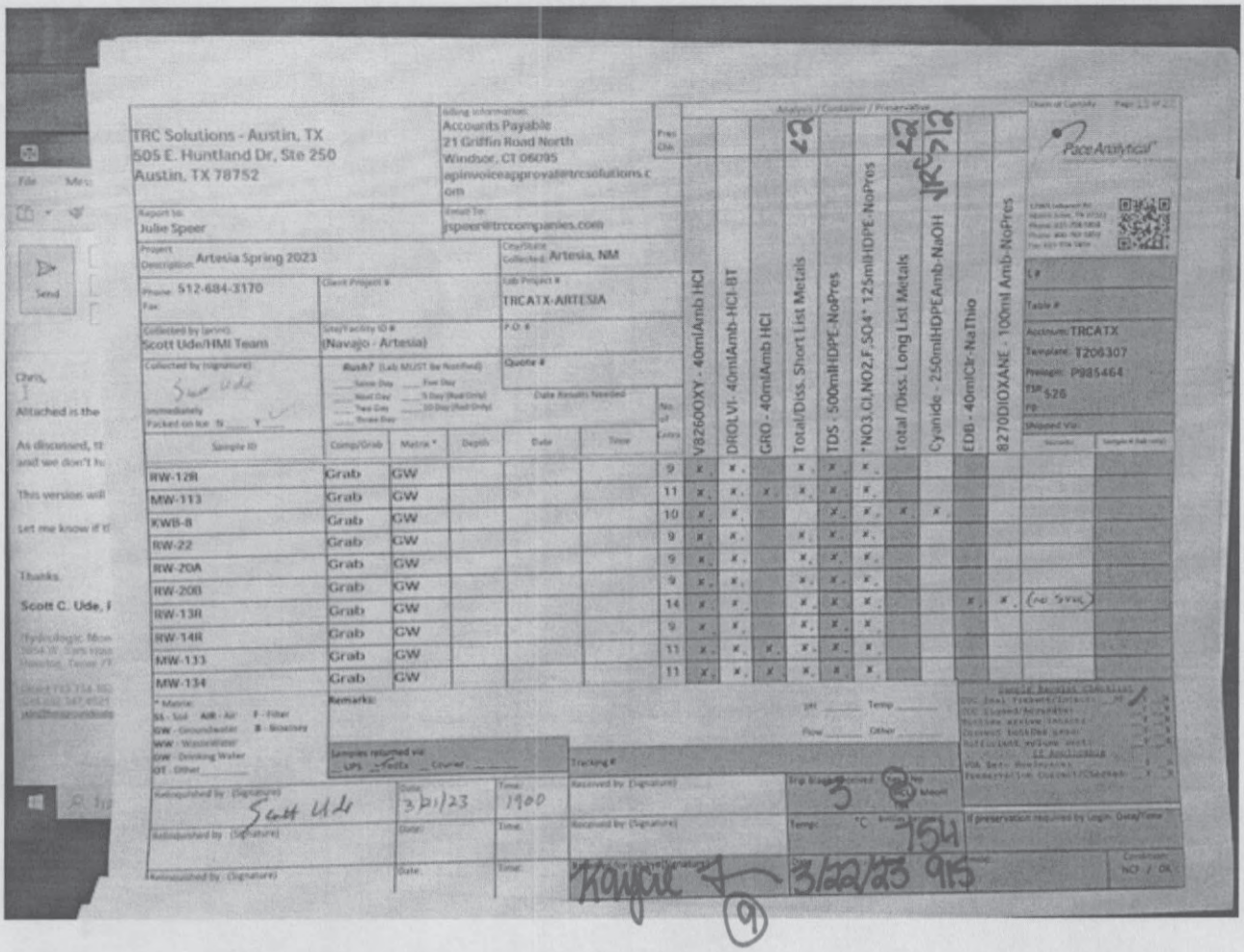
Sample # (lab only)

TD

(9)

Received by OCD: 6/12/2024 3:31:05 PM

Released to Imaging: 6/28/2024 11:23:28 AM



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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

Project Description: Artesia Spring 2023
City/State Collected: Artesia, NM
Phone: 512-684-3170
Client Project #
Lab Project #: TRCATX-ARTESIA
Collected by (print): Scott Ude/HMI Team
Site/Facility ID #: (Navajo - Artesia)
P.O. #
Collected by (signature): Scott Ude
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	V8260OXY - 40mlAmb HCl	DROLVI - 40mlAmb-HCl-BT	GRO - 40mlAmb HCl	Total/Diss. Short List Metals	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total /Diss. Long List Metals	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres		
RW-12R	Grab	GW				9	x	x		x	x	x						
MW-113	Grab	GW				11	x	x	x	x	x	x						
KWB-8	Grab	GW				10	x	x			x	x	x	x				
RW-22	Grab	GW				9	x	x		x	x	x						
RW-20A	Grab	GW				9	x	x		x	x	x						
RW-20B	Grab	GW				9	x	x		x	x	x						
RW-13R	Grab	GW				14	x	x		x	x	x			x	x	(no 5mL)	
RW-14R	Grab	GW				9	x	x		x	x	x						
MW-133	Grab	GW				11	x	x	x	x	x	x						
MW-134	Grab	GW				11	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:

Samples returned via: UPS FedEx Courier

Tracking #

Relinquished by (Signature): Scott Ude — Date: 3/21/23 — Time: 1900
Received by (Signature)

Relinquished by (Signature)
Received by (Signature)

Relinquished by (Signature)
Received by (Signature)

Trip Blank Received: Yes No — HCL / MeOH
Temp: °C — Bottles Received: 3
If preservation required by Login: Date/Time
Condition: NCF / OK

Analysis / Container / Preservative

Chain of Custody — Page 1 of 2

Pace Analytical

Lab Number: TRCATX
Template: T206307
Prelogin: P985464
TSP: 526
PO:
Shipped Via:

Sample # (lab only)

Pace Receiving Checklist

VOA Zero Headspace
Preservation Correct/Checked

Scott Ude 3/21/23 1900

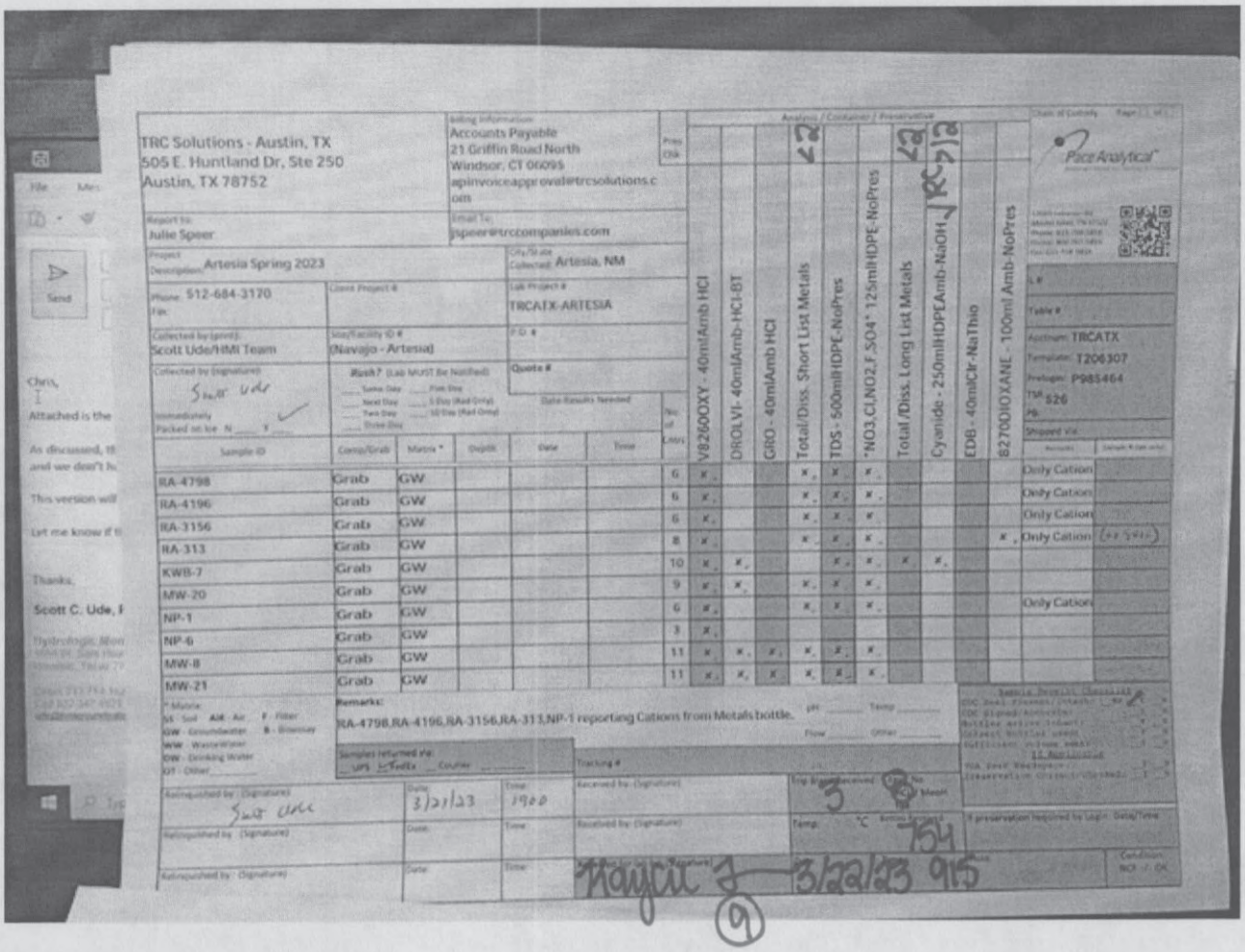
Kayla 3/22/23 915

754

(9)

Received by OCD: 6/12/2024 3:31:05 PM

Released to Imaging: 6/28/2024 11:23:28 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

Project Description: Artesia Spring 2023
City/State Collected: Artesia, NM

Phone: 512-684-3170
Client Project #:
Lab Project #: TRCATX-ARTESIA

Collected by (print): Scott Ude/HMI Team
Site/Facility ID #: (Navajo - Artesia)
P.O. #:
Quote #:

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:

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/Diss. Short List Metals	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total /Diss. Long List Metals	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	
RA-4798	Grab	GW				6	x			x	x	x					Only Cation
RA-4196	Grab	GW				6	x			x	x	x					Only Cation
RA-3156	Grab	GW				6	x			x	x	x					Only Cation
RA-313	Grab	GW				8	x			x	x	x				x	Only Cation (+2 5ml)
KWB-7	Grab	GW				10	x	x			x	x	x	x			
MW-20	Grab	GW				9	x	x		x	x	x					
NP-1	Grab	GW				6	x			x	x	x					Only Cation
NP-6	Grab	GW				3	x										
MW-8	Grab	GW				11	x	x	x	x	x	x					
MW-21	Grab	GW				11	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: RA-4798,RA-4196,RA-3156,RA-313,NP-1 reporting Cations from Metals bottle.
pH ___ Temp ___ Flow ___ Other ___

Samples returned via: UPS FedEx Courier ___
Tracking #:

Relinquished by (Signature): Scott Ude — Date: 3/21/23 — Time: 1900
Received by (Signature):
Trip Blank Received: Yes / No — HCL / MeoH
Temp: 3 °C — Bottles Received: 154
Relinquished by (Signature): Date: Time:
Received by (Signature): Maycit Z — 3/22/23 915
Relinquished by (Signature): Date: Time:
pH preservation required by Login: Date/Time
Condition: NCF / OK

Chain of Custody — Page 1 of 1
Pace Analytical

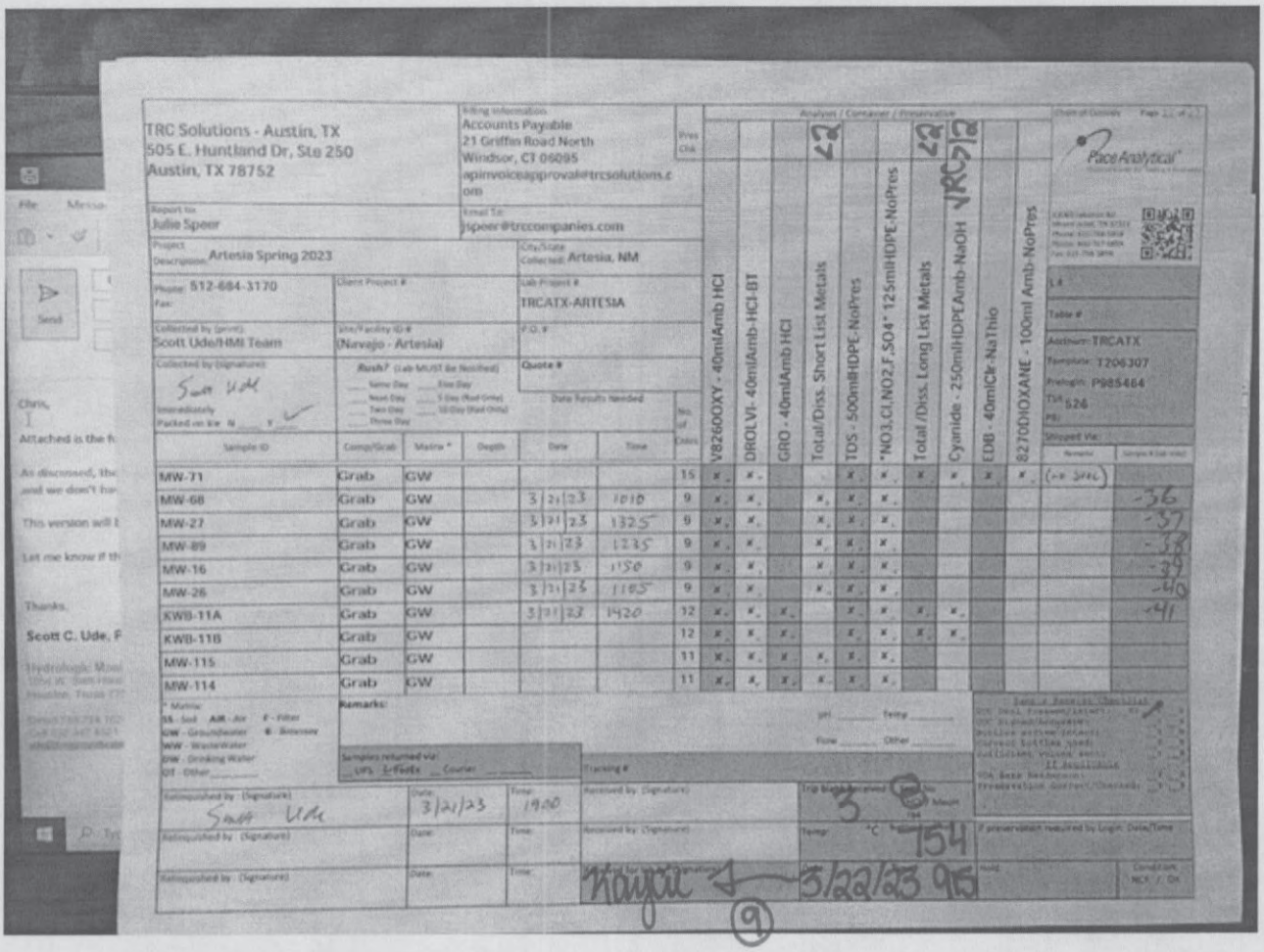
Lab #:
Table #:
Acctnum: TRCATX
Template: T206307
Prelogin: P985464
TSR: 526
PM:
Shipped Via:
Remarks / Sample # (lab only)

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

9

Received by OCD: 6/12/2024 3:31:05 PM

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TRC Solutions - Austin, TX
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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@trcconpanies.com

Project Description: Artesia Spring 2023 | City/State Collected: Artesia, NM

Phone: 512-684-3170 | Client Project #: | Lab Project #: TRCATX-ARTESIA

Collected by (print): Scott Ude/HMI Team | Site/Facility ID #: (Navajo - Artesia) | P.O. #:

Collected by (signature): Scott Ude | Rush? (Lab MUST be Notified) | Quote #: | Date Results Needed

Immediately Packed on Ice: N ✓ Y

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	# of Cntrs	V8260OXY - 40mlAmb HCl	DROLVI- 40mlAmb-HCl-BT	GRO - 40mlAmb HCl	Total/Diss. Short List Metals	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total /Diss. Long List Metals	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres		
MW-71	Grab	GW				15	x	x			x	x	x	x	x	x	(+8 SVOC)	
MW-68	Grab	GW		3/21/23	1010	9	x	x		x	x	x						-36
MW-27	Grab	GW		3/21/23	1325	9	x	x		x	x	x						-37
MW-89	Grab	GW		3/21/23	1235	9	x	x		x	x	x						-38
MW-16	Grab	GW		3/21/23	1150	9	x	x		x	x	x						-39
MW-26	Grab	GW		3/21/23	1105	9	x	x		x	x	x						-40
KWB-11A	Grab	GW		3/21/23	1420	12	x	x	x		x	x	x	x				-41
KWB-11B	Grab	GW				12	x	x	x		x	x	x	x				
MW-115	Grab	GW				11	x	x	x	x	x	x						
MW-114	Grab	GW				11	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:

Samples returned via: UPS, FedEx, Courier | Tracking #

Relinquished by (Signature): Scott Ude | Date: 3/21/23 | Time: 1900 | Received by (Signature): Kayla | Trip Blank Received: Yes / No, HCL / MeOH | Temp: 3 °C | Bottles Received: 154 | If preservation required by Login: Date/Time: 3/22/23 95

Relinquished by (Signature): | Date: | Time: | Received by (Signature): | Hold:

Relinquished by (Signature): | Date: | Time: | Received for lab (Signature): | Condition: NCF / OK

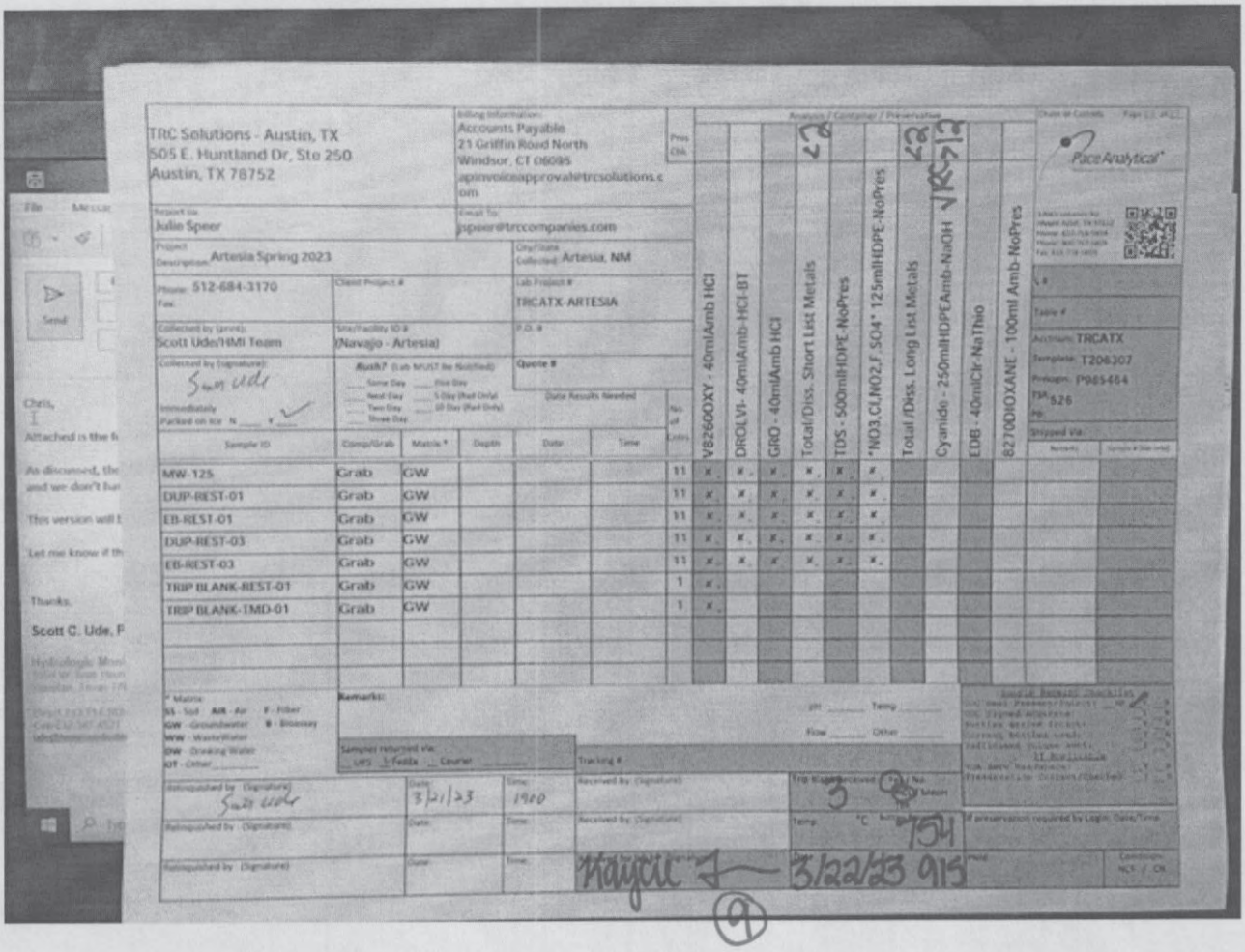
Analysis / Container / Preservative | Chain of Custody | Page 1 of 1 | Pace Analytical

Lab: | Table #: | Acctnum: TRCATX | Template: T206307 | Prelogin: P985464 | TSR: 526 | PB: | Shipped Via:

(9)

Received by OCD: 6/12/2024 3:31:05 PM

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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@trcconpanies.com

Project Description: Artesia Spring 2023
City/State Collected: Artesia, NM

Phone: 512-684-3170
Client Project #
Lab Project #: TRCATX-ARTESIA

Collected by (print): Scott Ude/HMI Team
Site/Facility ID #: (Navajo - Artesia)
P.O. #

Collected by (signature): Scott Ude
Rush? (Lab MUST be Notified)
Quote #
Date Results Needed

Immediately Packed on Ice: N ___ Y ___

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	# of Containers	VB2600XY - 40mlAmb HCl	DROLVI- 40mlAmb-HCl-BT	GRO - 40mlAmb HCl	Total/Diss. Short List Metals	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total /Diss. Long List Metals	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres
MW-125	Grab	GW				11	x	x	x	x	x	x				
DUP-REST-01	Grab	GW				11	x	x	x	x	x	x				
EB-REST-01	Grab	GW				11	x	x	x	x	x	x				
DUP-REST-03	Grab	GW				11	x	x	x	x	x	x				
EB-REST-03	Grab	GW				11	x	x	x	x	x	x				
TRIP BLANK-REST-01	Grab	GW				1	x									
TRIP BLANK-1MD-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 ___

Sample returned via: ___ UPS ___ FedEx ___ Courier
Tracking #

Relinquished by (Signature): Scott Ude — Date: 3/21/23 — Time: 1900
Received by (Signature)
Trip Blank Received: Yes / No — HCL / MeOH
Temp: °C — Bottles Received: 154
If preservation required by Login: Date/Time

Relinquished by (Signature) — Date — Time
Received by (Signature)

Relinquished by (Signature) — Date — Time
Received by (Signature): Kaycie T — 3/22/23 915

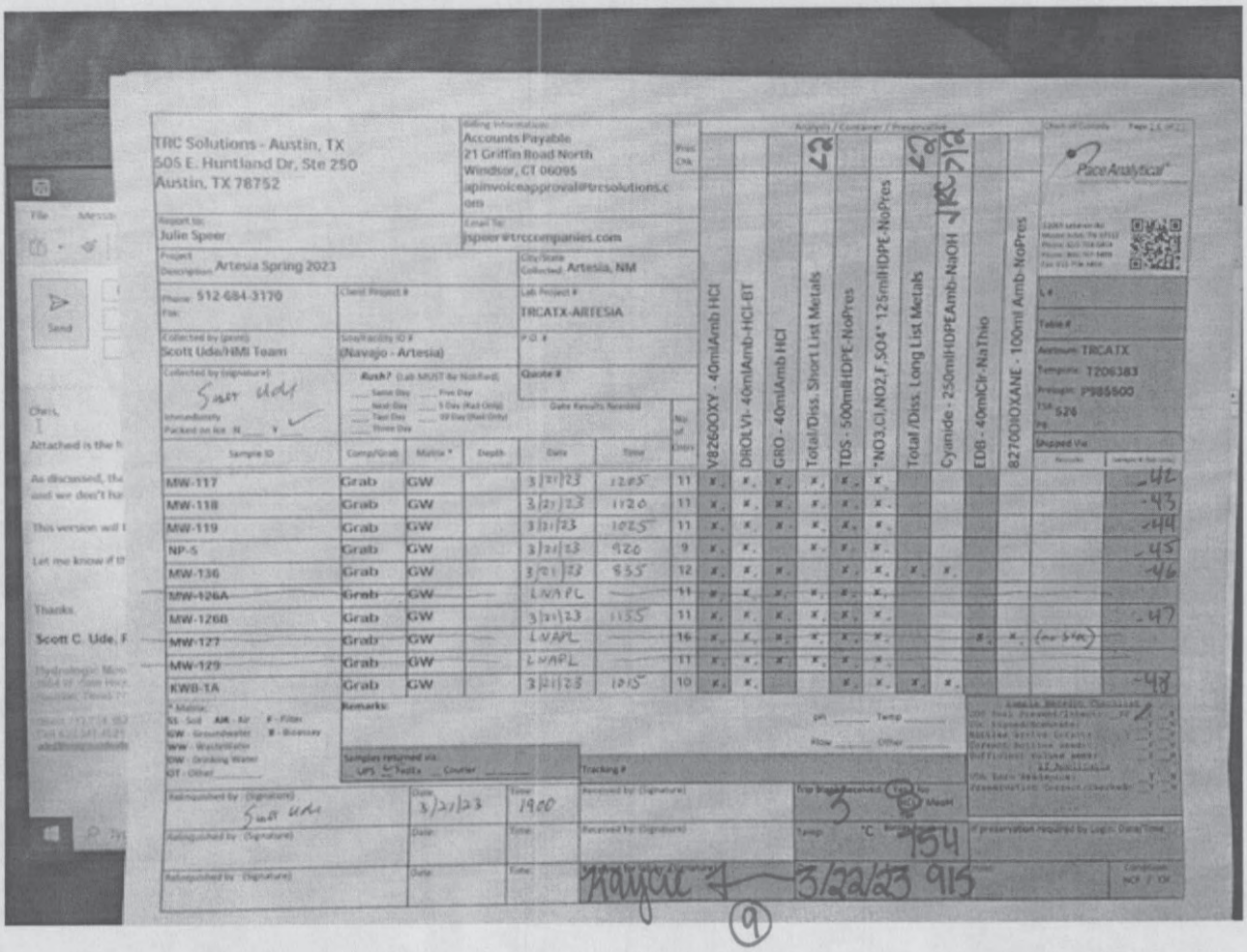
Pace Analytical

Lab #
Table #
Acctnum: TRCATX
Template: T206307
Prelogin: P965464
TSR: 526
PO:
Shipped Via:

Chris,
Attached is the fi
As discussed, the
and we don't hav
This version will
Let me know if th
Thanks,
Scott C. Ude, P

Received by OCD: 6/12/2024 3:31:05 PM

Released to Imaging: 6/28/2024 11:23:28 AM



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Report to: Julie Speer
Email To: jspeer@trcccompanies.com

Project Description: Artesia Spring 2023
City/State Collected: Artesia, NM
Phone: 512-684-3170
Client Project #
Lab Project #: TRCATX-ARTESIA
Collected by (print): Scott Ude/HMI Team
Site/Facility ID #: (Navajo - Artesia)
P.O. #
Collected by (signature):
Rush? (Lab MUST Be Notified)
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/Diss. Short List Metals	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total /Diss. Long List Metals	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270OHOXANE - 100ml Amb-NoPres		
MW-117	Grab	GW		3/21/23	1205	11	x	x	x	x	x	x						-42
MW-118	Grab	GW		3/21/23	1120	11	x	x	x	x	x	x						-43
MW-119	Grab	GW		3/21/23	1025	11	x	x	x	x	x	x						-44
NP-5	Grab	GW		3/21/23	920	9	x	x		x	x	x						-45
MW-136	Grab	GW		3/21/23	855	12	x	x	x		x	x	x	x				-46
MW-126A	Grab	GW		LNAPL		11	x	x	x	x	x	x						
MW-126B	Grab	GW		3/21/23	1155	11	x	x	x	x	x	x						-47
MW-127	Grab	GW		LNAPL		16	x	x	x	x	x	x			x	x	(no bttl)	
MW-129	Grab	GW		LNAPL		11	x	x	x	x	x	x						
KWB-1A	Grab	GW		3/21/23	1015	10	x	x			x	x	x	x				-48

* Matrix: SS - Soil, AIR - Air, F - Filter, GW - Groundwater, B - Biosolid, 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: 3/21/23 — Time: 1900
Received by: (Signature)
Relinquished by: (Signature) — Date: — Time:
Received by: (Signature)
Relinquished by: (Signature) — Date: — Time:
Received by: (Signature) Maycie T — 3/22/23 915

Trip Blank Received: Yes / No — HCL / Meoh
Temp: °C — Bottles Received: 154
If preservation required by Login: Date/Time

Pace Analytical

Lab #
Table #
Acctnum: TRCATX
Template: T206383
Prelogin: P985600
TSR: 526
PB
Shipped Via:
Remarks
Sample # (lab only)

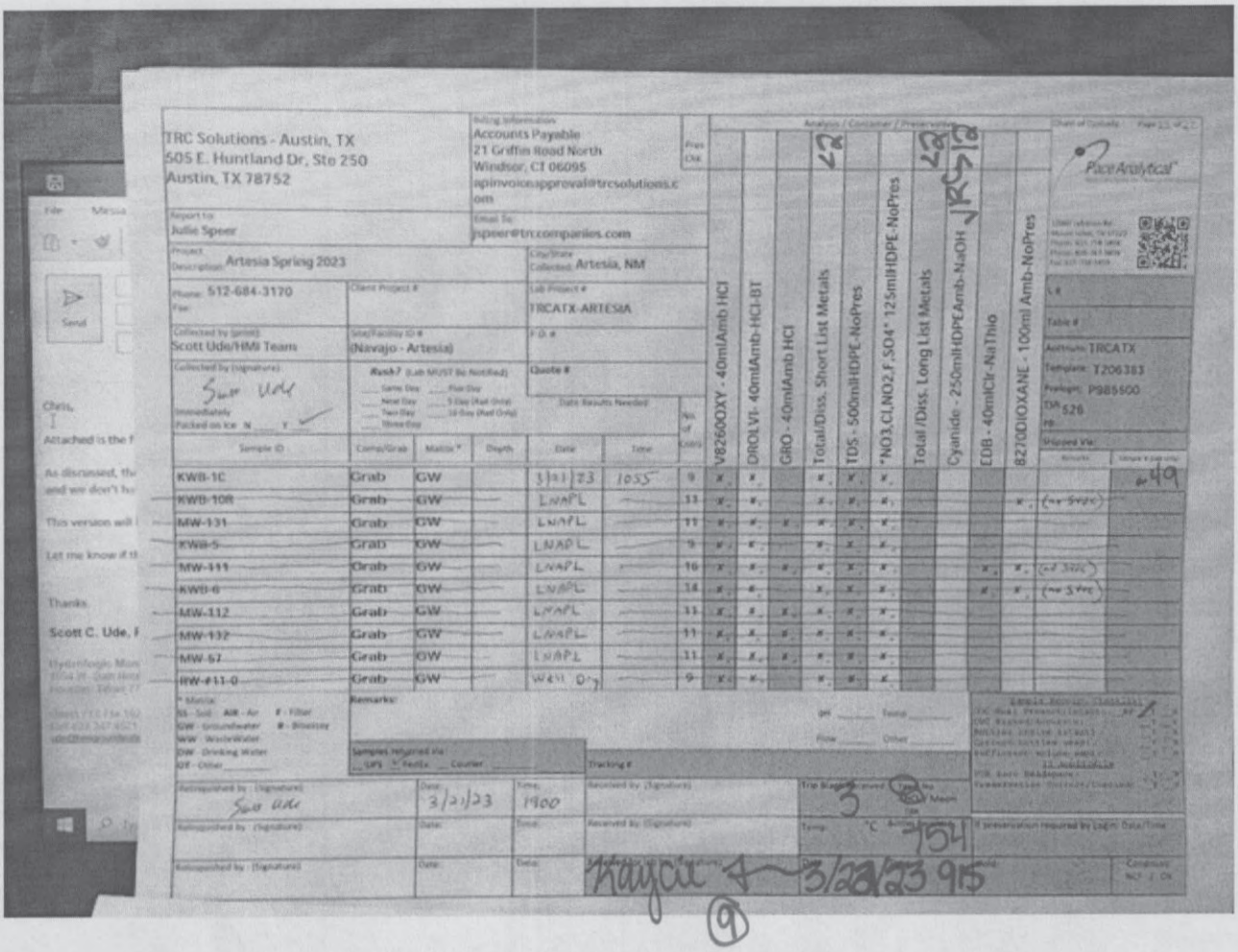
Sample Receipt Checklist
COC Seal Present/Intact: Y / N
COC Signed/Accurate: Y / N
Bottles Arrive Intact: Y / N
Correct Bottles Used: Y / N
Sufficient Volume Sent: Y / N
If Applicable
VOA Zero Headspace: Y / N
Preservation Correct/Checked: Y / N

Compliant / NCF / OK

(9)

Received by OCD: 6/12/2024 3:31:05 PM

Released to Imaging: 6/28/2024 11:23:28 AM



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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 Spring 2023
City/State Collected: Artesia, NM

Phone: 512-684-3170
Client Project #
Lab Project #: TRCATX-ARTESIA

Collected by (print): Scott Ude/HMI Team
Site/Facility ID #: (Navajo - Artesia)
P.O. #
Quote #

Collected by (signature): Scott Ude
Immediately Packed on Ice N ___ Y ✓
Rush? (Lab MUST Be Notified): Same Day, Next Day, Two Day, Three Day, Five Day, 5 Day (Rad Only), 10 Day (Rad Only)
Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	# of Cntrs	V8260OXY - 40mlAmb HCl	DROLVI- 40mlAmb-HCl-BT	GRO - 40mlAmb HCl	Total/Diss. Short List Metals	TDS - 500mlHDPE-NoPres	*NO3,CL,NO2,F,SO4* 125mlHDPE-NoPres	Total /Diss. Long List Metals	Cyanide - 250mlHDPE Amb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks
KWB-1C	Grab	GW		3/21/23	1055	9	x	x		x	x	x					@49
KWB-10R	Grab	GW		LNAPL		11	x	x		x	x	x				x	(no SVOC)
MW-131	Grab	GW		LNAPL		11	x	x	x	x	x	x					
KWB-5	Grab	GW		LNAPL		9	x	x		x	x	x					
MW-111	Grab	GW		LNAPL		16	x	x	x	x	x	x			x	x	(no SVOC)
KWB-6	Grab	GW		LNAPL		14	x	x		x	x	x			x	x	(no SVOC)
MW-112	Grab	GW		LNAPL		11	x	x	x	x	x	x					
MW-132	Grab	GW		LNAPL		11	x	x	x	x	x	x					
MW-67	Grab	GW		LNAPL		11	x	x	x	x	x	x					
RW-#11-0	Grab	GW		WELL D-3		9	x	x		x	x	x					

* Matrix: SS - Soil, AIR - Air, F - Filter, GW - Groundwater, B - Bioassay, WW - Wastewater, DW - Drinking Water, OT - Other

Remarks:

Samples returned via: ___UPS ___FedEx ___Courier

Tracking #

pH ___ Temp ___ Flow ___ Other ___

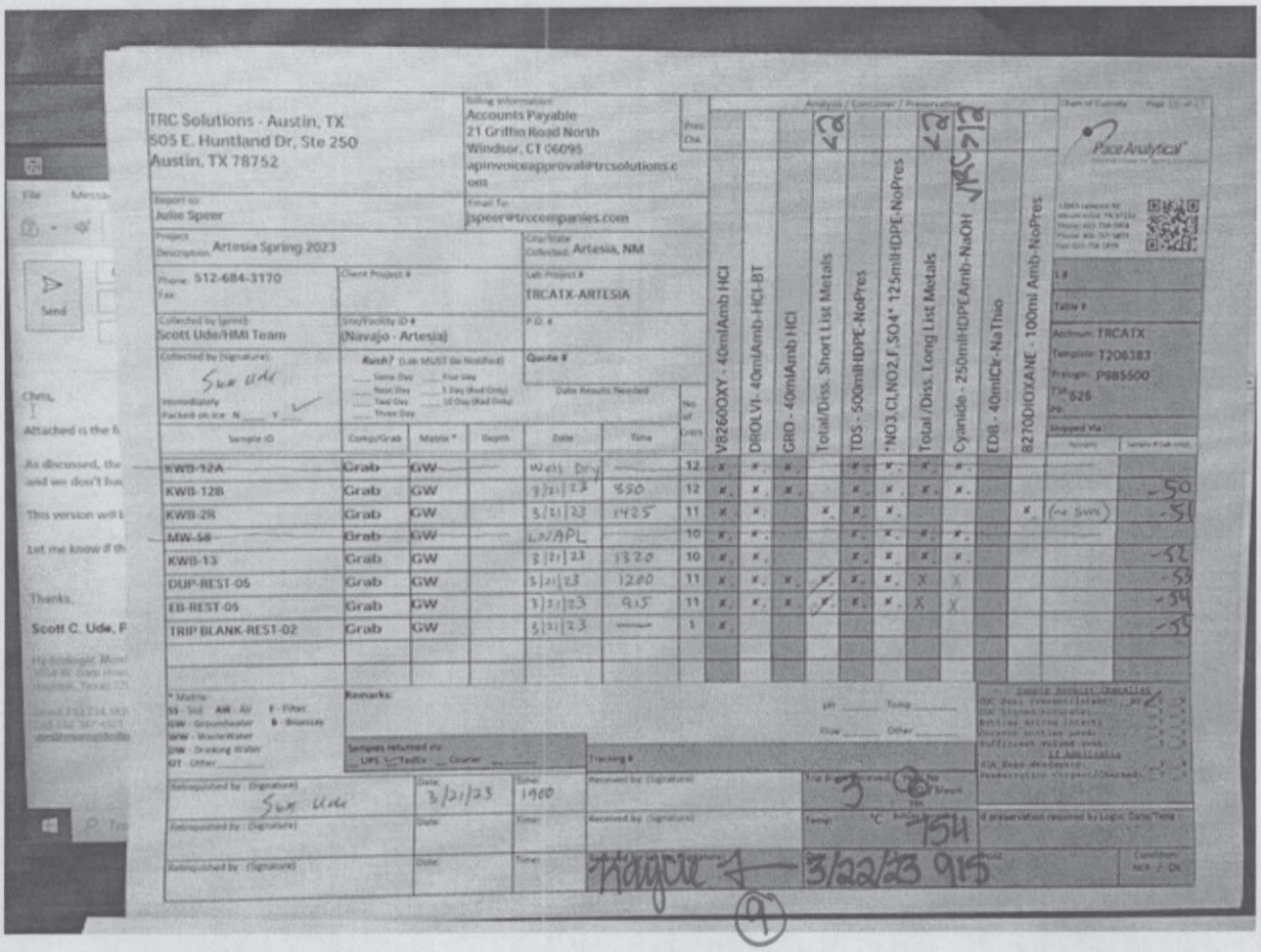
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	3/21/23	1900	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)

Trip Blank Received: Yes / No, HCL / MeOH, TBR
Temp: °C, Bottles Received: 3, 754
If preservation required by Login: Date/Time: 3/22/23 915
Condition: NCF / OK

Page 434 of 1657

Received by OCD: 6/12/2024 3:31:05 PM

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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 Spring 2023
City/State Collected: Artesia, NM

Phone: 512-684-3170
Client Project #
Lab Project #: TRCATX-ARTESIA

Collected by (print): Scott Ude/HMI Team
Site/Facility ID #: (Navajo - Artesia)
P.O. #

Collected by (signature): Scott Ude
Immediately Packed on Ice: N ___ Y ✓
Rush? (Lab MUST Be Notified): Same Day, Next Day, Two Day, Three Day, Five Day, 5 Day (Rad Only), 10 Day (Rad Only)
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/Diss. Short List Metals	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total/Diss. Long List Metals	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DI/OXANE - 100ml Amb-NoPres	
~~KWB-12A~~	~~Grab~~	~~GW~~		Well Dry		12	x	x	x		x	x	x	x			
KWB-12B	Grab	GW		3/21/23	550	12	x	x	x		x	x	x	x			-50
KWB-2R	Grab	GW		3/21/23	1425	11	x	x		x	x	x				x	(no SAMP) -51
~~MW-58~~	~~Grab~~	~~GW~~		LNAPL		10	x	x			x	x	x	x			
KWB-13	Grab	GW		3/21/23	1320	10	x	x			x	x	x	x			
DUP-REST-05	Grab	GW		3/21/23	1200	11	x	x	x	x	x	x	X	X			-53
EB-REST-05	Grab	GW		3/21/23	915	11	x	x	x	x	x	x	X	X			-54
TRIP BLANK-REST-02	Grab	GW		3/21/23	----	1	x										-55

* 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 #

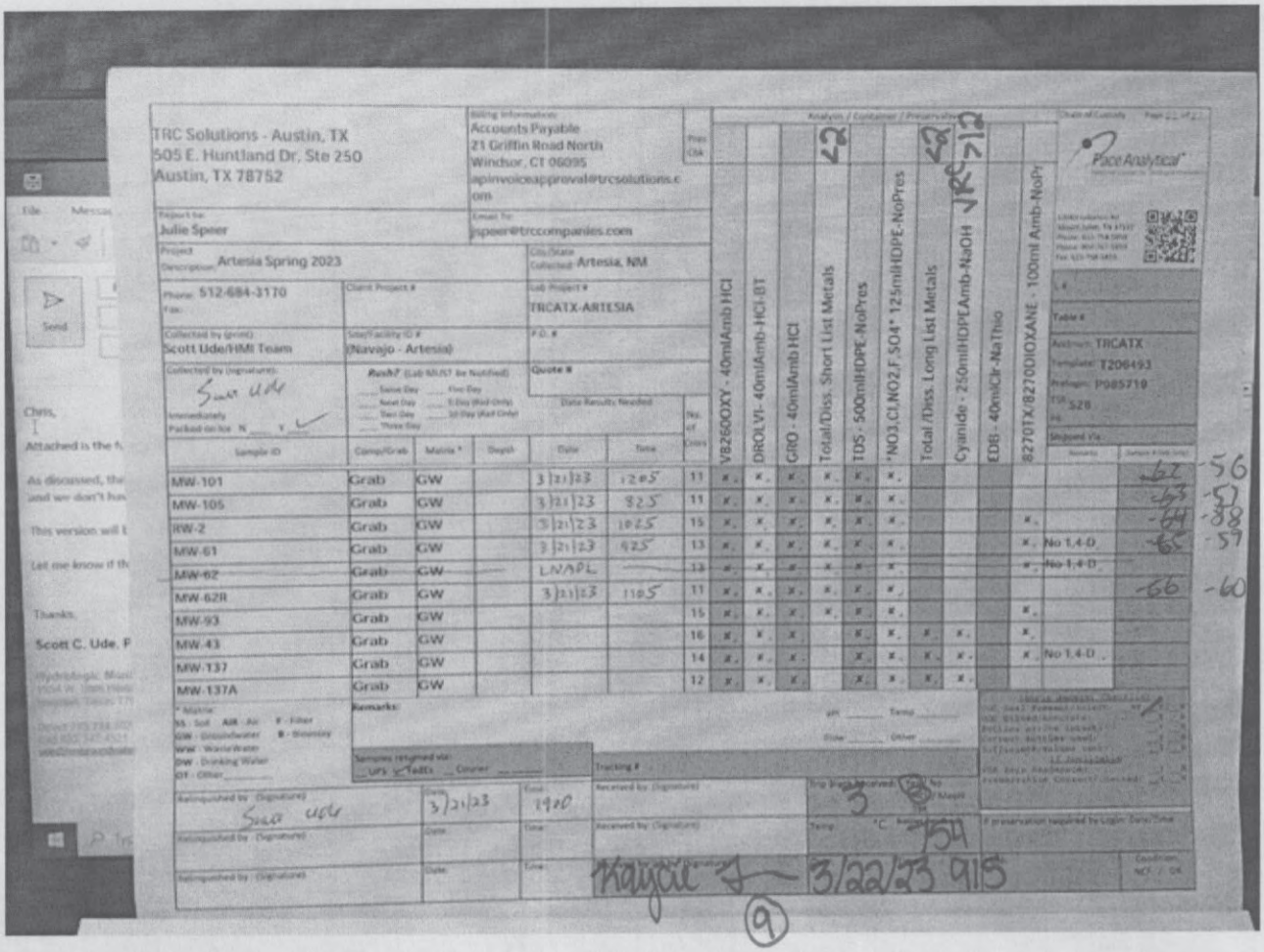
Relinquished by: (Signature) Scott Ude — Date: 3/21/23 — Time: 1900
Received by: (Signature)
Relinquished by: (Signature) — Date: — Time:
Received by: (Signature)
Relinquished by: (Signature) — Date: — Time:
Received by: (Signature) Maycie T — 3/22/23 915

Trip Blank Received: Yes / No, HCL / MeOH
Temp: °C — Bottles: 754
Sufficient volume sent: If Applicable
VOA Zero Headspace: Yes / No
Preservation Correct/Checked: Yes / No
Chain of Custody Page 1 of 1
Pace Analytical
Lab # Table # Acctnum: TRCATX Template: T206383 Prelogin: P985500 TSR: 525 PO: Shipped Via
Sample Condition Upon Receipt
Correct bottles used: Yes / No
Sufficient volume sent: Yes / No
If Applicable
VOA Zero Headspace: Yes / No
Preservation Correct/Checked: Yes / No
If preservation required by Login: Date/Time
Condition: NCF / OK

(9)

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Report to: Julie Speer
Email To: jspeer@trccompanies.com

Project Description: Artesia Spring 2023
City/State Collected: Artesia, NM
Phone: 512-684-3170
Client Project #
Lab Project #: TRCATX-ARTESIA
Collected by (print): Scott Ude/HMI Team
Site/Facility ID #: (Navajo - Artesia)
P.O. #
Collected by (signature): Scott Ude
Rush? (Lab MUST be Notified)
Quote #
Immediately Packed on Ice: N ___ Y ✓
Date Results Needed
No. of Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VB260OXY - 40mlAmb HCl	DROLVI- 40mlAmb-HCl-BT	GRO - 40mlAmb HCl	Total/Diss. Short List Metals	TDS - 500mlHDPE -NoPres	*NO3,CL,NO2,F,SO4* 125mlHDPE-NoPres	Total /Diss. Long List Metals	Cyanide - 250mlHDPE,Amb-NaOH	EDB - 40mlClr -NaThio	8270TX/8270DIOXANE - 100ml Amb-NoPr	Remarks	Sample # (lab only)
MW-101	Grab	GW		3/21/23	1205	11	x	x	x	x	x	x						-56
MW-105	Grab	GW		3/21/23	825	11	x	x	x	x	x	x						-63
RW-2	Grab	GW		3/21/23	1025	15	x	x	x	x	x	x				x		-64
MW-61	Grab	GW		3/21/23	925	13	x	x	x	x	x	x				x	No 1,4-D	-65
~~MW-62~~	~~Grab~~	~~GW~~		LNAPL		~~13~~	~~x~~	~~x~~	~~x~~	~~x~~	~~x~~	~~x~~				~~x~~	~~No 1,4-D~~	
MW-62R	Grab	GW		3/21/23	1105	11	x	x	x	x	x	x						-66
MW-93	Grab	GW				15	x	x	x	x	x	x				x		
MW-43	Grab	GW				16	x	x	x		x	x	x	x		x		
MW-137	Grab	GW				14	x	x	x		x	x	x	x		x	No 1,4-D	
MW-137A	Grab	GW				12	x	x	x		x	x	x	x				

-56 -63 -64 -65 -66 -57 -58 -60

* 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: 3/21/23 — Time: 1920
Received by (Signature)
Trip Blank Received: Yes / No — HCL / MeOH
Temp: 3 °C — 3.4
Relinquished by (Signature) — Date — Time
Received by (Signature)
Temp °C
Relinquished by (Signature) — Date — Time
Received by (Signature): Kayla J — 3/22/23 915
Preservation required by Login: Date/Time
Condition: NCF / OK

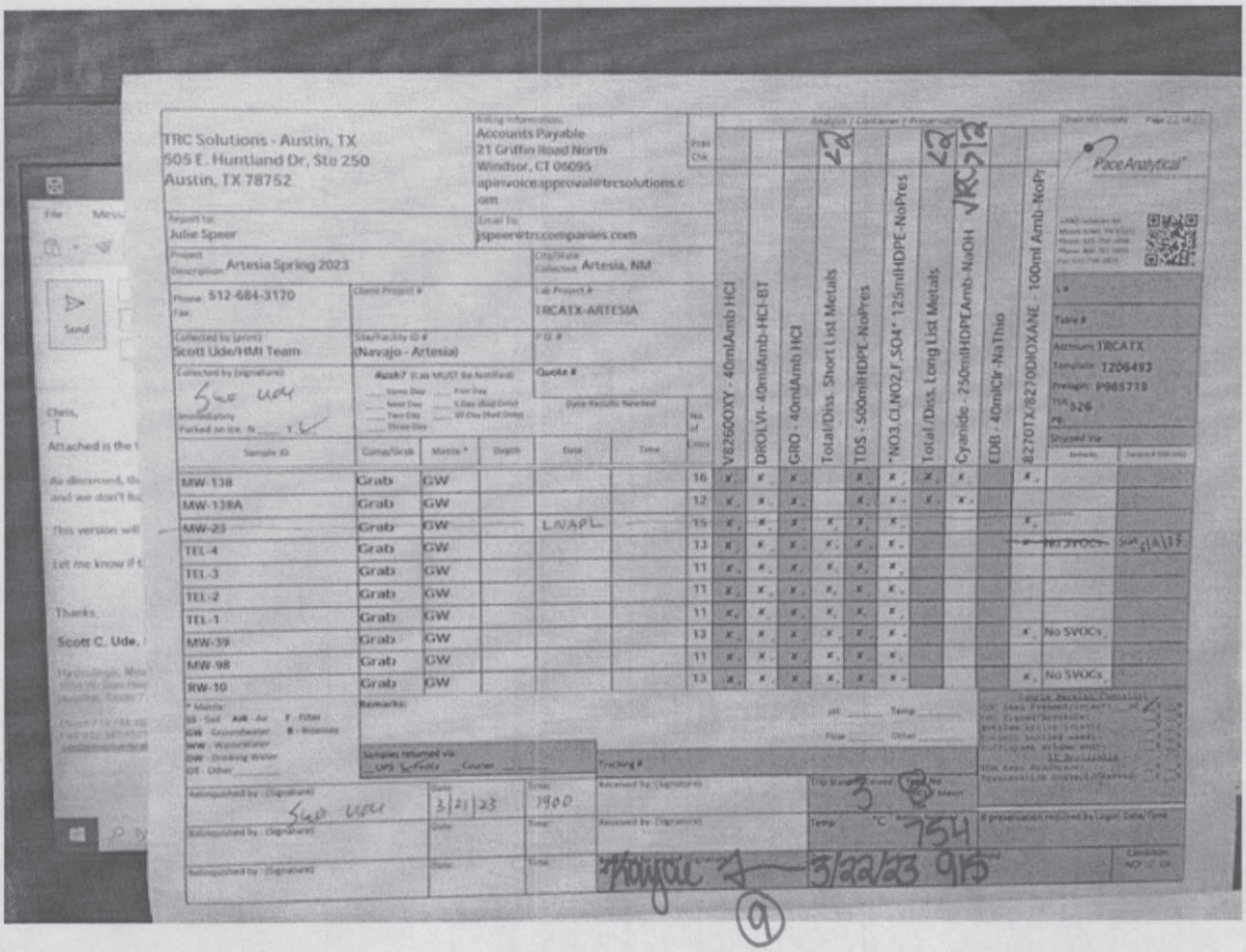
(9)

Pace Analytical

Lab #
Table #
Acctnum: TRCATX
Template: T206493
Prelogin: P985710
TSR: 528
PM
Shipped Via

Received by OCD: 6/12/2024 3:31:05 PM

Released to Imaging: 6/28/2024 11:23:28 AM



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Report to: Julie Speer
Email To: jspeer@trccompanies.com

Project Description: Artesia Spring 2023
City/State Collected: Artesia, NM

Phone: 512-684-3170
Fax:

Client Project #:
Lab Project #: TRCATX-ARTESIA

Collected by (print): Scott Ude/HMI Team
Site/Facility ID #: (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	V8260OXY - 40mlAmb HCl	DROLVI- 40mlAmb-HCl-BT	GRO - 40mlAmb HCl	Total/Diss. Short List Metals	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total /Diss. Long List Metals	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270TX/8270DIOXANE - 100ml Amb-NoPr	
MW-138	Grab	GW				16	x	x	x		x	x	x	x		x	
MW-138A	Grab	GW				12	x	x	x		x	x	x	x			
MW-23	Grab	GW		LNAPL		15	x	x	x	x	x	x				x	
TEL-4	Grab	GW				13	x	x	x	x	x	x				~~x~~	~~No SVOCs~~ SIM 6/14/23
TEL-3	Grab	GW				11	x	x	x	x	x	x					
TEL-2	Grab	GW				11	x	x	x	x	x	x					
TEL-1	Grab	GW				11	x	x	x	x	x	x					
MW-39	Grab	GW				13	x	x	x	x	x	x				x	No SVOCs
MW-98	Grab	GW				11	x	x	x	x	x	x					
RW-10	Grab	GW				13	x	x	x	x	x	x				x	No SVOCs

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

Remarks:

Samples returned via: ___UPS ___FedEx ___Courier

Tracking #:

Relinquished by: (Signature) — Date: 3/21/23 — Time: 1900 — Received by: (Signature)

Relinquished by: (Signature) — Date: — Time: — Received by: (Signature)

Relinquished by: (Signature) — Date: — Time: — Received by: (Signature) — 3/22/23 915

Trip Blank Received: Yes / No — HCL / MeoH — TBR

Temp: °C — Bottles Received: 754

If preservation required by Logical, Date/Time:

Condition: NCF / OK

Chain of Custody — Page 22 of 23

Pace Analytical

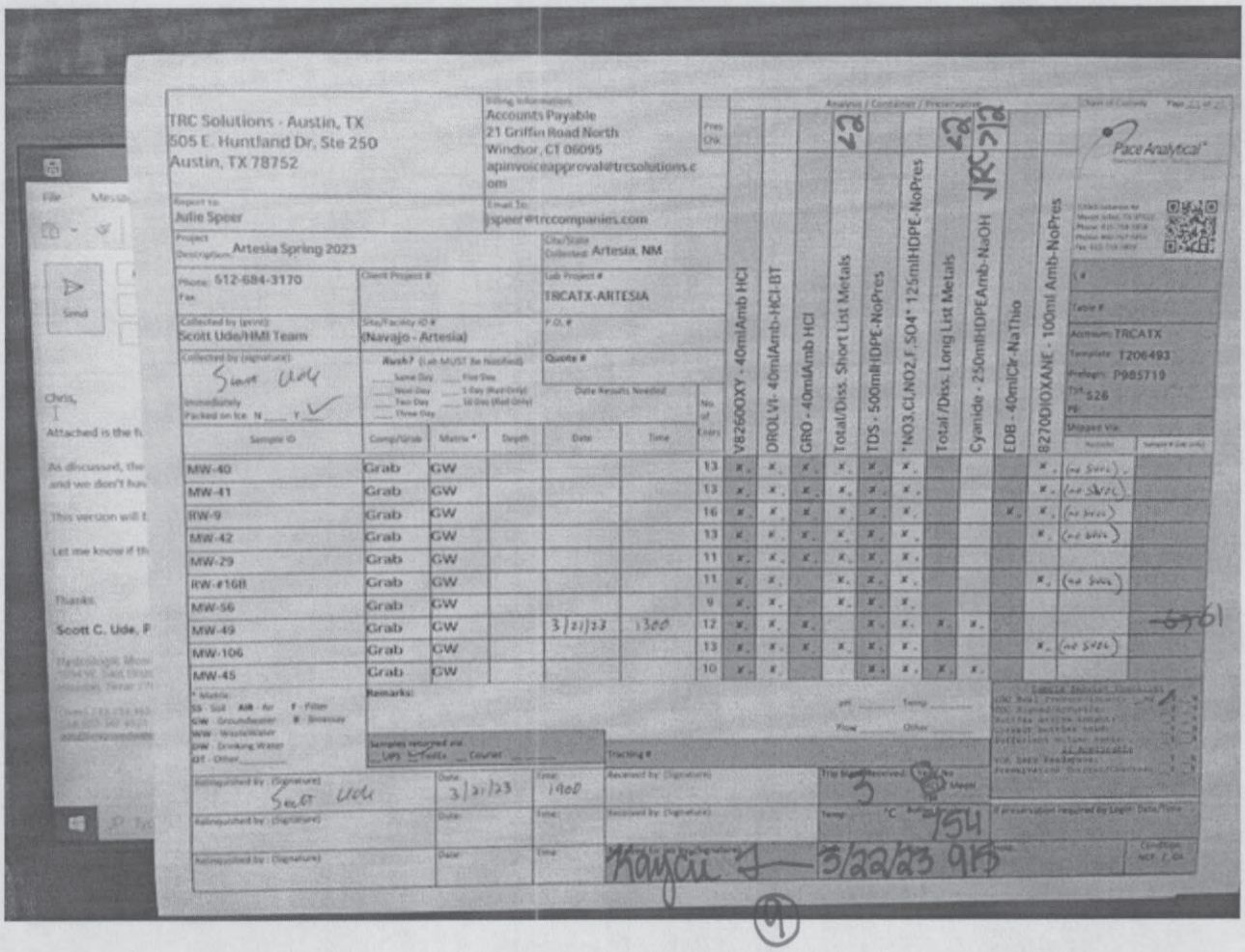
Lab # — Table # — Acctnum: TRCATX — Template: T206493 — Prelogin: P985719 — TSR: 526 — PB — Shipped Via: — Remarks — Sample # (lab only)

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

(9)

Received by OCD: 6/12/2024 3:31:05 PM

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Report to: Julie Speer | Email To: jspeer@trccompanies.com

Project Description: Artesia Spring 2023 | City/State Collected: Artesia, NM

Phone: 512-684-3170 | Client Project #: | Lab Project #: TRCATX-ARTESIA

Collected by (print): Scott Ude/HMI Team | Site/Facility ID #: (Navajo - Artesia) | P.O. #:

Collected by (signature): Scott Ude | Immediately Packed on Ice N ___ Y ✓ | Rush? (Lab MUST Be Notified) | Quote #: | Date Results Needed

Analysis / Container / Preservative: 8260DIOXANE - 100ml Amb-NoPres; EDB - 40mlClr-NaThio; Cyanide - 250mlHDPEAmb-NaOH; Total /Diss. Long List Metals; 'NO3,Cl,NO2,F,SO4" 125mlHDPE-NoPres; TDS - 500mlHDPE-NoPres; Total/Diss. Short List Metals; GRO - 40mlAmb HCl; DROLVI- 40mlAmb-HCl-BT; V8260OXY - 40mlAmb HCl

Pace Analytical

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Liters	V8260OXY	DROLVI	GRO	Total/Diss. Short List Metals	TDS	'NO3,Cl,NO2,F,SO4"	Total /Diss. Long List Metals	Cyanide	EDB	8270DIOXANE
MW-40	Grab	GW				13	x	x	x	x	x	x				x
MW-41	Grab	GW				13	x	x	x	x	x	x				x
RW-9	Grab	GW				16	x	x	x	x	x	x			x	x
MW-42	Grab	GW				13	x	x	x	x	x	x				x
MW-29	Grab	GW				11	x	x	x	x	x	x				
RW-#168	Grab	GW				11	x	x		x	x	x				x
MW-56	Grab	GW				9	x	x		x	x	x				
MW-49	Grab	GW		3/21/23	1300	12	x	x	x		x	x	x	x		
MW-106	Grab	GW				13	x	x	x	x	x	x				x
MW-45	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: | pH ___ Temp ___ | Flow ___ Other ___

Samples returned via: ___ UPS ___ FedEx ___ Courier ___ | Tracking #:

Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Scott Ude	3/21/23	1900	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)

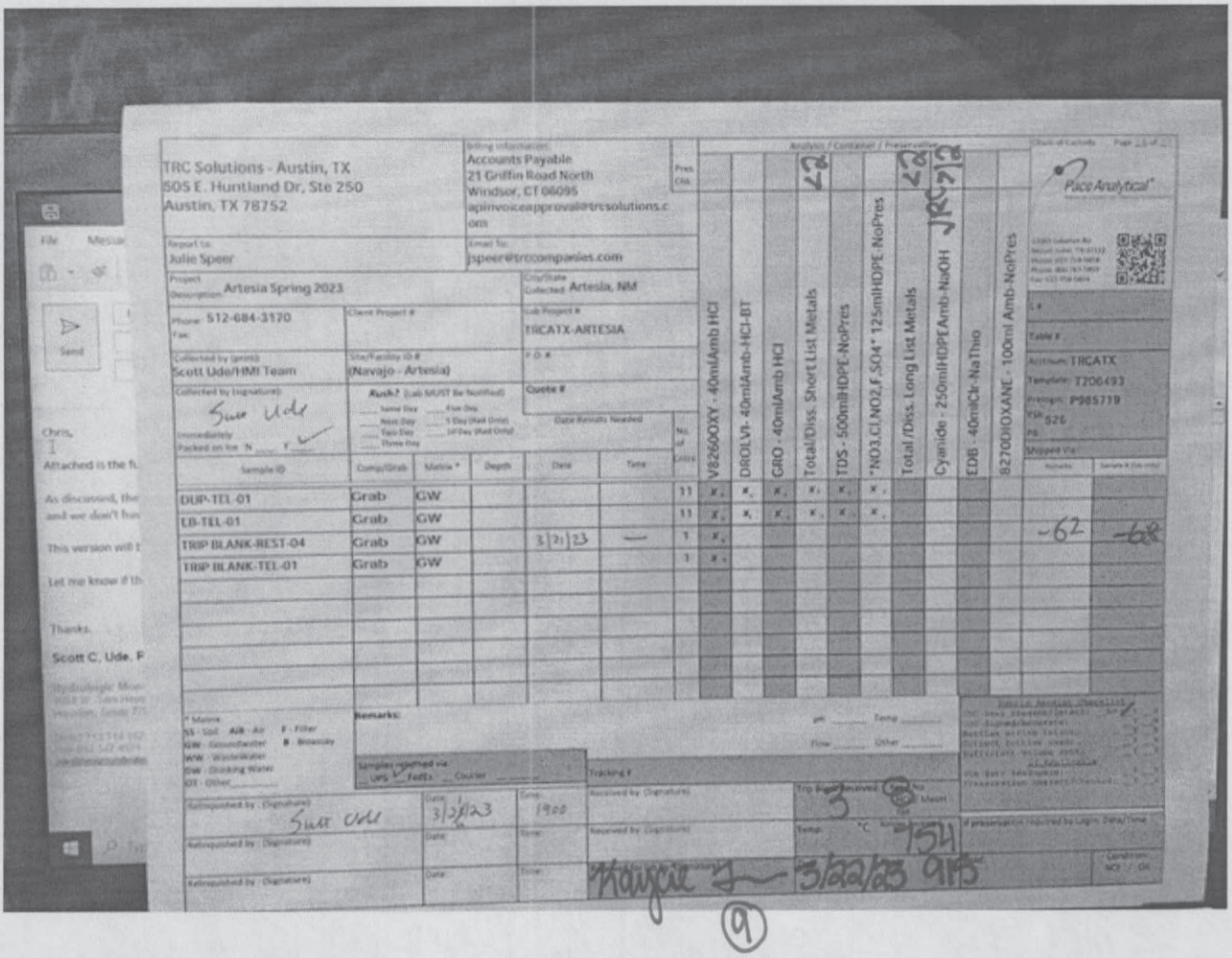
Trip Blank Received: Yes / No, HCL / MeoH | Temp: 5 °C | Bottles Received: 54 | If preservation required by Login: Date/Time: 3/22/23 915 | Condition: NCF / OK

Scott C. Ude, P

Chris,
I
Attached is the fi
As discussed, the
and we don't hav
This version will b
Let me know if th
Thanks,
Scott C. Ude, P

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Project Description: Artesia Spring 2023
City/State Collected: Artesia, NM

Phone: 512-684-3170
Fax:

Client Project #

Lab Project #: TRCATX-ARTESIA

Collected by (print): Scott Ude/HMI Team

Site/Facility ID #: (Navajo - Artesia)

P.O. #

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

Pace Analytical

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260OXY - 40mlAmb HCl	DROLVH - 40mlAmb-HCl-BT	GRO - 40mlAmb HCl	Total/Diss. Short List Metals	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total /Diss. Long List Metals	Cyanide - 250mlHDPE Amb-NaOH	EDB - 40mlClr-Na Thio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
DUP-TEL-01	Grab	GW				11	x	x	x	x	x	x						
EB-TEL-01	Grab	GW				11	x	x	x	x	x	x						
TRIP BLANK-REST-04	Grab	GW		3/21/23	—	1	x										-62	-68
TRIP BLANK-TEL-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 #

Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Scott Ude	3/22/23	1900	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Relinquished by: (Signature)	Date	Time	Received by: (Signature)
			Maycie Z — 3/22/23 915

Trip Blank Received: Yes ✓ No — HCL ✓ MeoH — TBR

Temp: 3 °C Bottles Received: 754

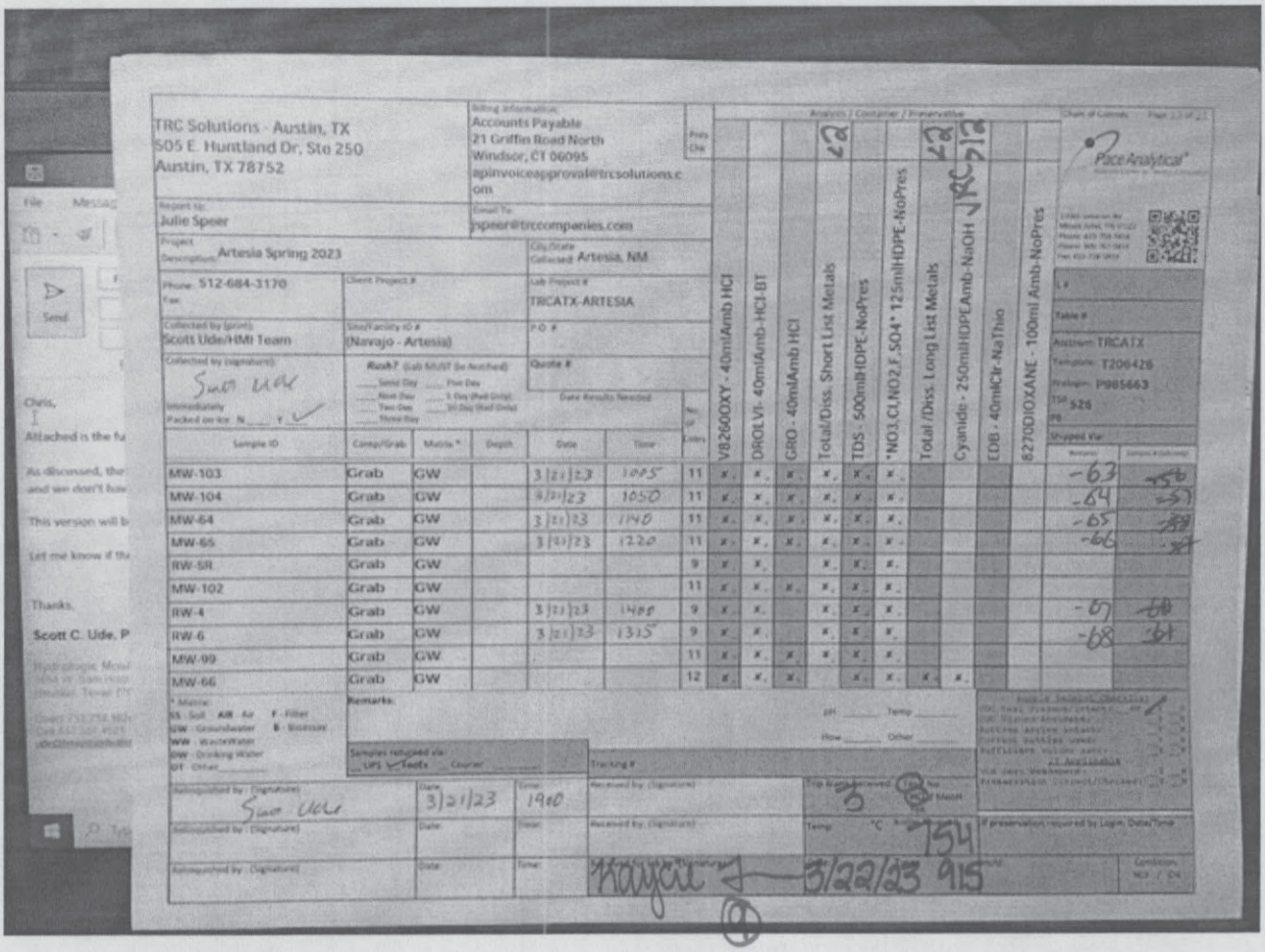
If preservation required by Login: Date/Time

Condition: NCF / OK

(9)

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Project Description: Artesia Spring 2023
City/State Collected: Artesia, NM

Phone: 512-684-3170
Client Project #
Lab Project #: TRCATX-ARTESIA

Collected by (print): Scott Ude/HMI Team
Site/Facility ID #: (Navajo - Artesia)
P.O. #

Collected by (signature): Scott Ude
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 ✓
No. of Coolers

Analysis / Container / Preservative

Pace Analytical

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Containers	V8260DXY - 40mlAmb HCl	DROLVI - 40mlAmb-HCl-BT	GRO - 40mlAmb HCl	Total/Diss. Short List Metals	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total /Diss. Long List Metals	Cyanide - 250mlHDPE,Amb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
MW-103	Grab	GW		3/21/23	1005	11	x	x	x	x	x	x					-63	-56
MW-104	Grab	GW		3/21/23	1050	11	x	x	x	x	x	x					-64	-57
MW-64	Grab	GW		3/21/23	1140	11	x	x	x	x	x	x					-65	-58
MW-65	Grab	GW		3/21/23	1220	11	x	x	x	x	x	x					-66	-59
RW-5R	Grab	GW				9	x	x		x	x	x						
MW-102	Grab	GW				11	x	x	x	x	x	x						
RW-4	Grab	GW		3/21/23	1408	9	x	x		x	x	x					-67	-60
RW-6	Grab	GW		3/21/23	1315	9	x	x		x	x	x					-68	-61
MW-99	Grab	GW				11	x	x	x	x	x	x						
MW-66	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:
pH ___ Temp ___
Flow ___ Other ___

Samples returned via: ___ UPS ✓ FedEx ___ Courier
Tracking #

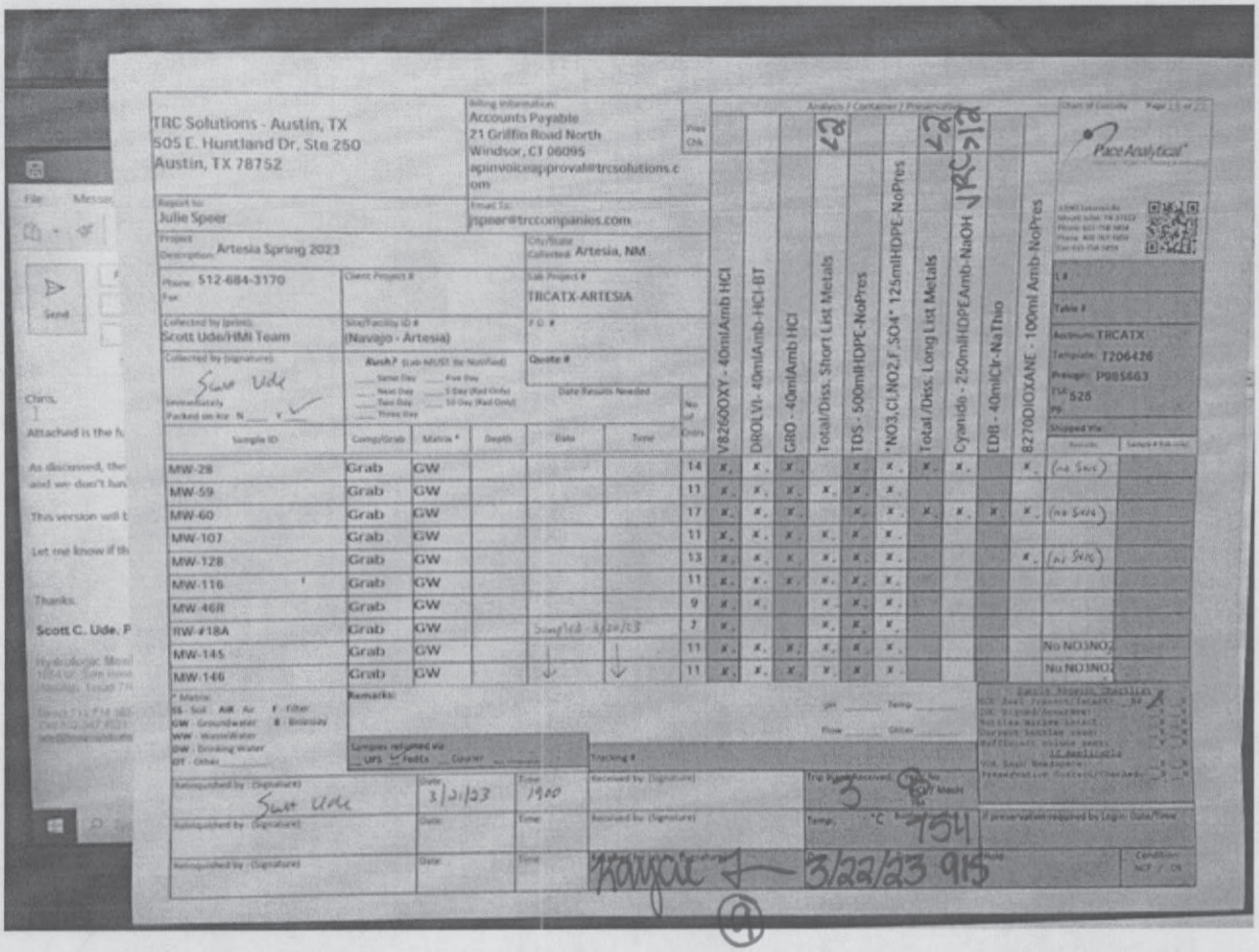
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeOH
Scott Ude	3/21/23	1900		
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C 7.54
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature) Mayra	3/22/23 915

If preservation required by Login: Date/Time

Condition: NCF / OK

Received by OCD: 6/12/2024 3:31:05 PM

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City/State Collected: Artesia, NM

Phone: 512-684-3170
Client Project #
Lab Project #: TRCATX-ARTESIA

Collected by (print): Scott Ude/HMI Team
Site/Facility ID #: (Navajo - Artesia)
P.O. #

Collected by (signature): Scott Ude
Rush? (Lab MUST Be Notified)
Quote #
Date Results Needed

Packed on Ice: N ___ Y ✓

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260OXY - 40mlAmb HCl	DROLVI- 40mlAmb-HCl-BT	GRO - 40mlAmb HCl	Total/Diss. Short List Metals	TDS - 500mlHDPE-NoPres	*NO3,CL,NO2,F,SO4* 125mlHDPE-NoPres	Total/Diss. Long List Metals	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	
MW-28	Grab	GW				14	x	x	x	x	x	x	x	x		x	(no Sulf)
MW-59	Grab	GW				11	x	x	x	x	x	x					
MW-60	Grab	GW				17	x	x	x		x	x	x	x	x	x	(no Sulf)
MW-107	Grab	GW				11	x	x	x	x	x	x					
MW-128	Grab	GW				13	x	x	x	x	x	x				x	(no Sulf)
MW-116	Grab	GW				11	x	x	x	x	x	x					
MW-46R	Grab	GW				9	x	x		x	x	x					
RW-18A	Grab	GW		Sampled - 3/20/23		7	x			x	x	x					
MW-145	Grab	GW				11	x	x	x	x	x	x					No NO3NO2
MW-146	Grab	GW		↓	↓	11	x	x	x	x	x	x					No NO3NO2

* 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: 3/21/23 — Time: 1900
Received by: (Signature)

Trip Blank Received: Yes / No — HCL / MeoH
Temp: °C — Bottles Received: 3 — 754

Relinquished by: (Signature) — Date: — Time:
Received by: (Signature)

Relinquished by: (Signature) — Date: — Time:
Received by: (Signature) Kayla — 3/22/23 915

Pace Analytical

Lab Use Only
Lab #
Table #
Acctnum: TRCATX
Template: T206426
Prelogin: P885663
TSR: 526
PM:
Shipped Via:
Samples | Sample # (lab only)

Chain of Custody Page 1 of 2

Analysis / Container / Preservative

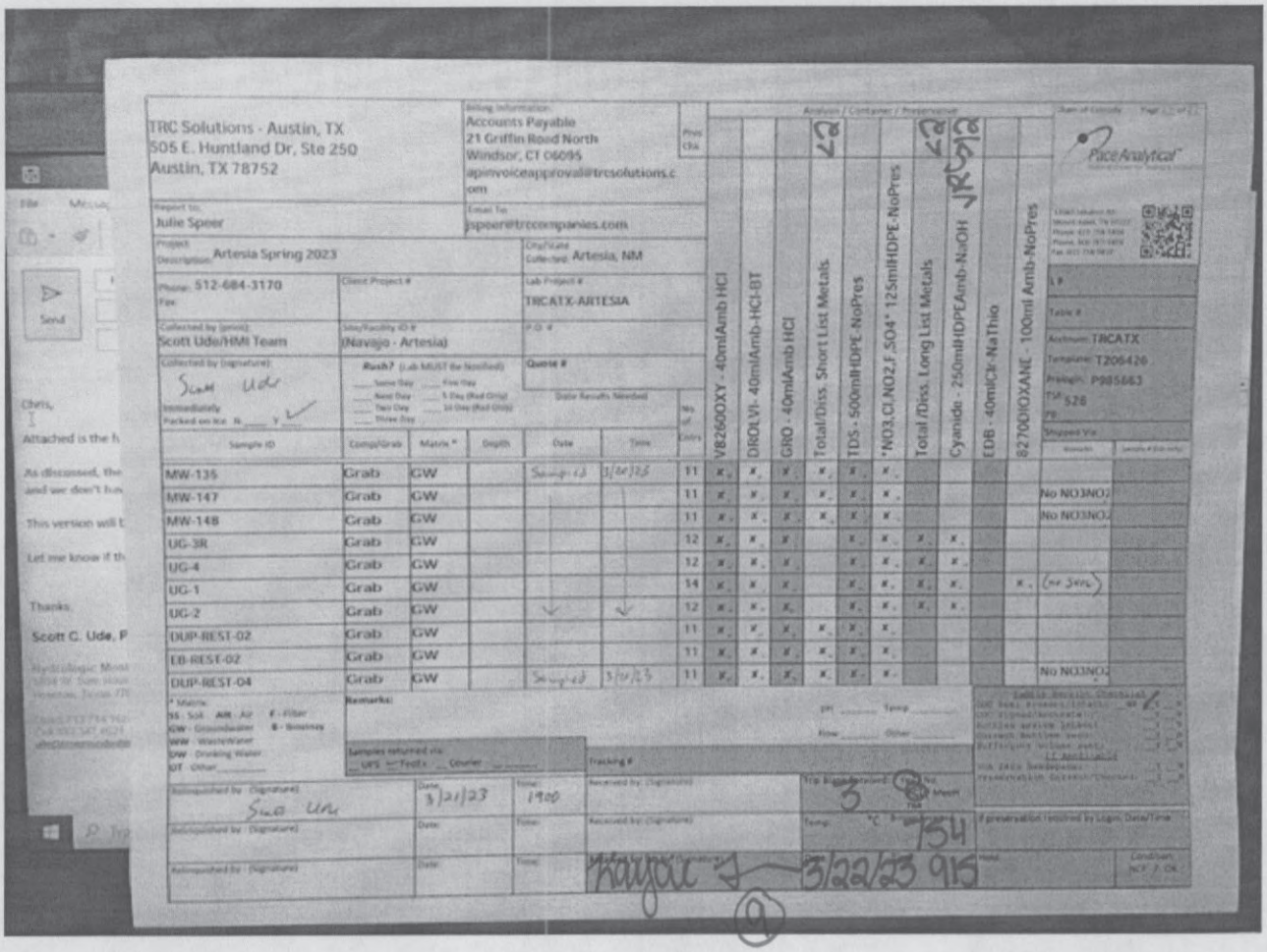
Sample Receipt Checklist
COC Seal Present/Intact: NP
COC Signed/Accurate:
Bottles Arrive Intact:
Correct Bottles Used:
Sufficient Volume Sent:
If Applicable
VOA Zero Headspace:
Preservation Correct/Checked:

Condition: NCF / OK

(9)

Received by OCD: 6/12/2024 3:31:05 PM

Released to Imaging: 6/28/2024 11:23:28 AM



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@trcompanies.com

Project Description: Artesia Spring 2023
City/State Collected: Artesia, NM

Phone: 512-684-3170
Client Project #
Lab Project #: TRCATX-ARTESIA

Collected by (print): Scott Ude/HMI Team
Site/Facility ID #: (Navajo - Artesia)
P.O. #

Collected by (signature): Scott Ude
Rush? (Lab MUST be Notified)
Quote #
Date Results Needed

Packed on Ice: N ___ Y ✓

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	# of Cntrs	V8260OXY - 40mlAmb HCl	DROLVI- 40mlAmb-HCl-BT	GRO - 40mlAmb HCl	Total/Diss. Short List Metals	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total /Diss. Long List Metals	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	
MW-135	Grab	GW		Sample'd	3/20/23	11	x	x	x	x	x	x					No NO3NO2
MW-147	Grab	GW				11	x	x	x	x	x	x					No NO3NO2
MW-148	Grab	GW				11	x	x	x	x	x	x					
UG-3R	Grab	GW				12	x	x	x		x	x	x	x			
UG-4	Grab	GW				12	x	x	x		x	x	x	x			
UG-1	Grab	GW				14	x	x	x		x	x	x	x		x	(no Serm)
UG-2	Grab	GW		↓	↓	12	x	x	x		x	x	x	x			
DUP-REST-02	Grab	GW				11	x	x	x	x	x	x					
EB-REST-02	Grab	GW				11	x	x	x	x	x	x					
DUP-REST-04	Grab	GW		Sample'd	3/21/23	11	x	x	x	x	x	x					No NO3NO2

* Matrix: SS - Soil, AIR - Air, F - Filter, GW - Groundwater, B - Biosolids, WW - WasteWater, DW - Drinking Water, OT - Other

Remarks:

Samples returned via: ___ UPS ___ FedEx ___ Courier

Tracking #

Relinquished by: (Signature) Scott Ude — Date: 3/21/23 — Time: 1900

Received by: (Signature)

Relinquished by: (Signature) — Date: — Time:

Received by: (Signature)

Relinquished by: (Signature) — Date: — Time:

Received by: (Signature) Kayla — Date: 3/22/23 — Time: 915

Trip Blank Received: Yes / No — HCL / MeOH — TBR

Temp: °C — Bottles Received: 754

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Lab Use Only — Acctnum: TRCATX — Template: T206426 — Prelogin: P985663 — TSR: 528 — PO: — Shipped Via:

Page 1 of 2

Pace Analytical

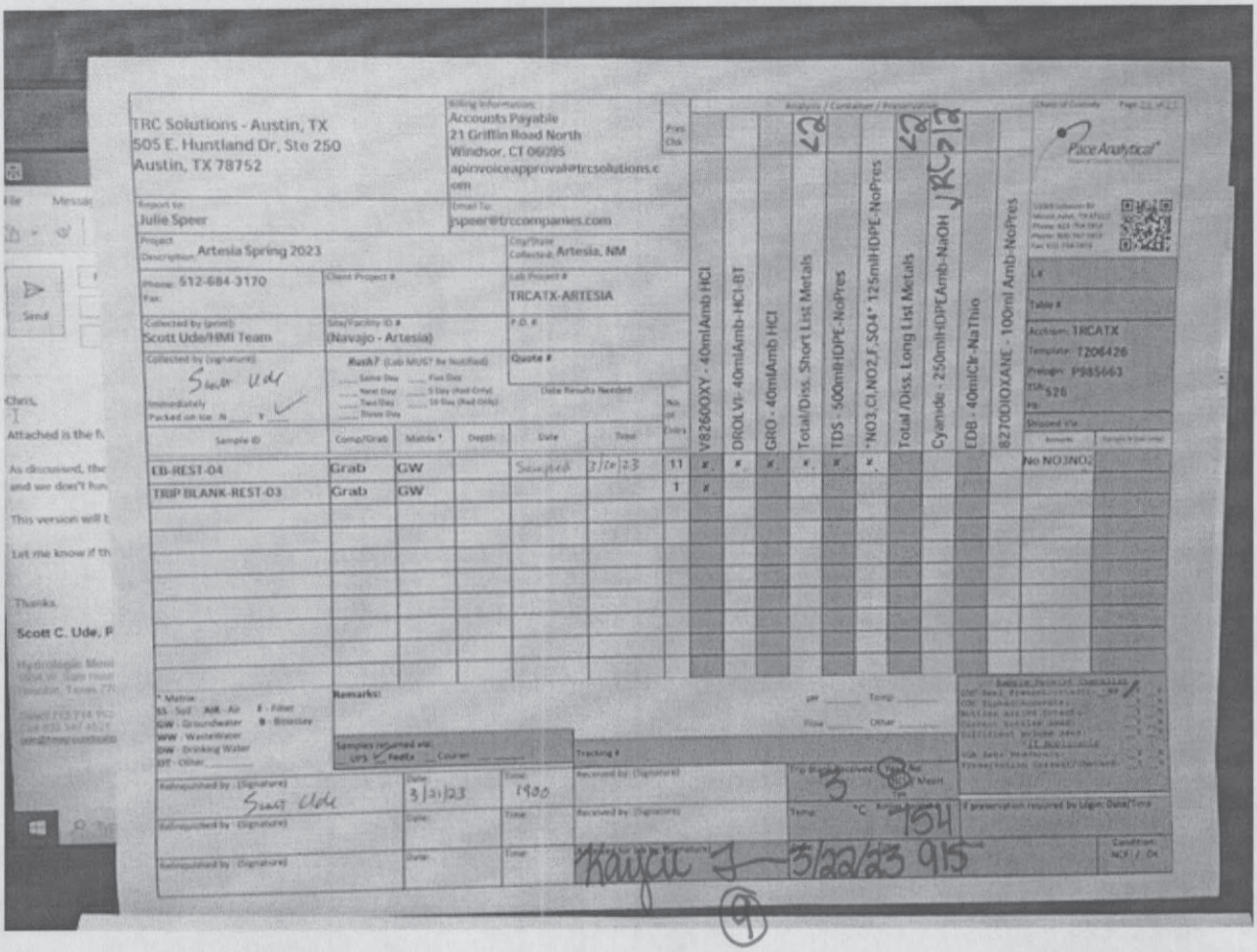
LP

Table #

Analysis / Container / Preservative

Received by OCD: 6/12/2024 3:31:05 PM

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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

Project Description: Artesia Spring 2023
City/State Collected: Artesia, NM

Phone: 512-684-3170
Fax:

Client Project #

Lab Project #: TRCATX-ARTESIA

Collected by (print): Scott Ude/HMI Team

Site/Facility ID #: (Navajo - Artesia)

P.O. #

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/Diss. Short List Metals	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total /Diss. Long List Metals	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	
EB-REST-04	Grab	GW		Sampled	3/10/23	11	x	x	x	x	x	x					No NO3NO2
TRIP BLANK-REST-03	Grab	GW				1	x										

Pace Analytical

Lab Use Only
Lab #
Table #
Acctnum: TRCATX
Template: T206426
Prelogin: P985663
TSR: 526
PB:
Shipped Via:
Remarks / Sample Temp on Receipt

* 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: 3/21/23 Time: 1900

Received by: (Signature)

Trip Blank Received: Yes / No HCL / MeOH TBR

Temp: 3 °C Bottles Received: 154

If preservation required by Login: Date/Time

Relinquished by: (Signature) Date: Time:

Received by: (Signature)

Relinquished by: (Signature) Date: Time:

Received by: (Signature) 3/22/23 915

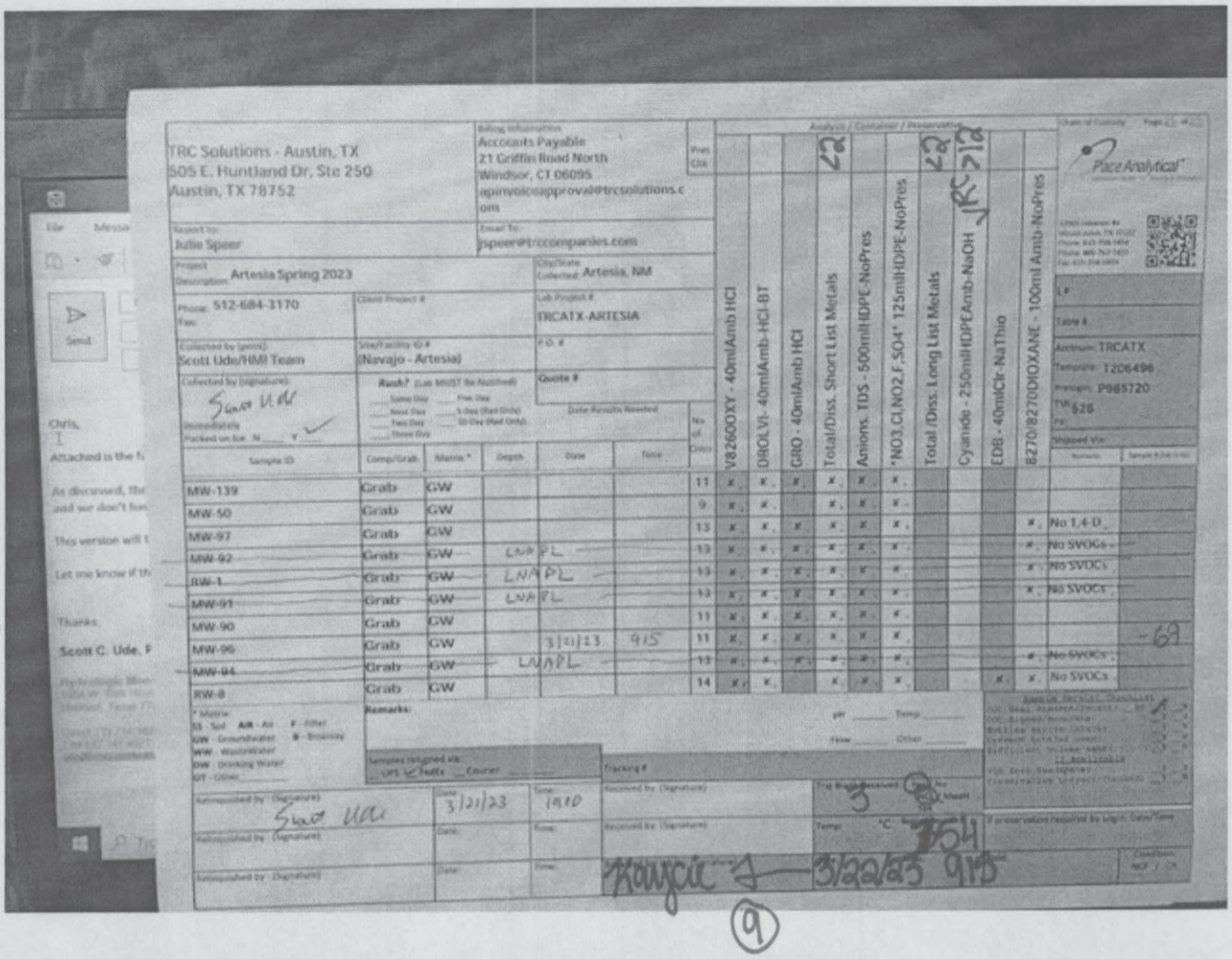
Condition: NCF / OK

(9)

Received by OCD: 6/12/2024 3:31:05 PM

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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 Spring 2023
City/State Collected: Artesia, NM
Phone: 512-684-3170
Client Project #
Lab Project #: TRCATX-ARTESIA
Collected by (print): Scott Ude/HMI Team
Site/Facility ID #: (Navajo - Artesia)
P.O. #
Collected by (signature): Scott Ude
Rush? (Lab MUST Be Notified)
Quote #
Date Results Needed
Immediately Packed on Ice: N ___ Y ✓

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/Diss. Short List Metals	Anions, TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total /Diss. Long List Metals	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270/8270(MOD)XANE - 100ml Amb-NoPres	
MW-139	Grab	GW				11	x	x	x	x	x	x					
MW-50	Grab	GW				9	x	x		x	x	x					
MW-97	Grab	GW				13	x	x	x	x	x	x				x	No 1,4-D
MW-92	Grab	GW	LNAPL			13	x	x	x	x	x	x				x	No SVOCs
RW-1	Grab	GW	LNAPL			13	x	x	x	x	x	x				x	No SVOCs
MW-91	Grab	GW	LNAPL			11	x	x	x	x	x	x					
MW-90	Grab	GW		3/21/23	915	11	x	x	x	x	x	x					
MW-96	Grab	GW	LNAPL			13	x	x	x	x	x	x				x	No SVOCs
MW-94	Grab	GW				14	x	x		x	x	x				x	No SVOCs
RW-8	Grab	GW															

Remarks:

pH ___ Temp ___
Flow ___ Other ___

* Matrix: SS - Soil, AIR - Air, F - Filter, GW - Groundwater, B - Bioassay, WW - Wastewater, DW - Drinking Water, OT - Other

Samples returned via: UPS ✓ FedEx Courier

Tracking #

Relinquished by: (Signature) Scott Ude — Date: 3/21/23 — Time: 1910
Received by: (Signature)
Relinquished by: (Signature) — Date: — Time:
Received by: (Signature)
Relinquished by: (Signature) — Date: — Time:
Received by: (Signature) Kayla C — Date: 3/22/23 — Time: 915

Trip Blank Received: Yes / No — HCL / MeOH — TBR
Temp: °C — 3.54
Bottles Received: 3
If preservation required by Login: Date/Time
Condition: NCF / OK

Pace Analytical

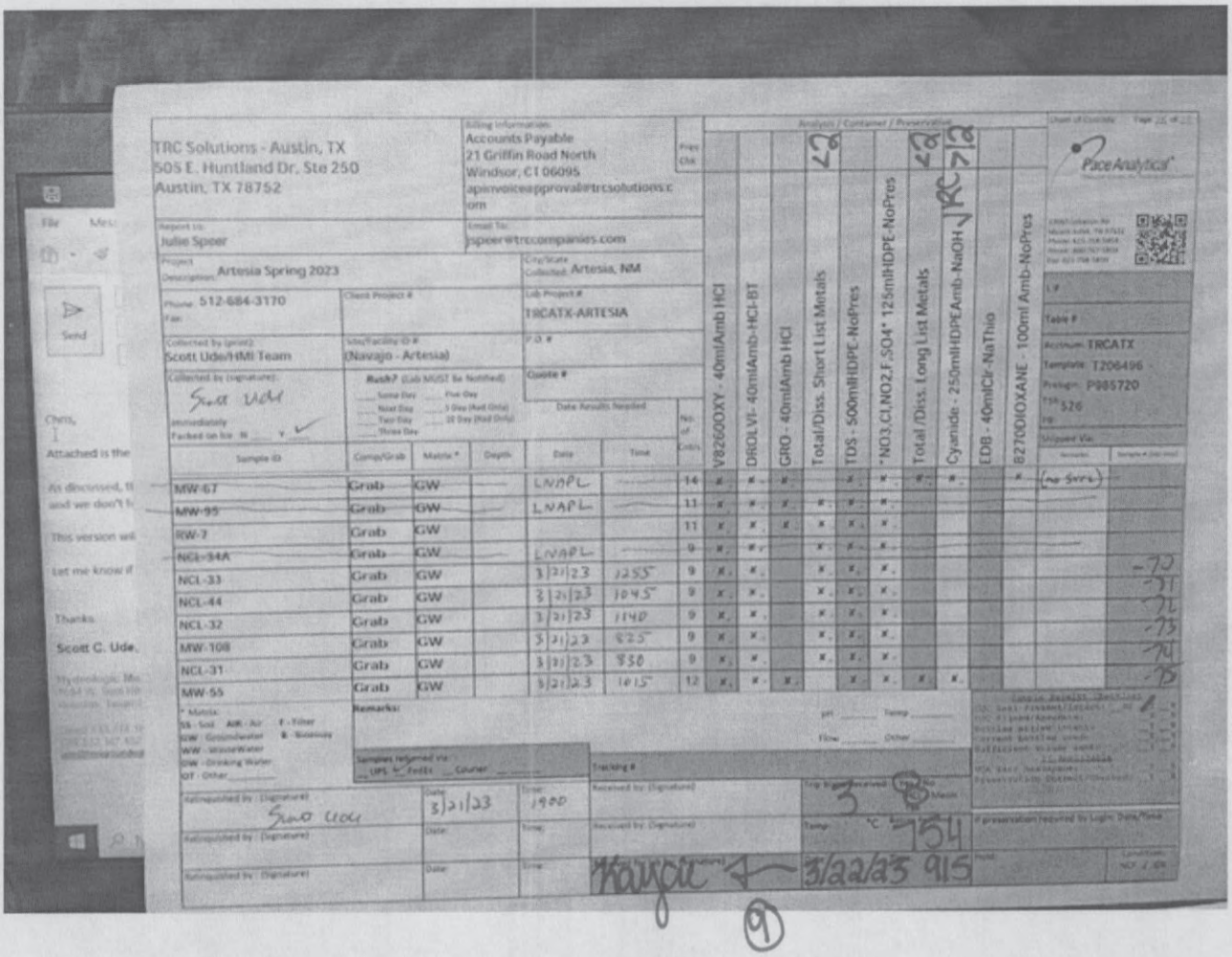
Chain of Custody — Page 1 of 1

Account: TRCATX
Template: T206496
Prelogin: P985720
TSR: 626
PM:
Shipped Via:
Remarks / Sample # (lab only)

(9)

Received by OCD: 6/12/2024 3:31:05 PM

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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 Spoer
Email To: jspoer@trcompanies.com

Project Description: Artesia Spring 2023
City/State Collected: Artesia, NM

Phone: 512-684-3170
Client Project #
Lab Project #: TRCATX-ARTESIA

Collected by (print): Scott Ude/HMI Team
Site/Facility ID #: (Navajo - Artesia)
P.O. #

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/Diss. Short List Metals	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total /Diss. Long List Metals	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	
MW-67	Grab	GW		LNAPL		14	x	x	x		x	x	x			x	(no Serv)
MW-95	Grab	GW		LNAPL		11	x	x	x	x	x	x					
RW-7	Grab	GW				11	x	x	x	x	x	x					
NCL-34A	Grab	GW		LNAPL		9	x	x		x	x	x					
NCL-33	Grab	GW		3/21/23	1255	9	x	x		x	x	x					-70
NCL-44	Grab	GW		3/21/23	1045	9	x	x		x	x	x					-71
NCL-32	Grab	GW		3/21/23	1140	9	x	x		x	x	x					-72
MW-108	Grab	GW		3/21/23	825	9	x	x		x	x	x					-73
NCL-31	Grab	GW		3/21/23	930	9	x	x		x	x	x					-74
MW-55	Grab	GW		3/21/23	1015	12	x	x	x		x	x	x	x			-75

* Matrix: SS - Soil, AIR - Air, F - Filter, GW - Groundwater, B - Biosolids, 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: 3/21/23 — Time: 1900
Received by: (Signature)
Relinquished by: (Signature) — Date: — Time:
Received by: (Signature)
Relinquished by: (Signature) — Date: — Time:
Received by: (Signature) Maggie — 3/22/23 915

Trip Blank Received: Yes / No — HCL / MeOH
Temp: 3 °C — Bottles Received: 754
COC Seal Present/Intact: NP
COC Signed/Accurate:
Bottles arrive intact:
Correct bottles used:
Sufficient volume sent:
If Applicable
VOA Zero Headspace:
Preservation Correct/Checked:

pH Strips: Lot#: HC 200416A
Lead Acetate Strips: Lot#:
Nitric Acid: Lot#:
Sulfuric Acid: Lot#:
Sodium Hydroxide: Lot#:
Zinc Acetate: Lot#:
Ascorbic Acid: Lot#:

preservation required by Logic: Date/Time:
Hold:
Condition: NCF / OK

Pace Analytical

Chain of Custody — Page 25 of 25

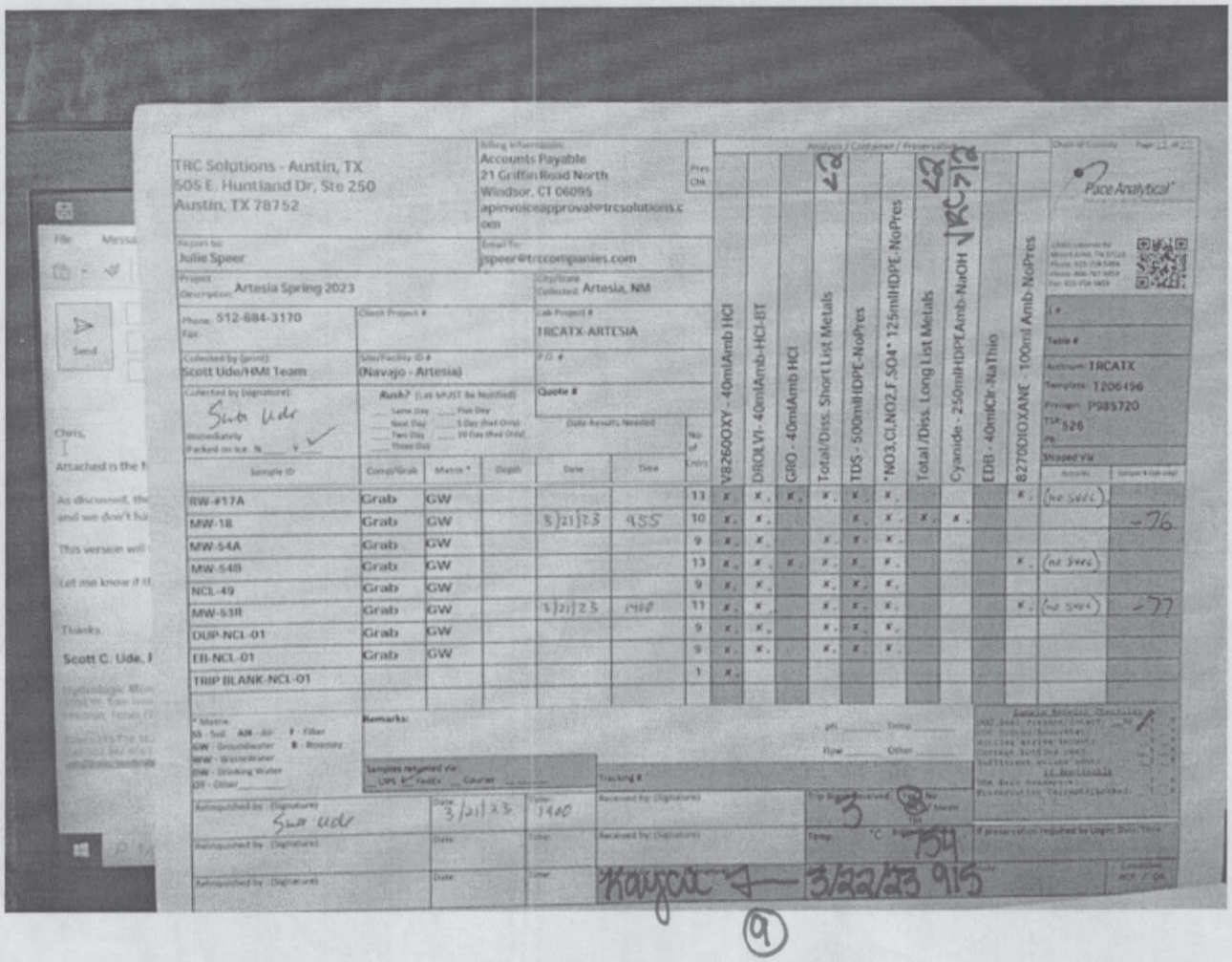
Lab #:
Table #:
Acctnum: TRCATX
Template: T206496
Prelogin: P885720
TSR: 526
PO:
Shipped Via:

Remarks — Sample # (lab only)

(9)

Received by OCD: 6/12/2024 3:31:05 PM

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Austin, TX 78752

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

Report to: Julie Speer
Email To: jspeer@trcompanies.com

Project Description: Artesia Spring 2023
City/State Collected: Artesia, NM

Phone: 512-684-3170
Client Project #
Lab Project #: TRCATX-ARTESIA

Collected by (print): Scott Ude/HMI Team
Site/Facility ID #: (Navajo - Artesia)
P.O. #

Collected by (signature): Scott Ude
Rush? (Lab MUST be Notified): Same Day, Next Day, Two Day, Three Day, Five Day, 5 Day (Rad Only), 10 Day (Rad Only)
Quote #
Date Results Needed
Immediately Packed on Ice: N ___ Y ✓

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260OXY - 40mlAmb HCl	DROLVI - 40mlAmb-HCl-BT	GRO - 40mlAmb HCl	Total/Diss. Short List Metals	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total/Diss. Long List Metals	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	
RW-#17A	Grab	GW				13	x	x	x	x	x	x				x	(no 5ml)
MW-18	Grab	GW		3/21/23	955	10	x	x			x	x	x	x			-76
MW-54A	Grab	GW				9	x	x		x	x	x					
MW-54B	Grab	GW				13	x	x	x	x	x	x				x	(no 5ml)
NCL-49	Grab	GW				9	x	x		x	x	x					
MW-53R	Grab	GW		3/21/23	1408	11	x	x		x	x	x				x	(no 5ml) -77
DUP-NCL-01	Grab	GW				9	x	x		x	x	x					
EB-NCL-01	Grab	GW				9	x	x		x	x	x					
TRIP BLANK-NCL-01						1	x										

Analysis / Container / Preservation

Pace Analytical

Lab #
Table #
Acctnum: TRCATX
Template: T206496
Prelogin: P985720
TSR: 526
PB:
Shipped Via:

Remarks:
pH ___ Temp ___
Flow ___ Other ___

Samples returned via: UPS FedEx Courier
Tracking #

Relinquished by (Signature): Scott Ude — Date: 3/21/23 — Time: 1400
Received by (Signature)
Trip Blank Received: Yes / No — HCL / MeoH
Temp: °C — Bottles Received: 154
Relinquished by (Signature) — Date — Time
Received by (Signature)
Relinquished by (Signature) — Date — Time
Received by (Signature): Kayla Z — 3/22/23 915

If preservation required by Logon: Date/Time
Condition: NCF / OK

(9)

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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L597201

D077

Tracking Numbers	Temperature
5882 7563 4077	NSA1 4.8+0=4.8
5882 7563 3125	NSA1 3.5+0=3.5
5882 7563 4066	NSA1 1.6+0=1.6
5163 7721 6029	NSA1 5.5+0=5.5
5163 7721 5993	NSA1 0.2+0=0.2
6357 9919 4013	NSA1 2.6+0=2.6
6331 2236 4435	NSA1 1.7+0=1.7
6357 9919 4002	NSA1 1.9+0=1.9
6357 9918 0360	NSA1 1.9+0=1.9
6053 3811 5290	NSA1 0.8+0=0.8
6357 9918 0370	NSA1 1.5+0=1.5
6331 2236 4402	NSA1 0.8+0=0.8
5882 7563 9138	NSA1 3.9+0=3.9

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Received by OCD: 6/12/2024 3:31:05 PM

3/22-NCF-L1597201 TRCATX TD

R5

Time estimate: oh **Time spent:** oh

Members

Troy Dunlap (responsible) Christopher McCord

- [x] Login Clarification needed
- [ ] Chain of custody is incomplete
- [ ] Please specify Metals requested
- [ ] Please specify TCLP requested
- [ ] Received additional samples not listed on COC
- [ ] Sample IDs on containers do not match IDs on COC
- [ ] Client did not "X" analysis
- [ ] Chain of Custody is missing
- [ ] If no COC: Received by:_____
- [ ] If no COC: Date/Time:_____
- [ ] If no COC: Temp./Cont.Rec./pH:_____
- [ ] If no COC: Carrier:_____
- [ ] If no COC: Tracking #:_____
- [ ] Client informed by call
- [ ] Client informed by Email
- [ ] Client informed by Voicemail
- [x] Date/Time: 3/23/23 15:55
- [x] PM initials: CM
- [ ] Client Contact:_____

Comments

Troy Dunlap *22 March 2023 5:51 PM*

For MW-126B the client did not send 8270DIOXANE or SV8011 containers.

Christopher McCord *23 March 2023 3:57 PM*

Not needed on this sample.

Troy Dunlap *23 March 2023 6:19 PM*

Done.

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ANALYTICAL REPORT

April 04, 2023

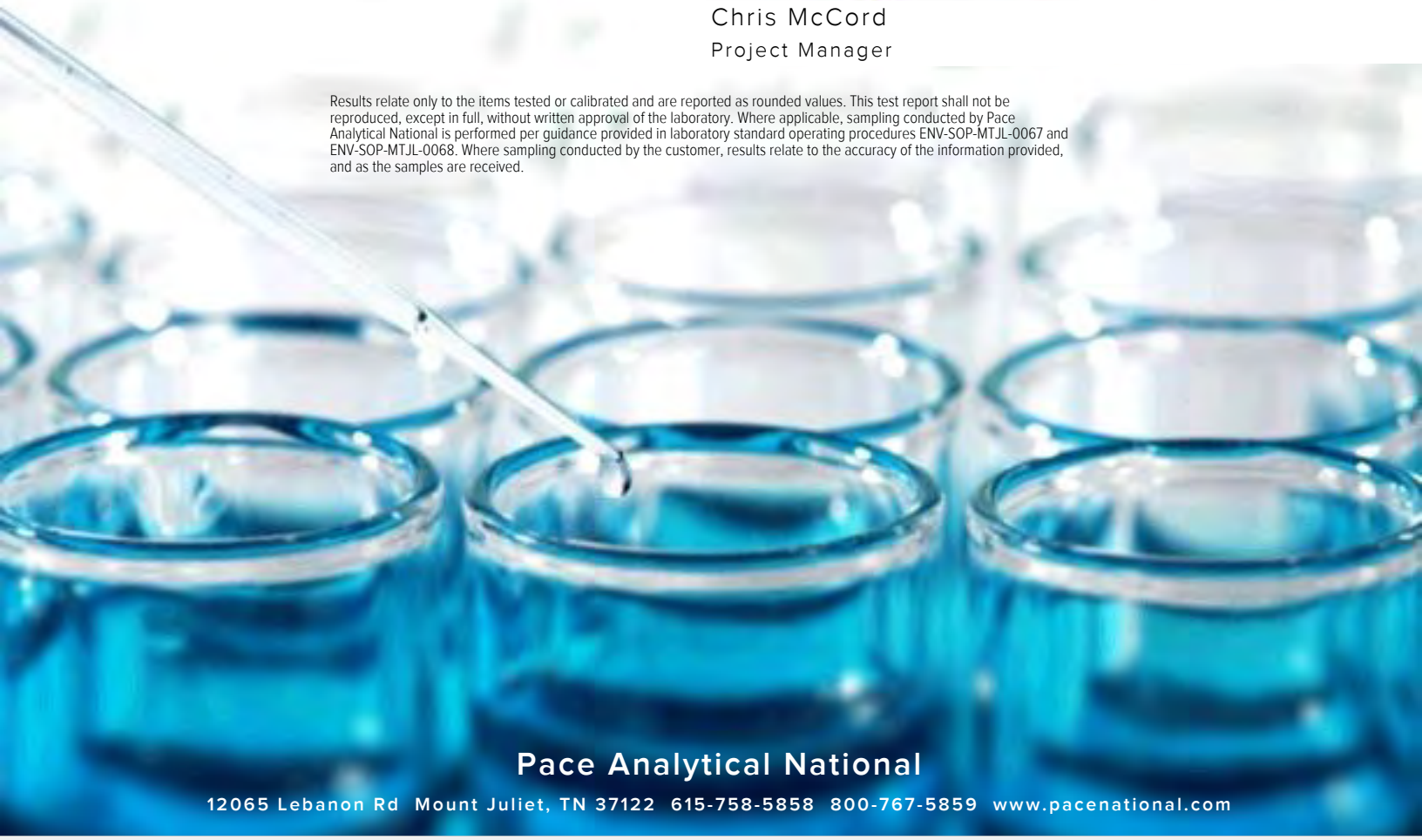
TRC Solutions - Austin, TX

Sample Delivery Group:	L1597529
Samples Received:	03/23/2023
Project Number:	
Description:	Artesia Spring 2023
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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Cn: Case Narrative 26

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MW-74 L1597529-06 37

MW-73 L1597529-07 39

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EB-EP-01 L1597529-09 43

EB-EP-04 L1597529-10 45

TRIP BLANK-EP-01 L1597529-11 47

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MW-4A L1597529-23 75

DUP-EP-02 L1597529-24 78

DUP-EP-03 L1597529-25 81

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MW-134 L1597529-46 114
RA-4196 L1597529-47 116
RA-313 L1597529-48 118
KWB-7 L1597529-49 120
MW-20 L1597529-50 123
NP-1 L1597529-51 125
NP-6 L1597529-52 127
MW-8 L1597529-53 128
MW-21 L1597529-54 130
MW-71 L1597529-55 132
KWB-11B L1597529-56 135
MW-115 L1597529-57 138
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MW-125 L1597529-59 144
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Released to Imaging: 6/28/2024 11:23:28 AM

MW-84 L1597529-01 GW

Collected by: SU / HMI Team
Collected date/time: 03/22/23 11:00
Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2029498	1	03/25/23 08:16	03/25/23 10:40	AS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029428	10	03/24/23 22:08	03/24/23 22:08	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029428	100	03/24/23 21:28	03/24/23 21:28	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029230	1	03/24/23 12:38	03/28/23 10:25	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029246	1	03/24/23 14:43	03/28/23 15:16	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029246	5	03/24/23 14:43	03/28/23 15:48	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2030163	20	03/26/23 05:04	03/26/23 05:04	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030834	10	03/27/23 14:53	03/27/23 14:53	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031712	10	03/29/23 08:10	04/03/23 01:27	DMG	Mt. Juliet, TN

MW-81 L1597529-02 GW

Collected by: SU / HMI Team
Collected date/time: 03/22/23 08:00
Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2029498	1	03/25/23 08:16	03/25/23 10:40	AS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029007	10	03/24/23 00:38	03/24/23 00:38	LBR	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029230	1	03/24/23 12:38	03/27/23 23:04	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029246	1	03/24/23 14:43	03/28/23 01:49	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2030163	1	03/26/23 03:36	03/26/23 03:36	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030834	1	03/27/23 15:15	03/27/23 15:15	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031712	1	03/29/23 08:10	03/31/23 07:26	MWS	Mt. Juliet, TN

MW-80 L1597529-03 GW

Collected by: SU / HMI Team
Collected date/time: 03/22/23 08:40
Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2029498	1	03/25/23 08:16	03/25/23 10:40	AS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029184	10	03/28/23 14:30	03/28/23 14:30	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029184	100	03/28/23 14:43	03/28/23 14:43	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029230	1	03/24/23 12:38	03/27/23 23:20	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029246	1	03/24/23 14:43	03/28/23 01:52	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2030163	1	03/26/23 03:58	03/26/23 03:58	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030834	1	03/27/23 15:36	03/27/23 15:36	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031712	1	03/29/23 08:10	03/31/23 07:58	MWS	Mt. Juliet, TN

MW-79 L1597529-04 GW

Collected by: SU / HMI Team
Collected date/time: 03/22/23 09:20
Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2029498	1	03/25/23 08:16	03/25/23 10:40	AS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029184	10	03/28/23 14:56	03/28/23 14:56	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029184	100	03/28/23 15:10	03/28/23 15:10	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029230	1	03/24/23 12:38	03/27/23 23:24	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029246	1	03/24/23 14:43	03/28/23 15:19	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029246	5	03/24/23 14:43	03/28/23 15:51	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2030163	1	03/26/23 04:20	03/26/23 04:20	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030834	1	03/27/23 15:58	03/27/23 15:58	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031712	1	03/29/23 08:10	03/31/23 08:18	MWS	Mt. Juliet, TN

MW-82 L1597529-05 GW

Collected by: SU / HMI Team
Collected date/time: 03/22/23 10:15
Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2029498	1	03/25/23 08:16	03/25/23 10:40	AS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029188	10	03/28/23 23:33	03/28/23 23:33	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029188	100	03/28/23 23:49	03/28/23 23:49	LBR	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029230	1	03/24/23 12:38	03/27/23 23:28	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029246	1	03/24/23 14:43	03/28/23 15:23	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029246	5	03/24/23 14:43	03/28/23 15:54	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2033113	1	03/30/23 18:39	03/30/23 18:39	KSD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030834	1	03/27/23 16:19	03/27/23 16:19	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031712	1	03/29/23 08:10	03/31/23 08:39	MWS	Mt. Juliet, TN

MW-74 L1597529-06 GW

Collected by: SU / HMI Team
Collected date/time: 03/22/23 12:35
Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2029498	1	03/25/23 08:16	03/25/23 10:40	AS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029193	10	03/24/23 12:30	03/24/23 12:30	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029193	100	03/24/23 14:12	03/24/23 14:12	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029230	1	03/24/23 12:38	03/27/23 23:40	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029246	1	03/24/23 14:43	03/28/23 15:26	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029246	5	03/24/23 14:43	03/28/23 15:57	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2033113	1	03/30/23 19:01	03/30/23 19:01	KSD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030834	1	03/27/23 16:41	03/27/23 16:41	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031712	2	03/29/23 08:10	04/01/23 01:33	MWS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod	WG2030234	1	03/28/23 06:41	03/29/23 15:11	AED	Mt. Juliet, TN

MW-73 L1597529-07 GW

Collected by: SU / HMI Team
Collected date/time: 03/22/23 11:50
Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2029498	1	03/25/23 08:16	03/25/23 10:40	AS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029193	10	03/24/23 11:51	03/24/23 11:51	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029193	100	03/24/23 13:34	03/24/23 13:34	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029230	1	03/24/23 12:38	03/27/23 23:44	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029246	1	03/24/23 14:43	03/28/23 15:29	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029246	5	03/24/23 14:43	03/28/23 16:01	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2030301	20	03/26/23 14:41	03/26/23 14:41	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030834	1	03/27/23 17:03	03/27/23 17:03	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031712	1	03/29/23 08:10	04/01/23 01:13	MWS	Mt. Juliet, TN

MW-130 L1597529-08 GW

Collected by: SU / HMI Team
Collected date/time: 03/22/23 12:45
Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2029498	1	03/25/23 08:16	03/25/23 10:40	AS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029193	1	03/24/23 12:42	03/24/23 12:42	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029230	1	03/24/23 12:38	03/27/23 23:47	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029246	1	03/24/23 14:43	03/28/23 15:33	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2030301	1	03/26/23 12:06	03/26/23 12:06	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030834	1	03/27/23 17:24	03/27/23 17:24	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031712	1	03/29/23 08:10	04/01/23 00:52	MWS	Mt. Juliet, TN

EB-EP-01 L1597529-09 GW

Collected by: SU / HMI Team
Collected date/time: 03/22/23 12:50
Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2029498	1	03/25/23 08:16	03/25/23 10:40	AS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029193	1	03/24/23 14:38	03/24/23 14:38	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029230	1	03/24/23 12:38	03/27/23 23:50	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029247	1	03/24/23 12:49	03/27/23 13:33	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2030301	1	03/26/23 12:28	03/26/23 12:28	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030834	1	03/27/23 17:46	03/27/23 17:46	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031712	1	03/29/23 08:10	03/31/23 17:03	MWS	Mt. Juliet, TN

EB-EP-04 L1597529-10 GW

Collected by: SU / HMI Team
Collected date/time: 03/22/23 09:35
Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2029498	1	03/25/23 08:16	03/25/23 10:40	AS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029184	1	03/28/23 15:23	03/28/23 15:23	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029230	1	03/24/23 12:38	03/27/23 23:54	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029247	1	03/24/23 12:49	03/27/23 13:20	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2030301	1	03/26/23 12:50	03/26/23 12:50	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030834	1	03/27/23 18:08	03/27/23 18:08	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031712	1	03/29/23 08:10	03/31/23 17:23	MWS	Mt. Juliet, TN

TRIP BLANK-EP-01 L1597529-11 GW

Collected by: SU / HMI Team
Collected date/time: 03/22/23 00:00
Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030397	1	03/27/23 01:12	03/27/23 01:12	JHH	Mt. Juliet, TN

MW-76 L1597529-12 GW

Collected by: SU / HMI Team
Collected date/time: 03/22/23 14:05
Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2029498	1	03/25/23 08:16	03/25/23 10:40	AS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2031959	20	03/29/23 13:40	03/29/23 13:40	LBR	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029230	1	03/24/23 12:38	03/27/23 23:57	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029247	1	03/24/23 12:49	03/27/23 13:37	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2030301	20	03/26/23 15:03	03/26/23 15:03	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030397	1	03/27/23 07:04	03/27/23 07:04	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031712	5	03/29/23 08:10	03/31/23 18:05	MWS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod	WG2030234	1	03/28/23 06:41	03/29/23 17:45	AED	Mt. Juliet, TN

MW-77 L1597529-13 GW

Collected by: SU / HMI Team
Collected date/time: 03/22/23 13:35
Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2029498	1	03/25/23 08:16	03/25/23 10:40	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2031959	10	03/29/23 14:06	03/29/23 14:06	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2031959	100	03/29/23 16:15	03/29/23 16:15	LBR	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029230	1	03/24/23 12:38	03/28/23 10:28	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029247	1	03/24/23 12:49	03/27/23 14:43	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2030301	25	03/26/23 15:25	03/26/23 15:25	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030834	10	03/27/23 18:30	03/27/23 18:30	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031808	20	03/29/23 17:18	03/31/23 01:31	MAA	Mt. Juliet, TN

MW-78 L1597529-14 GW

Collected by: SU / HMI Team
Collected date/time: 03/22/23 13:05
Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2029498	1	03/25/23 08:16	03/25/23 10:40	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029193	10	03/24/23 17:25	03/24/23 17:25	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029230	1	03/24/23 12:38	03/28/23 10:31	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029247	1	03/24/23 12:49	03/27/23 14:46	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2030301	20	03/26/23 15:48	03/26/23 15:48	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030834	10	03/27/23 18:51	03/27/23 18:51	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031808	20	03/29/23 17:18	03/31/23 01:53	MAA	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod	WG2030234	1	03/28/23 06:41	03/29/23 18:05	AED	Mt. Juliet, TN

MW-75 L1597529-15 GW

Collected by: SU / HMI Team
Collected date/time: 03/22/23 13:40
Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2029498	1	03/25/23 08:16	03/25/23 10:40	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2031959	20	03/29/23 16:28	03/29/23 16:28	LBR	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029230	1	03/24/23 12:38	03/28/23 00:07	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029247	1	03/24/23 12:49	03/27/23 13:56	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029247	5	03/24/23 12:49	03/27/23 15:16	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2030301	20	03/26/23 16:10	03/26/23 16:10	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030397	1	03/27/23 07:27	03/27/23 07:27	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031808	2	03/29/23 17:18	03/31/23 01:09	MAA	Mt. Juliet, TN

MW-83 L1597529-16 GW

Collected by: SU / HMI Team
Collected date/time: 03/22/23 13:25
Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2031850	1	03/29/23 08:13	03/29/23 11:30	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2031959	10	03/29/23 16:53	03/29/23 16:53	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2031959	100	03/29/23 17:06	03/29/23 17:06	LBR	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029230	1	03/24/23 12:38	03/28/23 10:35	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029247	1	03/24/23 12:49	03/27/23 14:50	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2030301	20	03/26/23 16:31	03/26/23 16:31	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030397	1	03/27/23 07:51	03/27/23 07:51	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031808	10	03/29/23 17:18	04/01/23 08:35	MAA	Mt. Juliet, TN

MW-3 L1597529-17 GW

Collected by: SU / HMI Team
Collected date/time: 03/22/23 12:35
Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2029498	1	03/25/23 08:16	03/25/23 10:40	AS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029193	20	03/24/23 17:50	03/24/23 17:50	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029230	1	03/24/23 12:38	03/28/23 00:20	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029230	5	03/24/23 12:38	03/28/23 10:38	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029247	1	03/24/23 12:49	03/27/23 14:03	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029247	5	03/24/23 12:49	03/27/23 15:20	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2030301	20	03/26/23 16:53	03/26/23 16:53	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030397	1	03/27/23 08:14	03/27/23 08:14	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031808	1	03/29/23 17:18	03/30/23 19:12	MAA	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod	WG2030234	1	03/28/23 06:41	03/29/23 15:31	AED	Mt. Juliet, TN

MW-88 L1597529-18 GW

Collected by: SU / HMI Team
Collected date/time: 03/22/23 11:15
Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2029498	1	03/25/23 08:16	03/25/23 10:40	AS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029428	10	03/24/23 11:16	03/24/23 11:16	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029428	100	03/24/23 21:14	03/24/23 21:14	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029230	1	03/24/23 12:38	03/28/23 00:23	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029247	1	03/24/23 12:49	03/27/23 14:06	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029247	5	03/24/23 12:49	03/27/23 15:40	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2030301	1	03/26/23 13:12	03/26/23 13:12	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030397	1	03/27/23 08:38	03/27/23 08:38	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031808	1	03/29/23 17:18	04/01/23 03:22	MAA	Mt. Juliet, TN

MW-22A L1597529-19 GW

Collected by: SU / HMI Team
Collected date/time: 03/22/23 10:25
Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2029498	1	03/25/23 08:16	03/25/23 10:40	AS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029188	10	03/29/23 00:05	03/29/23 00:05	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029188	100	03/29/23 00:52	03/29/23 00:52	LBR	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029230	1	03/24/23 12:38	03/28/23 00:27	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029247	1	03/24/23 12:49	03/27/23 14:09	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029247	10	03/24/23 12:49	03/27/23 15:43	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2030301	20	03/26/23 17:16	03/26/23 17:16	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030397	1	03/27/23 09:01	03/27/23 09:01	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031808	1	03/29/23 17:18	03/30/23 19:57	MAA	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod	WG2030234	1	03/28/23 06:41	03/29/23 15:50	AED	Mt. Juliet, TN

MW-22B L1597529-20 GW

Collected by: SU / HMI Team
Collected date/time: 03/22/23 09:45
Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2030624	1	03/27/23 17:40	03/27/23 23:53	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029184	10	03/28/23 16:44	03/28/23 16:44	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029184	100	03/28/23 16:57	03/28/23 16:57	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029230	1	03/24/23 12:38	03/28/23 00:30	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029247	1	03/24/23 12:49	03/27/23 14:13	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029247	5	03/24/23 12:49	03/27/23 15:47	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2030301	20	03/26/23 17:38	03/26/23 17:38	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030834	1	03/27/23 19:13	03/27/23 19:13	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031808	1	03/29/23 17:18	03/30/23 20:19	MAA	Mt. Juliet, TN

MW-10 L1597529-21 GW

Collected by: SU / HMI Team
Collected date/time: 03/22/23 09:05
Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2030624	1	03/27/23 17:40	03/27/23 23:53	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029184	10	03/28/23 17:10	03/28/23 17:10	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029230	1	03/24/23 12:38	03/28/23 00:33	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029247	1	03/24/23 12:49	03/27/23 14:16	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029247	5	03/24/23 12:49	03/27/23 15:50	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2030301	20	03/26/23 18:00	03/26/23 18:00	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030834	1	03/27/23 19:34	03/27/23 19:34	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031808	1	03/29/23 17:18	04/01/23 03:44	MAA	Mt. Juliet, TN

MW-123 L1597529-22 GW

Collected by: SU / HMI Team
Collected date/time: 03/22/23 08:25
Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2029580	1	03/25/23 05:29	03/25/23 07:21	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029007	10	03/24/23 01:42	03/24/23 01:42	LBR	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029231	1	03/25/23 07:13	03/26/23 21:11	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029247	1	03/24/23 12:49	03/27/23 14:20	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029247	5	03/24/23 12:49	03/27/23 15:54	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2030301	1	03/26/23 13:34	03/26/23 13:34	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030834	1	03/27/23 19:56	03/27/23 19:56	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031808	1	03/29/23 17:18	03/30/23 21:03	MAA	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod	WG2030234	1	03/28/23 06:41	03/29/23 16:09	AED	Mt. Juliet, TN

MW-4A L1597529-23 GW

Collected by: SU / HMI Team
Collected date/time: 03/22/23 11:55
Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2029580	1	03/25/23 05:29	03/25/23 07:21	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2032143	10	03/29/23 23:57	03/29/23 23:57	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029231	1	03/25/23 07:13	03/26/23 21:24	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029247	1	03/24/23 12:49	03/27/23 14:23	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2030301	20	03/26/23 18:22	03/26/23 18:22	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030834	1	03/27/23 20:17	03/27/23 20:17	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031808	1	03/29/23 17:18	03/30/23 21:26	MAA	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod	WG2030234	1	03/28/23 06:41	03/29/23 16:28	AED	Mt. Juliet, TN

DUP-EP-02 L1597529-24 GW

Collected by: SU / HMI Team
Collected date/time: 03/22/23 12:00
Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2029580	1	03/25/23 05:29	03/25/23 07:21	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029193	10	03/24/23 18:42	03/24/23 18:42	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029193	100	03/24/23 18:54	03/24/23 18:54	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029231	1	03/25/23 07:13	03/26/23 21:27	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029231	5	03/25/23 07:13	03/26/23 23:01	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029247	1	03/24/23 12:49	03/27/23 14:27	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029247	10	03/24/23 12:49	03/27/23 15:57	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2030301	20	03/26/23 18:44	03/26/23 18:44	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030834	1	03/27/23 20:39	03/27/23 20:39	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031808	1	03/29/23 17:18	04/01/23 04:07	MAA	Mt. Juliet, TN

DUP-EP-03 L1597529-25 GW

Collected by: SU / HMI Team
Collected date/time: 03/22/23 14:00
Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2029580	1	03/25/23 05:29	03/25/23 07:21	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029199	10	03/30/23 01:42	03/30/23 01:42	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029199	100	03/30/23 01:58	03/30/23 01:58	LBR	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029231	1	03/25/23 07:13	03/26/23 21:31	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029247	1	03/24/23 12:49	03/27/23 14:56	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029247	5	03/24/23 12:49	03/27/23 16:00	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2030301	20	03/26/23 19:06	03/26/23 19:06	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030834	1	03/27/23 21:01	03/27/23 21:01	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031808	1	03/29/23 17:18	03/30/23 22:10	MAA	Mt. Juliet, TN

KWB-P4 L1597529-27 GW

Collected by: SU / HMI Team | Collected date/time: 03/22/23 08:00 | Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030834	1	03/27/23 21:22	03/27/23 21:22	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031808	1	03/29/23 17:18	04/01/23 02:37	MAA	Mt. Juliet, TN

OCD-1R L1597529-28 GW

Collected by: SU / HMI Team | Collected date/time: 03/22/23 12:50 | Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2029580	1	03/25/23 05:29	03/25/23 07:21	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029193	10	03/24/23 19:07	03/24/23 19:07	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029193	100	03/24/23 19:20	03/24/23 19:20	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029231	1	03/25/23 07:13	03/26/23 21:34	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029247	1	03/24/23 12:49	03/27/23 14:59	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029247	5	03/24/23 12:49	03/27/23 16:03	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2030301	1	03/26/23 13:57	03/26/23 13:57	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030834	1	03/27/23 21:44	03/27/23 21:44	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031808	1	03/29/23 17:18	03/30/23 22:55	MAA	Mt. Juliet, TN

OCD-2A L1597529-29 GW

Collected by: SU / HMI Team | Collected date/time: 03/22/23 12:05 | Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2029580	1	03/25/23 05:29	03/25/23 07:21	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029193	10	03/24/23 12:04	03/24/23 12:04	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029193	100	03/24/23 13:47	03/24/23 13:47	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029231	1	03/25/23 07:13	03/26/23 21:45	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029247	1	03/24/23 12:49	03/27/23 15:02	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029247	5	03/24/23 12:49	03/27/23 16:07	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2030301	1	03/26/23 14:19	03/26/23 14:19	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030849	1	03/27/23 16:24	03/27/23 16:24	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031808	1	03/29/23 17:18	03/30/23 23:17	MAA	Mt. Juliet, TN

OCD-3 L1597529-30 GW

Collected by: SU / HMI Team | Collected date/time: 03/22/23 10:10 | Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2029580	1	03/25/23 05:29	03/25/23 07:21	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029188	10	03/29/23 01:08	03/29/23 01:08	LBR	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029231	1	03/25/23 07:13	03/26/23 21:48	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029247	1	03/24/23 12:49	03/27/23 15:06	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2030302	1	03/26/23 13:02	03/26/23 13:02	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030849	1	03/27/23 16:44	03/27/23 16:44	AV	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031808	1	03/29/23 17:18	03/30/23 23:39	MAA	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod	WG2030234	1	03/28/23 06:41	03/29/23 16:48	AED	Mt. Juliet, TN

OCD-4 L1597529-31 GW

Collected by: SU / HMI Team | Collected date/time: 03/22/23 09:30 | Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2029580	1	03/25/23 05:29	03/25/23 07:21	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029184	50	03/28/23 17:37	03/28/23 17:37	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029231	1	03/25/23 07:13	03/26/23 21:51	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029247	1	03/24/23 12:49	03/27/23 15:09	SJM	Mt. Juliet, TN

OCD-4 L1597529-31 GW

Collected by: SU / HMI Team
Collected date/time: 03/22/23 09:30
Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICPMS) by Method 6020	WG2029247	5	03/24/23 12:49	03/27/23 16:10	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2030302	1	03/26/23 13:24	03/26/23 13:24	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030849	1	03/27/23 17:04	03/27/23 17:04	AV	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031808	1	03/29/23 17:18	03/31/23 00:01	MAA	Mt. Juliet, TN

MW-11A L1597529-32 GW

Collected by: SU / HMI Team
Collected date/time: 03/22/23 10:50
Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2029580	1	03/25/23 05:29	03/25/23 07:21	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029188	10	03/29/23 01:40	03/29/23 01:40	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029188	100	03/29/23 01:56	03/29/23 01:56	LBR	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029231	1	03/25/23 07:13	03/26/23 21:54	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029231	5	03/25/23 07:13	03/26/23 23:05	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029248	10	03/24/23 14:08	03/28/23 14:47	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2030302	1	03/26/23 13:46	03/26/23 13:46	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030849	1	03/27/23 17:24	03/27/23 17:24	AV	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031808	1	03/29/23 17:18	03/31/23 00:24	MAA	Mt. Juliet, TN

MW-11B L1597529-33 GW

Collected by: SU / HMI Team
Collected date/time: 03/22/23 11:25
Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2029580	1	03/25/23 05:29	03/25/23 07:21	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029428	10	03/24/23 22:21	03/24/23 22:21	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029428	100	03/24/23 21:01	03/24/23 21:01	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029231	1	03/25/23 07:13	03/26/23 21:58	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029248	10	03/24/23 14:08	03/28/23 15:00	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2030302	1	03/26/23 14:08	03/26/23 14:08	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030849	1	03/27/23 17:44	03/27/23 17:44	AV	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031808	1	03/29/23 17:18	03/31/23 00:46	MAA	Mt. Juliet, TN

OCD-5 L1597529-34 GW

Collected by: SU / HMI Team
Collected date/time: 03/22/23 08:50
Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2029580	1	03/25/23 05:29	03/25/23 07:21	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029184	50	03/28/23 18:04	03/28/23 18:04	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029231	1	03/25/23 07:13	03/26/23 22:01	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029248	10	03/24/23 14:08	03/28/23 15:03	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2030302	20	03/26/23 18:31	03/26/23 18:31	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030849	1	03/27/23 18:04	03/27/23 18:04	AV	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031810	1	03/29/23 17:36	03/30/23 18:14	HLJ	Mt. Juliet, TN

MW-52 L1597529-35 GW

Collected by: SU / HMI Team
Collected date/time: 03/22/23 11:15
Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2029580	1	03/25/23 05:29	03/25/23 07:21	MMF	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG2028782	5	03/26/23 19:50	03/27/23 11:11	UNP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029188	1	03/29/23 02:12	03/29/23 02:12	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029188	10	03/29/23 02:28	03/29/23 02:28	LBR	Mt. Juliet, TN

MW-52 L1597529-35 GW

Collected by: SU / HMI Team | Collected date/time: 03/22/23 11:15 | Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Mercury by Method 7470A	WG2029442	1	03/26/23 17:11	03/27/23 08:17	SRT	Mt. Juliet, TN
Mercury by Method 7470A	WG2030410	1	03/27/23 16:13	03/28/23 10:43	SRT	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2029226	1	03/25/23 07:11	03/27/23 18:24	SPL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2029237	1	03/27/23 08:39	03/28/23 12:17	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029231	1	03/25/23 07:13	03/26/23 22:04	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029248	1	03/24/23 14:08	03/28/23 00:51	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2030302	1	03/26/23 14:30	03/26/23 14:30	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030849	1	03/27/23 18:25	03/27/23 18:25	AV	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031810	1	03/29/23 17:36	04/01/23 19:03	NH	Mt. Juliet, TN

MW-109 L1597529-36 GW

Collected by: SU / HMI Team | Collected date/time: 03/22/23 12:20 | Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2029580	1	03/25/23 05:29	03/25/23 07:21	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2032143	10	03/30/23 00:47	03/30/23 00:47	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029231	1	03/25/23 07:13	03/26/23 22:07	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029248	1	03/24/23 14:08	03/28/23 00:54	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2032009	10	03/29/23 15:01	03/29/23 15:01	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2033423	50	03/31/23 14:31	03/31/23 14:31	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031810	1	03/29/23 17:36	03/30/23 18:55	HLJ	Mt. Juliet, TN

MW-110 L1597529-37 GW

Collected by: SU / HMI Team | Collected date/time: 03/22/23 12:00 | Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2029580	1	03/25/23 05:29	03/25/23 07:21	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029193	1	03/24/23 21:41	03/24/23 21:41	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029193	5	03/24/23 21:54	03/24/23 21:54	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029231	1	03/25/23 07:13	03/26/23 22:11	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029248	1	03/24/23 14:08	03/28/23 01:04	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2030302	1	03/26/23 14:52	03/26/23 14:52	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030849	1	03/27/23 18:45	03/27/23 18:45	AV	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031810	1	03/29/23 17:36	04/01/23 19:25	NH	Mt. Juliet, TN

TRIP BLANK-EP-03 L1597529-38 GW

Collected by: SU / HMI Team | Collected date/time: 03/22/23 00:00 | Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030849	1	03/27/23 16:04	03/27/23 16:04	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030950	1	03/27/23 23:01	03/27/23 23:01	JAH	Mt. Juliet, TN

MW-144 L1597529-43 GW

Collected by: SU / HMI Team | Collected date/time: 03/22/23 08:15 | Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2029580	1	03/25/23 05:29	03/25/23 07:21	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029007	10	03/24/23 01:10	03/24/23 01:10	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029007	100	03/24/23 06:13	03/24/23 06:13	LBR	Mt. Juliet, TN
Mercury by Method 7470A	WG2030401	1	03/28/23 17:37	03/29/23 09:34	SRT	Mt. Juliet, TN
Mercury by Method 7470A	WG2030839	1	03/28/23 17:22	03/29/23 09:15	SRT	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2030563	1	03/27/23 15:03	03/28/23 09:46	ZSA	Mt. Juliet, TN

MW-144 L1597529-43 GW

Collected by: SU / HMI Team
Collected date/time: 03/22/23 08:15
Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG2030611	1	03/27/23 16:32	03/27/23 22:09	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029231	1	03/25/23 07:13	03/26/23 22:14	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029248	1	03/24/23 14:08	03/28/23 01:07	JPD	Mt. Juliet, TN

MW-113 L1597529-44 GW

Collected by: SU / HMI Team
Collected date/time: 03/22/23 09:25
Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2029580	1	03/25/23 05:29	03/25/23 07:21	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029184	1	03/28/23 18:31	03/28/23 18:31	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029184	10	03/28/23 19:11	03/28/23 19:11	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029231	1	03/25/23 07:13	03/26/23 22:42	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029248	1	03/24/23 14:08	03/28/23 01:11	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2030302	1	03/26/23 15:15	03/26/23 15:15	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030849	1	03/27/23 19:04	03/27/23 19:04	AV	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031810	1	03/29/23 17:36	03/30/23 19:36	HLJ	Mt. Juliet, TN

RW-13R L1597529-45 GW

Collected by: SU / HMI Team
Collected date/time: 03/22/23 11:50
Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2029580	1	03/25/23 05:29	03/25/23 07:21	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029193	1	03/24/23 16:08	03/24/23 16:08	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029193	5	03/24/23 16:21	03/24/23 16:21	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029231	1	03/25/23 07:13	03/26/23 22:45	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029248	1	03/24/23 14:08	03/28/23 01:14	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030849	50	03/27/23 22:03	03/27/23 22:03	AV	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG2031055	1.02	03/28/23 09:16	03/28/23 18:59	LTB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031810	1	03/29/23 17:36	03/30/23 19:56	HLJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod	WG2030234	1	03/28/23 06:41	03/29/23 12:18	AED	Mt. Juliet, TN

MW-134 L1597529-46 GW

Collected by: SU / HMI Team
Collected date/time: 03/22/23 08:30
Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2029580	1	03/25/23 05:29	03/25/23 07:21	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029007	10	03/24/23 02:13	03/24/23 02:13	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029007	100	03/24/23 06:28	03/24/23 06:28	LBR	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029231	1	03/25/23 07:13	03/26/23 22:48	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029248	1	03/24/23 14:08	03/28/23 01:17	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2030302	1	03/26/23 15:36	03/26/23 15:36	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030849	1	03/27/23 19:24	03/27/23 19:24	AV	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031810	1	03/29/23 17:36	04/01/23 18:19	NH	Mt. Juliet, TN

RA-4196 L1597529-47 GW

Collected by: SU / HMI Team
Collected date/time: 03/22/23 10:55
Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2029580	1	03/25/23 05:29	03/25/23 07:21	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029188	10	03/29/23 02:44	03/29/23 02:44	LBR	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029248	1	03/24/23 14:08	03/28/23 01:20	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030849	1	03/27/23 19:44	03/27/23 19:44	AV	Mt. Juliet, TN

RA-313 L1597529-48 GW

Collected by: SU / HMI Team
Collected date/time: 03/22/23 14:20
Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2029580	1	03/25/23 05:29	03/25/23 07:21	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029199	10	03/30/23 02:14	03/30/23 02:14	LBR	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029248	1	03/24/23 14:08	03/28/23 01:24	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030849	1	03/27/23 20:04	03/27/23 20:04	AV	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod	WG2029185	1	03/24/23 06:12	03/24/23 18:07	DSH	Mt. Juliet, TN

KWB-7 L1597529-49 GW

Collected by: SU / HMI Team
Collected date/time: 03/22/23 09:00
Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2029581	1	03/25/23 05:27	03/25/23 07:54	MMF	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG2028782	5	03/26/23 19:50	03/27/23 11:13	UNP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029184	1	03/28/23 19:25	03/28/23 19:25	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029184	10	03/28/23 19:38	03/28/23 19:38	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2029442	1	03/26/23 17:11	03/27/23 08:19	SRT	Mt. Juliet, TN
Mercury by Method 7470A	WG2030410	1	03/27/23 16:13	03/28/23 10:45	SRT	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2029226	1	03/25/23 07:11	03/27/23 18:27	SPL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2029237	1	03/27/23 08:39	03/28/23 12:20	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029231	1	03/25/23 07:13	03/26/23 22:52	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029248	1	03/24/23 14:08	03/28/23 01:27	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030849	50	03/27/23 22:23	03/27/23 22:23	AV	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031810	1	03/29/23 17:36	03/30/23 20:37	HLJ	Mt. Juliet, TN

MW-20 L1597529-50 GW

Collected by: SU / HMI Team
Collected date/time: 03/22/23 10:25
Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2029581	1	03/25/23 05:27	03/25/23 07:54	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029188	10	03/29/23 03:16	03/29/23 03:16	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029188	100	03/29/23 04:03	03/29/23 04:03	LBR	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029231	1	03/25/23 07:13	03/26/23 22:55	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029248	1	03/24/23 14:08	03/28/23 01:30	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030849	1	03/27/23 20:24	03/27/23 20:24	AV	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031810	1	03/29/23 17:36	04/01/23 17:36	NH	Mt. Juliet, TN

NP-1 L1597529-51 GW

Collected by: SU / HMI Team
Collected date/time: 03/22/23 12:50
Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2029581	1	03/25/23 05:27	03/25/23 07:54	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029193	10	03/24/23 19:33	03/24/23 19:33	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029248	1	03/24/23 14:08	03/28/23 01:33	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030849	1	03/27/23 20:44	03/27/23 20:44	AV	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2033423	20	03/31/23 14:53	03/31/23 14:53	ACG	Mt. Juliet, TN

NP-6 L1597529-52 GW

Collected by: SU / HMI Team
Collected date/time: 03/22/23 13:35
Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030849	1	03/27/23 21:04	03/27/23 21:04	AV	Mt. Juliet, TN

MW-8 L1597529-53 GW

Collected by: SU / HMI Team
Collected date/time: 03/22/23 11:05
Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2029581	1	03/25/23 05:27	03/25/23 07:54	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029188	10	03/29/23 04:19	03/29/23 04:19	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029188	100	03/29/23 04:35	03/29/23 04:35	LBR	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029232	1	03/25/23 09:49	03/27/23 20:57	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029248	1	03/24/23 14:08	03/28/23 01:43	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2030302	1	03/26/23 15:58	03/26/23 15:58	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2030849	1	03/27/23 21:23	03/27/23 21:23	AV	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031810	1	03/29/23 17:36	03/30/23 21:18	HLJ	Mt. Juliet, TN

MW-21 L1597529-54 GW

Collected by: SU / HMI Team
Collected date/time: 03/22/23 11:55
Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2029581	1	03/25/23 05:27	03/25/23 07:54	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029193	10	03/24/23 16:59	03/24/23 16:59	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029193	100	03/24/23 17:12	03/24/23 17:12	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029232	1	03/25/23 09:49	03/27/23 21:10	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029248	1	03/24/23 14:08	03/28/23 01:46	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2030302	1	03/26/23 16:20	03/26/23 16:20	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2031003	1	03/28/23 00:57	03/28/23 00:57	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031810	1	03/29/23 17:36	03/30/23 21:38	HLJ	Mt. Juliet, TN

MW-71 L1597529-55 GW

Collected by: SU / HMI Team
Collected date/time: 03/22/23 09:55
Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2029581	1	03/25/23 05:27	03/25/23 07:54	MMF	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG2028782	5	03/26/23 19:50	03/27/23 11:14	UNP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029184	10	03/28/23 19:51	03/28/23 19:51	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029184	100	03/28/23 20:05	03/28/23 20:05	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2029442	1	03/26/23 17:11	03/27/23 08:21	SRT	Mt. Juliet, TN
Mercury by Method 7470A	WG2030410	1	03/27/23 16:13	03/28/23 10:48	SRT	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2029228	1	03/26/23 09:01	03/28/23 21:06	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2029237	1	03/27/23 08:39	03/28/23 12:24	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029232	1	03/25/23 09:49	03/27/23 21:13	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029248	1	03/24/23 14:08	03/28/23 01:50	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2031003	1	03/28/23 01:19	03/28/23 01:19	JAH	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG2031055	1.08	03/28/23 09:16	03/28/23 19:11	LTB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031810	1	03/29/23 17:36	03/30/23 21:58	HLJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod	WG2030234	1	03/28/23 06:41	03/29/23 12:37	AED	Mt. Juliet, TN

KWB-11B L1597529-56 GW

Collected by: SU / HMI Team
Collected date/time: 03/22/23 08:20
Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2029581	1	03/25/23 05:27	03/25/23 07:54	MMF	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG2028782	1	03/26/23 19:50	03/27/23 11:16	UNP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029007	10	03/24/23 01:26	03/24/23 01:26	LBR	Mt. Juliet, TN
Mercury by Method 7470A	WG2030401	1	03/28/23 17:37	03/29/23 09:36	SRT	Mt. Juliet, TN
Mercury by Method 7470A	WG2030410	1	03/27/23 16:13	03/28/23 10:50	SRT	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2029228	1	03/26/23 09:01	03/28/23 21:15	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2029239	1	03/24/23 13:47	03/24/23 17:10	KMG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029232	1	03/25/23 09:49	03/27/23 21:16	LD	Mt. Juliet, TN

KWB-11B L1597529-56 GW

Collected by: SU / HMI Team | Collected date/time: 03/22/23 08:20 | Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICPMS) by Method 6020	WG2029758	1	03/27/23 12:11	03/27/23 17:20	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029758	1	03/27/23 12:11	03/27/23 19:23	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2030302	1	03/26/23 16:42	03/26/23 16:42	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2031003	1	03/28/23 01:40	03/28/23 01:40	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031810	1	03/29/23 17:36	03/30/23 22:19	HLJ	Mt. Juliet, TN

MW-115 L1597529-57 GW

Collected by: SU / HMI Team | Collected date/time: 03/22/23 14:00 | Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2029581	1	03/25/23 05:27	03/25/23 07:54	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029199	10	03/30/23 02:46	03/30/23 02:46	LBR	Mt. Juliet, TN
Mercury by Method 7470A	WG2031774	1	03/29/23 09:36	03/30/23 09:20	SRT	Mt. Juliet, TN
Mercury by Method 7470A	WG2031777	1	03/29/23 10:23	03/30/23 11:16	SRT	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2031766	1	03/29/23 06:50	03/29/23 15:20	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2031813	1	03/29/23 11:45	03/29/23 16:51	SPL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029232	1	03/25/23 09:49	03/27/23 21:19	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029248	1	03/24/23 14:08	03/28/23 01:53	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2030302	20	03/26/23 19:15	03/26/23 19:15	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2031003	1	03/28/23 02:02	03/28/23 02:02	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031810	1	03/29/23 17:36	03/30/23 22:39	HLJ	Mt. Juliet, TN

MW-114 L1597529-58 GW

Collected by: SU / HMI Team | Collected date/time: 03/22/23 13:40 | Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2029581	1	03/25/23 05:27	03/25/23 07:54	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029199	10	03/30/23 03:18	03/30/23 03:18	LBR	Mt. Juliet, TN
Mercury by Method 7470A	WG2031774	1	03/29/23 09:36	03/30/23 09:22	SRT	Mt. Juliet, TN
Mercury by Method 7470A	WG2031777	1	03/29/23 10:23	03/30/23 11:18	SRT	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2031766	1	03/29/23 06:50	03/29/23 15:32	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2031813	1	03/29/23 11:45	03/29/23 17:02	SPL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029232	1	03/25/23 09:49	03/27/23 21:31	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029249	1	03/24/23 15:35	03/26/23 20:58	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2030302	1	03/26/23 17:04	03/26/23 17:04	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2031003	1	03/28/23 02:24	03/28/23 02:24	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031810	1	03/29/23 17:36	04/01/23 18:41	NH	Mt. Juliet, TN

MW-125 L1597529-59 GW

Collected by: SU / HMI Team | Collected date/time: 03/22/23 13:15 | Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2029581	1	03/25/23 05:27	03/25/23 07:54	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029193	10	03/24/23 13:21	03/24/23 13:21	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029193	100	03/24/23 15:55	03/24/23 15:55	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2031774	1	03/29/23 09:36	03/30/23 09:24	SRT	Mt. Juliet, TN
Mercury by Method 7470A	WG2031777	1	03/29/23 10:23	03/30/23 11:20	SRT	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2031766	1	03/29/23 06:50	03/29/23 15:35	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2031813	1	03/29/23 11:45	03/29/23 17:04	SPL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029232	1	03/25/23 09:49	03/27/23 21:34	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029249	1	03/24/23 15:35	03/26/23 20:44	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2030302	1	03/26/23 17:26	03/26/23 17:26	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2031003	1	03/28/23 02:45	03/28/23 02:45	JAH	Mt. Juliet, TN

MW-125 L1597529-59 GW

Collected by: SU / HMI Team
Collected date/time: 03/22/23 13:15
Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031810	1	03/29/23 17:36	04/01/23 17:57	NH	Mt. Juliet, TN

DUP-REST-01 L1597529-60 GW

Collected by: SU / HMI Team
Collected date/time: 03/22/23 12:00
Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2029581	1	03/25/23 05:27	03/25/23 07:54	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029193	10	03/24/23 19:59	03/24/23 19:59	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029232	1	03/25/23 09:49	03/27/23 21:37	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029249	1	03/24/23 15:35	03/26/23 21:01	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2030302	1	03/26/23 17:48	03/26/23 17:48	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2031003	1	03/28/23 03:07	03/28/23 03:07	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031810	1	03/29/23 17:36	03/30/23 23:40	HLJ	Mt. Juliet, TN

EB-REST-01 L1597529-61 GW

Collected by: SU / HMI Team
Collected date/time: 03/22/23 09:40
Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2029581	1	03/25/23 05:27	03/25/23 07:54	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029184	1	03/28/23 20:18	03/28/23 20:18	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029232	1	03/25/23 09:49	03/27/23 22:39	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029249	1	03/24/23 15:35	03/26/23 21:04	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2030302	1	03/26/23 12:18	03/26/23 12:18	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2031003	1	03/27/23 23:52	03/27/23 23:52	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031810	1	03/29/23 17:36	03/31/23 00:00	HLJ	Mt. Juliet, TN

DUP-REST-03 L1597529-62 GW

Collected by: SU / HMI Team
Collected date/time: 03/22/23 08:00
Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2029581	1	03/25/23 05:27	03/25/23 07:54	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029007	10	03/24/23 00:54	03/24/23 00:54	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029007	100	03/24/23 07:00	03/24/23 07:00	LBR	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029232	1	03/25/23 09:49	03/27/23 21:44	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029249	1	03/24/23 15:35	03/26/23 21:07	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2030302	1	03/26/23 18:10	03/26/23 18:10	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2031003	1	03/28/23 03:29	03/28/23 03:29	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2031560	1	03/28/23 21:10	03/28/23 21:10	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031810	1	03/29/23 17:36	03/31/23 00:21	HLJ	Mt. Juliet, TN

EB-REST-03 L1597529-63 GW

Collected by: SU / HMI Team
Collected date/time: 03/22/23 08:45
Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2029581	1	03/25/23 05:27	03/25/23 07:54	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029184	1	03/28/23 20:32	03/28/23 20:32	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029232	1	03/25/23 09:49	03/27/23 22:42	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029249	1	03/24/23 15:35	03/26/23 21:20	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2030302	1	03/26/23 12:40	03/26/23 12:40	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2031003	1	03/28/23 00:14	03/28/23 00:14	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031810	1	03/29/23 17:36	03/31/23 00:41	HLJ	Mt. Juliet, TN

TRIP BLANK-REST-01 L1597529-64 GW

Collected by: SU / HMI Team | Collected date/time: 03/22/23 00:00 | Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2031003	1	03/27/23 22:47	03/27/23 22:47	JAH	Mt. Juliet, TN

TRIP BLANK-TMD-01 L1597529-65 GW

Collected by: SU / HMI Team | Collected date/time: 03/22/23 00:00 | Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2031003	1	03/27/23 23:09	03/27/23 23:09	JAH	Mt. Juliet, TN

MW-102 L1597529-66 GW

Collected by: SU / HMI Team | Collected date/time: 03/22/23 09:05 | Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2029581	1	03/25/23 05:27	03/25/23 07:54	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029184	10	03/28/23 20:45	03/28/23 20:45	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029232	1	03/25/23 09:49	03/27/23 21:50	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029249	1	03/24/23 15:35	03/26/23 21:23	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2030303	200	03/26/23 16:08	03/26/23 16:08	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2031003	200	03/28/23 04:34	03/28/23 04:34	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031811	1	03/29/23 22:08	03/31/23 04:39	MAA	Mt. Juliet, TN

MW-116 L1597529-67 GW

Collected by: SU / HMI Team | Collected date/time: 03/22/23 12:35 | Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2029581	1	03/25/23 05:27	03/25/23 07:54	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029193	10	03/24/23 20:24	03/24/23 20:24	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029193	100	03/24/23 21:03	03/24/23 21:03	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2031774	1	03/29/23 09:36	03/30/23 09:14	SRT	Mt. Juliet, TN
Mercury by Method 7470A	WG2031777	1	03/29/23 10:23	03/30/23 11:22	SRT	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2031766	1	03/29/23 06:50	03/29/23 15:38	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2031813	1	03/29/23 11:45	03/29/23 17:07	SPL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029232	1	03/25/23 09:49	03/27/23 21:54	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029249	1	03/24/23 15:35	03/26/23 21:26	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2030303	1	03/26/23 13:12	03/26/23 13:12	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2031003	1	03/28/23 03:51	03/28/23 03:51	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031811	1	03/29/23 22:08	04/01/23 02:15	MAA	Mt. Juliet, TN

MW-46R L1597529-68 GW

Collected by: SU / HMI Team | Collected date/time: 03/22/23 11:35 | Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2029581	1	03/25/23 05:27	03/25/23 07:54	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029193	10	03/24/23 11:25	03/24/23 11:25	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029232	1	03/25/23 09:49	03/27/23 21:57	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029249	1	03/24/23 15:35	03/26/23 21:30	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2031003	1	03/28/23 04:12	03/28/23 04:12	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031811	1	03/29/23 22:08	03/31/23 05:23	MAA	Mt. Juliet, TN

DUP-REST-02 L1597529-69 GW

Collected by: SU / HMI Team | Collected date/time: 03/22/23 10:00 | Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2029581	1	03/25/23 05:27	03/25/23 07:54	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029188	10	03/29/23 04:51	03/29/23 04:51	LBR	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029232	1	03/25/23 09:49	03/27/23 22:00	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029249	1	03/24/23 15:35	03/26/23 21:33	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2031448	25	03/29/23 07:36	03/29/23 07:36	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2031003	100	03/28/23 04:56	03/28/23 04:56	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031811	1	03/29/23 22:08	03/31/23 05:46	MAA	Mt. Juliet, TN

EB-REST-02 L1597529-70 GW

Collected by: SU / HMI Team | Collected date/time: 03/22/23 09:20 | Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2029581	1	03/25/23 05:27	03/25/23 07:54	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029184	1	03/28/23 21:12	03/28/23 21:12	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029232	1	03/25/23 09:49	03/27/23 22:12	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029249	1	03/24/23 15:35	03/26/23 21:36	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029249	1	03/24/23 15:35	03/27/23 10:08	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2030303	1	03/26/23 12:49	03/26/23 12:49	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2031003	1	03/28/23 00:35	03/28/23 00:35	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031811	1	03/29/23 22:08	04/01/23 01:30	MAA	Mt. Juliet, TN

TRIP BLANK-REST-03 L1597529-71 GW

Collected by: SU / HMI Team | Collected date/time: 03/22/23 00:00 | Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2031003	1	03/27/23 23:30	03/27/23 23:30	JAH	Mt. Juliet, TN

TEL-4 L1597529-72 GW

Collected by: SU / HMI Team | Collected date/time: 03/22/23 10:15 | Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2029581	1	03/25/23 05:27	03/25/23 07:54	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029188	10	03/29/23 05:23	03/29/23 05:23	LBR	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029232	1	03/25/23 09:49	03/27/23 22:16	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029249	1	03/24/23 15:35	03/26/23 21:40	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029249	1	03/24/23 15:35	03/27/23 10:11	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2030303	20	03/26/23 16:29	03/26/23 16:29	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2031003	20	03/28/23 05:17	03/28/23 05:17	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031811	1	03/29/23 22:08	03/31/23 06:30	MAA	Mt. Juliet, TN

MW-98 L1597529-73 GW

Collected by: SU / HMI Team | Collected date/time: 03/22/23 12:45 | Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2030624	1	03/27/23 17:40	03/27/23 23:53	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029193	10	03/24/23 21:15	03/24/23 21:15	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029232	1	03/25/23 09:49	03/27/23 22:19	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029249	1	03/24/23 15:35	03/26/23 21:43	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2030303	200	03/26/23 16:51	03/26/23 16:51	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2031003	200	03/28/23 05:39	03/28/23 05:39	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031811	1	03/29/23 22:08	03/31/23 06:52	MAA	Mt. Juliet, TN

RW-9 L1597529-74 GW

Collected by: SU / HMI Team
Collected date/time: 03/22/23 08:55
Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2030624	1	03/27/23 17:40	03/27/23 23:53	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029184	1	03/28/23 22:19	03/28/23 22:19	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029184	10	03/28/23 22:32	03/28/23 22:32	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029232	1	03/25/23 09:49	03/27/23 22:22	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029249	1	03/24/23 15:35	03/26/23 21:46	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029249	1	03/24/23 15:35	03/27/23 10:14	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2031448	1	03/29/23 02:29	03/29/23 02:29	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2033060	10	03/31/23 02:15	03/31/23 02:15	KSD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2033449	10	03/31/23 15:14	03/31/23 15:14	ACG	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG2031055	1.02	03/28/23 09:16	03/28/23 19:23	LTB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031811	1	03/29/23 22:08	03/31/23 07:15	MAA	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod	WG2030234	1	03/28/23 06:41	03/29/23 12:56	AED	Mt. Juliet, TN

MW-29 L1597529-75 GW

Collected by: SU / HMI Team
Collected date/time: 03/22/23 09:25
Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2030624	1	03/27/23 17:40	03/27/23 23:53	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029184	10	03/28/23 22:46	03/28/23 22:46	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2031774	1	03/29/23 09:36	03/30/23 09:26	SRT	Mt. Juliet, TN
Mercury by Method 7470A	WG2031777	1	03/29/23 10:23	03/30/23 11:24	SRT	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2031766	1	03/29/23 06:50	03/29/23 15:41	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2031813	1	03/29/23 11:45	03/29/23 17:10	SPL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029232	1	03/25/23 09:49	03/27/23 22:25	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029249	1	03/24/23 15:35	03/26/23 21:49	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029249	1	03/24/23 15:35	03/27/23 10:18	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2031448	1	03/29/23 02:51	03/29/23 02:51	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2031012	1	03/28/23 04:41	03/28/23 04:41	MGF	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031811	1	03/29/23 22:08	04/01/23 08:12	MAA	Mt. Juliet, TN

RW-#16B L1597529-76 GW

Collected by: SU / HMI Team
Collected date/time: 03/22/23 07:55
Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2030624	1	03/27/23 17:40	03/27/23 23:53	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029007	10	03/24/23 00:22	03/24/23 00:22	LBR	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029233	1	03/25/23 07:10	03/28/23 10:57	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029249	1	03/24/23 15:35	03/26/23 22:52	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029249	1	03/24/23 15:35	03/27/23 10:21	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2031012	1	03/28/23 05:04	03/28/23 05:04	MGF	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031811	1	03/29/23 22:08	03/31/23 07:59	MAA	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod	WG2030234	1	03/28/23 06:41	03/29/23 13:16	AED	Mt. Juliet, TN

MW-56 L1597529-77 GW

Collected by: SU / HMI Team
Collected date/time: 03/22/23 10:35
Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2030624	1	03/27/23 17:40	03/27/23 23:53	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029188	1	03/29/23 05:55	03/29/23 05:55	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029188	20	03/29/23 06:11	03/29/23 06:11	LBR	Mt. Juliet, TN
Mercury by Method 7470A	WG2031774	1	03/29/23 09:36	03/30/23 09:28	SRT	Mt. Juliet, TN
Mercury by Method 7470A	WG2031777	1	03/29/23 10:23	03/30/23 11:27	SRT	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2031766	1	03/29/23 06:50	03/29/23 15:49	ZSA	Mt. Juliet, TN

MW-56 L1597529-77 GW

Collected by: SU / HMI Team
Collected date/time: 03/22/23 10:35
Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG2032546	1	03/30/23 10:56	03/30/23 20:59	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029233	1	03/25/23 07:10	03/28/23 11:00	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029249	1	03/24/23 15:35	03/26/23 22:56	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029249	1	03/24/23 15:35	03/27/23 10:24	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2031012	1	03/28/23 05:28	03/28/23 05:28	MGF	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031811	1	03/29/23 22:08	04/01/23 01:52	MAA	Mt. Juliet, TN

MW-45 L1597529-78 GW

Collected by: SU / HMI Team
Collected date/time: 03/22/23 08:30
Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2030624	1	03/27/23 17:40	03/27/23 23:53	MMF	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG2028782	1	03/26/23 19:50	03/27/23 11:17	UNP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029184	10	03/28/23 23:12	03/28/23 23:12	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029184	100	03/28/23 23:26	03/28/23 23:26	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2030401	1	03/28/23 17:37	03/29/23 09:38	SRT	Mt. Juliet, TN
Mercury by Method 7470A	WG2030839	1	03/28/23 17:22	03/29/23 09:17	SRT	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2029239	1	03/24/23 13:47	03/24/23 17:21	KMG	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2030563	1	03/27/23 15:03	03/28/23 09:49	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029233	1	03/25/23 07:10	03/28/23 11:03	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029758	1	03/27/23 12:11	03/27/23 17:23	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029758	1	03/27/23 12:11	03/27/23 19:27	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2031012	1	03/28/23 05:51	03/28/23 05:51	MGF	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031811	1	03/29/23 22:08	03/31/23 08:44	MAA	Mt. Juliet, TN

DUP-TEL-01 L1597529-79 GW

Collected by: SU / HMI Team
Collected date/time: 03/22/23 10:00
Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2030624	1	03/27/23 17:40	03/27/23 23:53	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029188	10	03/29/23 06:26	03/29/23 06:26	LBR	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029233	1	03/25/23 07:10	03/28/23 11:07	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029249	1	03/24/23 15:35	03/26/23 22:59	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029249	1	03/24/23 15:35	03/27/23 10:27	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2030303	20	03/26/23 17:57	03/26/23 17:57	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2031012	20	03/28/23 10:31	03/28/23 10:31	MGF	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031811	1	03/29/23 22:08	03/31/23 09:06	MAA	Mt. Juliet, TN

EB-TEL-01 L1597529-80 GW

Collected by: SU / HMI Team
Collected date/time: 03/22/23 10:35
Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2030624	1	03/27/23 17:40	03/27/23 23:53	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029188	1	03/28/23 22:30	03/28/23 22:30	LBR	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029233	1	03/25/23 07:10	03/28/23 11:30	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029249	1	03/24/23 15:35	03/26/23 23:02	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029249	1	03/24/23 15:35	03/27/23 10:31	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2031448	1	03/29/23 03:13	03/29/23 03:13	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2031012	1	03/28/23 06:14	03/28/23 06:14	MGF	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031811	1	03/29/23 22:08	03/31/23 09:28	MAA	Mt. Juliet, TN

TRIP BLANK-TEL-01 L1597529-82 GW

Collected by: SU / HMI Team | Collected date/time: 03/22/23 00:00 | Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2031012	1	03/28/23 03:31	03/28/23 03:31	MGF	Mt. Juliet, TN

MW-139 L1597529-83 GW

Collected by: SU / HMI Team | Collected date/time: 03/22/23 11:30 | Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2030624	1	03/27/23 17:40	03/27/23 23:53	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029428	10	03/24/23 11:31	03/24/23 11:31	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029233	1	03/25/23 07:10	03/28/23 11:33	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2032107	1	03/29/23 14:43	03/29/23 23:00	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2032107	1	03/29/23 14:43	03/30/23 11:50	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2031448	1	03/29/23 03:35	03/29/23 03:35	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2031012	1	03/28/23 06:37	03/28/23 06:37	MGF	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031811	1	03/29/23 22:08	03/31/23 09:51	MAA	Mt. Juliet, TN

MW-50 L1597529-84 GW

Collected by: SU / HMI Team | Collected date/time: 03/22/23 10:15 | Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2030624	1	03/27/23 17:40	03/27/23 23:53	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029188	10	03/29/23 07:30	03/29/23 07:30	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029188	100	03/29/23 07:46	03/29/23 07:46	LBR	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029233	1	03/25/23 07:10	03/28/23 11:36	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2032107	1	03/29/23 14:43	03/29/23 23:04	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2032107	1	03/29/23 14:43	03/30/23 11:53	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2031012	1	03/28/23 07:01	03/28/23 07:01	MGF	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031811	1	03/29/23 22:08	04/01/23 02:59	MAA	Mt. Juliet, TN

MW-90 L1597529-85 GW

Collected by: SU / HMI Team | Collected date/time: 03/22/23 08:55 | Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2030624	1	03/27/23 17:40	03/27/23 23:53	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029184	10	03/28/23 23:39	03/28/23 23:39	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029233	1	03/25/23 07:10	03/28/23 11:39	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2032107	1	03/29/23 14:43	03/29/23 23:07	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2032107	1	03/29/23 14:43	03/30/23 11:56	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2031448	1	03/29/23 03:57	03/29/23 03:57	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2033060	10	03/31/23 02:36	03/31/23 02:36	KSD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2033449	10	03/31/23 15:36	03/31/23 15:36	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031811	1	03/29/23 22:08	03/31/23 10:35	MAA	Mt. Juliet, TN

RW-#17A L1597529-86 GW

Collected by: SU / HMI Team | Collected date/time: 03/22/23 13:15 | Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2030624	1	03/27/23 17:40	03/27/23 23:53	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029199	10	03/30/23 04:21	03/30/23 04:21	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029199	100	03/30/23 04:37	03/30/23 04:37	LBR	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029233	1	03/25/23 07:10	03/28/23 11:43	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2032107	1	03/29/23 14:43	03/29/23 22:22	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2031448	1	03/29/23 04:19	03/29/23 04:19	JHH	Mt. Juliet, TN

RW-#17A L1597529-86 GW

Collected by: SU / HMI Team | Collected date/time: 03/22/23 13:15 | Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2031012	1	03/28/23 07:24	03/28/23 07:24	MGF	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031811	1	03/29/23 22:08	03/31/23 10:58	MAA	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod	WG2030234	1	03/28/23 06:41	03/29/23 17:07	AED	Mt. Juliet, TN

MW-54A L1597529-87 GW

Collected by: SU / HMI Team | Collected date/time: 03/22/23 09:15 | Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2030624	1	03/27/23 17:40	03/27/23 23:53	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029184	1	03/29/23 00:33	03/29/23 00:33	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029184	20	03/29/23 00:46	03/29/23 00:46	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029233	1	03/25/23 07:10	03/28/23 11:46	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2032107	1	03/29/23 14:43	03/29/23 23:10	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2032107	1	03/29/23 14:43	03/30/23 12:00	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2031012	1	03/28/23 07:47	03/28/23 07:47	MGF	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031811	1	03/29/23 22:08	03/31/23 11:20	MAA	Mt. Juliet, TN

MW-54B L1597529-88 GW

Collected by: SU / HMI Team | Collected date/time: 03/22/23 08:25 | Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2030624	1	03/27/23 17:40	03/27/23 23:53	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029007	10	03/24/23 01:57	03/24/23 01:57	LBR	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029233	1	03/25/23 07:10	03/28/23 11:49	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2032107	1	03/29/23 14:43	03/29/23 23:13	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2032107	1	03/29/23 14:43	03/30/23 12:03	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2031448	1	03/29/23 04:41	03/29/23 04:41	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2031012	1	03/28/23 08:11	03/28/23 08:11	MGF	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031811	1	03/29/23 22:08	03/31/23 11:42	MAA	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod	WG2030234	1	03/28/23 06:41	03/29/23 18:24	AED	Mt. Juliet, TN

NCL-49 L1597529-89 GW

Collected by: SU / HMI Team | Collected date/time: 03/22/23 10:00 | Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2030624	1	03/27/23 17:40	03/27/23 23:53	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029188	10	03/29/23 08:02	03/29/23 08:02	LBR	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029233	1	03/25/23 07:10	03/28/23 11:52	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2032107	1	03/29/23 14:43	03/29/23 23:17	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2032107	1	03/29/23 14:43	03/30/23 12:06	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2031012	1	03/28/23 08:34	03/28/23 08:34	MGF	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031812	1	03/29/23 22:10	03/30/23 13:05	TJD	Mt. Juliet, TN

DUP-NCL-01 L1597529-90 GW

Collected by: SU / HMI Team | Collected date/time: 03/22/23 09:00 | Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2030626	1	03/27/23 17:22	03/27/23 22:55	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029184	10	03/29/23 01:00	03/29/23 01:00	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029184	100	03/29/23 01:13	03/29/23 01:13	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029233	1	03/25/23 07:10	03/28/23 11:56	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2032107	1	03/29/23 14:43	03/29/23 23:20	SJM	Mt. Juliet, TN

SAMPLE SUMMARY

DUP-NCL-01 L1597529-90 GW

Collected by: SU / HMI Team
Collected date/time: 03/22/23 09:00
Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICPMS) by Method 6020	WG2032107	1	03/29/23 14:43	03/30/23 12:10	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2031012	1	03/28/23 08:58	03/28/23 08:58	MGF	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031812	1	03/29/23 22:10	03/30/23 13:26	TJD	Mt. Juliet, TN

EB-NCL-01 L1597529-91 GW

Collected by: SU / HMI Team
Collected date/time: 03/22/23 10:20
Received date/time: 03/23/23 09:15

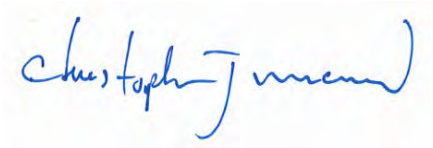
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2030626	1	03/27/23 17:22	03/27/23 22:55	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029188	1	03/29/23 08:34	03/29/23 08:34	LBR	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029233	1	03/25/23 07:10	03/28/23 11:59	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2032107	1	03/29/23 14:43	03/29/23 23:23	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2032107	1	03/29/23 14:43	03/30/23 12:13	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2031012	1	03/28/23 04:18	03/28/23 04:18	MGF	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2031812	1	03/29/23 22:10	03/30/23 13:47	TJD	Mt. Juliet, TN

TRIP BLANK-NCL-01 L1597529-92 GW

Collected by: SU / HMI Team
Collected date/time: 03/22/23 00:00
Received date/time: 03/23/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2031012	1	03/28/23 03:54	03/28/23 03:54	MGF	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
L1597529-74	RW-9	8260B

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	8420	J3	200	1	03/25/2023 10:40	WG2029498

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1290		3.79	10.0	10	03/24/2023 22:08	WG2029428
Fluoride	4.18		0.640	1.50	10	03/24/2023 22:08	WG2029428
Nitrate	1.53	B Q	0.480	1.00	10	03/24/2023 22:08	WG2029428
Nitrite	U	Q	0.420	1.00	10	03/24/2023 22:08	WG2029428
Sulfate	4640		59.4	500	100	03/24/2023 21:28	WG2029428

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.112		0.000180	0.00200	1	03/28/2023 15:16	WG2029246
Arsenic,Dissolved	0.0907		0.000180	0.00200	1	03/28/2023 10:25	WG2029230
Barium	0.0132		0.000381	0.00200	1	03/28/2023 15:16	WG2029246
Barium,Dissolved	0.0122		0.000381	0.00200	1	03/28/2023 10:25	WG2029230
Calcium	594		0.0936	1.00	1	03/28/2023 15:16	WG2029246
Chromium	0.00648		0.00124	0.00200	1	03/28/2023 15:16	WG2029246
Chromium,Dissolved	0.00492		0.00124	0.00200	1	03/28/2023 10:25	WG2029230
Iron	1.45		0.0281	0.100	1	03/28/2023 15:16	WG2029246
Iron,Dissolved	0.513	B	0.0281	0.100	1	03/28/2023 10:25	WG2029230
Lead	U		0.000849	0.00200	1	03/28/2023 15:16	WG2029246
Lead,Dissolved	U		0.000849	0.00200	1	03/28/2023 10:25	WG2029230
Manganese	2.69		0.000704	0.00500	1	03/28/2023 15:16	WG2029246
Manganese,Dissolved	2.39		0.000704	0.00500	1	03/28/2023 10:25	WG2029230
Potassium	7.23		0.108	2.00	1	03/28/2023 15:16	WG2029246
Selenium	0.00836		0.000300	0.00200	1	03/28/2023 15:16	WG2029246
Selenium,Dissolved	0.00768		0.000300	0.00200	1	03/28/2023 10:25	WG2029230
Sodium	1520		1.88	10.0	5	03/28/2023 15:48	WG2029246

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	B J	0.628	2.00	20	03/26/2023 05:04	WG2030163
(S) a,a,a-Trifluorotoluene(FID)	*96.1*			*78.0-120*		*03/26/2023 05:04*	WG2030163

Sample Narrative:

L1597529-01 WG2030163: Elevated RL due to foamy matrix.

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	03/27/2023 14:53	WG2030834
Benzene	U		0.000941	0.0100	10	03/27/2023 14:53	WG2030834
Bromodichloromethane	U		0.00136	0.0100	10	03/27/2023 14:53	WG2030834
Bromoform	U		0.00129	0.0100	10	03/27/2023 14:53	WG2030834
Bromomethane	U		0.00605	0.0500	10	03/27/2023 14:53	WG2030834
n-Butylbenzene	U		0.00157	0.0100	10	03/27/2023 14:53	WG2030834
sec-Butylbenzene	U		0.00125	0.0100	10	03/27/2023 14:53	WG2030834
Carbon disulfide	U		0.000962	0.0100	10	03/27/2023 14:53	WG2030834
Carbon tetrachloride	U		0.00128	0.0100	10	03/27/2023 14:53	WG2030834

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	03/27/2023 14:53	WG2030834
Chlorodibromomethane	U		0.00140	0.0100	10	03/27/2023 14:53	WG2030834
Chloroethane	U		0.00192	0.0500	10	03/27/2023 14:53	WG2030834
Chloroform	U		0.00111	0.0500	10	03/27/2023 14:53	WG2030834
Chloromethane	U		0.00960	0.0250	10	03/27/2023 14:53	WG2030834
1,2-Dibromoethane	U		0.00126	0.0100	10	03/27/2023 14:53	WG2030834
1,1-Dichloroethane	U		0.00100	0.0100	10	03/27/2023 14:53	WG2030834
1,2-Dichloroethane	U		0.000819	0.0100	10	03/27/2023 14:53	WG2030834
1,1-Dichloroethene	U		0.00188	0.0100	10	03/27/2023 14:53	WG2030834
cis-1,2-Dichloroethene	U		0.00126	0.0100	10	03/27/2023 14:53	WG2030834
trans-1,2-Dichloroethene	U		0.00149	0.0100	10	03/27/2023 14:53	WG2030834
1,2-Dichloropropane	U		0.00149	0.0100	10	03/27/2023 14:53	WG2030834
cis-1,3-Dichloropropene	U		0.00111	0.0100	10	03/27/2023 14:53	WG2030834
trans-1,3-Dichloropropene	U		0.00118	0.0100	10	03/27/2023 14:53	WG2030834
Ethylbenzene	U		0.00137	0.0100	10	03/27/2023 14:53	WG2030834
Isopropylbenzene	U		0.00105	0.0100	10	03/27/2023 14:53	WG2030834
p-Isopropyltoluene	U		0.00120	0.0100	10	03/27/2023 14:53	WG2030834
2-Butanone (MEK)	U	J3	0.0119	0.100	10	03/27/2023 14:53	WG2030834
2-Hexanone	U		0.00787	0.100	10	03/27/2023 14:53	WG2030834
Methylene Chloride	U		0.00430	0.0500	10	03/27/2023 14:53	WG2030834
4-Methyl-2-pentanone (MIBK)	U		0.00478	0.100	10	03/27/2023 14:53	WG2030834
Methyl tert-butyl ether	U		0.00101	0.0100	10	03/27/2023 14:53	WG2030834
Naphthalene	U		0.0100	0.0500	10	03/27/2023 14:53	WG2030834
n-Propylbenzene	U		0.000993	0.0100	10	03/27/2023 14:53	WG2030834
Styrene	U		0.00118	0.0100	10	03/27/2023 14:53	WG2030834
tert-Butyl alcohol	U		0.0406	0.0500	10	03/27/2023 14:53	WG2030834
1,1,1,2-Tetrachloroethane	U		0.00147	0.0100	10	03/27/2023 14:53	WG2030834
1,1,2,2-Tetrachloroethane	U		0.00133	0.0100	10	03/27/2023 14:53	WG2030834
Tetrachloroethene	U		0.00300	0.0100	10	03/27/2023 14:53	WG2030834
Toluene	U		0.00278	0.0100	10	03/27/2023 14:53	WG2030834
1,1,1-Trichloroethane	U		0.00149	0.0100	10	03/27/2023 14:53	WG2030834
1,1,2-Trichloroethane	U		0.00158	0.0100	10	03/27/2023 14:53	WG2030834
Trichloroethene	U		0.00190	0.0100	10	03/27/2023 14:53	WG2030834
1,2,4-Trimethylbenzene	U		0.00322	0.0100	10	03/27/2023 14:53	WG2030834
1,3,5-Trimethylbenzene	U		0.00104	0.0100	10	03/27/2023 14:53	WG2030834
Vinyl chloride	U		0.00234	0.0100	10	03/27/2023 14:53	WG2030834
o-Xylene	U		0.00174	0.0100	10	03/27/2023 14:53	WG2030834
m&p-Xylene	U		0.00430	0.0200	10	03/27/2023 14:53	WG2030834
Xylenes, Total	U		0.00174	0.0300	10	03/27/2023 14:53	WG2030834
(S) Toluene-d8	*110*			*80.0-120*		*03/27/2023 14:53*	WG2030834
(S) 4-Bromofluorobenzene	*107*			*77.0-126*		*03/27/2023 14:53*	WG2030834
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*03/27/2023 14:53*	WG2030834

Sample Narrative:

L1597529-01 WG2030834: 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	70.5		0.247	1.00	10	04/03/2023 01:27	WG2031712
(S) o-Terphenyl	*0.000*	J2		*31.0-160*		*04/03/2023 01:27*	WG2031712

Sample Narrative:

L1597529-01 WG2031712: 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	4200	J3	100	1	03/25/2023 10:40	WG2029498

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1060		3.79	10.0	10	03/24/2023 00:38	WG2029007
Fluoride	7.42		0.640	1.50	10	03/24/2023 00:38	WG2029007
Nitrate	10.3		0.480	1.00	10	03/24/2023 00:38	WG2029007
Nitrite	U		0.420	1.00	10	03/24/2023 00:38	WG2029007
Sulfate	1980		5.94	50.0	10	03/24/2023 00:38	WG2029007

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00648		0.000180	0.00200	1	03/28/2023 01:49	WG2029246
Arsenic,Dissolved	0.00652		0.000180	0.00200	1	03/27/2023 23:04	WG2029230
Barium	0.0151		0.000381	0.00200	1	03/28/2023 01:49	WG2029246
Barium,Dissolved	0.0133		0.000381	0.00200	1	03/27/2023 23:04	WG2029230
Calcium	455		0.0936	1.00	1	03/28/2023 01:49	WG2029246
Chromium	0.00532		0.00124	0.00200	1	03/28/2023 01:49	WG2029246
Chromium,Dissolved	U		0.00124	0.00200	1	03/27/2023 23:04	WG2029230
Iron	0.0847	J	0.0281	0.100	1	03/28/2023 01:49	WG2029246
Iron,Dissolved	U		0.0281	0.100	1	03/27/2023 23:04	WG2029230
Lead	U		0.000849	0.00200	1	03/28/2023 01:49	WG2029246
Lead,Dissolved	0.00108	J	0.000849	0.00200	1	03/27/2023 23:04	WG2029230
Manganese	0.115		0.000704	0.00500	1	03/28/2023 01:49	WG2029246
Manganese,Dissolved	0.0208		0.000704	0.00500	1	03/27/2023 23:04	WG2029230
Potassium	6.16		0.108	2.00	1	03/28/2023 01:49	WG2029246
Selenium	0.0113		0.000300	0.00200	1	03/28/2023 01:49	WG2029246
Selenium,Dissolved	0.0114		0.000300	0.00200	1	03/27/2023 23:04	WG2029230
Sodium	898		0.376	2.00	1	03/28/2023 01:49	WG2029246

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	0.0464	B J	0.0314	0.100	1	03/26/2023 03:36	WG2030163
(S) a,a,a-Trifluorotoluene(FID)	*96.7*			*78.0-120*		*03/26/2023 03:36*	WG2030163

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	03/27/2023 15:15	WG2030834
Benzene	U		0.0000941	0.00100	1	03/27/2023 15:15	WG2030834
Bromodichloromethane	U		0.000136	0.00100	1	03/27/2023 15:15	WG2030834
Bromoform	U		0.000129	0.00100	1	03/27/2023 15:15	WG2030834
Bromomethane	U		0.000605	0.00500	1	03/27/2023 15:15	WG2030834
n-Butylbenzene	U		0.000157	0.00100	1	03/27/2023 15:15	WG2030834
sec-Butylbenzene	U		0.000125	0.00100	1	03/27/2023 15:15	WG2030834
Carbon disulfide	U		0.0000962	0.00100	1	03/27/2023 15:15	WG2030834
Carbon tetrachloride	U		0.000128	0.00100	1	03/27/2023 15:15	WG2030834
Chlorobenzene	U		0.000116	0.00100	1	03/27/2023 15:15	WG2030834
Chlorodibromomethane	U		0.000140	0.00100	1	03/27/2023 15:15	WG2030834
Chloroethane	U		0.000192	0.00500	1	03/27/2023 15:15	WG2030834

MW-01
Collected date/time: 03/22/23 08:00
L1597529

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloroform	U		0.000111	0.00500	1	03/27/2023 15:15	WG2030834
Chloromethane	U		0.000960	0.00250	1	03/27/2023 15:15	WG2030834
1,2-Dibromoethane	U		0.000126	0.00100	1	03/27/2023 15:15	WG2030834
1,1-Dichloroethane	U		0.000100	0.00100	1	03/27/2023 15:15	WG2030834
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/27/2023 15:15	WG2030834
1,1-Dichloroethene	U		0.000188	0.00100	1	03/27/2023 15:15	WG2030834
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/27/2023 15:15	WG2030834
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/27/2023 15:15	WG2030834
1,2-Dichloropropane	U		0.000149	0.00100	1	03/27/2023 15:15	WG2030834
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/27/2023 15:15	WG2030834
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/27/2023 15:15	WG2030834
Ethylbenzene	U		0.000137	0.00100	1	03/27/2023 15:15	WG2030834
Isopropylbenzene	U		0.000105	0.00100	1	03/27/2023 15:15	WG2030834
p-Isopropyltoluene	U		0.000120	0.00100	1	03/27/2023 15:15	WG2030834
2-Butanone (MEK)	U	J3	0.00119	0.0100	1	03/27/2023 15:15	WG2030834
2-Hexanone	U		0.000787	0.0100	1	03/27/2023 15:15	WG2030834
Methylene Chloride	U		0.000430	0.00500	1	03/27/2023 15:15	WG2030834
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/27/2023 15:15	WG2030834
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/27/2023 15:15	WG2030834
Naphthalene	U		0.00100	0.00500	1	03/27/2023 15:15	WG2030834
n-Propylbenzene	U		0.0000993	0.00100	1	03/27/2023 15:15	WG2030834
Styrene	U		0.000118	0.00100	1	03/27/2023 15:15	WG2030834
tert-Butyl alcohol	U		0.00406	0.00500	1	03/27/2023 15:15	WG2030834
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/27/2023 15:15	WG2030834
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/27/2023 15:15	WG2030834
Tetrachloroethene	U		0.000300	0.00100	1	03/27/2023 15:15	WG2030834
Toluene	U		0.000278	0.00100	1	03/27/2023 15:15	WG2030834
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/27/2023 15:15	WG2030834
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/27/2023 15:15	WG2030834
Trichloroethene	U		0.000190	0.00100	1	03/27/2023 15:15	WG2030834
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/27/2023 15:15	WG2030834
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/27/2023 15:15	WG2030834
Vinyl chloride	U		0.000234	0.00100	1	03/27/2023 15:15	WG2030834
o-Xylene	U		0.000174	0.00100	1	03/27/2023 15:15	WG2030834
m&p-Xylene	U		0.000430	0.00200	1	03/27/2023 15:15	WG2030834
Xylenes, Total	U		0.000174	0.00300	1	03/27/2023 15:15	WG2030834
(S) Toluene-d8	*108*			*80.0-120*		*03/27/2023 15:15*	WG2030834
(S) 4-Bromofluorobenzene	*107*			*77.0-126*		*03/27/2023 15:15*	WG2030834
(S) 1,2-Dichloroethane-d4	*98.8*			*70.0-130*		*03/27/2023 15:15*	WG2030834

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	0.606		0.0247	0.100	1	03/31/2023 07:26	WG2031712
(S) o-Terphenyl	*108*			*31.0-160*		*03/31/2023 07:26*	WG2031712

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	4350		100	1	03/25/2023 10:40	WG2029498

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	1200		3.79	10.0	10	03/28/2023 14:30	WG2029184
Fluoride	3.00	B	0.640	1.50	10	03/28/2023 14:30	WG2029184
Nitrate	0.794	B J Q	0.480	1.00	10	03/28/2023 14:30	WG2029184
Nitrite	0.435	J Q	0.420	1.00	10	03/28/2023 14:30	WG2029184
Sulfate	2010		59.4	500	100	03/28/2023 14:43	WG2029184

Sample Narrative:

L1597529-03 WG2029184: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00225		0.000180	0.00200	1	03/28/2023 01:52	WG2029246
Arsenic,Dissolved	0.00198	J	0.000180	0.00200	1	03/27/2023 23:20	WG2029230
Barium	0.0133		0.000381	0.00200	1	03/28/2023 01:52	WG2029246
Barium,Dissolved	0.0133		0.000381	0.00200	1	03/27/2023 23:20	WG2029230
Calcium	592		0.0936	1.00	1	03/28/2023 01:52	WG2029246
Chromium	U		0.00124	0.00200	1	03/28/2023 01:52	WG2029246
Chromium,Dissolved	U		0.00124	0.00200	1	03/27/2023 23:20	WG2029230
Iron	0.0854	J	0.0281	0.100	1	03/28/2023 01:52	WG2029246
Iron,Dissolved	U		0.0281	0.100	1	03/27/2023 23:20	WG2029230
Lead	U		0.000849	0.00200	1	03/28/2023 01:52	WG2029246
Lead,Dissolved	U		0.000849	0.00200	1	03/27/2023 23:20	WG2029230
Manganese	0.0841		0.000704	0.00500	1	03/28/2023 01:52	WG2029246
Manganese,Dissolved	0.0552		0.000704	0.00500	1	03/27/2023 23:20	WG2029230
Potassium	2.74		0.108	2.00	1	03/28/2023 01:52	WG2029246
Selenium	0.000687	J	0.000300	0.00200	1	03/28/2023 01:52	WG2029246
Selenium,Dissolved	0.000996	J	0.000300	0.00200	1	03/27/2023 23:20	WG2029230
Sodium	728		0.376	2.00	1	03/28/2023 01:52	WG2029246

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	0.0461	B J	0.0314	0.100	1	03/26/2023 03:58	WG2030163
(S) a,a,a-Trifluorotoluene(FID)	*96.4*			*78.0-120*		*03/26/2023 03:58*	WG2030163

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	03/27/2023 15:36	WG2030834
Benzene	U		0.0000941	0.00100	1	03/27/2023 15:36	WG2030834
Bromodichloromethane	U		0.000136	0.00100	1	03/27/2023 15:36	WG2030834
Bromoform	U		0.000129	0.00100	1	03/27/2023 15:36	WG2030834
Bromomethane	U		0.000605	0.00500	1	03/27/2023 15:36	WG2030834
n-Butylbenzene	U		0.000157	0.00100	1	03/27/2023 15:36	WG2030834
sec-Butylbenzene	U		0.000125	0.00100	1	03/27/2023 15:36	WG2030834
Carbon disulfide	U		0.0000962	0.00100	1	03/27/2023 15:36	WG2030834
Carbon tetrachloride	U		0.000128	0.00100	1	03/27/2023 15:36	WG2030834

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	03/27/2023 15:36	WG2030834
Chlorodibromomethane	U		0.000140	0.00100	1	03/27/2023 15:36	WG2030834
Chloroethane	U		0.000192	0.00500	1	03/27/2023 15:36	WG2030834
Chloroform	U		0.000111	0.00500	1	03/27/2023 15:36	WG2030834
Chloromethane	U		0.000960	0.00250	1	03/27/2023 15:36	WG2030834
1,2-Dibromoethane	U		0.000126	0.00100	1	03/27/2023 15:36	WG2030834
1,1-Dichloroethane	U		0.000100	0.00100	1	03/27/2023 15:36	WG2030834
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/27/2023 15:36	WG2030834
1,1-Dichloroethene	U		0.000188	0.00100	1	03/27/2023 15:36	WG2030834
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/27/2023 15:36	WG2030834
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/27/2023 15:36	WG2030834
1,2-Dichloropropane	U		0.000149	0.00100	1	03/27/2023 15:36	WG2030834
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/27/2023 15:36	WG2030834
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/27/2023 15:36	WG2030834
Ethylbenzene	U		0.000137	0.00100	1	03/27/2023 15:36	WG2030834
Isopropylbenzene	U		0.000105	0.00100	1	03/27/2023 15:36	WG2030834
p-Isopropyltoluene	U		0.000120	0.00100	1	03/27/2023 15:36	WG2030834
2-Butanone (MEK)	U	J3	0.00119	0.0100	1	03/27/2023 15:36	WG2030834
2-Hexanone	U		0.000787	0.0100	1	03/27/2023 15:36	WG2030834
Methylene Chloride	U		0.000430	0.00500	1	03/27/2023 15:36	WG2030834
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/27/2023 15:36	WG2030834
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/27/2023 15:36	WG2030834
Naphthalene	U		0.00100	0.00500	1	03/27/2023 15:36	WG2030834
n-Propylbenzene	U		0.0000993	0.00100	1	03/27/2023 15:36	WG2030834
Styrene	U		0.000118	0.00100	1	03/27/2023 15:36	WG2030834
tert-Butyl alcohol	U		0.00406	0.00500	1	03/27/2023 15:36	WG2030834
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/27/2023 15:36	WG2030834
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/27/2023 15:36	WG2030834
Tetrachloroethene	U		0.000300	0.00100	1	03/27/2023 15:36	WG2030834
Toluene	U		0.000278	0.00100	1	03/27/2023 15:36	WG2030834
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/27/2023 15:36	WG2030834
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/27/2023 15:36	WG2030834
Trichloroethene	U		0.000190	0.00100	1	03/27/2023 15:36	WG2030834
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/27/2023 15:36	WG2030834
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/27/2023 15:36	WG2030834
Vinyl chloride	U		0.000234	0.00100	1	03/27/2023 15:36	WG2030834
o-Xylene	U		0.000174	0.00100	1	03/27/2023 15:36	WG2030834
m&p-Xylene	U		0.000430	0.00200	1	03/27/2023 15:36	WG2030834
Xylenes, Total	U		0.000174	0.00300	1	03/27/2023 15:36	WG2030834
(S) Toluene-d8	*109*			*80.0-120*		*03/27/2023 15:36*	WG2030834
(S) 4-Bromofluorobenzene	*104*			*77.0-126*		*03/27/2023 15:36*	WG2030834
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*03/27/2023 15:36*	WG2030834

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	0.0890	J	0.0247	0.100	1	03/31/2023 07:58	WG2031712
(S) o-Terphenyl	*104*			*31.0-160*		*03/31/2023 07:58*	WG2031712

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	5140		100	1	03/25/2023 10:40	WG2029498

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1540		3.79	10.0	10	03/28/2023 14:56	WG2029184
Fluoride	5.86	B	0.640	1.50	10	03/28/2023 14:56	WG2029184
Nitrate	1.83	B Q	0.480	1.00	10	03/28/2023 14:56	WG2029184
Nitrite	U	Q	0.420	1.00	10	03/28/2023 14:56	WG2029184
Sulfate	2050		59.4	500	100	03/28/2023 15:10	WG2029184

Sample Narrative:

L1597529-04 WG2029184: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00377		0.000180	0.00200	1	03/28/2023 15:19	WG2029246
Arsenic,Dissolved	0.00350		0.000180	0.00200	1	03/27/2023 23:24	WG2029230
Barium	0.0142		0.000381	0.00200	1	03/28/2023 15:19	WG2029246
Barium,Dissolved	0.0140		0.000381	0.00200	1	03/27/2023 23:24	WG2029230
Calcium	571		0.0936	1.00	1	03/28/2023 15:19	WG2029246
Chromium	U		0.00124	0.00200	1	03/28/2023 15:19	WG2029246
Chromium,Dissolved	U		0.00124	0.00200	1	03/27/2023 23:24	WG2029230
Iron	0.0453	J	0.0281	0.100	1	03/28/2023 15:19	WG2029246
Iron,Dissolved	0.0441	B J	0.0281	0.100	1	03/27/2023 23:24	WG2029230
Lead	U		0.000849	0.00200	1	03/28/2023 15:19	WG2029246
Lead,Dissolved	U		0.000849	0.00200	1	03/27/2023 23:24	WG2029230
Manganese	0.240		0.000704	0.00500	1	03/28/2023 15:19	WG2029246
Manganese,Dissolved	0.273		0.000704	0.00500	1	03/27/2023 23:24	WG2029230
Potassium	6.54		0.108	2.00	1	03/28/2023 15:19	WG2029246
Selenium	0.00135	J	0.000300	0.00200	1	03/28/2023 15:19	WG2029246
Selenium,Dissolved	0.00128	J	0.000300	0.00200	1	03/27/2023 23:24	WG2029230
Sodium	945		1.88	10.0	5	03/28/2023 15:51	WG2029246

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	0.0550	B J	0.0314	0.100	1	03/26/2023 04:20	WG2030163
(S) a,a,a-Trifluorotoluene(FID)	*96.1*			*78.0-120*		*03/26/2023 04:20*	WG2030163

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	03/27/2023 15:58	WG2030834
Benzene	U		0.0000941	0.00100	1	03/27/2023 15:58	WG2030834
Bromodichloromethane	U		0.000136	0.00100	1	03/27/2023 15:58	WG2030834
Bromoform	U		0.000129	0.00100	1	03/27/2023 15:58	WG2030834
Bromomethane	U		0.000605	0.00500	1	03/27/2023 15:58	WG2030834
n-Butylbenzene	U		0.000157	0.00100	1	03/27/2023 15:58	WG2030834
sec-Butylbenzene	U		0.000125	0.00100	1	03/27/2023 15:58	WG2030834
Carbon disulfide	U		0.0000962	0.00100	1	03/27/2023 15:58	WG2030834
Carbon tetrachloride	U		0.000128	0.00100	1	03/27/2023 15:58	WG2030834

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	03/27/2023 15:58	WG2030834
Chlorodibromomethane	U		0.000140	0.00100	1	03/27/2023 15:58	WG2030834
Chloroethane	U		0.000192	0.00500	1	03/27/2023 15:58	WG2030834
Chloroform	U		0.000111	0.00500	1	03/27/2023 15:58	WG2030834
Chloromethane	U		0.000960	0.00250	1	03/27/2023 15:58	WG2030834
1,2-Dibromoethane	U		0.000126	0.00100	1	03/27/2023 15:58	WG2030834
1,1-Dichloroethane	U		0.000100	0.00100	1	03/27/2023 15:58	WG2030834
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/27/2023 15:58	WG2030834
1,1-Dichloroethene	U		0.000188	0.00100	1	03/27/2023 15:58	WG2030834
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/27/2023 15:58	WG2030834
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/27/2023 15:58	WG2030834
1,2-Dichloropropane	U		0.000149	0.00100	1	03/27/2023 15:58	WG2030834
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/27/2023 15:58	WG2030834
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/27/2023 15:58	WG2030834
Ethylbenzene	U		0.000137	0.00100	1	03/27/2023 15:58	WG2030834
Isopropylbenzene	U		0.000105	0.00100	1	03/27/2023 15:58	WG2030834
p-Isopropyltoluene	U		0.000120	0.00100	1	03/27/2023 15:58	WG2030834
2-Butanone (MEK)	U	J3	0.00119	0.0100	1	03/27/2023 15:58	WG2030834
2-Hexanone	U		0.000787	0.0100	1	03/27/2023 15:58	WG2030834
Methylene Chloride	U		0.000430	0.00500	1	03/27/2023 15:58	WG2030834
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/27/2023 15:58	WG2030834
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/27/2023 15:58	WG2030834
Naphthalene	U		0.00100	0.00500	1	03/27/2023 15:58	WG2030834
n-Propylbenzene	U		0.0000993	0.00100	1	03/27/2023 15:58	WG2030834
Styrene	U		0.000118	0.00100	1	03/27/2023 15:58	WG2030834
tert-Butyl alcohol	U		0.00406	0.00500	1	03/27/2023 15:58	WG2030834
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/27/2023 15:58	WG2030834
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/27/2023 15:58	WG2030834
Tetrachloroethene	U		0.000300	0.00100	1	03/27/2023 15:58	WG2030834
Toluene	U		0.000278	0.00100	1	03/27/2023 15:58	WG2030834
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/27/2023 15:58	WG2030834
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/27/2023 15:58	WG2030834
Trichloroethene	U		0.000190	0.00100	1	03/27/2023 15:58	WG2030834
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/27/2023 15:58	WG2030834
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/27/2023 15:58	WG2030834
Vinyl chloride	U		0.000234	0.00100	1	03/27/2023 15:58	WG2030834
o-Xylene	U		0.000174	0.00100	1	03/27/2023 15:58	WG2030834
m&p-Xylene	U		0.000430	0.00200	1	03/27/2023 15:58	WG2030834
Xylenes, Total	U		0.000174	0.00300	1	03/27/2023 15:58	WG2030834
(S) Toluene-d8	*108*			*80.0-120*		*03/27/2023 15:58*	WG2030834
(S) 4-Bromofluorobenzene	*106*			*77.0-126*		*03/27/2023 15:58*	WG2030834
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*03/27/2023 15:58*	WG2030834

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	0.177		0.0247	0.100	1	03/31/2023 08:18	WG2031712
(S) o-Terphenyl	*104*			*31.0-160*		*03/31/2023 08:18*	WG2031712

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	5950		100	1	03/25/2023 10:40	WG2029498

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1490		3.79	10.0	10	03/28/2023 23:33	WG2029188
Fluoride	9.11		0.640	1.50	10	03/28/2023 23:33	WG2029188
Nitrate	2.16	Q	0.480	1.00	10	03/28/2023 23:33	WG2029188
Nitrite	U	Q	0.420	1.00	10	03/28/2023 23:33	WG2029188
Sulfate	1870		59.4	500	100	03/28/2023 23:49	WG2029188

Sample Narrative:

L1597529-05 WG2029188: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0225		0.000180	0.00200	1	03/28/2023 15:23	WG2029246
Arsenic,Dissolved	0.0198		0.000180	0.00200	1	03/27/2023 23:28	WG2029230
Barium	0.0239		0.000381	0.00200	1	03/28/2023 15:23	WG2029246
Barium,Dissolved	0.0228		0.000381	0.00200	1	03/27/2023 23:28	WG2029230
Calcium	502		0.0936	1.00	1	03/28/2023 15:23	WG2029246
Chromium	0.00228		0.00124	0.00200	1	03/28/2023 15:23	WG2029246
Chromium,Dissolved	U		0.00124	0.00200	1	03/27/2023 23:28	WG2029230
Iron	0.269		0.0281	0.100	1	03/28/2023 15:23	WG2029246
Iron,Dissolved	0.122	B	0.0281	0.100	1	03/27/2023 23:28	WG2029230
Lead	U		0.000849	0.00200	1	03/28/2023 15:23	WG2029246
Lead,Dissolved	U		0.000849	0.00200	1	03/27/2023 23:28	WG2029230
Manganese	2.84		0.000704	0.00500	1	03/28/2023 15:23	WG2029246
Manganese,Dissolved	2.55		0.000704	0.00500	1	03/27/2023 23:28	WG2029230
Potassium	8.72		0.108	2.00	1	03/28/2023 15:23	WG2029246
Selenium	0.00115	J	0.000300	0.00200	1	03/28/2023 15:23	WG2029246
Selenium,Dissolved	0.000990	J	0.000300	0.00200	1	03/27/2023 23:28	WG2029230
Sodium	1100		1.88	10.0	5	03/28/2023 15:54	WG2029246

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	0.211	B	0.0314	0.100	1	03/30/2023 18:39	WG2033113
(S) a,a,a-Trifluorotoluene(FID)	*100*			*78.0-120*		*03/30/2023 18:39*	WG2033113

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	03/27/2023 16:19	WG2030834
Benzene	U		0.0000941	0.00100	1	03/27/2023 16:19	WG2030834
Bromodichloromethane	U		0.000136	0.00100	1	03/27/2023 16:19	WG2030834
Bromoform	U		0.000129	0.00100	1	03/27/2023 16:19	WG2030834
Bromomethane	U		0.000605	0.00500	1	03/27/2023 16:19	WG2030834
n-Butylbenzene	U		0.000157	0.00100	1	03/27/2023 16:19	WG2030834
sec-Butylbenzene	U		0.000125	0.00100	1	03/27/2023 16:19	WG2030834
Carbon disulfide	U		0.0000962	0.00100	1	03/27/2023 16:19	WG2030834
Carbon tetrachloride	U		0.000128	0.00100	1	03/27/2023 16:19	WG2030834

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	03/27/2023 16:19	WG2030834
Chlorodibromomethane	U		0.000140	0.00100	1	03/27/2023 16:19	WG2030834
Chloroethane	U		0.000192	0.00500	1	03/27/2023 16:19	WG2030834
Chloroform	U		0.000111	0.00500	1	03/27/2023 16:19	WG2030834
Chloromethane	U		0.000960	0.00250	1	03/27/2023 16:19	WG2030834
1,2-Dibromoethane	U		0.000126	0.00100	1	03/27/2023 16:19	WG2030834
1,1-Dichloroethane	U		0.000100	0.00100	1	03/27/2023 16:19	WG2030834
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/27/2023 16:19	WG2030834
1,1-Dichloroethene	U		0.000188	0.00100	1	03/27/2023 16:19	WG2030834
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/27/2023 16:19	WG2030834
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/27/2023 16:19	WG2030834
1,2-Dichloropropane	U		0.000149	0.00100	1	03/27/2023 16:19	WG2030834
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/27/2023 16:19	WG2030834
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/27/2023 16:19	WG2030834
Ethylbenzene	U		0.000137	0.00100	1	03/27/2023 16:19	WG2030834
Isopropylbenzene	U		0.000105	0.00100	1	03/27/2023 16:19	WG2030834
p-Isopropyltoluene	U		0.000120	0.00100	1	03/27/2023 16:19	WG2030834
2-Butanone (MEK)	U	J3	0.00119	0.0100	1	03/27/2023 16:19	WG2030834
2-Hexanone	U		0.000787	0.0100	1	03/27/2023 16:19	WG2030834
Methylene Chloride	U		0.000430	0.00500	1	03/27/2023 16:19	WG2030834
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/27/2023 16:19	WG2030834
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/27/2023 16:19	WG2030834
Naphthalene	U		0.00100	0.00500	1	03/27/2023 16:19	WG2030834
n-Propylbenzene	U		0.0000993	0.00100	1	03/27/2023 16:19	WG2030834
Styrene	U		0.000118	0.00100	1	03/27/2023 16:19	WG2030834
tert-Butyl alcohol	U		0.00406	0.00500	1	03/27/2023 16:19	WG2030834
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/27/2023 16:19	WG2030834
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/27/2023 16:19	WG2030834
Tetrachloroethene	U		0.000300	0.00100	1	03/27/2023 16:19	WG2030834
Toluene	U		0.000278	0.00100	1	03/27/2023 16:19	WG2030834
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/27/2023 16:19	WG2030834
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/27/2023 16:19	WG2030834
Trichloroethene	U		0.000190	0.00100	1	03/27/2023 16:19	WG2030834
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/27/2023 16:19	WG2030834
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/27/2023 16:19	WG2030834
Vinyl chloride	U		0.000234	0.00100	1	03/27/2023 16:19	WG2030834
o-Xylene	U		0.000174	0.00100	1	03/27/2023 16:19	WG2030834
m&p-Xylene	U		0.000430	0.00200	1	03/27/2023 16:19	WG2030834
Xylenes, Total	U		0.000174	0.00300	1	03/27/2023 16:19	WG2030834
(S) Toluene-d8	*106*			*80.0-120*		*03/27/2023 16:19*	WG2030834
(S) 4-Bromofluorobenzene	*108*			*77.0-126*		*03/27/2023 16:19*	WG2030834
(S) 1,2-Dichloroethane-d4	*99.4*			*70.0-130*		*03/27/2023 16:19*	WG2030834

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	3.95		0.0247	0.100	1	03/31/2023 08:39	WG2031712
(S) o-Terphenyl	*108*			*31.0-160*		*03/31/2023 08:39*	WG2031712

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	7040		200	1	03/25/2023 10:40	WG2029498

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1910		3.79	10.0	10	03/24/2023 12:30	WG2029193
Fluoride	8.56		0.640	1.50	10	03/24/2023 12:30	WG2029193
Nitrate	4.32		0.480	1.00	10	03/24/2023 12:30	WG2029193
Nitrite	U		0.420	1.00	10	03/24/2023 12:30	WG2029193
Sulfate	3360		59.4	500	100	03/24/2023 14:12	WG2029193

Sample Narrative:

L1597529-06 WG2029193: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0917		0.000180	0.00200	1	03/28/2023 15:26	WG2029246
Arsenic,Dissolved	0.0915		0.000180	0.00200	1	03/27/2023 23:40	WG2029230
Barium	0.0141		0.000381	0.00200	1	03/28/2023 15:26	WG2029246
Barium,Dissolved	0.0123		0.000381	0.00200	1	03/27/2023 23:40	WG2029230
Calcium	552		0.0936	1.00	1	03/28/2023 15:26	WG2029246
Chromium	U		0.00124	0.00200	1	03/28/2023 15:26	WG2029246
Chromium,Dissolved	U		0.00124	0.00200	1	03/27/2023 23:40	WG2029230
Iron	0.0308	J	0.0281	0.100	1	03/28/2023 15:26	WG2029246
Iron,Dissolved	U		0.0281	0.100	1	03/27/2023 23:40	WG2029230
Lead	U		0.000849	0.00200	1	03/28/2023 15:26	WG2029246
Lead,Dissolved	U		0.000849	0.00200	1	03/27/2023 23:40	WG2029230
Manganese	2.04		0.000704	0.00500	1	03/28/2023 15:26	WG2029246
Manganese,Dissolved	1.88		0.000704	0.00500	1	03/27/2023 23:40	WG2029230
Potassium	30.3		0.108	2.00	1	03/28/2023 15:26	WG2029246
Selenium	0.0122		0.000300	0.00200	1	03/28/2023 15:26	WG2029246
Selenium,Dissolved	0.0105		0.000300	0.00200	1	03/27/2023 23:40	WG2029230
Sodium	1860		1.88	10.0	5	03/28/2023 15:57	WG2029246

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	0.603		0.0314	0.100	1	03/30/2023 19:01	WG2033113
(S) a,a,a-Trifluorotoluene(FID)	*99.8*			*78.0-120*		*03/30/2023 19:01*	WG2033113

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	03/27/2023 16:41	WG2030834
Benzene	U		0.0000941	0.00100	1	03/27/2023 16:41	WG2030834
Bromodichloromethane	U		0.000136	0.00100	1	03/27/2023 16:41	WG2030834
Bromoform	U		0.000129	0.00100	1	03/27/2023 16:41	WG2030834
Bromomethane	U		0.000605	0.00500	1	03/27/2023 16:41	WG2030834
n-Butylbenzene	U		0.000157	0.00100	1	03/27/2023 16:41	WG2030834
sec-Butylbenzene	U		0.000125	0.00100	1	03/27/2023 16:41	WG2030834
Carbon disulfide	U		0.0000962	0.00100	1	03/27/2023 16:41	WG2030834
Carbon tetrachloride	U		0.000128	0.00100	1	03/27/2023 16:41	WG2030834

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	03/27/2023 16:41	WG2030834
Chlorodibromomethane	U		0.000140	0.00100	1	03/27/2023 16:41	WG2030834
Chloroethane	U		0.000192	0.00500	1	03/27/2023 16:41	WG2030834
Chloroform	U		0.000111	0.00500	1	03/27/2023 16:41	WG2030834
Chloromethane	U		0.000960	0.00250	1	03/27/2023 16:41	WG2030834
1,2-Dibromoethane	U		0.000126	0.00100	1	03/27/2023 16:41	WG2030834
1,1-Dichloroethane	U		0.000100	0.00100	1	03/27/2023 16:41	WG2030834
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/27/2023 16:41	WG2030834
1,1-Dichloroethene	U		0.000188	0.00100	1	03/27/2023 16:41	WG2030834
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/27/2023 16:41	WG2030834
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/27/2023 16:41	WG2030834
1,2-Dichloropropane	U		0.000149	0.00100	1	03/27/2023 16:41	WG2030834
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/27/2023 16:41	WG2030834
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/27/2023 16:41	WG2030834
Ethylbenzene	U		0.000137	0.00100	1	03/27/2023 16:41	WG2030834
Isopropylbenzene	U		0.000105	0.00100	1	03/27/2023 16:41	WG2030834
p-Isopropyltoluene	U		0.000120	0.00100	1	03/27/2023 16:41	WG2030834
2-Butanone (MEK)	U	J3	0.00119	0.0100	1	03/27/2023 16:41	WG2030834
2-Hexanone	U		0.000787	0.0100	1	03/27/2023 16:41	WG2030834
Methylene Chloride	U		0.000430	0.00500	1	03/27/2023 16:41	WG2030834
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/27/2023 16:41	WG2030834
Methyl tert-butyl ether	0.000439	J	0.000101	0.00100	1	03/27/2023 16:41	WG2030834
Naphthalene	U		0.00100	0.00500	1	03/27/2023 16:41	WG2030834
n-Propylbenzene	U		0.0000993	0.00100	1	03/27/2023 16:41	WG2030834
Styrene	U		0.000118	0.00100	1	03/27/2023 16:41	WG2030834
tert-Butyl alcohol	0.0265		0.00406	0.00500	1	03/27/2023 16:41	WG2030834
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/27/2023 16:41	WG2030834
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/27/2023 16:41	WG2030834
Tetrachloroethene	U		0.000300	0.00100	1	03/27/2023 16:41	WG2030834
Toluene	U		0.000278	0.00100	1	03/27/2023 16:41	WG2030834
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/27/2023 16:41	WG2030834
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/27/2023 16:41	WG2030834
Trichloroethene	U		0.000190	0.00100	1	03/27/2023 16:41	WG2030834
1,2,4-Trimethylbenzene	0.00152		0.000322	0.00100	1	03/27/2023 16:41	WG2030834
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/27/2023 16:41	WG2030834
Vinyl chloride	U		0.000234	0.00100	1	03/27/2023 16:41	WG2030834
o-Xylene	U		0.000174	0.00100	1	03/27/2023 16:41	WG2030834
m&p-Xylene	U		0.000430	0.00200	1	03/27/2023 16:41	WG2030834
Xylenes, Total	U		0.000174	0.00300	1	03/27/2023 16:41	WG2030834
(S) Toluene-d8	*106*			*80.0-120*		*03/27/2023 16:41*	WG2030834
(S) 4-Bromofluorobenzene	*105*			*77.0-126*		*03/27/2023 16:41*	WG2030834
(S) 1,2-Dichloroethane-d4	*100*			*70.0-130*		*03/27/2023 16:41*	WG2030834

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	13.4		0.0494	0.200	2	04/01/2023 01:33	WG2031712
(S) o-Terphenyl	*97.4*			*31.0-160*		*04/01/2023 01:33*	WG2031712

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	0.00147		0.0000447	0.000400	1	03/29/2023 15:11	WG2030234
(S) Nitrobenzene-d5	*24.0*			*10.0-120*		*03/29/2023 15:11*	WG2030234

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	8440		200	1	03/25/2023 10:40	WG2029498

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	2380		37.9	100	100	03/24/2023 13:34	WG2029193
Fluoride	2.26		0.640	1.50	10	03/24/2023 11:51	WG2029193
Nitrate	U		0.480	1.00	10	03/24/2023 11:51	WG2029193
Nitrite	U		0.420	1.00	10	03/24/2023 11:51	WG2029193
Sulfate	3280		59.4	500	100	03/24/2023 13:34	WG2029193

Sample Narrative:

L1597529-07 WG2029193: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0408		0.000180	0.00200	1	03/28/2023 15:29	WG2029246
Arsenic,Dissolved	0.0380		0.000180	0.00200	1	03/27/2023 23:44	WG2029230
Barium	0.00870		0.000381	0.00200	1	03/28/2023 15:29	WG2029246
Barium,Dissolved	0.00765		0.000381	0.00200	1	03/27/2023 23:44	WG2029230
Calcium	607		0.0936	1.00	1	03/28/2023 15:29	WG2029246
Chromium	U		0.00124	0.00200	1	03/28/2023 15:29	WG2029246
Chromium,Dissolved	U		0.00124	0.00200	1	03/27/2023 23:44	WG2029230
Iron	0.930		0.0281	0.100	1	03/28/2023 15:29	WG2029246
Iron,Dissolved	0.632	B	0.0281	0.100	1	03/27/2023 23:44	WG2029230
Lead	U		0.000849	0.00200	1	03/28/2023 15:29	WG2029246
Lead,Dissolved	U		0.000849	0.00200	1	03/27/2023 23:44	WG2029230
Manganese	0.269		0.000704	0.00500	1	03/28/2023 15:29	WG2029246
Manganese,Dissolved	0.312		0.000704	0.00500	1	03/27/2023 23:44	WG2029230
Potassium	2.82		0.108	2.00	1	03/28/2023 15:29	WG2029246
Selenium	0.00158	J	0.000300	0.00200	1	03/28/2023 15:29	WG2029246
Selenium,Dissolved	0.00143	J	0.000300	0.00200	1	03/27/2023 23:44	WG2029230
Sodium	2200		1.88	10.0	5	03/28/2023 16:01	WG2029246

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	1.39	B J	0.628	2.00	20	03/26/2023 14:41	WG2030301
(S) a,a,a-Trifluorotoluene(FID)	*97.1*			*78.0-120*		*03/26/2023 14:41*	WG2030301

Sample Narrative:

L1597529-07 WG2030301: Elevated RL due to foamy matrix.

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	03/27/2023 17:03	WG2030834
Benzene	U		0.0000941	0.00100	1	03/27/2023 17:03	WG2030834
Bromodichloromethane	U		0.000136	0.00100	1	03/27/2023 17:03	WG2030834
Bromoform	U		0.000129	0.00100	1	03/27/2023 17:03	WG2030834
Bromomethane	U		0.000605	0.00500	1	03/27/2023 17:03	WG2030834
n-Butylbenzene	U		0.000157	0.00100	1	03/27/2023 17:03	WG2030834

MW-73
Collected date/time: 03/22/23 11:50
L1597529

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	U		0.000125	0.00100	1	03/27/2023 17:03	WG2030834
Carbon disulfide	U		0.0000962	0.00100	1	03/27/2023 17:03	WG2030834
Carbon tetrachloride	U		0.000128	0.00100	1	03/27/2023 17:03	WG2030834
Chlorobenzene	U		0.000116	0.00100	1	03/27/2023 17:03	WG2030834
Chlorodibromomethane	U		0.000140	0.00100	1	03/27/2023 17:03	WG2030834
Chloroethane	U		0.000192	0.00500	1	03/27/2023 17:03	WG2030834
Chloroform	U		0.000111	0.00500	1	03/27/2023 17:03	WG2030834
Chloromethane	U		0.000960	0.00250	1	03/27/2023 17:03	WG2030834
1,2-Dibromoethane	U		0.000126	0.00100	1	03/27/2023 17:03	WG2030834
1,1-Dichloroethane	U		0.000100	0.00100	1	03/27/2023 17:03	WG2030834
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/27/2023 17:03	WG2030834
1,1-Dichloroethene	U		0.000188	0.00100	1	03/27/2023 17:03	WG2030834
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/27/2023 17:03	WG2030834
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/27/2023 17:03	WG2030834
1,2-Dichloropropane	U		0.000149	0.00100	1	03/27/2023 17:03	WG2030834
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/27/2023 17:03	WG2030834
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/27/2023 17:03	WG2030834
Ethylbenzene	U		0.000137	0.00100	1	03/27/2023 17:03	WG2030834
Isopropylbenzene	U		0.000105	0.00100	1	03/27/2023 17:03	WG2030834
p-Isopropyltoluene	U		0.000120	0.00100	1	03/27/2023 17:03	WG2030834
2-Butanone (MEK)	U	J3	0.00119	0.0100	1	03/27/2023 17:03	WG2030834
2-Hexanone	U		0.000787	0.0100	1	03/27/2023 17:03	WG2030834
Methylene Chloride	U		0.000430	0.00500	1	03/27/2023 17:03	WG2030834
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/27/2023 17:03	WG2030834
Methyl tert-butyl ether	0.000466	J	0.000101	0.00100	1	03/27/2023 17:03	WG2030834
Naphthalene	U		0.00100	0.00500	1	03/27/2023 17:03	WG2030834
n-Propylbenzene	U		0.0000993	0.00100	1	03/27/2023 17:03	WG2030834
Styrene	U		0.000118	0.00100	1	03/27/2023 17:03	WG2030834
tert-Butyl alcohol	0.0100		0.00406	0.00500	1	03/27/2023 17:03	WG2030834
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/27/2023 17:03	WG2030834
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/27/2023 17:03	WG2030834
Tetrachloroethene	U		0.000300	0.00100	1	03/27/2023 17:03	WG2030834
Toluene	U		0.000278	0.00100	1	03/27/2023 17:03	WG2030834
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/27/2023 17:03	WG2030834
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/27/2023 17:03	WG2030834
Trichloroethene	U		0.000190	0.00100	1	03/27/2023 17:03	WG2030834
1,2,4-Trimethylbenzene	0.000348	J	0.000322	0.00100	1	03/27/2023 17:03	WG2030834
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/27/2023 17:03	WG2030834
Vinyl chloride	U		0.000234	0.00100	1	03/27/2023 17:03	WG2030834
o-Xylene	U		0.000174	0.00100	1	03/27/2023 17:03	WG2030834
m&p-Xylene	U		0.000430	0.00200	1	03/27/2023 17:03	WG2030834
Xylenes, Total	U		0.000174	0.00300	1	03/27/2023 17:03	WG2030834
(S) Toluene-d8	*105*			*80.0-120*		*03/27/2023 17:03*	WG2030834
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*03/27/2023 17:03*	WG2030834
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*03/27/2023 17:03*	WG2030834

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	2.39		0.0247	0.100	1	04/01/2023 01:13	WG2031712
(S) o-Terphenyl	*109*			*31.0-160*		*04/01/2023 01:13*	WG2031712

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	1700		50.0	1	03/25/2023 10:40	WG2029498

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	142		0.379	1.00	1	03/24/2023 12:42	WG2029193
Fluoride	0.885		0.0640	0.150	1	03/24/2023 12:42	WG2029193
Nitrate	0.199		0.0480	0.100	1	03/24/2023 12:42	WG2029193
Nitrite	U		0.0420	0.100	1	03/24/2023 12:42	WG2029193
Sulfate	U		0.594	5.00	1	03/24/2023 12:42	WG2029193

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00397		0.000180	0.00200	1	03/28/2023 15:33	WG2029246
Arsenic,Dissolved	0.00375		0.000180	0.00200	1	03/27/2023 23:47	WG2029230
Barium	0.0232		0.000381	0.00200	1	03/28/2023 15:33	WG2029246
Barium,Dissolved	0.0173		0.000381	0.00200	1	03/27/2023 23:47	WG2029230
Calcium	229		0.0936	1.00	1	03/28/2023 15:33	WG2029246
Chromium	0.00449		0.00124	0.00200	1	03/28/2023 15:33	WG2029246
Chromium,Dissolved	U		0.00124	0.00200	1	03/27/2023 23:47	WG2029230
Iron	1.70		0.0281	0.100	1	03/28/2023 15:33	WG2029246
Iron,Dissolved	U		0.0281	0.100	1	03/27/2023 23:47	WG2029230
Lead	0.00482		0.000849	0.00200	1	03/28/2023 15:33	WG2029246
Lead,Dissolved	U		0.000849	0.00200	1	03/27/2023 23:47	WG2029230
Manganese	0.113		0.000704	0.00500	1	03/28/2023 15:33	WG2029246
Manganese,Dissolved	0.0935		0.000704	0.00500	1	03/27/2023 23:47	WG2029230
Potassium	1.06	J	0.108	2.00	1	03/28/2023 15:33	WG2029246
Selenium	0.00268		0.000300	0.00200	1	03/28/2023 15:33	WG2029246
Selenium,Dissolved	0.00289		0.000300	0.00200	1	03/27/2023 23:47	WG2029230
Sodium	268		0.376	2.00	1	03/28/2023 15:33	WG2029246

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	0.0775	B J	0.0314	0.100	1	03/26/2023 12:06	WG2030301
(S) a,a,a-Trifluorotoluene(FID)	*96.9*			*78.0-120*		*03/26/2023 12:06*	WG2030301

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	03/27/2023 17:24	WG2030834
Benzene	U		0.0000941	0.00100	1	03/27/2023 17:24	WG2030834
Bromodichloromethane	U		0.000136	0.00100	1	03/27/2023 17:24	WG2030834
Bromoform	U		0.000129	0.00100	1	03/27/2023 17:24	WG2030834
Bromomethane	U		0.000605	0.00500	1	03/27/2023 17:24	WG2030834
n-Butylbenzene	U		0.000157	0.00100	1	03/27/2023 17:24	WG2030834
sec-Butylbenzene	U		0.000125	0.00100	1	03/27/2023 17:24	WG2030834
Carbon disulfide	U		0.0000962	0.00100	1	03/27/2023 17:24	WG2030834
Carbon tetrachloride	U		0.000128	0.00100	1	03/27/2023 17:24	WG2030834
Chlorobenzene	U		0.000116	0.00100	1	03/27/2023 17:24	WG2030834
Chlorodibromomethane	U		0.000140	0.00100	1	03/27/2023 17:24	WG2030834
Chloroethane	U		0.000192	0.00500	1	03/27/2023 17:24	WG2030834

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloroform	U		0.000111	0.00500	1	03/27/2023 17:24	WG2030834
Chloromethane	U		0.000960	0.00250	1	03/27/2023 17:24	WG2030834
1,2-Dibromoethane	U		0.000126	0.00100	1	03/27/2023 17:24	WG2030834
1,1-Dichloroethane	U		0.000100	0.00100	1	03/27/2023 17:24	WG2030834
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/27/2023 17:24	WG2030834
1,1-Dichloroethene	U		0.000188	0.00100	1	03/27/2023 17:24	WG2030834
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/27/2023 17:24	WG2030834
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/27/2023 17:24	WG2030834
1,2-Dichloropropane	U		0.000149	0.00100	1	03/27/2023 17:24	WG2030834
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/27/2023 17:24	WG2030834
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/27/2023 17:24	WG2030834
Ethylbenzene	U		0.000137	0.00100	1	03/27/2023 17:24	WG2030834
Isopropylbenzene	U		0.000105	0.00100	1	03/27/2023 17:24	WG2030834
p-Isopropyltoluene	U		0.000120	0.00100	1	03/27/2023 17:24	WG2030834
2-Butanone (MEK)	U	J3	0.00119	0.0100	1	03/27/2023 17:24	WG2030834
2-Hexanone	U		0.000787	0.0100	1	03/27/2023 17:24	WG2030834
Methylene Chloride	U		0.000430	0.00500	1	03/27/2023 17:24	WG2030834
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/27/2023 17:24	WG2030834
Methyl tert-butyl ether	0.00236		0.000101	0.00100	1	03/27/2023 17:24	WG2030834
Naphthalene	U		0.00100	0.00500	1	03/27/2023 17:24	WG2030834
n-Propylbenzene	U		0.0000993	0.00100	1	03/27/2023 17:24	WG2030834
Styrene	U		0.000118	0.00100	1	03/27/2023 17:24	WG2030834
tert-Butyl alcohol	U		0.00406	0.00500	1	03/27/2023 17:24	WG2030834
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/27/2023 17:24	WG2030834
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/27/2023 17:24	WG2030834
Tetrachloroethene	U		0.000300	0.00100	1	03/27/2023 17:24	WG2030834
Toluene	U		0.000278	0.00100	1	03/27/2023 17:24	WG2030834
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/27/2023 17:24	WG2030834
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/27/2023 17:24	WG2030834
Trichloroethene	U		0.000190	0.00100	1	03/27/2023 17:24	WG2030834
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/27/2023 17:24	WG2030834
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/27/2023 17:24	WG2030834
Vinyl chloride	U		0.000234	0.00100	1	03/27/2023 17:24	WG2030834
o-Xylene	U		0.000174	0.00100	1	03/27/2023 17:24	WG2030834
m&p-Xylene	U		0.000430	0.00200	1	03/27/2023 17:24	WG2030834
Xylenes, Total	U		0.000174	0.00300	1	03/27/2023 17:24	WG2030834
(S) Toluene-d8	*109*			*80.0-120*		*03/27/2023 17:24*	WG2030834
(S) 4-Bromofluorobenzene	*106*			*77.0-126*		*03/27/2023 17:24*	WG2030834
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*03/27/2023 17:24*	WG2030834

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	0.564		0.0247	0.100	1	04/01/2023 00:52	WG2031712
(S) o-Terphenyl	*113*			*31.0-160*		*04/01/2023 00:52*	WG2031712

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	03/25/2023 10:40	WG2029498

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	03/24/2023 14:38	WG2029193
Fluoride	U		0.0640	0.150	1	03/24/2023 14:38	WG2029193
Nitrate	U	Q	0.0480	0.100	1	03/24/2023 14:38	WG2029193
Nitrite	U	Q	0.0420	0.100	1	03/24/2023 14:38	WG2029193
Sulfate	U		0.594	5.00	1	03/24/2023 14:38	WG2029193

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	03/27/2023 13:33	WG2029247
Arsenic,Dissolved	U		0.000180	0.00200	1	03/27/2023 23:50	WG2029230
Barium	U		0.000381	0.00200	1	03/27/2023 13:33	WG2029247
Barium,Dissolved	U		0.000381	0.00200	1	03/27/2023 23:50	WG2029230
Calcium	U		0.0936	1.00	1	03/27/2023 13:33	WG2029247
Chromium	U		0.00124	0.00200	1	03/27/2023 13:33	WG2029247
Chromium,Dissolved	U		0.00124	0.00200	1	03/27/2023 23:50	WG2029230
Iron	U		0.0281	0.100	1	03/27/2023 13:33	WG2029247
Iron,Dissolved	U		0.0281	0.100	1	03/27/2023 23:50	WG2029230
Lead	U		0.000849	0.00200	1	03/27/2023 13:33	WG2029247
Lead,Dissolved	U		0.000849	0.00200	1	03/27/2023 23:50	WG2029230
Manganese	U		0.000704	0.00500	1	03/27/2023 13:33	WG2029247
Manganese,Dissolved	U		0.000704	0.00500	1	03/27/2023 23:50	WG2029230
Potassium	U		0.108	2.00	1	03/27/2023 13:33	WG2029247
Selenium	U		0.000300	0.00200	1	03/27/2023 13:33	WG2029247
Selenium,Dissolved	U		0.000300	0.00200	1	03/27/2023 23:50	WG2029230
Sodium	U		0.376	2.00	1	03/27/2023 13:33	WG2029247

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	0.0666	B J	0.0314	0.100	1	03/26/2023 12:28	WG2030301
(S) a,a,a-Trifluorotoluene(FID)	*96.9*			*78.0-120*		*03/26/2023 12:28*	WG2030301

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	03/27/2023 17:46	WG2030834
Benzene	U		0.0000941	0.00100	1	03/27/2023 17:46	WG2030834
Bromodichloromethane	U		0.000136	0.00100	1	03/27/2023 17:46	WG2030834
Bromoform	U		0.000129	0.00100	1	03/27/2023 17:46	WG2030834
Bromomethane	U		0.000605	0.00500	1	03/27/2023 17:46	WG2030834
n-Butylbenzene	U		0.000157	0.00100	1	03/27/2023 17:46	WG2030834
sec-Butylbenzene	U		0.000125	0.00100	1	03/27/2023 17:46	WG2030834
Carbon disulfide	U		0.0000962	0.00100	1	03/27/2023 17:46	WG2030834
Carbon tetrachloride	U		0.000128	0.00100	1	03/27/2023 17:46	WG2030834
Chlorobenzene	U		0.000116	0.00100	1	03/27/2023 17:46	WG2030834
Chlorodibromomethane	U		0.000140	0.00100	1	03/27/2023 17:46	WG2030834
Chloroethane	U		0.000192	0.00500	1	03/27/2023 17:46	WG2030834

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloroform	0.000161	J	0.000111	0.00500	1	03/27/2023 17:46	WG2030834
Chloromethane	U		0.000960	0.00250	1	03/27/2023 17:46	WG2030834
1,2-Dibromoethane	U		0.000126	0.00100	1	03/27/2023 17:46	WG2030834
1,1-Dichloroethane	U		0.000100	0.00100	1	03/27/2023 17:46	WG2030834
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/27/2023 17:46	WG2030834
1,1-Dichloroethene	U		0.000188	0.00100	1	03/27/2023 17:46	WG2030834
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/27/2023 17:46	WG2030834
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/27/2023 17:46	WG2030834
1,2-Dichloropropane	U		0.000149	0.00100	1	03/27/2023 17:46	WG2030834
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/27/2023 17:46	WG2030834
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/27/2023 17:46	WG2030834
Ethylbenzene	U		0.000137	0.00100	1	03/27/2023 17:46	WG2030834
Isopropylbenzene	U		0.000105	0.00100	1	03/27/2023 17:46	WG2030834
p-Isopropyltoluene	U		0.000120	0.00100	1	03/27/2023 17:46	WG2030834
2-Butanone (MEK)	U	J3	0.00119	0.0100	1	03/27/2023 17:46	WG2030834
2-Hexanone	U		0.000787	0.0100	1	03/27/2023 17:46	WG2030834
Methylene Chloride	U		0.000430	0.00500	1	03/27/2023 17:46	WG2030834
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/27/2023 17:46	WG2030834
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/27/2023 17:46	WG2030834
Naphthalene	U		0.00100	0.00500	1	03/27/2023 17:46	WG2030834
n-Propylbenzene	U		0.0000993	0.00100	1	03/27/2023 17:46	WG2030834
Styrene	U		0.000118	0.00100	1	03/27/2023 17:46	WG2030834
tert-Butyl alcohol	U		0.00406	0.00500	1	03/27/2023 17:46	WG2030834
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/27/2023 17:46	WG2030834
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/27/2023 17:46	WG2030834
Tetrachloroethene	U		0.000300	0.00100	1	03/27/2023 17:46	WG2030834
Toluene	U		0.000278	0.00100	1	03/27/2023 17:46	WG2030834
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/27/2023 17:46	WG2030834
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/27/2023 17:46	WG2030834
Trichloroethene	U		0.000190	0.00100	1	03/27/2023 17:46	WG2030834
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/27/2023 17:46	WG2030834
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/27/2023 17:46	WG2030834
Vinyl chloride	U		0.000234	0.00100	1	03/27/2023 17:46	WG2030834
o-Xylene	U		0.000174	0.00100	1	03/27/2023 17:46	WG2030834
m&p-Xylene	U		0.000430	0.00200	1	03/27/2023 17:46	WG2030834
Xylenes, Total	U		0.000174	0.00300	1	03/27/2023 17:46	WG2030834
(S) Toluene-d8	*107*			*80.0-120*		*03/27/2023 17:46*	WG2030834
(S) 4-Bromofluorobenzene	*102*			*77.0-126*		*03/27/2023 17:46*	WG2030834
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*03/27/2023 17:46*	WG2030834

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	0.0476	J	0.0247	0.100	1	03/31/2023 17:03	WG2031712
(S) o-Terphenyl	*104*			*31.0-160*		*03/31/2023 17:03*	WG2031712

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	03/25/2023 10:40	WG2029498

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	0.606	B J P1	0.379	1.00	1	03/28/2023 15:23	WG2029184
Fluoride	0.0833	B J P1	0.0640	0.150	1	03/28/2023 15:23	WG2029184
Nitrate	0.0886	B J P1 Q	0.0480	0.100	1	03/28/2023 15:23	WG2029184
Nitrite	0.0584	J P1 Q	0.0420	0.100	1	03/28/2023 15:23	WG2029184
Sulfate	0.626	J P1	0.594	5.00	1	03/28/2023 15:23	WG2029184

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	03/27/2023 13:20	WG2029247
Arsenic,Dissolved	U		0.000180	0.00200	1	03/27/2023 23:54	WG2029230
Barium	U		0.000381	0.00200	1	03/27/2023 13:20	WG2029247
Barium,Dissolved	U		0.000381	0.00200	1	03/27/2023 23:54	WG2029230
Calcium	0.103	J	0.0936	1.00	1	03/27/2023 13:20	WG2029247
Chromium	U		0.00124	0.00200	1	03/27/2023 13:20	WG2029247
Chromium,Dissolved	U		0.00124	0.00200	1	03/27/2023 23:54	WG2029230
Iron	U		0.0281	0.100	1	03/27/2023 13:20	WG2029247
Iron,Dissolved	U		0.0281	0.100	1	03/27/2023 23:54	WG2029230
Lead	U		0.000849	0.00200	1	03/27/2023 13:20	WG2029247
Lead,Dissolved	U		0.000849	0.00200	1	03/27/2023 23:54	WG2029230
Manganese	U		0.000704	0.00500	1	03/27/2023 13:20	WG2029247
Manganese,Dissolved	U		0.000704	0.00500	1	03/27/2023 23:54	WG2029230
Potassium	U		0.108	2.00	1	03/27/2023 13:20	WG2029247
Selenium	U		0.000300	0.00200	1	03/27/2023 13:20	WG2029247
Selenium,Dissolved	U		0.000300	0.00200	1	03/27/2023 23:54	WG2029230
Sodium	U		0.376	2.00	1	03/27/2023 13:20	WG2029247

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	0.0663	B J	0.0314	0.100	1	03/26/2023 12:50	WG2030301
(S) a,a,a-Trifluorotoluene(FID)	*96.7*			*78.0-120*		*03/26/2023 12:50*	WG2030301

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	03/27/2023 18:08	WG2030834
Benzene	U		0.0000941	0.00100	1	03/27/2023 18:08	WG2030834
Bromodichloromethane	U		0.000136	0.00100	1	03/27/2023 18:08	WG2030834
Bromoform	U		0.000129	0.00100	1	03/27/2023 18:08	WG2030834
Bromomethane	U		0.000605	0.00500	1	03/27/2023 18:08	WG2030834
n-Butylbenzene	U		0.000157	0.00100	1	03/27/2023 18:08	WG2030834
sec-Butylbenzene	U		0.000125	0.00100	1	03/27/2023 18:08	WG2030834
Carbon disulfide	U		0.0000962	0.00100	1	03/27/2023 18:08	WG2030834
Carbon tetrachloride	U		0.000128	0.00100	1	03/27/2023 18:08	WG2030834
Chlorobenzene	U		0.000116	0.00100	1	03/27/2023 18:08	WG2030834
Chlorodibromomethane	U		0.000140	0.00100	1	03/27/2023 18:08	WG2030834
Chloroethane	U		0.000192	0.00500	1	03/27/2023 18:08	WG2030834

LB-LT-04
Collected date/time: 03/22/23 09:35
L1597529

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloroform	0.000170	J	0.000111	0.00500	1	03/27/2023 18:08	WG2030834
Chloromethane	U		0.000960	0.00250	1	03/27/2023 18:08	WG2030834
1,2-Dibromoethane	U		0.000126	0.00100	1	03/27/2023 18:08	WG2030834
1,1-Dichloroethane	U		0.000100	0.00100	1	03/27/2023 18:08	WG2030834
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/27/2023 18:08	WG2030834
1,1-Dichloroethene	U		0.000188	0.00100	1	03/27/2023 18:08	WG2030834
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/27/2023 18:08	WG2030834
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/27/2023 18:08	WG2030834
1,2-Dichloropropane	U		0.000149	0.00100	1	03/27/2023 18:08	WG2030834
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/27/2023 18:08	WG2030834
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/27/2023 18:08	WG2030834
Ethylbenzene	U		0.000137	0.00100	1	03/27/2023 18:08	WG2030834
Isopropylbenzene	U		0.000105	0.00100	1	03/27/2023 18:08	WG2030834
p-Isopropyltoluene	U		0.000120	0.00100	1	03/27/2023 18:08	WG2030834
2-Butanone (MEK)	U	J3	0.00119	0.0100	1	03/27/2023 18:08	WG2030834
2-Hexanone	U		0.000787	0.0100	1	03/27/2023 18:08	WG2030834
Methylene Chloride	U		0.000430	0.00500	1	03/27/2023 18:08	WG2030834
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/27/2023 18:08	WG2030834
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/27/2023 18:08	WG2030834
Naphthalene	U		0.00100	0.00500	1	03/27/2023 18:08	WG2030834
n-Propylbenzene	U		0.0000993	0.00100	1	03/27/2023 18:08	WG2030834
Styrene	U		0.000118	0.00100	1	03/27/2023 18:08	WG2030834
tert-Butyl alcohol	U		0.00406	0.00500	1	03/27/2023 18:08	WG2030834
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/27/2023 18:08	WG2030834
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/27/2023 18:08	WG2030834
Tetrachloroethene	U		0.000300	0.00100	1	03/27/2023 18:08	WG2030834
Toluene	U		0.000278	0.00100	1	03/27/2023 18:08	WG2030834
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/27/2023 18:08	WG2030834
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/27/2023 18:08	WG2030834
Trichloroethene	U		0.000190	0.00100	1	03/27/2023 18:08	WG2030834
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/27/2023 18:08	WG2030834
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/27/2023 18:08	WG2030834
Vinyl chloride	U		0.000234	0.00100	1	03/27/2023 18:08	WG2030834
o-Xylene	U		0.000174	0.00100	1	03/27/2023 18:08	WG2030834
m&p-Xylene	U		0.000430	0.00200	1	03/27/2023 18:08	WG2030834
Xylenes, Total	U		0.000174	0.00300	1	03/27/2023 18:08	WG2030834
(S) Toluene-d8	*107*			*80.0-120*		*03/27/2023 18:08*	WG2030834
(S) 4-Bromofluorobenzene	*104*			*77.0-126*		*03/27/2023 18:08*	WG2030834
(S) 1,2-Dichloroethane-d4	*97.7*			*70.0-130*		*03/27/2023 18:08*	WG2030834

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	0.0456	J	0.0247	0.100	1	03/31/2023 17:23	WG2031712
(S) o-Terphenyl	*113*			*31.0-160*		*03/31/2023 17:23*	WG2031712

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	03/27/2023 01:12	WG2030397
Benzene	U		0.0000941	0.00100	1	03/27/2023 01:12	WG2030397
Bromodichloromethane	U		0.000136	0.00100	1	03/27/2023 01:12	WG2030397
Bromoform	U		0.000129	0.00100	1	03/27/2023 01:12	WG2030397
Bromomethane	U		0.000605	0.00500	1	03/27/2023 01:12	WG2030397
n-Butylbenzene	U		0.000157	0.00100	1	03/27/2023 01:12	WG2030397
sec-Butylbenzene	U		0.000125	0.00100	1	03/27/2023 01:12	WG2030397
Carbon disulfide	U		0.0000962	0.00100	1	03/27/2023 01:12	WG2030397
Carbon tetrachloride	U		0.000128	0.00100	1	03/27/2023 01:12	WG2030397
Chlorobenzene	U		0.000116	0.00100	1	03/27/2023 01:12	WG2030397
Chlorodibromomethane	U		0.000140	0.00100	1	03/27/2023 01:12	WG2030397
Chloroethane	U		0.000192	0.00500	1	03/27/2023 01:12	WG2030397
Chloroform	U		0.000111	0.00500	1	03/27/2023 01:12	WG2030397
Chloromethane	U		0.000960	0.00250	1	03/27/2023 01:12	WG2030397
1,2-Dibromoethane	U		0.000126	0.00100	1	03/27/2023 01:12	WG2030397
1,1-Dichloroethane	U		0.000100	0.00100	1	03/27/2023 01:12	WG2030397
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/27/2023 01:12	WG2030397
1,1-Dichloroethene	U		0.000188	0.00100	1	03/27/2023 01:12	WG2030397
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/27/2023 01:12	WG2030397
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/27/2023 01:12	WG2030397
1,2-Dichloropropane	U		0.000149	0.00100	1	03/27/2023 01:12	WG2030397
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/27/2023 01:12	WG2030397
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/27/2023 01:12	WG2030397
Ethylbenzene	U		0.000137	0.00100	1	03/27/2023 01:12	WG2030397
Isopropylbenzene	U		0.000105	0.00100	1	03/27/2023 01:12	WG2030397
p-Isopropyltoluene	U		0.000120	0.00100	1	03/27/2023 01:12	WG2030397
2-Butanone (MEK)	U		0.00119	0.0100	1	03/27/2023 01:12	WG2030397
2-Hexanone	U		0.000787	0.0100	1	03/27/2023 01:12	WG2030397
Methylene Chloride	U		0.000430	0.00500	1	03/27/2023 01:12	WG2030397
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/27/2023 01:12	WG2030397
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/27/2023 01:12	WG2030397
Naphthalene	U		0.00100	0.00500	1	03/27/2023 01:12	WG2030397
n-Propylbenzene	U		0.0000993	0.00100	1	03/27/2023 01:12	WG2030397
Styrene	U		0.000118	0.00100	1	03/27/2023 01:12	WG2030397
tert-Butyl alcohol	U		0.00406	0.00500	1	03/27/2023 01:12	WG2030397
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/27/2023 01:12	WG2030397
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/27/2023 01:12	WG2030397
Tetrachloroethene	U		0.000300	0.00100	1	03/27/2023 01:12	WG2030397
Toluene	U		0.000278	0.00100	1	03/27/2023 01:12	WG2030397
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/27/2023 01:12	WG2030397
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/27/2023 01:12	WG2030397
Trichloroethene	U		0.000190	0.00100	1	03/27/2023 01:12	WG2030397
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/27/2023 01:12	WG2030397
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/27/2023 01:12	WG2030397
Vinyl chloride	U		0.000234	0.00100	1	03/27/2023 01:12	WG2030397
o-Xylene	U		0.000174	0.00100	1	03/27/2023 01:12	WG2030397
m&p-Xylene	U		0.000430	0.00200	1	03/27/2023 01:12	WG2030397
Xylenes, Total	U		0.000174	0.00300	1	03/27/2023 01:12	WG2030397
(S) Toluene-d8	*109*			*80.0-120*		*03/27/2023 01:12*	WG2030397
(S) 4-Bromofluorobenzene	*101*			*77.0-126*		*03/27/2023 01:12*	WG2030397
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*03/27/2023 01:12*	WG2030397

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3080		100	1	03/25/2023 10:40	WG2029498

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1180		7.58	20.0	20	03/29/2023 13:40	WG2031959
Fluoride	3.50		1.28	3.00	20	03/29/2023 13:40	WG2031959
Nitrate	U	Q	0.960	2.00	20	03/29/2023 13:40	WG2031959
Nitrite	U	Q	0.840	2.00	20	03/29/2023 13:40	WG2031959
Sulfate	1930		11.9	100	20	03/29/2023 13:40	WG2031959

Sample Narrative:

L1597529-12 WG2031959: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0225		0.000180	0.00200	1	03/27/2023 13:37	WG2029247
Arsenic,Dissolved	0.0152		0.000180	0.00200	1	03/27/2023 23:57	WG2029230
Barium	0.0126		0.000381	0.00200	1	03/27/2023 13:37	WG2029247
Barium,Dissolved	0.0130		0.000381	0.00200	1	03/27/2023 23:57	WG2029230
Calcium	423		0.0936	1.00	1	03/27/2023 13:37	WG2029247
Chromium	U		0.00124	0.00200	1	03/27/2023 13:37	WG2029247
Chromium,Dissolved	U		0.00124	0.00200	1	03/27/2023 23:57	WG2029230
Iron	2.95		0.0281	0.100	1	03/27/2023 13:37	WG2029247
Iron,Dissolved	1.17		0.0281	0.100	1	03/27/2023 23:57	WG2029230
Lead	U		0.000849	0.00200	1	03/27/2023 13:37	WG2029247
Lead,Dissolved	U		0.000849	0.00200	1	03/27/2023 23:57	WG2029230
Manganese	0.721		0.000704	0.00500	1	03/27/2023 13:37	WG2029247
Manganese,Dissolved	0.709		0.000704	0.00500	1	03/27/2023 23:57	WG2029230
Potassium	23.1		0.108	2.00	1	03/27/2023 13:37	WG2029247
Selenium	0.00174	J	0.000300	0.00200	1	03/27/2023 13:37	WG2029247
Selenium,Dissolved	0.00102	J	0.000300	0.00200	1	03/27/2023 23:57	WG2029230
Sodium	927		0.376	2.00	1	03/27/2023 13:37	WG2029247

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	1.69	B J	0.628	2.00	20	03/26/2023 15:03	WG2030301
(S) a,a,a-Trifluorotoluene(FID)	*96.9*			*78.0-120*		*03/26/2023 15:03*	WG2030301

Sample Narrative:

L1597529-12 WG2030301: Elevated RL due to foamy matrix.

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	03/27/2023 07:04	WG2030397
Benzene	U		0.0000941	0.00100	1	03/27/2023 07:04	WG2030397
Bromodichloromethane	U		0.000136	0.00100	1	03/27/2023 07:04	WG2030397
Bromoform	U		0.000129	0.00100	1	03/27/2023 07:04	WG2030397
Bromomethane	U		0.000605	0.00500	1	03/27/2023 07:04	WG2030397
n-Butylbenzene	U		0.000157	0.00100	1	03/27/2023 07:04	WG2030397

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	U		0.000125	0.00100	1	03/27/2023 07:04	WG2030397
Carbon disulfide	U		0.0000962	0.00100	1	03/27/2023 07:04	WG2030397
Carbon tetrachloride	U		0.000128	0.00100	1	03/27/2023 07:04	WG2030397
Chlorobenzene	U		0.000116	0.00100	1	03/27/2023 07:04	WG2030397
Chlorodibromomethane	U		0.000140	0.00100	1	03/27/2023 07:04	WG2030397
Chloroethane	U		0.000192	0.00500	1	03/27/2023 07:04	WG2030397
Chloroform	U		0.000111	0.00500	1	03/27/2023 07:04	WG2030397
Chloromethane	U		0.000960	0.00250	1	03/27/2023 07:04	WG2030397
1,2-Dibromoethane	U		0.000126	0.00100	1	03/27/2023 07:04	WG2030397
1,1-Dichloroethane	U		0.000100	0.00100	1	03/27/2023 07:04	WG2030397
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/27/2023 07:04	WG2030397
1,1-Dichloroethene	U		0.000188	0.00100	1	03/27/2023 07:04	WG2030397
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/27/2023 07:04	WG2030397
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/27/2023 07:04	WG2030397
1,2-Dichloropropane	U		0.000149	0.00100	1	03/27/2023 07:04	WG2030397
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/27/2023 07:04	WG2030397
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/27/2023 07:04	WG2030397
Ethylbenzene	U		0.000137	0.00100	1	03/27/2023 07:04	WG2030397
Isopropylbenzene	0.000630	J	0.000105	0.00100	1	03/27/2023 07:04	WG2030397
p-Isopropyltoluene	U		0.000120	0.00100	1	03/27/2023 07:04	WG2030397
2-Butanone (MEK)	U		0.00119	0.0100	1	03/27/2023 07:04	WG2030397
2-Hexanone	U		0.000787	0.0100	1	03/27/2023 07:04	WG2030397
Methylene Chloride	U		0.000430	0.00500	1	03/27/2023 07:04	WG2030397
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/27/2023 07:04	WG2030397
Methyl tert-butyl ether	0.00361		0.000101	0.00100	1	03/27/2023 07:04	WG2030397
Naphthalene	0.00138	J	0.00100	0.00500	1	03/27/2023 07:04	WG2030397
n-Propylbenzene	U		0.0000993	0.00100	1	03/27/2023 07:04	WG2030397
Styrene	U		0.000118	0.00100	1	03/27/2023 07:04	WG2030397
tert-Butyl alcohol	0.0403		0.00406	0.00500	1	03/27/2023 07:04	WG2030397
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/27/2023 07:04	WG2030397
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/27/2023 07:04	WG2030397
Tetrachloroethene	U		0.000300	0.00100	1	03/27/2023 07:04	WG2030397
Toluene	U		0.000278	0.00100	1	03/27/2023 07:04	WG2030397
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/27/2023 07:04	WG2030397
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/27/2023 07:04	WG2030397
Trichloroethene	U		0.000190	0.00100	1	03/27/2023 07:04	WG2030397
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/27/2023 07:04	WG2030397
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/27/2023 07:04	WG2030397
Vinyl chloride	U		0.000234	0.00100	1	03/27/2023 07:04	WG2030397
o-Xylene	U		0.000174	0.00100	1	03/27/2023 07:04	WG2030397
m&p-Xylene	U		0.000430	0.00200	1	03/27/2023 07:04	WG2030397
Xylenes, Total	U		0.000174	0.00300	1	03/27/2023 07:04	WG2030397
(S) Toluene-d8	*115*			*80.0-120*		*03/27/2023 07:04*	WG2030397
(S) 4-Bromofluorobenzene	*105*			*77.0-126*		*03/27/2023 07:04*	WG2030397
(S) 1,2-Dichloroethane-d4	*86.3*			*70.0-130*		*03/27/2023 07:04*	WG2030397

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	7.16		0.123	0.500	5	03/31/2023 18:05	WG2031712
(S) o-Terphenyl	*128*			*31.0-160*		*03/31/2023 18:05*	WG2031712

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Collected date/time: 03/22/23 14:05
L1597529

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	0.000564		0.0000447	0.000400	1	03/29/2023 17:45	WG2030234
(S) Nitrobenzene-d5	*33.0*			*10.0-120*		*03/29/2023 17:45*	WG2030234

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	5000		200	1	03/25/2023 10:40	WG2029498

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	459		3.79	10.0	10	03/29/2023 14:06	WG2031959
Fluoride	11.5		0.640	1.50	10	03/29/2023 14:06	WG2031959
Nitrate	U	Q	0.480	1.00	10	03/29/2023 14:06	WG2031959
Nitrite	U	Q	0.420	1.00	10	03/29/2023 14:06	WG2031959
Sulfate	2840		59.4	500	100	03/29/2023 16:15	WG2031959

Sample Narrative:

L1597529-13 WG2031959: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0261		0.000180	0.00200	1	03/27/2023 14:43	WG2029247
Arsenic,Dissolved	0.0257		0.000180	0.00200	1	03/28/2023 10:28	WG2029230
Barium	0.0157		0.000381	0.00200	1	03/27/2023 14:43	WG2029247
Barium,Dissolved	0.0166		0.000381	0.00200	1	03/28/2023 10:28	WG2029230
Calcium	444		0.0936	1.00	1	03/27/2023 14:43	WG2029247
Chromium	0.0296		0.00124	0.00200	1	03/27/2023 14:43	WG2029247
Chromium,Dissolved	0.0260		0.00124	0.00200	1	03/28/2023 10:28	WG2029230
Iron	1.37		0.0281	0.100	1	03/27/2023 14:43	WG2029247
Iron,Dissolved	1.50		0.0281	0.100	1	03/28/2023 10:28	WG2029230
Lead	U		0.000849	0.00200	1	03/27/2023 14:43	WG2029247
Lead,Dissolved	U		0.000849	0.00200	1	03/28/2023 10:28	WG2029230
Manganese	0.576		0.000704	0.00500	1	03/27/2023 14:43	WG2029247
Manganese,Dissolved	0.590		0.000704	0.00500	1	03/28/2023 10:28	WG2029230
Potassium	37.5		0.108	2.00	1	03/27/2023 14:43	WG2029247
Selenium	0.0128		0.000300	0.00200	1	03/27/2023 14:43	WG2029247
Selenium,Dissolved	0.00967		0.000300	0.00200	1	03/28/2023 10:28	WG2029230
Sodium	778		0.376	2.00	1	03/27/2023 14:43	WG2029247

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	1.73	B J	0.785	2.50	25	03/26/2023 15:25	WG2030301
(S) a,a,a-Trifluorotoluene(FID)	*96.8*			*78.0-120*		*03/26/2023 15:25*	WG2030301

Sample Narrative:

L1597529-13 WG2030301: Elevated RL due to foamy matrix.

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	03/27/2023 18:30	WG2030834
Benzene	U		0.000941	0.0100	10	03/27/2023 18:30	WG2030834
Bromodichloromethane	U		0.00136	0.0100	10	03/27/2023 18:30	WG2030834
Bromoform	U		0.00129	0.0100	10	03/27/2023 18:30	WG2030834
Bromomethane	U		0.00605	0.0500	10	03/27/2023 18:30	WG2030834
n-Butylbenzene	U		0.00157	0.0100	10	03/27/2023 18:30	WG2030834

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Collected date/time: 03/22/23 13:35
L1597529

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	U		0.00125	0.0100	10	03/27/2023 18:30	WG2030834
Carbon disulfide	U		0.000962	0.0100	10	03/27/2023 18:30	WG2030834
Carbon tetrachloride	U		0.00128	0.0100	10	03/27/2023 18:30	WG2030834
Chlorobenzene	U		0.00116	0.0100	10	03/27/2023 18:30	WG2030834
Chlorodibromomethane	U		0.00140	0.0100	10	03/27/2023 18:30	WG2030834
Chloroethane	U		0.00192	0.0500	10	03/27/2023 18:30	WG2030834
Chloroform	U		0.00111	0.0500	10	03/27/2023 18:30	WG2030834
Chloromethane	U		0.00960	0.0250	10	03/27/2023 18:30	WG2030834
1,2-Dibromoethane	U		0.00126	0.0100	10	03/27/2023 18:30	WG2030834
1,1-Dichloroethane	U		0.00100	0.0100	10	03/27/2023 18:30	WG2030834
1,2-Dichloroethane	U		0.000819	0.0100	10	03/27/2023 18:30	WG2030834
1,1-Dichloroethene	U		0.00188	0.0100	10	03/27/2023 18:30	WG2030834
cis-1,2-Dichloroethene	U		0.00126	0.0100	10	03/27/2023 18:30	WG2030834
trans-1,2-Dichloroethene	U		0.00149	0.0100	10	03/27/2023 18:30	WG2030834
1,2-Dichloropropane	U		0.00149	0.0100	10	03/27/2023 18:30	WG2030834
cis-1,3-Dichloropropene	U		0.00111	0.0100	10	03/27/2023 18:30	WG2030834
trans-1,3-Dichloropropene	U		0.00118	0.0100	10	03/27/2023 18:30	WG2030834
Ethylbenzene	U		0.00137	0.0100	10	03/27/2023 18:30	WG2030834
Isopropylbenzene	U		0.00105	0.0100	10	03/27/2023 18:30	WG2030834
p-Isopropyltoluene	U		0.00120	0.0100	10	03/27/2023 18:30	WG2030834
2-Butanone (MEK)	U	J3	0.0119	0.100	10	03/27/2023 18:30	WG2030834
2-Hexanone	U		0.00787	0.100	10	03/27/2023 18:30	WG2030834
Methylene Chloride	U		0.00430	0.0500	10	03/27/2023 18:30	WG2030834
4-Methyl-2-pentanone (MIBK)	U		0.00478	0.100	10	03/27/2023 18:30	WG2030834
Methyl tert-butyl ether	U		0.00101	0.0100	10	03/27/2023 18:30	WG2030834
Naphthalene	U		0.0100	0.0500	10	03/27/2023 18:30	WG2030834
n-Propylbenzene	U		0.000993	0.0100	10	03/27/2023 18:30	WG2030834
Styrene	U		0.00118	0.0100	10	03/27/2023 18:30	WG2030834
tert-Butyl alcohol	U		0.0406	0.0500	10	03/27/2023 18:30	WG2030834
1,1,1,2-Tetrachloroethane	U		0.00147	0.0100	10	03/27/2023 18:30	WG2030834
1,1,2,2-Tetrachloroethane	U		0.00133	0.0100	10	03/27/2023 18:30	WG2030834
Tetrachloroethene	U		0.00300	0.0100	10	03/27/2023 18:30	WG2030834
Toluene	U		0.00278	0.0100	10	03/27/2023 18:30	WG2030834
1,1,1-Trichloroethane	U		0.00149	0.0100	10	03/27/2023 18:30	WG2030834
1,1,2-Trichloroethane	U		0.00158	0.0100	10	03/27/2023 18:30	WG2030834
Trichloroethene	U		0.00190	0.0100	10	03/27/2023 18:30	WG2030834
1,2,4-Trimethylbenzene	U		0.00322	0.0100	10	03/27/2023 18:30	WG2030834
1,3,5-Trimethylbenzene	U		0.00104	0.0100	10	03/27/2023 18:30	WG2030834
Vinyl chloride	U		0.00234	0.0100	10	03/27/2023 18:30	WG2030834
o-Xylene	U		0.00174	0.0100	10	03/27/2023 18:30	WG2030834
m&p-Xylene	U		0.00430	0.0200	10	03/27/2023 18:30	WG2030834
Xylenes, Total	U		0.00174	0.0300	10	03/27/2023 18:30	WG2030834
(S) Toluene-d8	*106*			*80.0-120*		*03/27/2023 18:30*	WG2030834
(S) 4-Bromofluorobenzene	*104*			*77.0-126*		*03/27/2023 18:30*	WG2030834
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*03/27/2023 18:30*	WG2030834

Sample Narrative:

L1597529-13 WG2030834: 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	40.9		0.494	2.00	20	03/31/2023 01:31	WG2031808
(S) o-Terphenyl	*0.000*	J7		*31.0-160*		*03/31/2023 01:31*	WG2031808

Sample Narrative:

MW-77
Collected date/time: 03/22/23 13:35
L1597529

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l	mg/l		date / time	

L1597529-13 WG2031808: Dilution and surrogate failure due to matrix interference.

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	2740		200	1	03/25/2023 10:40	WG2029498

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	96.5		3.79	10.0	10	03/24/2023 17:25	WG2029193
Fluoride	18.4		0.640	1.50	10	03/24/2023 17:25	WG2029193
Nitrate	1.60	Q	0.480	1.00	10	03/24/2023 17:25	WG2029193
Nitrite	U	Q	0.420	1.00	10	03/24/2023 17:25	WG2029193
Sulfate	1460		5.94	50.0	10	03/24/2023 17:25	WG2029193

Sample Narrative:

L1597529-14 WG2029193: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00747		0.000180	0.00200	1	03/27/2023 14:46	WG2029247
Arsenic,Dissolved	0.00668		0.000180	0.00200	1	03/28/2023 10:31	WG2029230
Barium	0.0441		0.000381	0.00200	1	03/27/2023 14:46	WG2029247
Barium,Dissolved	0.0454		0.000381	0.00200	1	03/28/2023 10:31	WG2029230
Calcium	301		0.0936	1.00	1	03/27/2023 14:46	WG2029247
Chromium	0.109		0.00124	0.00200	1	03/27/2023 14:46	WG2029247
Chromium,Dissolved	0.0994		0.00124	0.00200	1	03/28/2023 10:31	WG2029230
Iron	0.0969	J	0.0281	0.100	1	03/27/2023 14:46	WG2029247
Iron,Dissolved	0.0379	B J	0.0281	0.100	1	03/28/2023 10:31	WG2029230
Lead	U		0.000849	0.00200	1	03/27/2023 14:46	WG2029247
Lead,Dissolved	0.00120	J	0.000849	0.00200	1	03/28/2023 10:31	WG2029230
Manganese	0.180		0.000704	0.00500	1	03/27/2023 14:46	WG2029247
Manganese,Dissolved	0.171		0.000704	0.00500	1	03/28/2023 10:31	WG2029230
Potassium	13.0		0.108	2.00	1	03/27/2023 14:46	WG2029247
Selenium	0.0103		0.000300	0.00200	1	03/27/2023 14:46	WG2029247
Selenium,Dissolved	0.00988		0.000300	0.00200	1	03/28/2023 10:31	WG2029230
Sodium	147		0.376	2.00	1	03/27/2023 14:46	WG2029247

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		0.628	2.00	20	03/26/2023 15:48	WG2030301
(S) a,a,a-Trifluorotoluene(FID)	*96.8*			*78.0-120*		*03/26/2023 15:48*	WG2030301

Sample Narrative:

L1597529-14 WG2030301: Elevated RL due to foamy matrix.

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	03/27/2023 18:51	WG2030834
Benzene	U		0.000941	0.0100	10	03/27/2023 18:51	WG2030834
Bromodichloromethane	U		0.00136	0.0100	10	03/27/2023 18:51	WG2030834
Bromoform	U		0.00129	0.0100	10	03/27/2023 18:51	WG2030834
Bromomethane	U		0.00605	0.0500	10	03/27/2023 18:51	WG2030834
n-Butylbenzene	U		0.00157	0.0100	10	03/27/2023 18:51	WG2030834

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	U		0.00125	0.0100	10	03/27/2023 18:51	WG2030834
Carbon disulfide	U		0.000962	0.0100	10	03/27/2023 18:51	WG2030834
Carbon tetrachloride	U		0.00128	0.0100	10	03/27/2023 18:51	WG2030834
Chlorobenzene	U		0.00116	0.0100	10	03/27/2023 18:51	WG2030834
Chlorodibromomethane	U		0.00140	0.0100	10	03/27/2023 18:51	WG2030834
Chloroethane	U		0.00192	0.0500	10	03/27/2023 18:51	WG2030834
Chloroform	U		0.00111	0.0500	10	03/27/2023 18:51	WG2030834
Chloromethane	U		0.00960	0.0250	10	03/27/2023 18:51	WG2030834
1,2-Dibromoethane	U		0.00126	0.0100	10	03/27/2023 18:51	WG2030834
1,1-Dichloroethane	U		0.00100	0.0100	10	03/27/2023 18:51	WG2030834
1,2-Dichloroethane	U		0.000819	0.0100	10	03/27/2023 18:51	WG2030834
1,1-Dichloroethene	U		0.00188	0.0100	10	03/27/2023 18:51	WG2030834
cis-1,2-Dichloroethene	U		0.00126	0.0100	10	03/27/2023 18:51	WG2030834
trans-1,2-Dichloroethene	U		0.00149	0.0100	10	03/27/2023 18:51	WG2030834
1,2-Dichloropropane	U		0.00149	0.0100	10	03/27/2023 18:51	WG2030834
cis-1,3-Dichloropropene	U		0.00111	0.0100	10	03/27/2023 18:51	WG2030834
trans-1,3-Dichloropropene	U		0.00118	0.0100	10	03/27/2023 18:51	WG2030834
Ethylbenzene	U		0.00137	0.0100	10	03/27/2023 18:51	WG2030834
Isopropylbenzene	U		0.00105	0.0100	10	03/27/2023 18:51	WG2030834
p-Isopropyltoluene	U		0.00120	0.0100	10	03/27/2023 18:51	WG2030834
2-Butanone (MEK)	U	J3	0.0119	0.100	10	03/27/2023 18:51	WG2030834
2-Hexanone	U		0.00787	0.100	10	03/27/2023 18:51	WG2030834
Methylene Chloride	U		0.00430	0.0500	10	03/27/2023 18:51	WG2030834
4-Methyl-2-pentanone (MIBK)	U		0.00478	0.100	10	03/27/2023 18:51	WG2030834
Methyl tert-butyl ether	U		0.00101	0.0100	10	03/27/2023 18:51	WG2030834
Naphthalene	U		0.0100	0.0500	10	03/27/2023 18:51	WG2030834
n-Propylbenzene	U		0.000993	0.0100	10	03/27/2023 18:51	WG2030834
Styrene	U		0.00118	0.0100	10	03/27/2023 18:51	WG2030834
tert-Butyl alcohol	U		0.0406	0.0500	10	03/27/2023 18:51	WG2030834
1,1,1,2-Tetrachloroethane	U		0.00147	0.0100	10	03/27/2023 18:51	WG2030834
1,1,2,2-Tetrachloroethane	U		0.00133	0.0100	10	03/27/2023 18:51	WG2030834
Tetrachloroethene	U		0.00300	0.0100	10	03/27/2023 18:51	WG2030834
Toluene	U		0.00278	0.0100	10	03/27/2023 18:51	WG2030834
1,1,1-Trichloroethane	U		0.00149	0.0100	10	03/27/2023 18:51	WG2030834
1,1,2-Trichloroethane	U		0.00158	0.0100	10	03/27/2023 18:51	WG2030834
Trichloroethene	U		0.00190	0.0100	10	03/27/2023 18:51	WG2030834
1,2,4-Trimethylbenzene	U		0.00322	0.0100	10	03/27/2023 18:51	WG2030834
1,3,5-Trimethylbenzene	U		0.00104	0.0100	10	03/27/2023 18:51	WG2030834
Vinyl chloride	U		0.00234	0.0100	10	03/27/2023 18:51	WG2030834
o-Xylene	U		0.00174	0.0100	10	03/27/2023 18:51	WG2030834
m&p-Xylene	U		0.00430	0.0200	10	03/27/2023 18:51	WG2030834
Xylenes, Total	U		0.00174	0.0300	10	03/27/2023 18:51	WG2030834
(S) Toluene-d8	*105*			*80.0-120*		*03/27/2023 18:51*	WG2030834
(S) 4-Bromofluorobenzene	*107*			*77.0-126*		*03/27/2023 18:51*	WG2030834
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*03/27/2023 18:51*	WG2030834

Sample Narrative:

L1597529-14 WG2030834: 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	29.1		0.494	2.00	20	03/31/2023 01:53	WG2031808
(S) o-Terphenyl	*0.000*	J7		*31.0-160*		*03/31/2023 01:53*	WG2031808

Sample Narrative:

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	

L1597529-14 WG2031808: Dilution and surrogate failure due to matrix interference.

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	03/29/2023 18:05	WG2030234
(S) Nitrobenzene-d5	*40.3*			*10.0-120*		*03/29/2023 18:05*	WG2030234

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	4680		200	1	03/25/2023 10:40	WG2029498

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	1450		7.58	20.0	20	03/29/2023 16:28	WG2031959
Fluoride	7.64		1.28	3.00	20	03/29/2023 16:28	WG2031959
Nitrate	U	Q	0.960	2.00	20	03/29/2023 16:28	WG2031959
Nitrite	U	Q	0.840	2.00	20	03/29/2023 16:28	WG2031959
Sulfate	1910		11.9	100	20	03/29/2023 16:28	WG2031959

Sample Narrative:

L1597529-15 WG2031959: Dilution due to matrix.

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	03/27/2023 13:56	WG2029247
Arsenic,Dissolved	0.101		0.000180	0.00200	1	03/28/2023 00:07	WG2029230
Barium	0.0146		0.000381	0.00200	1	03/27/2023 13:56	WG2029247
Barium,Dissolved	0.0148		0.000381	0.00200	1	03/28/2023 00:07	WG2029230
Calcium	361		0.0936	1.00	1	03/27/2023 13:56	WG2029247
Chromium	0.00162	J	0.00124	0.00200	1	03/27/2023 13:56	WG2029247
Chromium,Dissolved	0.00205		0.00124	0.00200	1	03/28/2023 00:07	WG2029230
Iron	0.252		0.0281	0.100	1	03/27/2023 13:56	WG2029247
Iron,Dissolved	0.301	B	0.0281	0.100	1	03/28/2023 00:07	WG2029230
Lead	U		0.000849	0.00200	1	03/27/2023 13:56	WG2029247
Lead,Dissolved	U		0.000849	0.00200	1	03/28/2023 00:07	WG2029230
Manganese	1.25		0.000704	0.00500	1	03/27/2023 13:56	WG2029247
Manganese,Dissolved	1.20		0.000704	0.00500	1	03/28/2023 00:07	WG2029230
Potassium	17.6		0.108	2.00	1	03/27/2023 13:56	WG2029247
Selenium	0.00293		0.000300	0.00200	1	03/27/2023 13:56	WG2029247
Selenium,Dissolved	0.00243		0.000300	0.00200	1	03/28/2023 00:07	WG2029230
Sodium	1390		1.88	10.0	5	03/27/2023 15:16	WG2029247

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	2.39	B	0.628	2.00	20	03/26/2023 16:10	WG2030301
(S) a,a,a-Trifluorotoluene(FID)	*96.7*			*78.0-120*		*03/26/2023 16:10*	WG2030301

Sample Narrative:

L1597529-15 WG2030301: Elevated RL due to foamy matrix.

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	03/27/2023 07:27	WG2030397
Benzene	0.000126	J	0.0000941	0.00100	1	03/27/2023 07:27	WG2030397
Bromodichloromethane	U		0.000136	0.00100	1	03/27/2023 07:27	WG2030397
Bromoform	U		0.000129	0.00100	1	03/27/2023 07:27	WG2030397
Bromomethane	U		0.000605	0.00500	1	03/27/2023 07:27	WG2030397
n-Butylbenzene	U		0.000157	0.00100	1	03/27/2023 07:27	WG2030397

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	0.000596	J	0.000125	0.00100	1	03/27/2023 07:27	WG2030397
Carbon disulfide	U		0.0000962	0.00100	1	03/27/2023 07:27	WG2030397
Carbon tetrachloride	U		0.000128	0.00100	1	03/27/2023 07:27	WG2030397
Chlorobenzene	U		0.000116	0.00100	1	03/27/2023 07:27	WG2030397
Chlorodibromomethane	U		0.000140	0.00100	1	03/27/2023 07:27	WG2030397
Chloroethane	U		0.000192	0.00500	1	03/27/2023 07:27	WG2030397
Chloroform	U		0.000111	0.00500	1	03/27/2023 07:27	WG2030397
Chloromethane	U		0.000960	0.00250	1	03/27/2023 07:27	WG2030397
1,2-Dibromoethane	U		0.000126	0.00100	1	03/27/2023 07:27	WG2030397
1,1-Dichloroethane	U		0.000100	0.00100	1	03/27/2023 07:27	WG2030397
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/27/2023 07:27	WG2030397
1,1-Dichloroethene	U		0.000188	0.00100	1	03/27/2023 07:27	WG2030397
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/27/2023 07:27	WG2030397
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/27/2023 07:27	WG2030397
1,2-Dichloropropane	U		0.000149	0.00100	1	03/27/2023 07:27	WG2030397
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/27/2023 07:27	WG2030397
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/27/2023 07:27	WG2030397
Ethylbenzene	U		0.000137	0.00100	1	03/27/2023 07:27	WG2030397
Isopropylbenzene	0.00279		0.000105	0.00100	1	03/27/2023 07:27	WG2030397
p-Isopropyltoluene	U		0.000120	0.00100	1	03/27/2023 07:27	WG2030397
2-Butanone (MEK)	U		0.00119	0.0100	1	03/27/2023 07:27	WG2030397
2-Hexanone	U		0.000787	0.0100	1	03/27/2023 07:27	WG2030397
Methylene Chloride	U		0.000430	0.00500	1	03/27/2023 07:27	WG2030397
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/27/2023 07:27	WG2030397
Methyl tert-butyl ether	0.00380		0.000101	0.00100	1	03/27/2023 07:27	WG2030397
Naphthalene	U		0.00100	0.00500	1	03/27/2023 07:27	WG2030397
n-Propylbenzene	0.000527	J	0.0000993	0.00100	1	03/27/2023 07:27	WG2030397
Styrene	U		0.000118	0.00100	1	03/27/2023 07:27	WG2030397
tert-Butyl alcohol	0.0158		0.00406	0.00500	1	03/27/2023 07:27	WG2030397
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/27/2023 07:27	WG2030397
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/27/2023 07:27	WG2030397
Tetrachloroethene	U		0.000300	0.00100	1	03/27/2023 07:27	WG2030397
Toluene	U		0.000278	0.00100	1	03/27/2023 07:27	WG2030397
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/27/2023 07:27	WG2030397
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/27/2023 07:27	WG2030397
Trichloroethene	U		0.000190	0.00100	1	03/27/2023 07:27	WG2030397
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/27/2023 07:27	WG2030397
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/27/2023 07:27	WG2030397
Vinyl chloride	U		0.000234	0.00100	1	03/27/2023 07:27	WG2030397
o-Xylene	U		0.000174	0.00100	1	03/27/2023 07:27	WG2030397
m&p-Xylene	U		0.000430	0.00200	1	03/27/2023 07:27	WG2030397
Xylenes, Total	U		0.000174	0.00300	1	03/27/2023 07:27	WG2030397
(S) Toluene-d8	*118*			*80.0-120*		*03/27/2023 07:27*	WG2030397
(S) 4-Bromofluorobenzene	*115*			*77.0-126*		*03/27/2023 07:27*	WG2030397
(S) 1,2-Dichloroethane-d4	*80.9*			*70.0-130*		*03/27/2023 07:27*	WG2030397

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	12.9		0.0494	0.200	2	03/31/2023 01:09	WG2031808
(S) o-Terphenyl	*109*			*31.0-160*		*03/31/2023 01:09*	WG2031808

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	5500		100	1	03/29/2023 11:30	WG2031850

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	132		3.79	10.0	10	03/29/2023 16:53	WG2031959
Fluoride	6.51		0.640	1.50	10	03/29/2023 16:53	WG2031959
Nitrate	6.29	Q	0.480	1.00	10	03/29/2023 16:53	WG2031959
Nitrite	U	Q	0.420	1.00	10	03/29/2023 16:53	WG2031959
Sulfate	3900		59.4	500	100	03/29/2023 17:06	WG2031959

Sample Narrative:

L1597529-16 WG2031959: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0503		0.000180	0.00200	1	03/27/2023 14:50	WG2029247
Arsenic,Dissolved	0.0488		0.000180	0.00200	1	03/28/2023 10:35	WG2029230
Barium	0.0205		0.000381	0.00200	1	03/27/2023 14:50	WG2029247
Barium,Dissolved	0.0203		0.000381	0.00200	1	03/28/2023 10:35	WG2029230
Calcium	508		0.0936	1.00	1	03/27/2023 14:50	WG2029247
Chromium	0.00601		0.00124	0.00200	1	03/27/2023 14:50	WG2029247
Chromium,Dissolved	0.00173	J	0.00124	0.00200	1	03/28/2023 10:35	WG2029230
Iron	0.423		0.0281	0.100	1	03/27/2023 14:50	WG2029247
Iron,Dissolved	U		0.0281	0.100	1	03/28/2023 10:35	WG2029230
Lead	0.00120	J	0.000849	0.00200	1	03/27/2023 14:50	WG2029247
Lead,Dissolved	U		0.000849	0.00200	1	03/28/2023 10:35	WG2029230
Manganese	0.426		0.000704	0.00500	1	03/27/2023 14:50	WG2029247
Manganese,Dissolved	0.414		0.000704	0.00500	1	03/28/2023 10:35	WG2029230
Potassium	53.0		0.108	2.00	1	03/27/2023 14:50	WG2029247
Selenium	0.0107		0.000300	0.00200	1	03/27/2023 14:50	WG2029247
Selenium,Dissolved	0.00875		0.000300	0.00200	1	03/28/2023 10:35	WG2029230
Sodium	259		0.376	2.00	1	03/27/2023 14:50	WG2029247

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	0.683	B J	0.628	2.00	20	03/26/2023 16:31	WG2030301
(S) a,a,a-Trifluorotoluene(FID)	*96.9*			*78.0-120*		*03/26/2023 16:31*	WG2030301

Sample Narrative:

L1597529-16 WG2030301: Elevated RL due to foamy matrix.

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	03/27/2023 07:51	WG2030397
Benzene	U		0.0000941	0.00100	1	03/27/2023 07:51	WG2030397
Bromodichloromethane	U		0.000136	0.00100	1	03/27/2023 07:51	WG2030397
Bromoform	U		0.000129	0.00100	1	03/27/2023 07:51	WG2030397
Bromomethane	U		0.000605	0.00500	1	03/27/2023 07:51	WG2030397
n-Butylbenzene	U		0.000157	0.00100	1	03/27/2023 07:51	WG2030397

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	U		0.000125	0.00100	1	03/27/2023 07:51	WG2030397
Carbon disulfide	U		0.0000962	0.00100	1	03/27/2023 07:51	WG2030397
Carbon tetrachloride	U		0.000128	0.00100	1	03/27/2023 07:51	WG2030397
Chlorobenzene	U		0.000116	0.00100	1	03/27/2023 07:51	WG2030397
Chlorodibromomethane	U		0.000140	0.00100	1	03/27/2023 07:51	WG2030397
Chloroethane	U		0.000192	0.00500	1	03/27/2023 07:51	WG2030397
Chloroform	U		0.000111	0.00500	1	03/27/2023 07:51	WG2030397
Chloromethane	U		0.000960	0.00250	1	03/27/2023 07:51	WG2030397
1,2-Dibromoethane	U		0.000126	0.00100	1	03/27/2023 07:51	WG2030397
1,1-Dichloroethane	U		0.000100	0.00100	1	03/27/2023 07:51	WG2030397
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/27/2023 07:51	WG2030397
1,1-Dichloroethene	U		0.000188	0.00100	1	03/27/2023 07:51	WG2030397
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/27/2023 07:51	WG2030397
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/27/2023 07:51	WG2030397
1,2-Dichloropropane	U		0.000149	0.00100	1	03/27/2023 07:51	WG2030397
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/27/2023 07:51	WG2030397
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/27/2023 07:51	WG2030397
Ethylbenzene	U		0.000137	0.00100	1	03/27/2023 07:51	WG2030397
Isopropylbenzene	0.000294	J	0.000105	0.00100	1	03/27/2023 07:51	WG2030397
p-Isopropyltoluene	U		0.000120	0.00100	1	03/27/2023 07:51	WG2030397
2-Butanone (MEK)	U		0.00119	0.0100	1	03/27/2023 07:51	WG2030397
2-Hexanone	U		0.000787	0.0100	1	03/27/2023 07:51	WG2030397
Methylene Chloride	U		0.000430	0.00500	1	03/27/2023 07:51	WG2030397
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/27/2023 07:51	WG2030397
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/27/2023 07:51	WG2030397
Naphthalene	U		0.00100	0.00500	1	03/27/2023 07:51	WG2030397
n-Propylbenzene	U		0.0000993	0.00100	1	03/27/2023 07:51	WG2030397
Styrene	U		0.000118	0.00100	1	03/27/2023 07:51	WG2030397
tert-Butyl alcohol	U		0.00406	0.00500	1	03/27/2023 07:51	WG2030397
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/27/2023 07:51	WG2030397
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/27/2023 07:51	WG2030397
Tetrachloroethene	U		0.000300	0.00100	1	03/27/2023 07:51	WG2030397
Toluene	U		0.000278	0.00100	1	03/27/2023 07:51	WG2030397
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/27/2023 07:51	WG2030397
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/27/2023 07:51	WG2030397
Trichloroethene	U		0.000190	0.00100	1	03/27/2023 07:51	WG2030397
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/27/2023 07:51	WG2030397
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/27/2023 07:51	WG2030397
Vinyl chloride	U		0.000234	0.00100	1	03/27/2023 07:51	WG2030397
o-Xylene	U		0.000174	0.00100	1	03/27/2023 07:51	WG2030397
m&p-Xylene	U		0.000430	0.00200	1	03/27/2023 07:51	WG2030397
Xylenes, Total	U		0.000174	0.00300	1	03/27/2023 07:51	WG2030397
(S) Toluene-d8	*118*			*80.0-120*		*03/27/2023 07:51*	WG2030397
(S) 4-Bromofluorobenzene	*98.1*			*77.0-126*		*03/27/2023 07:51*	WG2030397
(S) 1,2-Dichloroethane-d4	*82.9*			*70.0-130*		*03/27/2023 07:51*	WG2030397

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	13.2		0.247	1.00	10	04/01/2023 08:35	WG2031808
(S) o-Terphenyl	*93.5*			*31.0-160*		*04/01/2023 08:35*	WG2031808

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	5850		100	1	03/25/2023 10:40	WG2029498

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1750		7.58	20.0	20	03/24/2023 17:50	WG2029193
Fluoride	1.83	J	1.28	3.00	20	03/24/2023 17:50	WG2029193
Nitrate	U	Q	0.960	2.00	20	03/24/2023 17:50	WG2029193
Nitrite	U	Q	0.840	2.00	20	03/24/2023 17:50	WG2029193
Sulfate	2230		11.9	100	20	03/24/2023 17:50	WG2029193

Sample Narrative:

L1597529-17 WG2029193: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0257		0.000180	0.00200	1	03/27/2023 14:03	WG2029247
Arsenic,Dissolved	0.0234		0.000180	0.00200	1	03/28/2023 00:20	WG2029230
Barium	0.0128		0.000381	0.00200	1	03/27/2023 14:03	WG2029247
Barium,Dissolved	2.58		0.00190	0.0100	5	03/28/2023 10:38	WG2029230
Calcium	638		0.0936	1.00	1	03/27/2023 14:03	WG2029247
Chromium	U		0.00124	0.00200	1	03/27/2023 14:03	WG2029247
Chromium,Dissolved	0.0413		0.00124	0.00200	1	03/28/2023 00:20	WG2029230
Iron	0.0422	J	0.0281	0.100	1	03/27/2023 14:03	WG2029247
Iron,Dissolved	0.186	B	0.0281	0.100	1	03/28/2023 00:20	WG2029230
Lead	U		0.000849	0.00200	1	03/27/2023 14:03	WG2029247
Lead,Dissolved	U		0.000849	0.00200	1	03/28/2023 00:20	WG2029230
Manganese	0.886		0.000704	0.00500	1	03/27/2023 14:03	WG2029247
Manganese,Dissolved	0.844		0.000704	0.00500	1	03/28/2023 00:20	WG2029230
Potassium	5.35		0.108	2.00	1	03/27/2023 14:03	WG2029247
Selenium	0.0340		0.000300	0.00200	1	03/27/2023 14:03	WG2029247
Selenium,Dissolved	0.0279		0.000300	0.00200	1	03/28/2023 00:20	WG2029230
Sodium	1040		1.88	10.0	5	03/27/2023 15:20	WG2029247

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	1.00	B J	0.628	2.00	20	03/26/2023 16:53	WG2030301
(S) a,a,a-Trifluorotoluene(FID)	*96.5*			*78.0-120*		*03/26/2023 16:53*	WG2030301

Sample Narrative:

L1597529-17 WG2030301: Elevated RL due to foamy matrix.

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	03/27/2023 08:14	WG2030397
Benzene	U		0.0000941	0.00100	1	03/27/2023 08:14	WG2030397
Bromodichloromethane	U		0.000136	0.00100	1	03/27/2023 08:14	WG2030397
Bromoform	U		0.000129	0.00100	1	03/27/2023 08:14	WG2030397
Bromomethane	U		0.000605	0.00500	1	03/27/2023 08:14	WG2030397
n-Butylbenzene	U		0.000157	0.00100	1	03/27/2023 08:14	WG2030397

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
sec-Butylbenzene	U		0.000125	0.00100	1	03/27/2023 08:14	WG2030397
Carbon disulfide	U		0.0000962	0.00100	1	03/27/2023 08:14	WG2030397
Carbon tetrachloride	U		0.000128	0.00100	1	03/27/2023 08:14	WG2030397
Chlorobenzene	U		0.000116	0.00100	1	03/27/2023 08:14	WG2030397
Chlorodibromomethane	U		0.000140	0.00100	1	03/27/2023 08:14	WG2030397
Chloroethane	U		0.000192	0.00500	1	03/27/2023 08:14	WG2030397
Chloroform	U		0.000111	0.00500	1	03/27/2023 08:14	WG2030397
Chloromethane	U		0.000960	0.00250	1	03/27/2023 08:14	WG2030397
1,2-Dibromoethane	U		0.000126	0.00100	1	03/27/2023 08:14	WG2030397
1,1-Dichloroethane	U		0.000100	0.00100	1	03/27/2023 08:14	WG2030397
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/27/2023 08:14	WG2030397
1,1-Dichloroethene	U		0.000188	0.00100	1	03/27/2023 08:14	WG2030397
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/27/2023 08:14	WG2030397
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/27/2023 08:14	WG2030397
1,2-Dichloropropane	U		0.000149	0.00100	1	03/27/2023 08:14	WG2030397
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/27/2023 08:14	WG2030397
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/27/2023 08:14	WG2030397
Ethylbenzene	U		0.000137	0.00100	1	03/27/2023 08:14	WG2030397
Isopropylbenzene	U		0.000105	0.00100	1	03/27/2023 08:14	WG2030397
p-Isopropyltoluene	U		0.000120	0.00100	1	03/27/2023 08:14	WG2030397
2-Butanone (MEK)	U		0.00119	0.0100	1	03/27/2023 08:14	WG2030397
2-Hexanone	U		0.000787	0.0100	1	03/27/2023 08:14	WG2030397
Methylene Chloride	U		0.000430	0.00500	1	03/27/2023 08:14	WG2030397
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/27/2023 08:14	WG2030397
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/27/2023 08:14	WG2030397
Naphthalene	U		0.00100	0.00500	1	03/27/2023 08:14	WG2030397
n-Propylbenzene	U		0.0000993	0.00100	1	03/27/2023 08:14	WG2030397
Styrene	U		0.000118	0.00100	1	03/27/2023 08:14	WG2030397
tert-Butyl alcohol	0.00625		0.00406	0.00500	1	03/27/2023 08:14	WG2030397
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/27/2023 08:14	WG2030397
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/27/2023 08:14	WG2030397
Tetrachloroethene	U		0.000300	0.00100	1	03/27/2023 08:14	WG2030397
Toluene	U		0.000278	0.00100	1	03/27/2023 08:14	WG2030397
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/27/2023 08:14	WG2030397
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/27/2023 08:14	WG2030397
Trichloroethene	U		0.000190	0.00100	1	03/27/2023 08:14	WG2030397
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/27/2023 08:14	WG2030397
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/27/2023 08:14	WG2030397
Vinyl chloride	U		0.000234	0.00100	1	03/27/2023 08:14	WG2030397
o-Xylene	U		0.000174	0.00100	1	03/27/2023 08:14	WG2030397
m&p-Xylene	U		0.000430	0.00200	1	03/27/2023 08:14	WG2030397
Xylenes, Total	U		0.000174	0.00300	1	03/27/2023 08:14	WG2030397
(S) Toluene-d8	*123*	J1		*80.0-120*		*03/27/2023 08:14*	WG2030397
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*03/27/2023 08:14*	WG2030397
(S) 1,2-Dichloroethane-d4	*79.1*			*70.0-130*		*03/27/2023 08:14*	WG2030397

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	5.02		0.0247	0.100	1	03/30/2023 19:12	WG2031808
(S) o-Terphenyl	*104*			*31.0-160*		*03/30/2023 19:12*	WG2031808

MW-3
Collected date/time: 03/22/23 12:35
L1597529

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	0.000519		0.0000447	0.000400	1	03/29/2023 15:31	WG2030234
(S) Nitrobenzene-d5	*31.4*			*10.0-120*		*03/29/2023 15:31*	WG2030234

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	6340		200	1	03/25/2023 10:40	WG2029498

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	2040		37.9	100	100	03/24/2023 21:14	WG2029428
Fluoride	1.51		0.640	1.50	10	03/24/2023 11:16	WG2029428
Nitrate	0.728	B J	0.480	1.00	10	03/24/2023 11:16	WG2029428
Nitrite	U		0.420	1.00	10	03/24/2023 11:16	WG2029428
Sulfate	2920		59.4	500	100	03/24/2023 21:14	WG2029428

Sample Narrative:

L1597529-18 WG2029428: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00915		0.000180	0.00200	1	03/27/2023 14:06	WG2029247
Arsenic,Dissolved	0.00823		0.000180	0.00200	1	03/28/2023 00:23	WG2029230
Barium	0.0103		0.000381	0.00200	1	03/27/2023 14:06	WG2029247
Barium,Dissolved	0.00971		0.000381	0.00200	1	03/28/2023 00:23	WG2029230
Calcium	402		0.0936	1.00	1	03/27/2023 14:06	WG2029247
Chromium	U		0.00124	0.00200	1	03/27/2023 14:06	WG2029247
Chromium,Dissolved	U		0.00124	0.00200	1	03/28/2023 00:23	WG2029230
Iron	0.0806	J	0.0281	0.100	1	03/27/2023 14:06	WG2029247
Iron,Dissolved	0.0763	B J	0.0281	0.100	1	03/28/2023 00:23	WG2029230
Lead	U		0.000849	0.00200	1	03/27/2023 14:06	WG2029247
Lead,Dissolved	U		0.000849	0.00200	1	03/28/2023 00:23	WG2029230
Manganese	1.06		0.000704	0.00500	1	03/27/2023 14:06	WG2029247
Manganese,Dissolved	0.913		0.000704	0.00500	1	03/28/2023 00:23	WG2029230
Potassium	3.01		0.108	2.00	1	03/27/2023 14:06	WG2029247
Selenium	0.000710	J	0.000300	0.00200	1	03/27/2023 14:06	WG2029247
Selenium,Dissolved	U		0.000300	0.00200	1	03/28/2023 00:23	WG2029230
Sodium	1610		1.88	10.0	5	03/27/2023 15:40	WG2029247

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	0.115	B	0.0314	0.100	1	03/26/2023 13:12	WG2030301
(S) a,a,a-Trifluorotoluene(FID)	*96.1*			*78.0-120*		*03/26/2023 13:12*	WG2030301

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	03/27/2023 08:38	WG2030397
Benzene	U		0.0000941	0.00100	1	03/27/2023 08:38	WG2030397
Bromodichloromethane	U		0.000136	0.00100	1	03/27/2023 08:38	WG2030397
Bromoform	U		0.000129	0.00100	1	03/27/2023 08:38	WG2030397
Bromomethane	U		0.000605	0.00500	1	03/27/2023 08:38	WG2030397
n-Butylbenzene	U		0.000157	0.00100	1	03/27/2023 08:38	WG2030397
sec-Butylbenzene	U		0.000125	0.00100	1	03/27/2023 08:38	WG2030397
Carbon disulfide	0.0000970	J	0.0000962	0.00100	1	03/27/2023 08:38	WG2030397
Carbon tetrachloride	U		0.000128	0.00100	1	03/27/2023 08:38	WG2030397

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	03/27/2023 08:38	WG2030397
Chlorodibromomethane	U		0.000140	0.00100	1	03/27/2023 08:38	WG2030397
Chloroethane	U		0.000192	0.00500	1	03/27/2023 08:38	WG2030397
Chloroform	U		0.000111	0.00500	1	03/27/2023 08:38	WG2030397
Chloromethane	U		0.000960	0.00250	1	03/27/2023 08:38	WG2030397
1,2-Dibromoethane	U		0.000126	0.00100	1	03/27/2023 08:38	WG2030397
1,1-Dichloroethane	U		0.000100	0.00100	1	03/27/2023 08:38	WG2030397
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/27/2023 08:38	WG2030397
1,1-Dichloroethene	U		0.000188	0.00100	1	03/27/2023 08:38	WG2030397
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/27/2023 08:38	WG2030397
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/27/2023 08:38	WG2030397
1,2-Dichloropropane	U		0.000149	0.00100	1	03/27/2023 08:38	WG2030397
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/27/2023 08:38	WG2030397
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/27/2023 08:38	WG2030397
Ethylbenzene	U		0.000137	0.00100	1	03/27/2023 08:38	WG2030397
Isopropylbenzene	U		0.000105	0.00100	1	03/27/2023 08:38	WG2030397
p-Isopropyltoluene	U		0.000120	0.00100	1	03/27/2023 08:38	WG2030397
2-Butanone (MEK)	U		0.00119	0.0100	1	03/27/2023 08:38	WG2030397
2-Hexanone	U		0.000787	0.0100	1	03/27/2023 08:38	WG2030397
Methylene Chloride	U		0.000430	0.00500	1	03/27/2023 08:38	WG2030397
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/27/2023 08:38	WG2030397
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/27/2023 08:38	WG2030397
Naphthalene	U		0.00100	0.00500	1	03/27/2023 08:38	WG2030397
n-Propylbenzene	U		0.0000993	0.00100	1	03/27/2023 08:38	WG2030397
Styrene	U		0.000118	0.00100	1	03/27/2023 08:38	WG2030397
tert-Butyl alcohol	U		0.00406	0.00500	1	03/27/2023 08:38	WG2030397
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/27/2023 08:38	WG2030397
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/27/2023 08:38	WG2030397
Tetrachloroethene	U		0.000300	0.00100	1	03/27/2023 08:38	WG2030397
Toluene	U		0.000278	0.00100	1	03/27/2023 08:38	WG2030397
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/27/2023 08:38	WG2030397
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/27/2023 08:38	WG2030397
Trichloroethene	U		0.000190	0.00100	1	03/27/2023 08:38	WG2030397
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/27/2023 08:38	WG2030397
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/27/2023 08:38	WG2030397
Vinyl chloride	U		0.000234	0.00100	1	03/27/2023 08:38	WG2030397
o-Xylene	U		0.000174	0.00100	1	03/27/2023 08:38	WG2030397
m&p-Xylene	U		0.000430	0.00200	1	03/27/2023 08:38	WG2030397
Xylenes, Total	U		0.000174	0.00300	1	03/27/2023 08:38	WG2030397
(S) Toluene-d8	*121*	J1		*80.0-120*		*03/27/2023 08:38*	WG2030397
(S) 4-Bromofluorobenzene	*101*			*77.0-126*		*03/27/2023 08:38*	WG2030397
(S) 1,2-Dichloroethane-d4	*82.1*			*70.0-130*		*03/27/2023 08:38*	WG2030397

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	04/01/2023 03:22	WG2031808
(S) o-Terphenyl	*108*			*31.0-160*		*04/01/2023 03:22*	WG2031808

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	20100		400	1	03/25/2023 10:40	WG2029498

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	10900		37.9	100	100	03/29/2023 00:52	WG2029188
Fluoride	2.28		0.640	1.50	10	03/29/2023 00:05	WG2029188
Nitrate	3.50	Q	0.480	1.00	10	03/29/2023 00:05	WG2029188
Nitrite	U	Q	0.420	1.00	10	03/29/2023 00:05	WG2029188
Sulfate	6190		59.4	500	100	03/29/2023 00:52	WG2029188

Sample Narrative:

L1597529-19 WG2029188: Dilution due to matrix.

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	03/27/2023 14:09	WG2029247
Arsenic,Dissolved	0.0316		0.000180	0.00200	1	03/28/2023 00:27	WG2029230
Barium	0.0170		0.000381	0.00200	1	03/27/2023 14:09	WG2029247
Barium,Dissolved	0.0172		0.000381	0.00200	1	03/28/2023 00:27	WG2029230
Calcium	740		0.0936	1.00	1	03/27/2023 14:09	WG2029247
Chromium	0.00843		0.00124	0.00200	1	03/27/2023 14:09	WG2029247
Chromium,Dissolved	0.00479		0.00124	0.00200	1	03/28/2023 00:27	WG2029230
Iron	0.0686	J	0.0281	0.100	1	03/27/2023 14:09	WG2029247
Iron,Dissolved	U		0.0281	0.100	1	03/28/2023 00:27	WG2029230
Lead	U		0.000849	0.00200	1	03/27/2023 14:09	WG2029247
Lead,Dissolved	U		0.000849	0.00200	1	03/28/2023 00:27	WG2029230
Manganese	0.116		0.000704	0.00500	1	03/27/2023 14:09	WG2029247
Manganese,Dissolved	0.0875		0.000704	0.00500	1	03/28/2023 00:27	WG2029230
Potassium	5.90		0.108	2.00	1	03/27/2023 14:09	WG2029247
Selenium	0.0247		0.000300	0.00200	1	03/27/2023 14:09	WG2029247
Selenium,Dissolved	0.0239		0.000300	0.00200	1	03/28/2023 00:27	WG2029230
Sodium	6960		3.76	20.0	10	03/27/2023 15:43	WG2029247

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	2.45	B	0.628	2.00	20	03/26/2023 17:16	WG2030301
(S) a,a,a-Trifluorotoluene(FID)	*97.1*			*78.0-120*		*03/26/2023 17:16*	WG2030301

Sample Narrative:

L1597529-19 WG2030301: Elevated RL due to foamy matrix.

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	03/27/2023 09:01	WG2030397
Benzene	U		0.0000941	0.00100	1	03/27/2023 09:01	WG2030397
Bromodichloromethane	U		0.000136	0.00100	1	03/27/2023 09:01	WG2030397
Bromoform	U		0.000129	0.00100	1	03/27/2023 09:01	WG2030397
Bromomethane	U		0.000605	0.00500	1	03/27/2023 09:01	WG2030397
n-Butylbenzene	U		0.000157	0.00100	1	03/27/2023 09:01	WG2030397

MW-22A
Collected date/time: 03/22/23 10:25
L1597529

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
sec-Butylbenzene	U		0.000125	0.00100	1	03/27/2023 09:01	WG2030397
Carbon disulfide	U		0.0000962	0.00100	1	03/27/2023 09:01	WG2030397
Carbon tetrachloride	U		0.000128	0.00100	1	03/27/2023 09:01	WG2030397
Chlorobenzene	U		0.000116	0.00100	1	03/27/2023 09:01	WG2030397
Chlorodibromomethane	U		0.000140	0.00100	1	03/27/2023 09:01	WG2030397
Chloroethane	U		0.000192	0.00500	1	03/27/2023 09:01	WG2030397
Chloroform	U		0.000111	0.00500	1	03/27/2023 09:01	WG2030397
Chloromethane	U		0.000960	0.00250	1	03/27/2023 09:01	WG2030397
1,2-Dibromoethane	U		0.000126	0.00100	1	03/27/2023 09:01	WG2030397
1,1-Dichloroethane	U		0.000100	0.00100	1	03/27/2023 09:01	WG2030397
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/27/2023 09:01	WG2030397
1,1-Dichloroethene	U		0.000188	0.00100	1	03/27/2023 09:01	WG2030397
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/27/2023 09:01	WG2030397
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/27/2023 09:01	WG2030397
1,2-Dichloropropane	U		0.000149	0.00100	1	03/27/2023 09:01	WG2030397
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/27/2023 09:01	WG2030397
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/27/2023 09:01	WG2030397
Ethylbenzene	U		0.000137	0.00100	1	03/27/2023 09:01	WG2030397
Isopropylbenzene	U		0.000105	0.00100	1	03/27/2023 09:01	WG2030397
p-Isopropyltoluene	U		0.000120	0.00100	1	03/27/2023 09:01	WG2030397
2-Butanone (MEK)	U		0.00119	0.0100	1	03/27/2023 09:01	WG2030397
2-Hexanone	U		0.000787	0.0100	1	03/27/2023 09:01	WG2030397
Methylene Chloride	U		0.000430	0.00500	1	03/27/2023 09:01	WG2030397
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/27/2023 09:01	WG2030397
Methyl tert-butyl ether	0.00117		0.000101	0.00100	1	03/27/2023 09:01	WG2030397
Naphthalene	U		0.00100	0.00500	1	03/27/2023 09:01	WG2030397
n-Propylbenzene	U		0.0000993	0.00100	1	03/27/2023 09:01	WG2030397
Styrene	U		0.000118	0.00100	1	03/27/2023 09:01	WG2030397
tert-Butyl alcohol	0.00462	J	0.00406	0.00500	1	03/27/2023 09:01	WG2030397
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/27/2023 09:01	WG2030397
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/27/2023 09:01	WG2030397
Tetrachloroethene	U		0.000300	0.00100	1	03/27/2023 09:01	WG2030397
Toluene	U		0.000278	0.00100	1	03/27/2023 09:01	WG2030397
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/27/2023 09:01	WG2030397
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/27/2023 09:01	WG2030397
Trichloroethene	U		0.000190	0.00100	1	03/27/2023 09:01	WG2030397
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/27/2023 09:01	WG2030397
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/27/2023 09:01	WG2030397
Vinyl chloride	U		0.000234	0.00100	1	03/27/2023 09:01	WG2030397
o-Xylene	U		0.000174	0.00100	1	03/27/2023 09:01	WG2030397
m&p-Xylene	U		0.000430	0.00200	1	03/27/2023 09:01	WG2030397
Xylenes, Total	U		0.000174	0.00300	1	03/27/2023 09:01	WG2030397
(S) Toluene-d8	*118*			*80.0-120*		*03/27/2023 09:01*	WG2030397
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*03/27/2023 09:01*	WG2030397
(S) 1,2-Dichloroethane-d4	*77.7*			*70.0-130*		*03/27/2023 09:01*	WG2030397

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	1.50		0.0247	0.100	1	03/30/2023 19:57	WG2031808
(S) o-Terphenyl	*102*			*31.0-160*		*03/30/2023 19:57*	WG2031808

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

MW-22A
Collected date/time: 03/22/23 10:25
L1597529

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	0.000703		0.0000447	0.000400	1	03/29/2023 15:50	WG2030234
(S) Nitrobenzene-d5	*9.50*	J2		*10.0-120*		*03/29/2023 15:50*	WG2030234

Sample Narrative:

L1597529-19 WG2030234: Surrogate failure due to matrix interference during extraction procedure.

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	8660		100	1	03/27/2023 23:53	WG2030624

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1250		3.79	10.0	10	03/28/2023 16:44	WG2029184
Fluoride	1.28	B J	0.640	1.50	10	03/28/2023 16:44	WG2029184
Nitrate	0.783	B J Q	0.480	1.00	10	03/28/2023 16:44	WG2029184
Nitrite	U	Q	0.420	1.00	10	03/28/2023 16:44	WG2029184
Sulfate	2030		59.4	500	100	03/28/2023 16:57	WG2029184

Sample Narrative:

L1597529-20 WG2029184: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0273		0.000180	0.00200	1	03/27/2023 14:13	WG2029247
Arsenic,Dissolved	0.0259		0.000180	0.00200	1	03/28/2023 00:30	WG2029230
Barium	0.0126		0.000381	0.00200	1	03/27/2023 14:13	WG2029247
Barium,Dissolved	0.0121		0.000381	0.00200	1	03/28/2023 00:30	WG2029230
Calcium	409		0.0936	1.00	1	03/27/2023 14:13	WG2029247
Chromium	U		0.00124	0.00200	1	03/27/2023 14:13	WG2029247
Chromium,Dissolved	U		0.00124	0.00200	1	03/28/2023 00:30	WG2029230
Iron	1.75		0.0281	0.100	1	03/27/2023 14:13	WG2029247
Iron,Dissolved	1.56		0.0281	0.100	1	03/28/2023 00:30	WG2029230
Lead	U		0.000849	0.00200	1	03/27/2023 14:13	WG2029247
Lead,Dissolved	U		0.000849	0.00200	1	03/28/2023 00:30	WG2029230
Manganese	4.88		0.000704	0.00500	1	03/27/2023 14:13	WG2029247
Manganese,Dissolved	4.58		0.000704	0.00500	1	03/28/2023 00:30	WG2029230
Potassium	3.83		0.108	2.00	1	03/27/2023 14:13	WG2029247
Selenium	0.00143	J	0.000300	0.00200	1	03/27/2023 14:13	WG2029247
Selenium,Dissolved	0.000763	J	0.000300	0.00200	1	03/28/2023 00:30	WG2029230
Sodium	1060		1.88	10.0	5	03/27/2023 15:47	WG2029247

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	2.97	B	0.628	2.00	20	03/26/2023 17:38	WG2030301
(S) a,a,a-Trifluorotoluene(FID)	*96.9*			*78.0-120*		*03/26/2023 17:38*	WG2030301

Sample Narrative:

L1597529-20 WG2030301: Elevated RL due to foamy matrix.

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	03/27/2023 19:13	WG2030834
Benzene	U		0.0000941	0.00100	1	03/27/2023 19:13	WG2030834
Bromodichloromethane	U		0.000136	0.00100	1	03/27/2023 19:13	WG2030834
Bromoform	U		0.000129	0.00100	1	03/27/2023 19:13	WG2030834
Bromomethane	U		0.000605	0.00500	1	03/27/2023 19:13	WG2030834
n-Butylbenzene	U		0.000157	0.00100	1	03/27/2023 19:13	WG2030834

MW-22B
Collected date/time: 03/22/23 09:45
L1597529

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	0.000429	J	0.000125	0.00100	1	03/27/2023 19:13	WG2030834
Carbon disulfide	U		0.0000962	0.00100	1	03/27/2023 19:13	WG2030834
Carbon tetrachloride	U		0.000128	0.00100	1	03/27/2023 19:13	WG2030834
Chlorobenzene	U		0.000116	0.00100	1	03/27/2023 19:13	WG2030834
Chlorodibromomethane	U		0.000140	0.00100	1	03/27/2023 19:13	WG2030834
Chloroethane	U		0.000192	0.00500	1	03/27/2023 19:13	WG2030834
Chloroform	U		0.000111	0.00500	1	03/27/2023 19:13	WG2030834
Chloromethane	U		0.000960	0.00250	1	03/27/2023 19:13	WG2030834
1,2-Dibromoethane	U		0.000126	0.00100	1	03/27/2023 19:13	WG2030834
1,1-Dichloroethane	U		0.000100	0.00100	1	03/27/2023 19:13	WG2030834
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/27/2023 19:13	WG2030834
1,1-Dichloroethene	U		0.000188	0.00100	1	03/27/2023 19:13	WG2030834
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/27/2023 19:13	WG2030834
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/27/2023 19:13	WG2030834
1,2-Dichloropropane	U		0.000149	0.00100	1	03/27/2023 19:13	WG2030834
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/27/2023 19:13	WG2030834
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/27/2023 19:13	WG2030834
Ethylbenzene	U		0.000137	0.00100	1	03/27/2023 19:13	WG2030834
Isopropylbenzene	0.000224	J	0.000105	0.00100	1	03/27/2023 19:13	WG2030834
p-Isopropyltoluene	U		0.000120	0.00100	1	03/27/2023 19:13	WG2030834
2-Butanone (MEK)	U	J3	0.00119	0.0100	1	03/27/2023 19:13	WG2030834
2-Hexanone	U		0.000787	0.0100	1	03/27/2023 19:13	WG2030834
Methylene Chloride	U		0.000430	0.00500	1	03/27/2023 19:13	WG2030834
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/27/2023 19:13	WG2030834
Methyl tert-butyl ether	0.00462		0.000101	0.00100	1	03/27/2023 19:13	WG2030834
Naphthalene	U		0.00100	0.00500	1	03/27/2023 19:13	WG2030834
n-Propylbenzene	U		0.0000993	0.00100	1	03/27/2023 19:13	WG2030834
Styrene	U		0.000118	0.00100	1	03/27/2023 19:13	WG2030834
tert-Butyl alcohol	0.0477		0.00406	0.00500	1	03/27/2023 19:13	WG2030834
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/27/2023 19:13	WG2030834
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/27/2023 19:13	WG2030834
Tetrachloroethene	U		0.000300	0.00100	1	03/27/2023 19:13	WG2030834
Toluene	U		0.000278	0.00100	1	03/27/2023 19:13	WG2030834
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/27/2023 19:13	WG2030834
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/27/2023 19:13	WG2030834
Trichloroethene	U		0.000190	0.00100	1	03/27/2023 19:13	WG2030834
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/27/2023 19:13	WG2030834
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/27/2023 19:13	WG2030834
Vinyl chloride	U		0.000234	0.00100	1	03/27/2023 19:13	WG2030834
o-Xylene	U		0.000174	0.00100	1	03/27/2023 19:13	WG2030834
m&p-Xylene	U		0.000430	0.00200	1	03/27/2023 19:13	WG2030834
Xylenes, Total	U		0.000174	0.00300	1	03/27/2023 19:13	WG2030834
(S) Toluene-d8	*106*			*80.0-120*		*03/27/2023 19:13*	WG2030834
(S) 4-Bromofluorobenzene	*110*			*77.0-126*		*03/27/2023 19:13*	WG2030834
(S) 1,2-Dichloroethane-d4	*98.6*			*70.0-130*		*03/27/2023 19:13*	WG2030834

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	4.57		0.0247	0.100	1	03/30/2023 20:19	WG2031808
(S) o-Terphenyl	*114*			*31.0-160*		*03/30/2023 20:19*	WG2031808

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	5460		100	1	03/27/2023 23:53	WG2030624

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1290		3.79	10.0	10	03/28/2023 17:10	WG2029184
Fluoride	1.44	B J	0.640	1.50	10	03/28/2023 17:10	WG2029184
Nitrate	0.666	B J Q	0.480	1.00	10	03/28/2023 17:10	WG2029184
Nitrite	U	Q	0.420	1.00	10	03/28/2023 17:10	WG2029184
Sulfate	1770		5.94	50.0	10	03/28/2023 17:10	WG2029184

Sample Narrative:

L1597529-21 WG2029184: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0145		0.000180	0.00200	1	03/27/2023 14:16	WG2029247
Arsenic,Dissolved	0.0136		0.000180	0.00200	1	03/28/2023 00:33	WG2029230
Barium	0.0141		0.000381	0.00200	1	03/27/2023 14:16	WG2029247
Barium,Dissolved	0.0139		0.000381	0.00200	1	03/28/2023 00:33	WG2029230
Calcium	406		0.0936	1.00	1	03/27/2023 14:16	WG2029247
Chromium	U		0.00124	0.00200	1	03/27/2023 14:16	WG2029247
Chromium,Dissolved	U		0.00124	0.00200	1	03/28/2023 00:33	WG2029230
Iron	0.338		0.0281	0.100	1	03/27/2023 14:16	WG2029247
Iron,Dissolved	0.284	B	0.0281	0.100	1	03/28/2023 00:33	WG2029230
Lead	U		0.000849	0.00200	1	03/27/2023 14:16	WG2029247
Lead,Dissolved	U		0.000849	0.00200	1	03/28/2023 00:33	WG2029230
Manganese	1.93		0.000704	0.00500	1	03/27/2023 14:16	WG2029247
Manganese,Dissolved	1.86		0.000704	0.00500	1	03/28/2023 00:33	WG2029230
Potassium	3.05		0.108	2.00	1	03/27/2023 14:16	WG2029247
Selenium	0.000864	J	0.000300	0.00200	1	03/27/2023 14:16	WG2029247
Selenium,Dissolved	0.000461	J	0.000300	0.00200	1	03/28/2023 00:33	WG2029230
Sodium	956		1.88	10.0	5	03/27/2023 15:50	WG2029247

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	B J	0.628	2.00	20	03/26/2023 18:00	WG2030301
(S) a,a,a-Trifluorotoluene(FID)	*96.9*			*78.0-120*		*03/26/2023 18:00*	WG2030301

Sample Narrative:

L1597529-21 WG2030301: Elevated RL due to foamy matrix.

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	03/27/2023 19:34	WG2030834
Benzene	U		0.0000941	0.00100	1	03/27/2023 19:34	WG2030834
Bromodichloromethane	U		0.000136	0.00100	1	03/27/2023 19:34	WG2030834
Bromoform	U		0.000129	0.00100	1	03/27/2023 19:34	WG2030834
Bromomethane	U		0.000605	0.00500	1	03/27/2023 19:34	WG2030834
n-Butylbenzene	U		0.000157	0.00100	1	03/27/2023 19:34	WG2030834

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	U		0.000125	0.00100	1	03/27/2023 19:34	WG2030834
Carbon disulfide	U		0.0000962	0.00100	1	03/27/2023 19:34	WG2030834
Carbon tetrachloride	U		0.000128	0.00100	1	03/27/2023 19:34	WG2030834
Chlorobenzene	U		0.000116	0.00100	1	03/27/2023 19:34	WG2030834
Chlorodibromomethane	U		0.000140	0.00100	1	03/27/2023 19:34	WG2030834
Chloroethane	U		0.000192	0.00500	1	03/27/2023 19:34	WG2030834
Chloroform	U		0.000111	0.00500	1	03/27/2023 19:34	WG2030834
Chloromethane	U		0.000960	0.00250	1	03/27/2023 19:34	WG2030834
1,2-Dibromoethane	U		0.000126	0.00100	1	03/27/2023 19:34	WG2030834
1,1-Dichloroethane	U		0.000100	0.00100	1	03/27/2023 19:34	WG2030834
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/27/2023 19:34	WG2030834
1,1-Dichloroethene	U		0.000188	0.00100	1	03/27/2023 19:34	WG2030834
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/27/2023 19:34	WG2030834
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/27/2023 19:34	WG2030834
1,2-Dichloropropane	U		0.000149	0.00100	1	03/27/2023 19:34	WG2030834
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/27/2023 19:34	WG2030834
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/27/2023 19:34	WG2030834
Ethylbenzene	U		0.000137	0.00100	1	03/27/2023 19:34	WG2030834
Isopropylbenzene	U		0.000105	0.00100	1	03/27/2023 19:34	WG2030834
p-Isopropyltoluene	U		0.000120	0.00100	1	03/27/2023 19:34	WG2030834
2-Butanone (MEK)	U	J3	0.00119	0.0100	1	03/27/2023 19:34	WG2030834
2-Hexanone	U		0.000787	0.0100	1	03/27/2023 19:34	WG2030834
Methylene Chloride	U		0.000430	0.00500	1	03/27/2023 19:34	WG2030834
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/27/2023 19:34	WG2030834
Methyl tert-butyl ether	0.000898	J	0.000101	0.00100	1	03/27/2023 19:34	WG2030834
Naphthalene	U		0.00100	0.00500	1	03/27/2023 19:34	WG2030834
n-Propylbenzene	U		0.0000993	0.00100	1	03/27/2023 19:34	WG2030834
Styrene	U		0.000118	0.00100	1	03/27/2023 19:34	WG2030834
tert-Butyl alcohol	U		0.00406	0.00500	1	03/27/2023 19:34	WG2030834
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/27/2023 19:34	WG2030834
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/27/2023 19:34	WG2030834
Tetrachloroethene	U		0.000300	0.00100	1	03/27/2023 19:34	WG2030834
Toluene	U		0.000278	0.00100	1	03/27/2023 19:34	WG2030834
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/27/2023 19:34	WG2030834
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/27/2023 19:34	WG2030834
Trichloroethene	U		0.000190	0.00100	1	03/27/2023 19:34	WG2030834
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/27/2023 19:34	WG2030834
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/27/2023 19:34	WG2030834
Vinyl chloride	U		0.000234	0.00100	1	03/27/2023 19:34	WG2030834
o-Xylene	U		0.000174	0.00100	1	03/27/2023 19:34	WG2030834
m&p-Xylene	U		0.000430	0.00200	1	03/27/2023 19:34	WG2030834
Xylenes, Total	U		0.000174	0.00300	1	03/27/2023 19:34	WG2030834
(S) Toluene-d8	*106*			*80.0-120*		*03/27/2023 19:34*	WG2030834
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*03/27/2023 19:34*	WG2030834
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*03/27/2023 19:34*	WG2030834

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	1.27		0.0247	0.100	1	04/01/2023 03:44	WG2031808
(S) o-Terphenyl	*108*			*31.0-160*		*04/01/2023 03:44*	WG2031808

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4800	J3	100	1	03/25/2023 07:21	WG2029580

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1370		3.79	10.0	10	03/24/2023 01:42	WG2029007
Fluoride	1.52		0.640	1.50	10	03/24/2023 01:42	WG2029007
Nitrate	U		0.480	1.00	10	03/24/2023 01:42	WG2029007
Nitrite	U		0.420	1.00	10	03/24/2023 01:42	WG2029007
Sulfate	1890		5.94	50.0	10	03/24/2023 01:42	WG2029007

Sample Narrative:

L1597529-22 WG2029007: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0178		0.000180	0.00200	1	03/27/2023 14:20	WG2029247
Arsenic,Dissolved	0.0172		0.000180	0.00200	1	03/26/2023 21:11	WG2029231
Barium	0.0300		0.000381	0.00200	1	03/27/2023 14:20	WG2029247
Barium,Dissolved	0.0290		0.000381	0.00200	1	03/26/2023 21:11	WG2029231
Calcium	503		0.0936	1.00	1	03/27/2023 14:20	WG2029247
Chromium	U		0.00124	0.00200	1	03/27/2023 14:20	WG2029247
Chromium,Dissolved	U		0.00124	0.00200	1	03/26/2023 21:11	WG2029231
Iron	U		0.0281	0.100	1	03/27/2023 14:20	WG2029247
Iron,Dissolved	U		0.0281	0.100	1	03/26/2023 21:11	WG2029231
Lead	U		0.000849	0.00200	1	03/27/2023 14:20	WG2029247
Lead,Dissolved	U		0.000849	0.00200	1	03/26/2023 21:11	WG2029231
Manganese	3.27		0.000704	0.00500	1	03/27/2023 14:20	WG2029247
Manganese,Dissolved	3.19	V	0.000704	0.00500	1	03/26/2023 21:11	WG2029231
Potassium	3.39		0.108	2.00	1	03/27/2023 14:20	WG2029247
Selenium	0.000738	J	0.000300	0.00200	1	03/27/2023 14:20	WG2029247
Selenium,Dissolved	U		0.000300	0.00200	1	03/26/2023 21:11	WG2029231
Sodium	1070		1.88	10.0	5	03/27/2023 15:54	WG2029247

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	0.858		0.0314	0.100	1	03/26/2023 13:34	WG2030301
(S) a,a,a-Trifluorotoluene(FID)	*96.1*			*78.0-120*		*03/26/2023 13:34*	WG2030301

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	03/27/2023 19:56	WG2030834
Benzene	U		0.0000941	0.00100	1	03/27/2023 19:56	WG2030834
Bromodichloromethane	U		0.000136	0.00100	1	03/27/2023 19:56	WG2030834
Bromoform	U		0.000129	0.00100	1	03/27/2023 19:56	WG2030834
Bromomethane	U		0.000605	0.00500	1	03/27/2023 19:56	WG2030834
n-Butylbenzene	U		0.000157	0.00100	1	03/27/2023 19:56	WG2030834
sec-Butylbenzene	U		0.000125	0.00100	1	03/27/2023 19:56	WG2030834
Carbon disulfide	U		0.0000962	0.00100	1	03/27/2023 19:56	WG2030834
Carbon tetrachloride	U		0.000128	0.00100	1	03/27/2023 19:56	WG2030834

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	03/27/2023 19:56	WG2030834
Chlorodibromomethane	U		0.000140	0.00100	1	03/27/2023 19:56	WG2030834
Chloroethane	U		0.000192	0.00500	1	03/27/2023 19:56	WG2030834
Chloroform	U		0.000111	0.00500	1	03/27/2023 19:56	WG2030834
Chloromethane	U		0.000960	0.00250	1	03/27/2023 19:56	WG2030834
1,2-Dibromoethane	U		0.000126	0.00100	1	03/27/2023 19:56	WG2030834
1,1-Dichloroethane	U		0.000100	0.00100	1	03/27/2023 19:56	WG2030834
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/27/2023 19:56	WG2030834
1,1-Dichloroethene	U		0.000188	0.00100	1	03/27/2023 19:56	WG2030834
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/27/2023 19:56	WG2030834
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/27/2023 19:56	WG2030834
1,2-Dichloropropane	U		0.000149	0.00100	1	03/27/2023 19:56	WG2030834
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/27/2023 19:56	WG2030834
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/27/2023 19:56	WG2030834
Ethylbenzene	U		0.000137	0.00100	1	03/27/2023 19:56	WG2030834
Isopropylbenzene	U		0.000105	0.00100	1	03/27/2023 19:56	WG2030834
p-Isopropyltoluene	U		0.000120	0.00100	1	03/27/2023 19:56	WG2030834
2-Butanone (MEK)	U	J3	0.00119	0.0100	1	03/27/2023 19:56	WG2030834
2-Hexanone	U		0.000787	0.0100	1	03/27/2023 19:56	WG2030834
Methylene Chloride	U		0.000430	0.00500	1	03/27/2023 19:56	WG2030834
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/27/2023 19:56	WG2030834
Methyl tert-butyl ether	0.00157		0.000101	0.00100	1	03/27/2023 19:56	WG2030834
Naphthalene	U		0.00100	0.00500	1	03/27/2023 19:56	WG2030834
n-Propylbenzene	U		0.0000993	0.00100	1	03/27/2023 19:56	WG2030834
Styrene	U		0.000118	0.00100	1	03/27/2023 19:56	WG2030834
tert-Butyl alcohol	U		0.00406	0.00500	1	03/27/2023 19:56	WG2030834
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/27/2023 19:56	WG2030834
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/27/2023 19:56	WG2030834
Tetrachloroethene	U		0.000300	0.00100	1	03/27/2023 19:56	WG2030834
Toluene	U		0.000278	0.00100	1	03/27/2023 19:56	WG2030834
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/27/2023 19:56	WG2030834
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/27/2023 19:56	WG2030834
Trichloroethene	U		0.000190	0.00100	1	03/27/2023 19:56	WG2030834
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/27/2023 19:56	WG2030834
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/27/2023 19:56	WG2030834
Vinyl chloride	U		0.000234	0.00100	1	03/27/2023 19:56	WG2030834
o-Xylene	U		0.000174	0.00100	1	03/27/2023 19:56	WG2030834
m&p-Xylene	U		0.000430	0.00200	1	03/27/2023 19:56	WG2030834
Xylenes, Total	U		0.000174	0.00300	1	03/27/2023 19:56	WG2030834
(S) Toluene-d8	*108*			*80.0-120*		*03/27/2023 19:56*	WG2030834
(S) 4-Bromofluorobenzene	*112*			*77.0-126*		*03/27/2023 19:56*	WG2030834
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*03/27/2023 19:56*	WG2030834

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	1.82		0.0247	0.100	1	03/30/2023 21:03	WG2031808
(S) o-Terphenyl	*110*			*31.0-160*		*03/30/2023 21:03*	WG2031808

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	0.00107		0.0000447	0.000400	1	03/29/2023 16:09	WG2030234
(S) Nitrobenzene-d5	*30.1*			*10.0-120*		*03/29/2023 16:09*	WG2030234

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4090	J3	100	1	03/25/2023 07:21	WG2029580

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1310		3.79	10.0	10	03/29/2023 23:57	WG2032143
Fluoride	2.83		0.640	1.50	10	03/29/2023 23:57	WG2032143
Nitrate	U	Q	0.480	1.00	10	03/29/2023 23:57	WG2032143
Nitrite	U	Q	0.420	1.00	10	03/29/2023 23:57	WG2032143
Sulfate	1700		5.94	50.0	10	03/29/2023 23:57	WG2032143

Sample Narrative:

L1597529-23 WG2032143: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.138		0.000180	0.00200	1	03/27/2023 14:23	WG2029247
Arsenic,Dissolved	0.119		0.000180	0.00200	1	03/26/2023 21:24	WG2029231
Barium	0.0114		0.000381	0.00200	1	03/27/2023 14:23	WG2029247
Barium,Dissolved	0.0116		0.000381	0.00200	1	03/26/2023 21:24	WG2029231
Calcium	390		0.0936	1.00	1	03/27/2023 14:23	WG2029247
Chromium	U		0.00124	0.00200	1	03/27/2023 14:23	WG2029247
Chromium,Dissolved	U		0.00124	0.00200	1	03/26/2023 21:24	WG2029231
Iron	2.30		0.0281	0.100	1	03/27/2023 14:23	WG2029247
Iron,Dissolved	1.92		0.0281	0.100	1	03/26/2023 21:24	WG2029231
Lead	U		0.000849	0.00200	1	03/27/2023 14:23	WG2029247
Lead,Dissolved	U		0.000849	0.00200	1	03/26/2023 21:24	WG2029231
Manganese	1.71		0.000704	0.00500	1	03/27/2023 14:23	WG2029247
Manganese,Dissolved	1.75		0.000704	0.00500	1	03/26/2023 21:24	WG2029231
Potassium	4.62		0.108	2.00	1	03/27/2023 14:23	WG2029247
Selenium	0.00151	J	0.000300	0.00200	1	03/27/2023 14:23	WG2029247
Selenium,Dissolved	0.000492	J	0.000300	0.00200	1	03/26/2023 21:24	WG2029231
Sodium	971		0.376	2.00	1	03/27/2023 14:23	WG2029247

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	1.58	B J	0.628	2.00	20	03/26/2023 18:22	WG2030301
(S) a,a,a-Trifluorotoluene(FID)	*97.0*			*78.0-120*		*03/26/2023 18:22*	WG2030301

Sample Narrative:

L1597529-23 WG2030301: Elevated RL due to foamy matrix.

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	03/27/2023 20:17	WG2030834
Benzene	U		0.0000941	0.00100	1	03/27/2023 20:17	WG2030834
Bromodichloromethane	U		0.000136	0.00100	1	03/27/2023 20:17	WG2030834
Bromoform	U		0.000129	0.00100	1	03/27/2023 20:17	WG2030834
Bromomethane	U		0.000605	0.00500	1	03/27/2023 20:17	WG2030834
n-Butylbenzene	U		0.000157	0.00100	1	03/27/2023 20:17	WG2030834

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	0.000196	J	0.000125	0.00100	1	03/27/2023 20:17	WG2030834
Carbon disulfide	U		0.0000962	0.00100	1	03/27/2023 20:17	WG2030834
Carbon tetrachloride	U		0.000128	0.00100	1	03/27/2023 20:17	WG2030834
Chlorobenzene	U		0.000116	0.00100	1	03/27/2023 20:17	WG2030834
Chlorodibromomethane	U		0.000140	0.00100	1	03/27/2023 20:17	WG2030834
Chloroethane	U		0.000192	0.00500	1	03/27/2023 20:17	WG2030834
Chloroform	U		0.000111	0.00500	1	03/27/2023 20:17	WG2030834
Chloromethane	U		0.000960	0.00250	1	03/27/2023 20:17	WG2030834
1,2-Dibromoethane	U		0.000126	0.00100	1	03/27/2023 20:17	WG2030834
1,1-Dichloroethane	U		0.000100	0.00100	1	03/27/2023 20:17	WG2030834
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/27/2023 20:17	WG2030834
1,1-Dichloroethene	U		0.000188	0.00100	1	03/27/2023 20:17	WG2030834
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/27/2023 20:17	WG2030834
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/27/2023 20:17	WG2030834
1,2-Dichloropropane	U		0.000149	0.00100	1	03/27/2023 20:17	WG2030834
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/27/2023 20:17	WG2030834
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/27/2023 20:17	WG2030834
Ethylbenzene	U		0.000137	0.00100	1	03/27/2023 20:17	WG2030834
Isopropylbenzene	0.000921	J	0.000105	0.00100	1	03/27/2023 20:17	WG2030834
p-Isopropyltoluene	U		0.000120	0.00100	1	03/27/2023 20:17	WG2030834
2-Butanone (MEK)	U	J3	0.00119	0.0100	1	03/27/2023 20:17	WG2030834
2-Hexanone	U		0.000787	0.0100	1	03/27/2023 20:17	WG2030834
Methylene Chloride	U		0.000430	0.00500	1	03/27/2023 20:17	WG2030834
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/27/2023 20:17	WG2030834
Methyl tert-butyl ether	0.000221	J	0.000101	0.00100	1	03/27/2023 20:17	WG2030834
Naphthalene	U		0.00100	0.00500	1	03/27/2023 20:17	WG2030834
n-Propylbenzene	U		0.0000993	0.00100	1	03/27/2023 20:17	WG2030834
Styrene	U		0.000118	0.00100	1	03/27/2023 20:17	WG2030834
tert-Butyl alcohol	0.0379		0.00406	0.00500	1	03/27/2023 20:17	WG2030834
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/27/2023 20:17	WG2030834
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/27/2023 20:17	WG2030834
Tetrachloroethene	U		0.000300	0.00100	1	03/27/2023 20:17	WG2030834
Toluene	U		0.000278	0.00100	1	03/27/2023 20:17	WG2030834
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/27/2023 20:17	WG2030834
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/27/2023 20:17	WG2030834
Trichloroethene	U		0.000190	0.00100	1	03/27/2023 20:17	WG2030834
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/27/2023 20:17	WG2030834
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/27/2023 20:17	WG2030834
Vinyl chloride	U		0.000234	0.00100	1	03/27/2023 20:17	WG2030834
o-Xylene	U		0.000174	0.00100	1	03/27/2023 20:17	WG2030834
m&p-Xylene	0.000512	J	0.000430	0.00200	1	03/27/2023 20:17	WG2030834
Xylenes, Total	0.000512	J	0.000174	0.00300	1	03/27/2023 20:17	WG2030834
(S) Toluene-d8	*106*			*80.0-120*		*03/27/2023 20:17*	WG2030834
(S) 4-Bromofluorobenzene	*104*			*77.0-126*		*03/27/2023 20:17*	WG2030834
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*03/27/2023 20:17*	WG2030834

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	5.62		0.0247	0.100	1	03/30/2023 21:26	WG2031808
(S) o-Terphenyl	*108*			*31.0-160*		*03/30/2023 21:26*	WG2031808

MW-11A
Collected date/time: 03/22/23 11:55
L1597529

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	0.000458		0.0000447	0.000400	1	03/29/2023 16:28	WG2030234
(S) Nitrobenzene-d5	*27.2*			*10.0-120*		*03/29/2023 16:28*	WG2030234

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	22000		400	1	03/25/2023 07:21	WG2029580

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	10300		37.9	100	100	03/24/2023 18:54	WG2029193
Fluoride	2.51		0.640	1.50	10	03/24/2023 18:42	WG2029193
Nitrate	U	Q	0.480	1.00	10	03/24/2023 18:42	WG2029193
Nitrite	U	Q	0.420	1.00	10	03/24/2023 18:42	WG2029193
Sulfate	6360		59.4	500	100	03/24/2023 18:54	WG2029193

Sample Narrative:

L1597529-24 WG2029193: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0326		0.000180	0.00200	1	03/27/2023 14:27	WG2029247
Arsenic,Dissolved	0.0307		0.000180	0.00200	1	03/26/2023 21:27	WG2029231
Barium	0.0169		0.000381	0.00200	1	03/27/2023 14:27	WG2029247
Barium,Dissolved	0.0169		0.000381	0.00200	1	03/26/2023 21:27	WG2029231
Calcium	725		0.0936	1.00	1	03/27/2023 14:27	WG2029247
Chromium	0.00760		0.00124	0.00200	1	03/27/2023 14:27	WG2029247
Chromium,Dissolved	0.00492		0.00124	0.00200	1	03/26/2023 21:27	WG2029231
Iron	0.0615	J	0.0281	0.100	1	03/27/2023 14:27	WG2029247
Iron,Dissolved	U		0.0281	0.100	1	03/26/2023 21:27	WG2029231
Lead	U		0.000849	0.00200	1	03/27/2023 14:27	WG2029247
Lead,Dissolved	U		0.00424	0.0100	5	03/26/2023 23:01	WG2029231
Manganese	0.106		0.000704	0.00500	1	03/27/2023 14:27	WG2029247
Manganese,Dissolved	0.0893		0.000704	0.00500	1	03/26/2023 21:27	WG2029231
Potassium	5.82		0.108	2.00	1	03/27/2023 14:27	WG2029247
Selenium	0.0254		0.000300	0.00200	1	03/27/2023 14:27	WG2029247
Selenium,Dissolved	0.0233		0.000300	0.00200	1	03/26/2023 21:27	WG2029231
Sodium	6340		3.76	20.0	10	03/27/2023 15:57	WG2029247

Sample Narrative:

L1597529-24 WG2029231: Dilution due to matrix.

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	3.11	B	0.628	2.00	20	03/26/2023 18:44	WG2030301
(S) a,a,a-Trifluorotoluene(FID)	*97.1*			*78.0-120*		*03/26/2023 18:44*	WG2030301

Sample Narrative:

L1597529-24 WG2030301: Elevated RL due to foamy matrix.

Received by OCD: 6/12/2024 3:31:05 PM

DUP-LP-02
Collected date/time: 03/22/23 12:00
L1597529

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	03/27/2023 20:39	WG2030834
Benzene	U		0.0000941	0.00100	1	03/27/2023 20:39	WG2030834
Bromodichloromethane	U		0.000136	0.00100	1	03/27/2023 20:39	WG2030834
Bromoform	U		0.000129	0.00100	1	03/27/2023 20:39	WG2030834
Bromomethane	U		0.000605	0.00500	1	03/27/2023 20:39	WG2030834
n-Butylbenzene	U		0.000157	0.00100	1	03/27/2023 20:39	WG2030834
sec-Butylbenzene	U		0.000125	0.00100	1	03/27/2023 20:39	WG2030834
Carbon disulfide	U		0.0000962	0.00100	1	03/27/2023 20:39	WG2030834
Carbon tetrachloride	U		0.000128	0.00100	1	03/27/2023 20:39	WG2030834
Chlorobenzene	U		0.000116	0.00100	1	03/27/2023 20:39	WG2030834
Chlorodibromomethane	U		0.000140	0.00100	1	03/27/2023 20:39	WG2030834
Chloroethane	U		0.000192	0.00500	1	03/27/2023 20:39	WG2030834
Chloroform	U		0.000111	0.00500	1	03/27/2023 20:39	WG2030834
Chloromethane	U		0.000960	0.00250	1	03/27/2023 20:39	WG2030834
1,2-Dibromoethane	U		0.000126	0.00100	1	03/27/2023 20:39	WG2030834
1,1-Dichloroethane	U		0.000100	0.00100	1	03/27/2023 20:39	WG2030834
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/27/2023 20:39	WG2030834
1,1-Dichloroethene	U		0.000188	0.00100	1	03/27/2023 20:39	WG2030834
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/27/2023 20:39	WG2030834
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/27/2023 20:39	WG2030834
1,2-Dichloropropane	U		0.000149	0.00100	1	03/27/2023 20:39	WG2030834
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/27/2023 20:39	WG2030834
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/27/2023 20:39	WG2030834
Ethylbenzene	U		0.000137	0.00100	1	03/27/2023 20:39	WG2030834
Isopropylbenzene	U		0.000105	0.00100	1	03/27/2023 20:39	WG2030834
p-Isopropyltoluene	U		0.000120	0.00100	1	03/27/2023 20:39	WG2030834
2-Butanone (MEK)	U	J3	0.00119	0.0100	1	03/27/2023 20:39	WG2030834
2-Hexanone	U		0.000787	0.0100	1	03/27/2023 20:39	WG2030834
Methylene Chloride	U		0.000430	0.00500	1	03/27/2023 20:39	WG2030834
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/27/2023 20:39	WG2030834
Methyl tert-butyl ether	0.00114		0.000101	0.00100	1	03/27/2023 20:39	WG2030834
Naphthalene	U		0.00100	0.00500	1	03/27/2023 20:39	WG2030834
n-Propylbenzene	U		0.0000993	0.00100	1	03/27/2023 20:39	WG2030834
Styrene	U		0.000118	0.00100	1	03/27/2023 20:39	WG2030834
tert-Butyl alcohol	0.00750		0.00406	0.00500	1	03/27/2023 20:39	WG2030834
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/27/2023 20:39	WG2030834
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/27/2023 20:39	WG2030834
Tetrachloroethene	U		0.000300	0.00100	1	03/27/2023 20:39	WG2030834
Toluene	U		0.000278	0.00100	1	03/27/2023 20:39	WG2030834
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/27/2023 20:39	WG2030834
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/27/2023 20:39	WG2030834
Trichloroethene	U		0.000190	0.00100	1	03/27/2023 20:39	WG2030834
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/27/2023 20:39	WG2030834
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/27/2023 20:39	WG2030834
Vinyl chloride	U		0.000234	0.00100	1	03/27/2023 20:39	WG2030834
o-Xylene	U		0.000174	0.00100	1	03/27/2023 20:39	WG2030834
m&p-Xylene	U		0.000430	0.00200	1	03/27/2023 20:39	WG2030834
Xylenes, Total	U		0.000174	0.00300	1	03/27/2023 20:39	WG2030834
(S) Toluene-d8	*108*			*80.0-120*		*03/27/2023 20:39*	WG2030834
(S) 4-Bromofluorobenzene	*106*			*77.0-126*		*03/27/2023 20:39*	WG2030834
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*03/27/2023 20:39*	WG2030834

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	1.42		0.0247	0.100	1	04/01/2023 04:07	WG2031808

Released to Imaging: 6/28/2024 11:23:28 AM

Received by OCD: 6/12/2024 3:31:05 PM

DUP-LP-02
Collected date/time: 03/22/23 12:00
L1597529

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	*105*			*31.0-160*		*04/01/2023 04:07*	WG2031808

Released to Imaging: 6/28/2024 11:23:28 AM

Received by OCD: 6/12/2024 3:31:05 PM

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4680		100	1	03/25/2023 07:21	WG2029580

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1740		3.79	10.0	10	03/30/2023 01:42	WG2029199
Fluoride	2.22		0.640	1.50	10	03/30/2023 01:42	WG2029199
Nitrate	2.08	Q	0.480	1.00	10	03/30/2023 01:42	WG2029199
Nitrite	U	Q	0.420	1.00	10	03/30/2023 01:42	WG2029199
Sulfate	1930		59.4	500	100	03/30/2023 01:58	WG2029199

Sample Narrative:

L1597529-25 WG2029199: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0265		0.000180	0.00200	1	03/27/2023 14:56	WG2029247
Arsenic,Dissolved	0.0238		0.000180	0.00200	1	03/26/2023 21:31	WG2029231
Barium	0.0128		0.000381	0.00200	1	03/27/2023 14:56	WG2029247
Barium,Dissolved	0.0144		0.000381	0.00200	1	03/26/2023 21:31	WG2029231
Calcium	637		0.0936	1.00	1	03/27/2023 14:56	WG2029247
Chromium	U		0.00124	0.00200	1	03/27/2023 14:56	WG2029247
Chromium,Dissolved	U		0.00124	0.00200	1	03/26/2023 21:31	WG2029231
Iron	0.0433	J	0.0281	0.100	1	03/27/2023 14:56	WG2029247
Iron,Dissolved	U		0.0281	0.100	1	03/26/2023 21:31	WG2029231
Lead	U		0.000849	0.00200	1	03/27/2023 14:56	WG2029247
Lead,Dissolved	U		0.000849	0.00200	1	03/26/2023 21:31	WG2029231
Manganese	0.893		0.000704	0.00500	1	03/27/2023 14:56	WG2029247
Manganese,Dissolved	0.897		0.000704	0.00500	1	03/26/2023 21:31	WG2029231
Potassium	5.46		0.108	2.00	1	03/27/2023 14:56	WG2029247
Selenium	0.0356		0.000300	0.00200	1	03/27/2023 14:56	WG2029247
Selenium,Dissolved	0.0300		0.000300	0.00200	1	03/26/2023 21:31	WG2029231
Sodium	1050		1.88	10.0	5	03/27/2023 16:00	WG2029247

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	1.30	B J	0.628	2.00	20	03/26/2023 19:06	WG2030301
(S) a,a,a-Trifluorotoluene(FID)	*96.9*			*78.0-120*		*03/26/2023 19:06*	WG2030301

Sample Narrative:

L1597529-25 WG2030301: Elevated RL due to foamy matrix.

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	03/27/2023 21:01	WG2030834
Benzene	U		0.0000941	0.00100	1	03/27/2023 21:01	WG2030834
Bromodichloromethane	U		0.000136	0.00100	1	03/27/2023 21:01	WG2030834
Bromoform	U		0.000129	0.00100	1	03/27/2023 21:01	WG2030834
Bromomethane	U		0.000605	0.00500	1	03/27/2023 21:01	WG2030834
n-Butylbenzene	U		0.000157	0.00100	1	03/27/2023 21:01	WG2030834

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Collected date/time: 03/22/23 14:00
L1597529

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	U		0.000125	0.00100	1	03/27/2023 21:01	WG2030834
Carbon disulfide	U		0.0000962	0.00100	1	03/27/2023 21:01	WG2030834
Carbon tetrachloride	U		0.000128	0.00100	1	03/27/2023 21:01	WG2030834
Chlorobenzene	U		0.000116	0.00100	1	03/27/2023 21:01	WG2030834
Chlorodibromomethane	U		0.000140	0.00100	1	03/27/2023 21:01	WG2030834
Chloroethane	U		0.000192	0.00500	1	03/27/2023 21:01	WG2030834
Chloroform	U		0.000111	0.00500	1	03/27/2023 21:01	WG2030834
Chloromethane	U		0.000960	0.00250	1	03/27/2023 21:01	WG2030834
1,2-Dibromoethane	U		0.000126	0.00100	1	03/27/2023 21:01	WG2030834
1,1-Dichloroethane	U		0.000100	0.00100	1	03/27/2023 21:01	WG2030834
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/27/2023 21:01	WG2030834
1,1-Dichloroethene	U		0.000188	0.00100	1	03/27/2023 21:01	WG2030834
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/27/2023 21:01	WG2030834
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/27/2023 21:01	WG2030834
1,2-Dichloropropane	U		0.000149	0.00100	1	03/27/2023 21:01	WG2030834
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/27/2023 21:01	WG2030834
trans-1,3-Dichloropropene	0.000312	J	0.000118	0.00100	1	03/27/2023 21:01	WG2030834
Ethylbenzene	U		0.000137	0.00100	1	03/27/2023 21:01	WG2030834
Isopropylbenzene	U		0.000105	0.00100	1	03/27/2023 21:01	WG2030834
p-Isopropyltoluene	U		0.000120	0.00100	1	03/27/2023 21:01	WG2030834
2-Butanone (MEK)	U	J3	0.00119	0.0100	1	03/27/2023 21:01	WG2030834
2-Hexanone	U		0.000787	0.0100	1	03/27/2023 21:01	WG2030834
Methylene Chloride	U		0.000430	0.00500	1	03/27/2023 21:01	WG2030834
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/27/2023 21:01	WG2030834
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/27/2023 21:01	WG2030834
Naphthalene	U		0.00100	0.00500	1	03/27/2023 21:01	WG2030834
n-Propylbenzene	U		0.0000993	0.00100	1	03/27/2023 21:01	WG2030834
Styrene	U		0.000118	0.00100	1	03/27/2023 21:01	WG2030834
tert-Butyl alcohol	0.00738		0.00406	0.00500	1	03/27/2023 21:01	WG2030834
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/27/2023 21:01	WG2030834
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/27/2023 21:01	WG2030834
Tetrachloroethene	U		0.000300	0.00100	1	03/27/2023 21:01	WG2030834
Toluene	U		0.000278	0.00100	1	03/27/2023 21:01	WG2030834
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/27/2023 21:01	WG2030834
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/27/2023 21:01	WG2030834
Trichloroethene	U		0.000190	0.00100	1	03/27/2023 21:01	WG2030834
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/27/2023 21:01	WG2030834
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/27/2023 21:01	WG2030834
Vinyl chloride	U		0.000234	0.00100	1	03/27/2023 21:01	WG2030834
o-Xylene	U		0.000174	0.00100	1	03/27/2023 21:01	WG2030834
m&p-Xylene	U		0.000430	0.00200	1	03/27/2023 21:01	WG2030834
Xylenes, Total	U		0.000174	0.00300	1	03/27/2023 21:01	WG2030834
(S) Toluene-d8	*107*			*80.0-120*		*03/27/2023 21:01*	WG2030834
(S) 4-Bromofluorobenzene	*108*			*77.0-126*		*03/27/2023 21:01*	WG2030834
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*03/27/2023 21:01*	WG2030834

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	4.95		0.0247	0.100	1	03/30/2023 22:10	WG2031808
(S) o-Terphenyl	*111*			*31.0-160*		*03/30/2023 22:10*	WG2031808

Released to Imaging: 6/28/2024 11:23:28 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
Acetone	U		0.0113	0.0500	1	03/27/2023 21:22	WG2030834
Benzene	U		0.0000941	0.00100	1	03/27/2023 21:22	WG2030834
Bromodichloromethane	U		0.000136	0.00100	1	03/27/2023 21:22	WG2030834
Bromoform	U		0.000129	0.00100	1	03/27/2023 21:22	WG2030834
Bromomethane	U		0.000605	0.00500	1	03/27/2023 21:22	WG2030834
n-Butylbenzene	U		0.000157	0.00100	1	03/27/2023 21:22	WG2030834
sec-Butylbenzene	U		0.000125	0.00100	1	03/27/2023 21:22	WG2030834
Carbon disulfide	U		0.0000962	0.00100	1	03/27/2023 21:22	WG2030834
Carbon tetrachloride	U		0.000128	0.00100	1	03/27/2023 21:22	WG2030834
Chlorobenzene	U		0.000116	0.00100	1	03/27/2023 21:22	WG2030834
Chlorodibromomethane	U		0.000140	0.00100	1	03/27/2023 21:22	WG2030834
Chloroethane	U		0.000192	0.00500	1	03/27/2023 21:22	WG2030834
Chloroform	U		0.000111	0.00500	1	03/27/2023 21:22	WG2030834
Chloromethane	U		0.000960	0.00250	1	03/27/2023 21:22	WG2030834
1,2-Dibromoethane	U		0.000126	0.00100	1	03/27/2023 21:22	WG2030834
1,1-Dichloroethane	U		0.000100	0.00100	1	03/27/2023 21:22	WG2030834
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/27/2023 21:22	WG2030834
1,1-Dichloroethene	U		0.000188	0.00100	1	03/27/2023 21:22	WG2030834
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/27/2023 21:22	WG2030834
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/27/2023 21:22	WG2030834
1,2-Dichloropropane	U		0.000149	0.00100	1	03/27/2023 21:22	WG2030834
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/27/2023 21:22	WG2030834
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/27/2023 21:22	WG2030834
Ethylbenzene	U		0.000137	0.00100	1	03/27/2023 21:22	WG2030834
Isopropylbenzene	U		0.000105	0.00100	1	03/27/2023 21:22	WG2030834
p-Isopropyltoluene	U		0.000120	0.00100	1	03/27/2023 21:22	WG2030834
2-Butanone (MEK)	U	J3	0.00119	0.0100	1	03/27/2023 21:22	WG2030834
2-Hexanone	U		0.000787	0.0100	1	03/27/2023 21:22	WG2030834
Methylene Chloride	U		0.000430	0.00500	1	03/27/2023 21:22	WG2030834
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/27/2023 21:22	WG2030834
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/27/2023 21:22	WG2030834
Naphthalene	U		0.00100	0.00500	1	03/27/2023 21:22	WG2030834
n-Propylbenzene	U		0.0000993	0.00100	1	03/27/2023 21:22	WG2030834
Styrene	U		0.000118	0.00100	1	03/27/2023 21:22	WG2030834
tert-Butyl alcohol	U		0.00406	0.00500	1	03/27/2023 21:22	WG2030834
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/27/2023 21:22	WG2030834
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/27/2023 21:22	WG2030834
Tetrachloroethene	U		0.000300	0.00100	1	03/27/2023 21:22	WG2030834
Toluene	U		0.000278	0.00100	1	03/27/2023 21:22	WG2030834
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/27/2023 21:22	WG2030834
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/27/2023 21:22	WG2030834
Trichloroethene	U		0.000190	0.00100	1	03/27/2023 21:22	WG2030834
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/27/2023 21:22	WG2030834
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/27/2023 21:22	WG2030834
Vinyl chloride	U		0.000234	0.00100	1	03/27/2023 21:22	WG2030834
o-Xylene	U		0.000174	0.00100	1	03/27/2023 21:22	WG2030834
m&p-Xylene	U		0.000430	0.00200	1	03/27/2023 21:22	WG2030834
Xylenes, Total	U		0.000174	0.00300	1	03/27/2023 21:22	WG2030834
(S) Toluene-d8	*108*			*80.0-120*		*03/27/2023 21:22*	WG2030834
(S) 4-Bromofluorobenzene	*101*			*77.0-126*		*03/27/2023 21:22*	WG2030834
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*03/27/2023 21:22*	WG2030834

KWD-14
Collected date/time: 03/22/23 08:00
L1597529

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	0.0962	J	0.0247	0.100	1	04/01/2023 02:37	WG2031808
(S) o-Terphenyl	*103*			*31.0-160*		*04/01/2023 02:37*	WG2031808

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	7500		200	1	03/25/2023 07:21	WG2029580

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	2390		37.9	100	100	03/24/2023 19:20	WG2029193
Fluoride	2.98		0.640	1.50	10	03/24/2023 19:07	WG2029193
Nitrate	U	Q	0.480	1.00	10	03/24/2023 19:07	WG2029193
Nitrite	U	Q	0.420	1.00	10	03/24/2023 19:07	WG2029193
Sulfate	3120		59.4	500	100	03/24/2023 19:20	WG2029193

Sample Narrative:

L1597529-28 WG2029193: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0224		0.000180	0.00200	1	03/27/2023 14:59	WG2029247
Arsenic,Dissolved	0.0209		0.000180	0.00200	1	03/26/2023 21:34	WG2029231
Barium	0.0231		0.000381	0.00200	1	03/27/2023 14:59	WG2029247
Barium,Dissolved	0.0259		0.000381	0.00200	1	03/26/2023 21:34	WG2029231
Calcium	562		0.0936	1.00	1	03/27/2023 14:59	WG2029247
Chromium	U		0.00124	0.00200	1	03/27/2023 14:59	WG2029247
Chromium,Dissolved	U		0.00124	0.00200	1	03/26/2023 21:34	WG2029231
Iron	8.74		0.0281	0.100	1	03/27/2023 14:59	WG2029247
Iron,Dissolved	8.02		0.0281	0.100	1	03/26/2023 21:34	WG2029231
Lead	U		0.000849	0.00200	1	03/27/2023 14:59	WG2029247
Lead,Dissolved	U		0.000849	0.00200	1	03/26/2023 21:34	WG2029231
Manganese	2.79		0.000704	0.00500	1	03/27/2023 14:59	WG2029247
Manganese,Dissolved	2.98		0.000704	0.00500	1	03/26/2023 21:34	WG2029231
Potassium	3.61		0.108	2.00	1	03/27/2023 14:59	WG2029247
Selenium	0.00115	J	0.000300	0.00200	1	03/27/2023 14:59	WG2029247
Selenium,Dissolved	0.000329	J	0.000300	0.00200	1	03/26/2023 21:34	WG2029231
Sodium	1850		1.88	10.0	5	03/27/2023 16:03	WG2029247

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	0.0680	B J	0.0314	0.100	1	03/26/2023 13:57	WG2030301
(S) a,a,a-Trifluorotoluene(FID)	*96.4*			*78.0-120*		*03/26/2023 13:57*	WG2030301

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	03/27/2023 21:44	WG2030834
Benzene	U		0.0000941	0.00100	1	03/27/2023 21:44	WG2030834
Bromodichloromethane	U		0.000136	0.00100	1	03/27/2023 21:44	WG2030834
Bromoform	U		0.000129	0.00100	1	03/27/2023 21:44	WG2030834
Bromomethane	U		0.000605	0.00500	1	03/27/2023 21:44	WG2030834
n-Butylbenzene	U		0.000157	0.00100	1	03/27/2023 21:44	WG2030834
sec-Butylbenzene	U		0.000125	0.00100	1	03/27/2023 21:44	WG2030834
Carbon disulfide	U		0.0000962	0.00100	1	03/27/2023 21:44	WG2030834
Carbon tetrachloride	U		0.000128	0.00100	1	03/27/2023 21:44	WG2030834

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	03/27/2023 21:44	WG2030834
Chlorodibromomethane	U		0.000140	0.00100	1	03/27/2023 21:44	WG2030834
Chloroethane	U		0.000192	0.00500	1	03/27/2023 21:44	WG2030834
Chloroform	U		0.000111	0.00500	1	03/27/2023 21:44	WG2030834
Chloromethane	U		0.000960	0.00250	1	03/27/2023 21:44	WG2030834
1,2-Dibromoethane	U		0.000126	0.00100	1	03/27/2023 21:44	WG2030834
1,1-Dichloroethane	U		0.000100	0.00100	1	03/27/2023 21:44	WG2030834
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/27/2023 21:44	WG2030834
1,1-Dichloroethene	U		0.000188	0.00100	1	03/27/2023 21:44	WG2030834
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/27/2023 21:44	WG2030834
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/27/2023 21:44	WG2030834
1,2-Dichloropropane	U		0.000149	0.00100	1	03/27/2023 21:44	WG2030834
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/27/2023 21:44	WG2030834
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/27/2023 21:44	WG2030834
Ethylbenzene	U		0.000137	0.00100	1	03/27/2023 21:44	WG2030834
Isopropylbenzene	U		0.000105	0.00100	1	03/27/2023 21:44	WG2030834
p-Isopropyltoluene	U		0.000120	0.00100	1	03/27/2023 21:44	WG2030834
2-Butanone (MEK)	U	J3	0.00119	0.0100	1	03/27/2023 21:44	WG2030834
2-Hexanone	U		0.000787	0.0100	1	03/27/2023 21:44	WG2030834
Methylene Chloride	U		0.000430	0.00500	1	03/27/2023 21:44	WG2030834
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/27/2023 21:44	WG2030834
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/27/2023 21:44	WG2030834
Naphthalene	U		0.00100	0.00500	1	03/27/2023 21:44	WG2030834
n-Propylbenzene	U		0.0000993	0.00100	1	03/27/2023 21:44	WG2030834
Styrene	U		0.000118	0.00100	1	03/27/2023 21:44	WG2030834
tert-Butyl alcohol	U		0.00406	0.00500	1	03/27/2023 21:44	WG2030834
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/27/2023 21:44	WG2030834
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/27/2023 21:44	WG2030834
Tetrachloroethene	U		0.000300	0.00100	1	03/27/2023 21:44	WG2030834
Toluene	U		0.000278	0.00100	1	03/27/2023 21:44	WG2030834
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/27/2023 21:44	WG2030834
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/27/2023 21:44	WG2030834
Trichloroethene	U		0.000190	0.00100	1	03/27/2023 21:44	WG2030834
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/27/2023 21:44	WG2030834
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/27/2023 21:44	WG2030834
Vinyl chloride	U		0.000234	0.00100	1	03/27/2023 21:44	WG2030834
o-Xylene	U		0.000174	0.00100	1	03/27/2023 21:44	WG2030834
m&p-Xylene	U		0.000430	0.00200	1	03/27/2023 21:44	WG2030834
Xylenes, Total	U		0.000174	0.00300	1	03/27/2023 21:44	WG2030834
(S) Toluene-d8	*106*			*80.0-120*		*03/27/2023 21:44*	WG2030834
(S) 4-Bromofluorobenzene	*107*			*77.0-126*		*03/27/2023 21:44*	WG2030834
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*03/27/2023 21:44*	WG2030834

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	0.283		0.0247	0.100	1	03/30/2023 22:55	WG2031808
(S) o-Terphenyl	*98.5*			*31.0-160*		*03/30/2023 22:55*	WG2031808

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4660		100	1	03/25/2023 07:21	WG2029580

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1880		3.79	10.0	10	03/24/2023 12:04	WG2029193
Fluoride	0.763	J	0.640	1.50	10	03/24/2023 12:04	WG2029193
Nitrate	U		0.480	1.00	10	03/24/2023 12:04	WG2029193
Nitrite	U		0.420	1.00	10	03/24/2023 12:04	WG2029193
Sulfate	2010		59.4	500	100	03/24/2023 13:47	WG2029193

Sample Narrative:

L1597529-29 WG2029193: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00171	J	0.000180	0.00200	1	03/27/2023 15:02	WG2029247
Arsenic,Dissolved	0.00127	J	0.000180	0.00200	1	03/26/2023 21:45	WG2029231
Barium	0.0227		0.000381	0.00200	1	03/27/2023 15:02	WG2029247
Barium,Dissolved	0.0240		0.000381	0.00200	1	03/26/2023 21:45	WG2029231
Calcium	709		0.0936	1.00	1	03/27/2023 15:02	WG2029247
Chromium	U		0.00124	0.00200	1	03/27/2023 15:02	WG2029247
Chromium,Dissolved	U		0.00124	0.00200	1	03/26/2023 21:45	WG2029231
Iron	1.31		0.0281	0.100	1	03/27/2023 15:02	WG2029247
Iron,Dissolved	1.31		0.0281	0.100	1	03/26/2023 21:45	WG2029231
Lead	U		0.000849	0.00200	1	03/27/2023 15:02	WG2029247
Lead,Dissolved	U		0.000849	0.00200	1	03/26/2023 21:45	WG2029231
Manganese	0.676		0.000704	0.00500	1	03/27/2023 15:02	WG2029247
Manganese,Dissolved	0.971		0.000704	0.00500	1	03/26/2023 21:45	WG2029231
Potassium	5.41		0.108	2.00	1	03/27/2023 15:02	WG2029247
Selenium	0.00110	J	0.000300	0.00200	1	03/27/2023 15:02	WG2029247
Selenium,Dissolved	0.000351	J	0.000300	0.00200	1	03/26/2023 21:45	WG2029231
Sodium	1060		1.88	10.0	5	03/27/2023 16:07	WG2029247

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	0.0579	B J	0.0314	0.100	1	03/26/2023 14:19	WG2030301
(S) a,a,a-Trifluorotoluene(FID)	*96.8*			*78.0-120*		*03/26/2023 14:19*	WG2030301

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	03/27/2023 16:24	WG2030849
Benzene	U		0.0000941	0.00100	1	03/27/2023 16:24	WG2030849
Bromodichloromethane	U		0.000136	0.00100	1	03/27/2023 16:24	WG2030849
Bromoform	U		0.000129	0.00100	1	03/27/2023 16:24	WG2030849
Bromomethane	U		0.000605	0.00500	1	03/27/2023 16:24	WG2030849
n-Butylbenzene	U		0.000157	0.00100	1	03/27/2023 16:24	WG2030849
sec-Butylbenzene	U		0.000125	0.00100	1	03/27/2023 16:24	WG2030849
Carbon disulfide	0.000317	B J	0.0000962	0.00100	1	03/27/2023 16:24	WG2030849
Carbon tetrachloride	U		0.000128	0.00100	1	03/27/2023 16:24	WG2030849

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	03/27/2023 16:24	WG2030849
Chlorodibromomethane	U		0.000140	0.00100	1	03/27/2023 16:24	WG2030849
Chloroethane	U		0.000192	0.00500	1	03/27/2023 16:24	WG2030849
Chloroform	U		0.000111	0.00500	1	03/27/2023 16:24	WG2030849
Chloromethane	U		0.000960	0.00250	1	03/27/2023 16:24	WG2030849
1,2-Dibromoethane	U		0.000126	0.00100	1	03/27/2023 16:24	WG2030849
1,1-Dichloroethane	U		0.000100	0.00100	1	03/27/2023 16:24	WG2030849
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/27/2023 16:24	WG2030849
1,1-Dichloroethene	U		0.000188	0.00100	1	03/27/2023 16:24	WG2030849
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/27/2023 16:24	WG2030849
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/27/2023 16:24	WG2030849
1,2-Dichloropropane	U		0.000149	0.00100	1	03/27/2023 16:24	WG2030849
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/27/2023 16:24	WG2030849
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/27/2023 16:24	WG2030849
Ethylbenzene	U		0.000137	0.00100	1	03/27/2023 16:24	WG2030849
Isopropylbenzene	U		0.000105	0.00100	1	03/27/2023 16:24	WG2030849
p-Isopropyltoluene	U		0.000120	0.00100	1	03/27/2023 16:24	WG2030849
2-Butanone (MEK)	U		0.00119	0.0100	1	03/27/2023 16:24	WG2030849
2-Hexanone	U		0.000787	0.0100	1	03/27/2023 16:24	WG2030849
Methylene Chloride	U		0.000430	0.00500	1	03/27/2023 16:24	WG2030849
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/27/2023 16:24	WG2030849
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/27/2023 16:24	WG2030849
Naphthalene	U		0.00100	0.00500	1	03/27/2023 16:24	WG2030849
n-Propylbenzene	U		0.0000993	0.00100	1	03/27/2023 16:24	WG2030849
Styrene	U		0.000118	0.00100	1	03/27/2023 16:24	WG2030849
tert-Butyl alcohol	U		0.00406	0.00500	1	03/27/2023 16:24	WG2030849
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/27/2023 16:24	WG2030849
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/27/2023 16:24	WG2030849
Tetrachloroethene	U		0.000300	0.00100	1	03/27/2023 16:24	WG2030849
Toluene	U		0.000278	0.00100	1	03/27/2023 16:24	WG2030849
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/27/2023 16:24	WG2030849
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/27/2023 16:24	WG2030849
Trichloroethene	U		0.000190	0.00100	1	03/27/2023 16:24	WG2030849
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/27/2023 16:24	WG2030849
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/27/2023 16:24	WG2030849
Vinyl chloride	U		0.000234	0.00100	1	03/27/2023 16:24	WG2030849
o-Xylene	U		0.000174	0.00100	1	03/27/2023 16:24	WG2030849
m&p-Xylene	U		0.000430	0.00200	1	03/27/2023 16:24	WG2030849
Xylenes, Total	U		0.000174	0.00300	1	03/27/2023 16:24	WG2030849
(S) Toluene-d8	*102*			*80.0-120*		*03/27/2023 16:24*	WG2030849
(S) 4-Bromofluorobenzene	*98.6*			*77.0-126*		*03/27/2023 16:24*	WG2030849
(S) 1,2-Dichloroethane-d4	*125*			*70.0-130*		*03/27/2023 16:24*	WG2030849

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	0.166		0.0247	0.100	1	03/30/2023 23:17	WG2031808
(S) o-Terphenyl	*93.0*			*31.0-160*		*03/30/2023 23:17*	WG2031808

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3560		100	1	03/25/2023 07:21	WG2029580

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1070		3.79	10.0	10	03/29/2023 01:08	WG2029188
Fluoride	1.26	J	0.640	1.50	10	03/29/2023 01:08	WG2029188
Nitrate	U	Q	0.480	1.00	10	03/29/2023 01:08	WG2029188
Nitrite	U	Q	0.420	1.00	10	03/29/2023 01:08	WG2029188
Sulfate	1720		5.94	50.0	10	03/29/2023 01:08	WG2029188

Sample Narrative:

L1597529-30 WG2029188: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.000930	J	0.000180	0.00200	1	03/27/2023 15:06	WG2029247
Arsenic,Dissolved	0.000867	J	0.000180	0.00200	1	03/26/2023 21:48	WG2029231
Barium	0.0212		0.000381	0.00200	1	03/27/2023 15:06	WG2029247
Barium,Dissolved	0.0224		0.000381	0.00200	1	03/26/2023 21:48	WG2029231
Calcium	601		0.0936	1.00	1	03/27/2023 15:06	WG2029247
Chromium	U		0.00124	0.00200	1	03/27/2023 15:06	WG2029247
Chromium,Dissolved	U		0.00124	0.00200	1	03/26/2023 21:48	WG2029231
Iron	0.161		0.0281	0.100	1	03/27/2023 15:06	WG2029247
Iron,Dissolved	0.118		0.0281	0.100	1	03/26/2023 21:48	WG2029231
Lead	U		0.000849	0.00200	1	03/27/2023 15:06	WG2029247
Lead,Dissolved	U		0.000849	0.00200	1	03/26/2023 21:48	WG2029231
Manganese	0.226		0.000704	0.00500	1	03/27/2023 15:06	WG2029247
Manganese,Dissolved	0.365		0.000704	0.00500	1	03/26/2023 21:48	WG2029231
Potassium	8.36		0.108	2.00	1	03/27/2023 15:06	WG2029247
Selenium	0.000551	J	0.000300	0.00200	1	03/27/2023 15:06	WG2029247
Selenium,Dissolved	U		0.000300	0.00200	1	03/26/2023 21:48	WG2029231
Sodium	546		0.376	2.00	1	03/27/2023 15:06	WG2029247

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	03/26/2023 13:02	WG2030302
(S) a,a,a-Trifluorotoluene(FID)	*111*			*78.0-120*		*03/26/2023 13:02*	WG2030302

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	03/27/2023 16:44	WG2030849
Benzene	U		0.0000941	0.00100	1	03/27/2023 16:44	WG2030849
Bromodichloromethane	U		0.000136	0.00100	1	03/27/2023 16:44	WG2030849
Bromoform	U		0.000129	0.00100	1	03/27/2023 16:44	WG2030849
Bromomethane	U		0.000605	0.00500	1	03/27/2023 16:44	WG2030849
n-Butylbenzene	U		0.000157	0.00100	1	03/27/2023 16:44	WG2030849
sec-Butylbenzene	U		0.000125	0.00100	1	03/27/2023 16:44	WG2030849
Carbon disulfide	0.000456	B J	0.0000962	0.00100	1	03/27/2023 16:44	WG2030849
Carbon tetrachloride	U		0.000128	0.00100	1	03/27/2023 16:44	WG2030849

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	03/27/2023 16:44	WG2030849
Chlorodibromomethane	U		0.000140	0.00100	1	03/27/2023 16:44	WG2030849
Chloroethane	U		0.000192	0.00500	1	03/27/2023 16:44	WG2030849
Chloroform	U		0.000111	0.00500	1	03/27/2023 16:44	WG2030849
Chloromethane	U		0.000960	0.00250	1	03/27/2023 16:44	WG2030849
1,2-Dibromoethane	U		0.000126	0.00100	1	03/27/2023 16:44	WG2030849
1,1-Dichloroethane	U		0.000100	0.00100	1	03/27/2023 16:44	WG2030849
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/27/2023 16:44	WG2030849
1,1-Dichloroethene	U		0.000188	0.00100	1	03/27/2023 16:44	WG2030849
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/27/2023 16:44	WG2030849
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/27/2023 16:44	WG2030849
1,2-Dichloropropane	U		0.000149	0.00100	1	03/27/2023 16:44	WG2030849
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/27/2023 16:44	WG2030849
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/27/2023 16:44	WG2030849
Ethylbenzene	U		0.000137	0.00100	1	03/27/2023 16:44	WG2030849
Isopropylbenzene	U		0.000105	0.00100	1	03/27/2023 16:44	WG2030849
p-Isopropyltoluene	U		0.000120	0.00100	1	03/27/2023 16:44	WG2030849
2-Butanone (MEK)	U		0.00119	0.0100	1	03/27/2023 16:44	WG2030849
2-Hexanone	U		0.000787	0.0100	1	03/27/2023 16:44	WG2030849
Methylene Chloride	U		0.000430	0.00500	1	03/27/2023 16:44	WG2030849
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/27/2023 16:44	WG2030849
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/27/2023 16:44	WG2030849
Naphthalene	U		0.00100	0.00500	1	03/27/2023 16:44	WG2030849
n-Propylbenzene	U		0.0000993	0.00100	1	03/27/2023 16:44	WG2030849
Styrene	U		0.000118	0.00100	1	03/27/2023 16:44	WG2030849
tert-Butyl alcohol	U		0.00406	0.00500	1	03/27/2023 16:44	WG2030849
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/27/2023 16:44	WG2030849
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/27/2023 16:44	WG2030849
Tetrachloroethene	U		0.000300	0.00100	1	03/27/2023 16:44	WG2030849
Toluene	U		0.000278	0.00100	1	03/27/2023 16:44	WG2030849
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/27/2023 16:44	WG2030849
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/27/2023 16:44	WG2030849
Trichloroethene	U		0.000190	0.00100	1	03/27/2023 16:44	WG2030849
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/27/2023 16:44	WG2030849
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/27/2023 16:44	WG2030849
Vinyl chloride	U		0.000234	0.00100	1	03/27/2023 16:44	WG2030849
o-Xylene	U		0.000174	0.00100	1	03/27/2023 16:44	WG2030849
m&p-Xylene	U		0.000430	0.00200	1	03/27/2023 16:44	WG2030849
Xylenes, Total	U		0.000174	0.00300	1	03/27/2023 16:44	WG2030849
(S) Toluene-d8	*100*			*80.0-120*		*03/27/2023 16:44*	WG2030849
(S) 4-Bromofluorobenzene	*97.1*			*77.0-126*		*03/27/2023 16:44*	WG2030849
(S) 1,2-Dichloroethane-d4	*125*			*70.0-130*		*03/27/2023 16:44*	WG2030849

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	0.126		0.0247	0.100	1	03/30/2023 23:39	WG2031808
(S) o-Terphenyl	*95.0*			*31.0-160*		*03/30/2023 23:39*	WG2031808

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	03/29/2023 16:48	WG2030234
(S) Nitrobenzene-d5	*37.0*			*10.0-120*		*03/29/2023 16:48*	WG2030234

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	11400		200	1	03/25/2023 07:21	WG2029580

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	5320		19.0	50.0	50	03/28/2023 17:37	WG2029184
Fluoride	3.91	B J	3.20	7.50	50	03/28/2023 17:37	WG2029184
Nitrate	3.41	B J Q	2.40	5.00	50	03/28/2023 17:37	WG2029184
Nitrite	U	Q	2.10	5.00	50	03/28/2023 17:37	WG2029184
Sulfate	3240		29.7	250	50	03/28/2023 17:37	WG2029184

Sample Narrative:

L1597529-31 WG2029184: Dilution due to matrix.

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	03/27/2023 15:09	WG2029247
Arsenic,Dissolved	0.00120	J	0.000180	0.00200	1	03/26/2023 21:51	WG2029231
Barium	0.0216		0.000381	0.00200	1	03/27/2023 15:09	WG2029247
Barium,Dissolved	0.0236		0.000381	0.00200	1	03/26/2023 21:51	WG2029231
Calcium	853		0.0936	1.00	1	03/27/2023 15:09	WG2029247
Chromium	U		0.00124	0.00200	1	03/27/2023 15:09	WG2029247
Chromium,Dissolved	U		0.00124	0.00200	1	03/26/2023 21:51	WG2029231
Iron	1.75		0.0281	0.100	1	03/27/2023 15:09	WG2029247
Iron,Dissolved	0.468		0.0281	0.100	1	03/26/2023 21:51	WG2029231
Lead	U		0.000849	0.00200	1	03/27/2023 15:09	WG2029247
Lead,Dissolved	U		0.000849	0.00200	1	03/26/2023 21:51	WG2029231
Manganese	0.0540		0.000704	0.00500	1	03/27/2023 15:09	WG2029247
Manganese,Dissolved	0.0747		0.000704	0.00500	1	03/26/2023 21:51	WG2029231
Potassium	32.7		0.108	2.00	1	03/27/2023 15:09	WG2029247
Selenium	0.000637	J	0.000300	0.00200	1	03/27/2023 15:09	WG2029247
Selenium,Dissolved	U		0.000300	0.00200	1	03/26/2023 21:51	WG2029231
Sodium	3250		1.88	10.0	5	03/27/2023 16:10	WG2029247

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	03/26/2023 13:24	WG2030302
(S) a,a,a-Trifluorotoluene(FID)	*109*			*78.0-120*		*03/26/2023 13:24*	WG2030302

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	03/27/2023 17:04	WG2030849
Benzene	U		0.0000941	0.00100	1	03/27/2023 17:04	WG2030849
Bromodichloromethane	U		0.000136	0.00100	1	03/27/2023 17:04	WG2030849
Bromoform	U		0.000129	0.00100	1	03/27/2023 17:04	WG2030849
Bromomethane	U		0.000605	0.00500	1	03/27/2023 17:04	WG2030849
n-Butylbenzene	U		0.000157	0.00100	1	03/27/2023 17:04	WG2030849
sec-Butylbenzene	U		0.000125	0.00100	1	03/27/2023 17:04	WG2030849
Carbon disulfide	0.000285	B J	0.0000962	0.00100	1	03/27/2023 17:04	WG2030849
Carbon tetrachloride	U		0.000128	0.00100	1	03/27/2023 17:04	WG2030849

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	03/27/2023 17:04	WG2030849
Chlorodibromomethane	U		0.000140	0.00100	1	03/27/2023 17:04	WG2030849
Chloroethane	U		0.000192	0.00500	1	03/27/2023 17:04	WG2030849
Chloroform	U		0.000111	0.00500	1	03/27/2023 17:04	WG2030849
Chloromethane	U		0.000960	0.00250	1	03/27/2023 17:04	WG2030849
1,2-Dibromoethane	U		0.000126	0.00100	1	03/27/2023 17:04	WG2030849
1,1-Dichloroethane	U		0.000100	0.00100	1	03/27/2023 17:04	WG2030849
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/27/2023 17:04	WG2030849
1,1-Dichloroethene	U		0.000188	0.00100	1	03/27/2023 17:04	WG2030849
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/27/2023 17:04	WG2030849
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/27/2023 17:04	WG2030849
1,2-Dichloropropane	U		0.000149	0.00100	1	03/27/2023 17:04	WG2030849
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/27/2023 17:04	WG2030849
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/27/2023 17:04	WG2030849
Ethylbenzene	U		0.000137	0.00100	1	03/27/2023 17:04	WG2030849
Isopropylbenzene	U		0.000105	0.00100	1	03/27/2023 17:04	WG2030849
p-Isopropyltoluene	U		0.000120	0.00100	1	03/27/2023 17:04	WG2030849
2-Butanone (MEK)	U		0.00119	0.0100	1	03/27/2023 17:04	WG2030849
2-Hexanone	U		0.000787	0.0100	1	03/27/2023 17:04	WG2030849
Methylene Chloride	U		0.000430	0.00500	1	03/27/2023 17:04	WG2030849
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/27/2023 17:04	WG2030849
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/27/2023 17:04	WG2030849
Naphthalene	U		0.00100	0.00500	1	03/27/2023 17:04	WG2030849
n-Propylbenzene	U		0.0000993	0.00100	1	03/27/2023 17:04	WG2030849
Styrene	U		0.000118	0.00100	1	03/27/2023 17:04	WG2030849
tert-Butyl alcohol	U		0.00406	0.00500	1	03/27/2023 17:04	WG2030849
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/27/2023 17:04	WG2030849
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/27/2023 17:04	WG2030849
Tetrachloroethene	U		0.000300	0.00100	1	03/27/2023 17:04	WG2030849
Toluene	U		0.000278	0.00100	1	03/27/2023 17:04	WG2030849
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/27/2023 17:04	WG2030849
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/27/2023 17:04	WG2030849
Trichloroethene	U		0.000190	0.00100	1	03/27/2023 17:04	WG2030849
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/27/2023 17:04	WG2030849
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/27/2023 17:04	WG2030849
Vinyl chloride	U		0.000234	0.00100	1	03/27/2023 17:04	WG2030849
o-Xylene	U		0.000174	0.00100	1	03/27/2023 17:04	WG2030849
m&p-Xylene	U		0.000430	0.00200	1	03/27/2023 17:04	WG2030849
Xylenes, Total	U		0.000174	0.00300	1	03/27/2023 17:04	WG2030849
(S) Toluene-d8	*102*			*80.0-120*		*03/27/2023 17:04*	WG2030849
(S) 4-Bromofluorobenzene	*98.1*			*77.0-126*		*03/27/2023 17:04*	WG2030849
(S) 1,2-Dichloroethane-d4	*122*			*70.0-130*		*03/27/2023 17:04*	WG2030849

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	0.113		0.0247	0.100	1	03/31/2023 00:01	WG2031808
(S) o-Terphenyl	*91.5*			*31.0-160*		*03/31/2023 00:01*	WG2031808

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	15400		400	1	03/25/2023 07:21	WG2029580

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	8720		37.9	100	100	03/29/2023 01:56	WG2029188
Fluoride	0.997	J	0.640	1.50	10	03/29/2023 01:40	WG2029188
Nitrate	1.93	Q	0.480	1.00	10	03/29/2023 01:40	WG2029188
Nitrite	U	Q	0.420	1.00	10	03/29/2023 01:40	WG2029188
Sulfate	2920		59.4	500	100	03/29/2023 01:56	WG2029188

Sample Narrative:

L1597529-32 WG2029188: Dilution due to matrix.

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	03/28/2023 14:47	WG2029248
Arsenic,Dissolved	0.000490	J	0.000180	0.00200	1	03/26/2023 21:54	WG2029231
Barium	0.0244		0.00381	0.0200	10	03/28/2023 14:47	WG2029248
Barium,Dissolved	0.0270		0.000381	0.00200	1	03/26/2023 21:54	WG2029231
Calcium	1110	V	0.936	10.0	10	03/28/2023 14:47	WG2029248
Chromium	U		0.0124	0.0200	10	03/28/2023 14:47	WG2029248
Chromium,Dissolved	U		0.00124	0.00200	1	03/26/2023 21:54	WG2029231
Iron	1.12		0.281	1.00	10	03/28/2023 14:47	WG2029248
Iron,Dissolved	0.286		0.0281	0.100	1	03/26/2023 21:54	WG2029231
Lead	U		0.00849	0.0200	10	03/28/2023 14:47	WG2029248
Lead,Dissolved	U		0.00424	0.0100	5	03/26/2023 23:05	WG2029231
Manganese	0.123		0.00704	0.0500	10	03/28/2023 14:47	WG2029248
Manganese,Dissolved	0.139		0.000704	0.00500	1	03/26/2023 21:54	WG2029231
Potassium	18.1	J	1.08	20.0	10	03/28/2023 14:47	WG2029248
Selenium	U		0.00300	0.0200	10	03/28/2023 14:47	WG2029248
Selenium,Dissolved	U		0.000300	0.00200	1	03/26/2023 21:54	WG2029231
Sodium	4840	V	3.76	20.0	10	03/28/2023 14:47	WG2029248

Sample Narrative:

L1597529-32 WG2029248: Dilution due to matrix.

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	03/26/2023 13:46	WG2030302
(S) a,a,a-Trifluorotoluene(FID)	*111*			*78.0-120*		*03/26/2023 13:46*	WG2030302

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	03/27/2023 17:24	WG2030849
Benzene	U		0.0000941	0.00100	1	03/27/2023 17:24	WG2030849
Bromodichloromethane	U		0.000136	0.00100	1	03/27/2023 17:24	WG2030849
Bromoform	U		0.000129	0.00100	1	03/27/2023 17:24	WG2030849
Bromomethane	U		0.000605	0.00500	1	03/27/2023 17:24	WG2030849
n-Butylbenzene	U		0.000157	0.00100	1	03/27/2023 17:24	WG2030849

MW-11A
Collected date/time: 03/22/23 10:50
L1597529

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	U		0.000125	0.00100	1	03/27/2023 17:24	WG2030849
Carbon disulfide	0.000300	B J	0.0000962	0.00100	1	03/27/2023 17:24	WG2030849
Carbon tetrachloride	U		0.000128	0.00100	1	03/27/2023 17:24	WG2030849
Chlorobenzene	U		0.000116	0.00100	1	03/27/2023 17:24	WG2030849
Chlorodibromomethane	U		0.000140	0.00100	1	03/27/2023 17:24	WG2030849
Chloroethane	U		0.000192	0.00500	1	03/27/2023 17:24	WG2030849
Chloroform	U		0.000111	0.00500	1	03/27/2023 17:24	WG2030849
Chloromethane	U		0.000960	0.00250	1	03/27/2023 17:24	WG2030849
1,2-Dibromoethane	U		0.000126	0.00100	1	03/27/2023 17:24	WG2030849
1,1-Dichloroethane	U		0.000100	0.00100	1	03/27/2023 17:24	WG2030849
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/27/2023 17:24	WG2030849
1,1-Dichloroethene	U		0.000188	0.00100	1	03/27/2023 17:24	WG2030849
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/27/2023 17:24	WG2030849
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/27/2023 17:24	WG2030849
1,2-Dichloropropane	U		0.000149	0.00100	1	03/27/2023 17:24	WG2030849
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/27/2023 17:24	WG2030849
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/27/2023 17:24	WG2030849
Ethylbenzene	U		0.000137	0.00100	1	03/27/2023 17:24	WG2030849
Isopropylbenzene	U		0.000105	0.00100	1	03/27/2023 17:24	WG2030849
p-Isopropyltoluene	U		0.000120	0.00100	1	03/27/2023 17:24	WG2030849
2-Butanone (MEK)	U		0.00119	0.0100	1	03/27/2023 17:24	WG2030849
2-Hexanone	U		0.000787	0.0100	1	03/27/2023 17:24	WG2030849
Methylene Chloride	U		0.000430	0.00500	1	03/27/2023 17:24	WG2030849
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/27/2023 17:24	WG2030849
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/27/2023 17:24	WG2030849
Naphthalene	U		0.00100	0.00500	1	03/27/2023 17:24	WG2030849
n-Propylbenzene	U		0.0000993	0.00100	1	03/27/2023 17:24	WG2030849
Styrene	U		0.000118	0.00100	1	03/27/2023 17:24	WG2030849
tert-Butyl alcohol	U		0.00406	0.00500	1	03/27/2023 17:24	WG2030849
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/27/2023 17:24	WG2030849
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/27/2023 17:24	WG2030849
Tetrachloroethene	U		0.000300	0.00100	1	03/27/2023 17:24	WG2030849
Toluene	U		0.000278	0.00100	1	03/27/2023 17:24	WG2030849
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/27/2023 17:24	WG2030849
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/27/2023 17:24	WG2030849
Trichloroethene	U		0.000190	0.00100	1	03/27/2023 17:24	WG2030849
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/27/2023 17:24	WG2030849
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/27/2023 17:24	WG2030849
Vinyl chloride	U		0.000234	0.00100	1	03/27/2023 17:24	WG2030849
o-Xylene	U		0.000174	0.00100	1	03/27/2023 17:24	WG2030849
m&p-Xylene	U		0.000430	0.00200	1	03/27/2023 17:24	WG2030849
Xylenes, Total	U		0.000174	0.00300	1	03/27/2023 17:24	WG2030849
(S) Toluene-d8	*102*			*80.0-120*		*03/27/2023 17:24*	WG2030849
(S) 4-Bromofluorobenzene	*97.8*			*77.0-126*		*03/27/2023 17:24*	WG2030849
(S) 1,2-Dichloroethane-d4	*125*			*70.0-130*		*03/27/2023 17:24*	WG2030849

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	0.108		0.0247	0.100	1	03/31/2023 00:24	WG2031808
(S) o-Terphenyl	*92.0*			*31.0-160*		*03/31/2023 00:24*	WG2031808

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	11600		400	1	03/25/2023 07:21	WG2029580

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	5930		37.9	100	100	03/24/2023 21:01	WG2029428
Fluoride	0.816	J	0.640	1.50	10	03/24/2023 22:21	WG2029428
Nitrate	1.25	B Q	0.480	1.00	10	03/24/2023 22:21	WG2029428
Nitrite	U	Q	0.420	1.00	10	03/24/2023 22:21	WG2029428
Sulfate	2950		59.4	500	100	03/24/2023 21:01	WG2029428

Sample Narrative:

L1597529-33 WG2029428: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00352	J	0.00180	0.0200	10	03/28/2023 15:00	WG2029248
Arsenic,Dissolved	0.00376		0.000180	0.00200	1	03/26/2023 21:58	WG2029231
Barium	0.0155	J	0.00381	0.0200	10	03/28/2023 15:00	WG2029248
Barium,Dissolved	0.0182		0.000381	0.00200	1	03/26/2023 21:58	WG2029231
Calcium	861		0.936	10.0	10	03/28/2023 15:00	WG2029248
Chromium	U		0.0124	0.0200	10	03/28/2023 15:00	WG2029248
Chromium,Dissolved	U		0.00124	0.00200	1	03/26/2023 21:58	WG2029231
Iron	3.82		0.281	1.00	10	03/28/2023 15:00	WG2029248
Iron,Dissolved	3.78		0.0281	0.100	1	03/26/2023 21:58	WG2029231
Lead	U		0.00849	0.0200	10	03/28/2023 15:00	WG2029248
Lead,Dissolved	U		0.000849	0.00200	1	03/26/2023 21:58	WG2029231
Manganese	0.362		0.00704	0.0500	10	03/28/2023 15:00	WG2029248
Manganese,Dissolved	0.381		0.000704	0.00500	1	03/26/2023 21:58	WG2029231
Potassium	29.4		1.08	20.0	10	03/28/2023 15:00	WG2029248
Selenium	U		0.00300	0.0200	10	03/28/2023 15:00	WG2029248
Selenium,Dissolved	U		0.000300	0.00200	1	03/26/2023 21:58	WG2029231
Sodium	3360		3.76	20.0	10	03/28/2023 15:00	WG2029248

Sample Narrative:

L1597529-33 WG2029248: Dilution due to matrix.

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	03/26/2023 14:08	WG2030302
(S) a,a,a-Trifluorotoluene(FID)	*112*			*78.0-120*		*03/26/2023 14:08*	WG2030302

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	03/27/2023 17:44	WG2030849
Benzene	U		0.0000941	0.00100	1	03/27/2023 17:44	WG2030849
Bromodichloromethane	U		0.000136	0.00100	1	03/27/2023 17:44	WG2030849
Bromoform	U		0.000129	0.00100	1	03/27/2023 17:44	WG2030849
Bromomethane	U		0.000605	0.00500	1	03/27/2023 17:44	WG2030849
n-Butylbenzene	U		0.000157	0.00100	1	03/27/2023 17:44	WG2030849

MW-11D
Collected date/time: 03/22/23 11:25
L1597529

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	U		0.000125	0.00100	1	03/27/2023 17:44	WG2030849
Carbon disulfide	0.000308	B J	0.0000962	0.00100	1	03/27/2023 17:44	WG2030849
Carbon tetrachloride	U		0.000128	0.00100	1	03/27/2023 17:44	WG2030849
Chlorobenzene	U		0.000116	0.00100	1	03/27/2023 17:44	WG2030849
Chlorodibromomethane	U		0.000140	0.00100	1	03/27/2023 17:44	WG2030849
Chloroethane	U		0.000192	0.00500	1	03/27/2023 17:44	WG2030849
Chloroform	U		0.000111	0.00500	1	03/27/2023 17:44	WG2030849
Chloromethane	U		0.000960	0.00250	1	03/27/2023 17:44	WG2030849
1,2-Dibromoethane	U		0.000126	0.00100	1	03/27/2023 17:44	WG2030849
1,1-Dichloroethane	U		0.000100	0.00100	1	03/27/2023 17:44	WG2030849
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/27/2023 17:44	WG2030849
1,1-Dichloroethene	U		0.000188	0.00100	1	03/27/2023 17:44	WG2030849
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/27/2023 17:44	WG2030849
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/27/2023 17:44	WG2030849
1,2-Dichloropropane	U		0.000149	0.00100	1	03/27/2023 17:44	WG2030849
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/27/2023 17:44	WG2030849
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/27/2023 17:44	WG2030849
Ethylbenzene	U		0.000137	0.00100	1	03/27/2023 17:44	WG2030849
Isopropylbenzene	U		0.000105	0.00100	1	03/27/2023 17:44	WG2030849
p-Isopropyltoluene	U		0.000120	0.00100	1	03/27/2023 17:44	WG2030849
2-Butanone (MEK)	U		0.00119	0.0100	1	03/27/2023 17:44	WG2030849
2-Hexanone	U		0.000787	0.0100	1	03/27/2023 17:44	WG2030849
Methylene Chloride	U		0.000430	0.00500	1	03/27/2023 17:44	WG2030849
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/27/2023 17:44	WG2030849
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/27/2023 17:44	WG2030849
Naphthalene	U		0.00100	0.00500	1	03/27/2023 17:44	WG2030849
n-Propylbenzene	U		0.0000993	0.00100	1	03/27/2023 17:44	WG2030849
Styrene	U		0.000118	0.00100	1	03/27/2023 17:44	WG2030849
tert-Butyl alcohol	U		0.00406	0.00500	1	03/27/2023 17:44	WG2030849
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/27/2023 17:44	WG2030849
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/27/2023 17:44	WG2030849
Tetrachloroethene	U		0.000300	0.00100	1	03/27/2023 17:44	WG2030849
Toluene	U		0.000278	0.00100	1	03/27/2023 17:44	WG2030849
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/27/2023 17:44	WG2030849
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/27/2023 17:44	WG2030849
Trichloroethene	U		0.000190	0.00100	1	03/27/2023 17:44	WG2030849
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/27/2023 17:44	WG2030849
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/27/2023 17:44	WG2030849
Vinyl chloride	U		0.000234	0.00100	1	03/27/2023 17:44	WG2030849
o-Xylene	U		0.000174	0.00100	1	03/27/2023 17:44	WG2030849
m&p-Xylene	U		0.000430	0.00200	1	03/27/2023 17:44	WG2030849
Xylenes, Total	U		0.000174	0.00300	1	03/27/2023 17:44	WG2030849
(S) Toluene-d8	*102*			*80.0-120*		*03/27/2023 17:44*	WG2030849
(S) 4-Bromofluorobenzene	*93.2*			*77.0-126*		*03/27/2023 17:44*	WG2030849
(S) 1,2-Dichloroethane-d4	*126*			*70.0-130*		*03/27/2023 17:44*	WG2030849

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	0.0926	J	0.0247	0.100	1	03/31/2023 00:46	WG2031808
(S) o-Terphenyl	*90.5*			*31.0-160*		*03/31/2023 00:46*	WG2031808

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	10600		200	1	03/25/2023 07:21	WG2029580

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	4650		19.0	50.0	50	03/28/2023 18:04	WG2029184
Fluoride	3.81	B J	3.20	7.50	50	03/28/2023 18:04	WG2029184
Nitrate	3.42	B J Q	2.40	5.00	50	03/28/2023 18:04	WG2029184
Nitrite	U	Q	2.10	5.00	50	03/28/2023 18:04	WG2029184
Sulfate	3230		29.7	250	50	03/28/2023 18:04	WG2029184

Sample Narrative:

L1597529-34 WG2029184: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0105	J	0.00180	0.0200	10	03/28/2023 15:03	WG2029248
Arsenic,Dissolved	0.00759		0.000180	0.00200	1	03/26/2023 22:01	WG2029231
Barium	0.0236		0.00381	0.0200	10	03/28/2023 15:03	WG2029248
Barium,Dissolved	0.0235		0.000381	0.00200	1	03/26/2023 22:01	WG2029231
Calcium	815		0.936	10.0	10	03/28/2023 15:03	WG2029248
Chromium	U		0.0124	0.0200	10	03/28/2023 15:03	WG2029248
Chromium,Dissolved	U		0.00124	0.00200	1	03/26/2023 22:01	WG2029231
Iron	7.22		0.281	1.00	10	03/28/2023 15:03	WG2029248
Iron,Dissolved	1.16		0.0281	0.100	1	03/26/2023 22:01	WG2029231
Lead	U		0.00849	0.0200	10	03/28/2023 15:03	WG2029248
Lead,Dissolved	U		0.000849	0.00200	1	03/26/2023 22:01	WG2029231
Manganese	0.158		0.00704	0.0500	10	03/28/2023 15:03	WG2029248
Manganese,Dissolved	0.183		0.000704	0.00500	1	03/26/2023 22:01	WG2029231
Potassium	37.5		1.08	20.0	10	03/28/2023 15:03	WG2029248
Selenium	U		0.00300	0.0200	10	03/28/2023 15:03	WG2029248
Selenium,Dissolved	U		0.000300	0.00200	1	03/26/2023 22:01	WG2029231
Sodium	2840		3.76	20.0	10	03/28/2023 15:03	WG2029248

Sample Narrative:

L1597529-34 WG2029248: Dilution due to matrix.

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		0.628	2.00	20	03/26/2023 18:31	WG2030302
(S) a,a,a-Trifluorotoluene(FID)	*111*			*78.0-120*		*03/26/2023 18:31*	WG2030302

Sample Narrative:

L1597529-34 WG2030302: Lowest possible dilution due to sample foaming.

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	03/27/2023 18:04	WG2030849
Benzene	U		0.0000941	0.00100	1	03/27/2023 18:04	WG2030849
Bromodichloromethane	U		0.000136	0.00100	1	03/27/2023 18:04	WG2030849
Bromoform	U		0.000129	0.00100	1	03/27/2023 18:04	WG2030849
Bromomethane	U		0.000605	0.00500	1	03/27/2023 18:04	WG2030849
n-Butylbenzene	U		0.000157	0.00100	1	03/27/2023 18:04	WG2030849
sec-Butylbenzene	U		0.000125	0.00100	1	03/27/2023 18:04	WG2030849
Carbon disulfide	0.000282	B J	0.0000962	0.00100	1	03/27/2023 18:04	WG2030849
Carbon tetrachloride	U		0.000128	0.00100	1	03/27/2023 18:04	WG2030849
Chlorobenzene	U		0.000116	0.00100	1	03/27/2023 18:04	WG2030849
Chlorodibromomethane	U		0.000140	0.00100	1	03/27/2023 18:04	WG2030849
Chloroethane	U		0.000192	0.00500	1	03/27/2023 18:04	WG2030849
Chloroform	U		0.000111	0.00500	1	03/27/2023 18:04	WG2030849
Chloromethane	U		0.000960	0.00250	1	03/27/2023 18:04	WG2030849
1,2-Dibromoethane	U		0.000126	0.00100	1	03/27/2023 18:04	WG2030849
1,1-Dichloroethane	U		0.000100	0.00100	1	03/27/2023 18:04	WG2030849
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/27/2023 18:04	WG2030849
1,1-Dichloroethene	U		0.000188	0.00100	1	03/27/2023 18:04	WG2030849
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/27/2023 18:04	WG2030849
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/27/2023 18:04	WG2030849
1,2-Dichloropropane	U		0.000149	0.00100	1	03/27/2023 18:04	WG2030849
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/27/2023 18:04	WG2030849
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/27/2023 18:04	WG2030849
Ethylbenzene	U		0.000137	0.00100	1	03/27/2023 18:04	WG2030849
Isopropylbenzene	U		0.000105	0.00100	1	03/27/2023 18:04	WG2030849
p-Isopropyltoluene	U		0.000120	0.00100	1	03/27/2023 18:04	WG2030849
2-Butanone (MEK)	U		0.00119	0.0100	1	03/27/2023 18:04	WG2030849
2-Hexanone	U		0.000787	0.0100	1	03/27/2023 18:04	WG2030849
Methylene Chloride	U		0.000430	0.00500	1	03/27/2023 18:04	WG2030849
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/27/2023 18:04	WG2030849
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/27/2023 18:04	WG2030849
Naphthalene	U		0.00100	0.00500	1	03/27/2023 18:04	WG2030849
n-Propylbenzene	U		0.0000993	0.00100	1	03/27/2023 18:04	WG2030849
Styrene	U		0.000118	0.00100	1	03/27/2023 18:04	WG2030849
tert-Butyl alcohol	U		0.00406	0.00500	1	03/27/2023 18:04	WG2030849
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/27/2023 18:04	WG2030849
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/27/2023 18:04	WG2030849
Tetrachloroethene	U		0.000300	0.00100	1	03/27/2023 18:04	WG2030849
Toluene	U		0.000278	0.00100	1	03/27/2023 18:04	WG2030849
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/27/2023 18:04	WG2030849
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/27/2023 18:04	WG2030849
Trichloroethene	U		0.000190	0.00100	1	03/27/2023 18:04	WG2030849
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/27/2023 18:04	WG2030849
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/27/2023 18:04	WG2030849
Vinyl chloride	U		0.000234	0.00100	1	03/27/2023 18:04	WG2030849
o-Xylene	U		0.000174	0.00100	1	03/27/2023 18:04	WG2030849
m&p-Xylene	U		0.000430	0.00200	1	03/27/2023 18:04	WG2030849
Xylenes, Total	U		0.000174	0.00300	1	03/27/2023 18:04	WG2030849
(S) Toluene-d8	*103*			*80.0-120*		*03/27/2023 18:04*	WG2030849
(S) 4-Bromofluorobenzene	*99.6*			*77.0-126*		*03/27/2023 18:04*	WG2030849
(S) 1,2-Dichloroethane-d4	*131*	J1		*70.0-130*		*03/27/2023 18:04*	WG2030849

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	0.988		0.0247	0.100	1	03/30/2023 18:14	WG2031810

GCD-5
Collected date/time: 03/22/23 08:50
L1597529

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	*117*			*31.0-160*		*03/30/2023 18:14*	WG2031810

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2150		50.0	1	03/25/2023 07:21	WG2029580

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		0.00900	0.0250	5	03/27/2023 11:11	WG2028782

Sample Narrative:

L1597529-35 WG2028782: Dilution due to matrix.

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	163		0.379	1.00	1	03/29/2023 02:12	WG2029188
Fluoride	2.03		0.0640	0.150	1	03/29/2023 02:12	WG2029188
Nitrate	7.65	Q	0.0480	0.100	1	03/29/2023 02:12	WG2029188
Nitrite	U	Q	0.0420	0.100	1	03/29/2023 02:12	WG2029188
Sulfate	1040		5.94	50.0	10	03/29/2023 02:28	WG2029188

Sample Narrative:

L1597529-35 WG2029188: Dilution due to matrix.

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	03/27/2023 08:17	WG2029442
Mercury,Dissolved	U		0.000100	0.000200	1	03/28/2023 10:43	WG2030410

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	0.805		0.0200	0.200	1	03/28/2023 12:17	WG2029237
Boron,Dissolved	0.759		0.0200	0.200	1	03/27/2023 18:24	WG2029226

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00376		0.000180	0.00200	1	03/28/2023 00:51	WG2029248
Arsenic,Dissolved	0.00375		0.000180	0.00200	1	03/26/2023 22:04	WG2029231
Barium	0.0129		0.000381	0.00200	1	03/28/2023 00:51	WG2029248
Barium,Dissolved	0.0122		0.000381	0.00200	1	03/26/2023 22:04	WG2029231
Cadmium	U		0.000150	0.00100	1	03/28/2023 00:51	WG2029248
Cadmium,Dissolved	U		0.000150	0.00100	1	03/26/2023 22:04	WG2029231
Calcium	210		0.0936	1.00	1	03/28/2023 00:51	WG2029248
Chromium	U		0.00124	0.00200	1	03/28/2023 00:51	WG2029248
Chromium,Dissolved	U		0.00124	0.00200	1	03/26/2023 22:04	WG2029231
Cobalt	0.00100	J	0.0000596	0.00200	1	03/28/2023 00:51	WG2029248
Cobalt,Dissolved	0.000934	J	0.0000596	0.00200	1	03/26/2023 22:04	WG2029231
Iron	U		0.0281	0.100	1	03/28/2023 00:51	WG2029248
Iron,Dissolved	U		0.0281	0.100	1	03/26/2023 22:04	WG2029231
Lead	U		0.000849	0.00200	1	03/28/2023 00:51	WG2029248
Lead,Dissolved	U		0.000849	0.00200	1	03/26/2023 22:04	WG2029231
Manganese	0.0669		0.000704	0.00500	1	03/28/2023 00:51	WG2029248

MW-32
Collected date/time: 03/22/23 11:15
L1597529

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Manganese,Dissolved	0.0685		0.000704	0.00500	1	03/26/2023 22:04	WG2029231
Nickel	0.0357		0.000816	0.00200	1	03/28/2023 00:51	WG2029248
Nickel,Dissolved	0.0356		0.000816	0.00200	1	03/26/2023 22:04	WG2029231
Potassium	0.315	J	0.108	2.00	1	03/28/2023 00:51	WG2029248
Selenium	0.00368		0.000300	0.00200	1	03/28/2023 00:51	WG2029248
Selenium,Dissolved	0.00332		0.000300	0.00200	1	03/26/2023 22:04	WG2029231
Sodium	308		0.376	2.00	1	03/28/2023 00:51	WG2029248
Uranium	0.0116		0.0000789	0.00100	1	03/28/2023 00:51	WG2029248
Uranium,Dissolved	0.0120		0.0000789	0.00100	1	03/26/2023 22:04	WG2029231
Vanadium	0.0258		0.000664	0.00500	1	03/28/2023 00:51	WG2029248
Vanadium,Dissolved	0.0257		0.000664	0.00500	1	03/26/2023 22:04	WG2029231

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	03/26/2023 14:30	WG2030302
(S) a,a,a-Trifluorotoluene(FID)	*114*			*78.0-120*		*03/26/2023 14:30*	WG2030302

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	03/27/2023 18:25	WG2030849
Benzene	U		0.0000941	0.00100	1	03/27/2023 18:25	WG2030849
Bromodichloromethane	U		0.000136	0.00100	1	03/27/2023 18:25	WG2030849
Bromoform	U		0.000129	0.00100	1	03/27/2023 18:25	WG2030849
Bromomethane	U		0.000605	0.00500	1	03/27/2023 18:25	WG2030849
n-Butylbenzene	U		0.000157	0.00100	1	03/27/2023 18:25	WG2030849
sec-Butylbenzene	U		0.000125	0.00100	1	03/27/2023 18:25	WG2030849
Carbon disulfide	0.000250	B J	0.0000962	0.00100	1	03/27/2023 18:25	WG2030849
Carbon tetrachloride	U		0.000128	0.00100	1	03/27/2023 18:25	WG2030849
Chlorobenzene	U		0.000116	0.00100	1	03/27/2023 18:25	WG2030849
Chlorodibromomethane	U		0.000140	0.00100	1	03/27/2023 18:25	WG2030849
Chloroethane	U		0.000192	0.00500	1	03/27/2023 18:25	WG2030849
Chloroform	U		0.000111	0.00500	1	03/27/2023 18:25	WG2030849
Chloromethane	U		0.000960	0.00250	1	03/27/2023 18:25	WG2030849
1,2-Dibromoethane	U		0.000126	0.00100	1	03/27/2023 18:25	WG2030849
1,1-Dichloroethane	U		0.000100	0.00100	1	03/27/2023 18:25	WG2030849
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/27/2023 18:25	WG2030849
1,1-Dichloroethene	U		0.000188	0.00100	1	03/27/2023 18:25	WG2030849
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/27/2023 18:25	WG2030849
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/27/2023 18:25	WG2030849
1,2-Dichloropropane	U		0.000149	0.00100	1	03/27/2023 18:25	WG2030849
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/27/2023 18:25	WG2030849
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/27/2023 18:25	WG2030849
Ethylbenzene	U		0.000137	0.00100	1	03/27/2023 18:25	WG2030849
Isopropylbenzene	U		0.000105	0.00100	1	03/27/2023 18:25	WG2030849
p-Isopropyltoluene	U		0.000120	0.00100	1	03/27/2023 18:25	WG2030849
2-Butanone (MEK)	U		0.00119	0.0100	1	03/27/2023 18:25	WG2030849
2-Hexanone	U		0.000787	0.0100	1	03/27/2023 18:25	WG2030849
Methylene Chloride	U		0.000430	0.00500	1	03/27/2023 18:25	WG2030849
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/27/2023 18:25	WG2030849
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/27/2023 18:25	WG2030849
Naphthalene	U		0.00100	0.00500	1	03/27/2023 18:25	WG2030849
n-Propylbenzene	U		0.0000993	0.00100	1	03/27/2023 18:25	WG2030849
Styrene	U		0.000118	0.00100	1	03/27/2023 18:25	WG2030849

MW-32
Collected date/time: 03/22/23 11:15
L1597529

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
tert-Butyl alcohol	U		0.00406	0.00500	1	03/27/2023 18:25	WG2030849
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/27/2023 18:25	WG2030849
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/27/2023 18:25	WG2030849
Tetrachloroethene	U		0.000300	0.00100	1	03/27/2023 18:25	WG2030849
Toluene	U		0.000278	0.00100	1	03/27/2023 18:25	WG2030849
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/27/2023 18:25	WG2030849
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/27/2023 18:25	WG2030849
Trichloroethene	U		0.000190	0.00100	1	03/27/2023 18:25	WG2030849
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/27/2023 18:25	WG2030849
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/27/2023 18:25	WG2030849
Vinyl chloride	U		0.000234	0.00100	1	03/27/2023 18:25	WG2030849
o-Xylene	U		0.000174	0.00100	1	03/27/2023 18:25	WG2030849
m&p-Xylene	U		0.000430	0.00200	1	03/27/2023 18:25	WG2030849
Xylenes, Total	U		0.000174	0.00300	1	03/27/2023 18:25	WG2030849
(S) Toluene-d8	*101*			*80.0-120*		*03/27/2023 18:25*	WG2030849
(S) 4-Bromofluorobenzene	*94.8*			*77.0-126*		*03/27/2023 18:25*	WG2030849
(S) 1,2-Dichloroethane-d4	*128*			*70.0-130*		*03/27/2023 18:25*	WG2030849

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	0.614		0.0247	0.100	1	04/01/2023 19:03	WG2031810
(S) o-Terphenyl	*138*			*31.0-160*		*04/01/2023 19:03*	WG2031810

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1460		50.0	1	03/25/2023 07:21	WG2029580

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	188		3.79	10.0	10	03/30/2023 00:47	WG2032143
Fluoride	2.22		0.640	1.50	10	03/30/2023 00:47	WG2032143
Nitrate	U	Q	0.480	1.00	10	03/30/2023 00:47	WG2032143
Nitrite	U	Q	0.420	1.00	10	03/30/2023 00:47	WG2032143
Sulfate	315		5.94	50.0	10	03/30/2023 00:47	WG2032143

Sample Narrative:

L1597529-36 WG2032143: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00491		0.000180	0.00200	1	03/28/2023 00:54	WG2029248
Arsenic,Dissolved	0.00413		0.000180	0.00200	1	03/26/2023 22:07	WG2029231
Barium	0.0800		0.000381	0.00200	1	03/28/2023 00:54	WG2029248
Barium,Dissolved	0.0736		0.000381	0.00200	1	03/26/2023 22:07	WG2029231
Calcium	62.3		0.0936	1.00	1	03/28/2023 00:54	WG2029248
Chromium	U		0.00124	0.00200	1	03/28/2023 00:54	WG2029248
Chromium,Dissolved	U		0.00124	0.00200	1	03/26/2023 22:07	WG2029231
Iron	0.0531	J	0.0281	0.100	1	03/28/2023 00:54	WG2029248
Iron,Dissolved	0.0728	J	0.0281	0.100	1	03/26/2023 22:07	WG2029231
Lead	U		0.000849	0.00200	1	03/28/2023 00:54	WG2029248
Lead,Dissolved	U		0.000849	0.00200	1	03/26/2023 22:07	WG2029231
Manganese	0.126		0.000704	0.00500	1	03/28/2023 00:54	WG2029248
Manganese,Dissolved	0.147		0.000704	0.00500	1	03/26/2023 22:07	WG2029231
Potassium	0.609	J	0.108	2.00	1	03/28/2023 00:54	WG2029248
Selenium	0.000303	J	0.000300	0.00200	1	03/28/2023 00:54	WG2029248
Selenium,Dissolved	U		0.000300	0.00200	1	03/26/2023 22:07	WG2029231
Sodium	416		0.376	2.00	1	03/28/2023 00:54	WG2029248

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	3.72		0.314	1.00	10	03/29/2023 15:01	WG2032009
(S) a,a,a-Trifluorotoluene(FID)	*103*			*78.0-120*		*03/29/2023 15:01*	WG2032009

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	03/31/2023 14:31	WG2033423
Benzene	0.866		0.00471	0.0500	50	03/31/2023 14:31	WG2033423
Bromodichloromethane	U		0.00680	0.0500	50	03/31/2023 14:31	WG2033423
Bromoform	U		0.00645	0.0500	50	03/31/2023 14:31	WG2033423
Bromomethane	U		0.0303	0.250	50	03/31/2023 14:31	WG2033423
n-Butylbenzene	U		0.00785	0.0500	50	03/31/2023 14:31	WG2033423
sec-Butylbenzene	U		0.00625	0.0500	50	03/31/2023 14:31	WG2033423
Carbon disulfide	U		0.00481	0.0500	50	03/31/2023 14:31	WG2033423
Carbon tetrachloride	U		0.00640	0.0500	50	03/31/2023 14:31	WG2033423

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	03/31/2023 14:31	WG2033423
Chlorodibromomethane	U		0.00700	0.0500	50	03/31/2023 14:31	WG2033423
Chloroethane	U		0.00960	0.250	50	03/31/2023 14:31	WG2033423
Chloroform	U		0.00555	0.250	50	03/31/2023 14:31	WG2033423
Chloromethane	U		0.0480	0.125	50	03/31/2023 14:31	WG2033423
1,2-Dibromoethane	U		0.00630	0.0500	50	03/31/2023 14:31	WG2033423
1,1-Dichloroethane	U		0.00500	0.0500	50	03/31/2023 14:31	WG2033423
1,2-Dichloroethane	U		0.00409	0.0500	50	03/31/2023 14:31	WG2033423
1,1-Dichloroethene	U		0.00940	0.0500	50	03/31/2023 14:31	WG2033423
cis-1,2-Dichloroethene	U		0.00630	0.0500	50	03/31/2023 14:31	WG2033423
trans-1,2-Dichloroethene	U		0.00745	0.0500	50	03/31/2023 14:31	WG2033423
1,2-Dichloropropane	U		0.00745	0.0500	50	03/31/2023 14:31	WG2033423
cis-1,3-Dichloropropene	U		0.00555	0.0500	50	03/31/2023 14:31	WG2033423
trans-1,3-Dichloropropene	U		0.00590	0.0500	50	03/31/2023 14:31	WG2033423
Ethylbenzene	U		0.00685	0.0500	50	03/31/2023 14:31	WG2033423
Isopropylbenzene	0.0390	J	0.00525	0.0500	50	03/31/2023 14:31	WG2033423
p-Isopropyltoluene	U		0.00600	0.0500	50	03/31/2023 14:31	WG2033423
2-Butanone (MEK)	U		0.0595	0.500	50	03/31/2023 14:31	WG2033423
2-Hexanone	U		0.0394	0.500	50	03/31/2023 14:31	WG2033423
Methylene Chloride	U		0.0215	0.250	50	03/31/2023 14:31	WG2033423
4-Methyl-2-pentanone (MIBK)	U		0.0239	0.500	50	03/31/2023 14:31	WG2033423
Methyl tert-butyl ether	U		0.00505	0.0500	50	03/31/2023 14:31	WG2033423
Naphthalene	U		0.0500	0.250	50	03/31/2023 14:31	WG2033423
n-Propylbenzene	0.0385	J	0.00497	0.0500	50	03/31/2023 14:31	WG2033423
Styrene	U		0.00590	0.0500	50	03/31/2023 14:31	WG2033423
tert-Butyl alcohol	U		0.203	0.250	50	03/31/2023 14:31	WG2033423
1,1,1,2-Tetrachloroethane	U		0.00735	0.0500	50	03/31/2023 14:31	WG2033423
1,1,2,2-Tetrachloroethane	U		0.00665	0.0500	50	03/31/2023 14:31	WG2033423
Tetrachloroethene	U		0.0150	0.0500	50	03/31/2023 14:31	WG2033423
Toluene	U		0.0139	0.0500	50	03/31/2023 14:31	WG2033423
1,1,1-Trichloroethane	U		0.00745	0.0500	50	03/31/2023 14:31	WG2033423
1,1,2-Trichloroethane	U		0.00790	0.0500	50	03/31/2023 14:31	WG2033423
Trichloroethene	U		0.00950	0.0500	50	03/31/2023 14:31	WG2033423
1,2,4-Trimethylbenzene	U		0.0161	0.0500	50	03/31/2023 14:31	WG2033423
1,3,5-Trimethylbenzene	U		0.00520	0.0500	50	03/31/2023 14:31	WG2033423
Vinyl chloride	U		0.0117	0.0500	50	03/31/2023 14:31	WG2033423
o-Xylene	U		0.00870	0.0500	50	03/31/2023 14:31	WG2033423
m&p-Xylene	U		0.0215	0.100	50	03/31/2023 14:31	WG2033423
Xylenes, Total	U		0.00870	0.150	50	03/31/2023 14:31	WG2033423
(S) Toluene-d8	*106*			*80.0-120*		*03/31/2023 14:31*	WG2033423
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*03/31/2023 14:31*	WG2033423
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*03/31/2023 14:31*	WG2033423

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	2.06		0.0247	0.100	1	03/30/2023 18:55	WG2031810
(S) o-Terphenyl	*121*			*31.0-160*		*03/30/2023 18:55*	WG2031810

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1260		20.0	1	03/25/2023 07:21	WG2029580

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	32.3		0.379	1.00	1	03/24/2023 21:41	WG2029193
Fluoride	1.55		0.0640	0.150	1	03/24/2023 21:41	WG2029193
Nitrate	U	Q	0.0480	0.100	1	03/24/2023 21:41	WG2029193
Nitrite	U	Q	0.0420	0.100	1	03/24/2023 21:41	WG2029193
Sulfate	512		2.97	25.0	5	03/24/2023 21:54	WG2029193

Sample Narrative:

L1597529-37 WG2029193: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0383		0.000180	0.00200	1	03/28/2023 01:04	WG2029248
Arsenic,Dissolved	0.0360		0.000180	0.00200	1	03/26/2023 22:11	WG2029231
Barium	0.0528		0.000381	0.00200	1	03/28/2023 01:04	WG2029248
Barium,Dissolved	0.0532		0.000381	0.00200	1	03/26/2023 22:11	WG2029231
Calcium	102		0.0936	1.00	1	03/28/2023 01:04	WG2029248
Chromium	0.00141	J	0.00124	0.00200	1	03/28/2023 01:04	WG2029248
Chromium,Dissolved	U		0.00124	0.00200	1	03/26/2023 22:11	WG2029231
Iron	1.15		0.0281	0.100	1	03/28/2023 01:04	WG2029248
Iron,Dissolved	1.07		0.0281	0.100	1	03/26/2023 22:11	WG2029231
Lead	U		0.000849	0.00200	1	03/28/2023 01:04	WG2029248
Lead,Dissolved	U		0.000849	0.00200	1	03/26/2023 22:11	WG2029231
Manganese	2.23		0.000704	0.00500	1	03/28/2023 01:04	WG2029248
Manganese,Dissolved	2.28		0.000704	0.00500	1	03/26/2023 22:11	WG2029231
Potassium	U		0.108	2.00	1	03/28/2023 01:04	WG2029248
Selenium	U		0.000300	0.00200	1	03/28/2023 01:04	WG2029248
Selenium,Dissolved	U		0.000300	0.00200	1	03/26/2023 22:11	WG2029231
Sodium	249		0.376	2.00	1	03/28/2023 01:04	WG2029248

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	0.534		0.0314	0.100	1	03/26/2023 14:52	WG2030302
(S) a,a,a-Trifluorotoluene(FID)	*106*			*78.0-120*		*03/26/2023 14:52*	WG2030302

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	03/27/2023 18:45	WG2030849
Benzene	0.000281	J	0.0000941	0.00100	1	03/27/2023 18:45	WG2030849
Bromodichloromethane	U		0.000136	0.00100	1	03/27/2023 18:45	WG2030849
Bromoform	U		0.000129	0.00100	1	03/27/2023 18:45	WG2030849
Bromomethane	U		0.000605	0.00500	1	03/27/2023 18:45	WG2030849
n-Butylbenzene	U		0.000157	0.00100	1	03/27/2023 18:45	WG2030849
sec-Butylbenzene	0.00334		0.000125	0.00100	1	03/27/2023 18:45	WG2030849
Carbon disulfide	0.000285	B J	0.0000962	0.00100	1	03/27/2023 18:45	WG2030849
Carbon tetrachloride	U		0.000128	0.00100	1	03/27/2023 18:45	WG2030849

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	03/27/2023 18:45	WG2030849
Chlorodibromomethane	U		0.000140	0.00100	1	03/27/2023 18:45	WG2030849
Chloroethane	U		0.000192	0.00500	1	03/27/2023 18:45	WG2030849
Chloroform	U		0.000111	0.00500	1	03/27/2023 18:45	WG2030849
Chloromethane	U		0.000960	0.00250	1	03/27/2023 18:45	WG2030849
1,2-Dibromoethane	U		0.000126	0.00100	1	03/27/2023 18:45	WG2030849
1,1-Dichloroethane	U		0.000100	0.00100	1	03/27/2023 18:45	WG2030849
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/27/2023 18:45	WG2030849
1,1-Dichloroethene	U		0.000188	0.00100	1	03/27/2023 18:45	WG2030849
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/27/2023 18:45	WG2030849
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/27/2023 18:45	WG2030849
1,2-Dichloropropane	U		0.000149	0.00100	1	03/27/2023 18:45	WG2030849
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/27/2023 18:45	WG2030849
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/27/2023 18:45	WG2030849
Ethylbenzene	U		0.000137	0.00100	1	03/27/2023 18:45	WG2030849
Isopropylbenzene	0.000881	J	0.000105	0.00100	1	03/27/2023 18:45	WG2030849
p-Isopropyltoluene	U		0.000120	0.00100	1	03/27/2023 18:45	WG2030849
2-Butanone (MEK)	U		0.00119	0.0100	1	03/27/2023 18:45	WG2030849
2-Hexanone	U		0.000787	0.0100	1	03/27/2023 18:45	WG2030849
Methylene Chloride	U		0.000430	0.00500	1	03/27/2023 18:45	WG2030849
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/27/2023 18:45	WG2030849
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/27/2023 18:45	WG2030849
Naphthalene	U		0.00100	0.00500	1	03/27/2023 18:45	WG2030849
n-Propylbenzene	0.000236	J	0.0000993	0.00100	1	03/27/2023 18:45	WG2030849
Styrene	U		0.000118	0.00100	1	03/27/2023 18:45	WG2030849
tert-Butyl alcohol	0.00524		0.00406	0.00500	1	03/27/2023 18:45	WG2030849
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/27/2023 18:45	WG2030849
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/27/2023 18:45	WG2030849
Tetrachloroethene	U		0.000300	0.00100	1	03/27/2023 18:45	WG2030849
Toluene	U		0.000278	0.00100	1	03/27/2023 18:45	WG2030849
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/27/2023 18:45	WG2030849
1,1,2-Trichloroethane	0.00287		0.000158	0.00100	1	03/27/2023 18:45	WG2030849
Trichloroethene	U		0.000190	0.00100	1	03/27/2023 18:45	WG2030849
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/27/2023 18:45	WG2030849
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/27/2023 18:45	WG2030849
Vinyl chloride	U		0.000234	0.00100	1	03/27/2023 18:45	WG2030849
o-Xylene	U		0.000174	0.00100	1	03/27/2023 18:45	WG2030849
m&p-Xylene	0.000521	J	0.000430	0.00200	1	03/27/2023 18:45	WG2030849
Xylenes, Total	0.000521	J	0.000174	0.00300	1	03/27/2023 18:45	WG2030849
(S) Toluene-d8	*96.0*			*80.0-120*		*03/27/2023 18:45*	WG2030849
(S) 4-Bromofluorobenzene	*92.8*			*77.0-126*		*03/27/2023 18:45*	WG2030849
(S) 1,2-Dichloroethane-d4	*126*			*70.0-130*		*03/27/2023 18:45*	WG2030849

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	1.41		0.0247	0.100	1	04/01/2023 19:25	WG2031810
(S) o-Terphenyl	*133*			*31.0-160*		*04/01/2023 19:25*	WG2031810

Received by OCD: 6/12/2024 3:31:05 PM

TRIP BLANK-LT-03
Collected date/time: 03/22/23 00:00
L1597529

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	03/27/2023 16:04	WG2030849
Benzene	U		0.0000941	0.00100	1	03/27/2023 16:04	WG2030849
Bromodichloromethane	U		0.000136	0.00100	1	03/27/2023 16:04	WG2030849
Bromoform	U		0.000129	0.00100	1	03/27/2023 16:04	WG2030849
Bromomethane	U		0.000605	0.00500	1	03/27/2023 16:04	WG2030849
n-Butylbenzene	U		0.000157	0.00100	1	03/27/2023 16:04	WG2030849
sec-Butylbenzene	U		0.000125	0.00100	1	03/27/2023 16:04	WG2030849
Carbon disulfide	0.000477	B J	0.0000962	0.00100	1	03/27/2023 16:04	WG2030849
Carbon tetrachloride	U		0.000128	0.00100	1	03/27/2023 16:04	WG2030849
Chlorobenzene	U		0.000116	0.00100	1	03/27/2023 16:04	WG2030849
Chlorodibromomethane	U		0.000140	0.00100	1	03/27/2023 16:04	WG2030849
Chloroethane	U		0.000192	0.00500	1	03/27/2023 16:04	WG2030849
Chloroform	U		0.000111	0.00500	1	03/27/2023 16:04	WG2030849
Chloromethane	U		0.000960	0.00250	1	03/27/2023 16:04	WG2030849
1,2-Dibromoethane	U		0.000126	0.00100	1	03/27/2023 16:04	WG2030849
1,1-Dichloroethane	U		0.000100	0.00100	1	03/27/2023 16:04	WG2030849
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/27/2023 16:04	WG2030849
1,1-Dichloroethene	U		0.000188	0.00100	1	03/27/2023 16:04	WG2030849
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/27/2023 16:04	WG2030849
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/27/2023 16:04	WG2030849
1,2-Dichloropropane	U		0.000149	0.00100	1	03/27/2023 16:04	WG2030849
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/27/2023 16:04	WG2030849
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/27/2023 16:04	WG2030849
Ethylbenzene	U		0.000137	0.00100	1	03/27/2023 16:04	WG2030849
Isopropylbenzene	U		0.000105	0.00100	1	03/27/2023 16:04	WG2030849
p-Isopropyltoluene	U		0.000120	0.00100	1	03/27/2023 16:04	WG2030849
2-Butanone (MEK)	U		0.00119	0.0100	1	03/27/2023 16:04	WG2030849
2-Hexanone	U		0.000787	0.0100	1	03/27/2023 16:04	WG2030849
Methylene Chloride	U		0.000430	0.00500	1	03/27/2023 16:04	WG2030849
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/27/2023 16:04	WG2030849
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/27/2023 23:01	WG2030950
Naphthalene	U		0.00100	0.00500	1	03/27/2023 16:04	WG2030849
n-Propylbenzene	U		0.0000993	0.00100	1	03/27/2023 16:04	WG2030849
Styrene	U		0.000118	0.00100	1	03/27/2023 16:04	WG2030849
tert-Butyl alcohol	U		0.00406	0.00500	1	03/27/2023 16:04	WG2030849
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/27/2023 16:04	WG2030849
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/27/2023 16:04	WG2030849
Tetrachloroethene	U		0.000300	0.00100	1	03/27/2023 16:04	WG2030849
Toluene	U		0.000278	0.00100	1	03/27/2023 16:04	WG2030849
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/27/2023 16:04	WG2030849
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/27/2023 16:04	WG2030849
Trichloroethene	U		0.000190	0.00100	1	03/27/2023 16:04	WG2030849
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/27/2023 16:04	WG2030849
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/27/2023 16:04	WG2030849
Vinyl chloride	U		0.000234	0.00100	1	03/27/2023 16:04	WG2030849
o-Xylene	U		0.000174	0.00100	1	03/27/2023 16:04	WG2030849
m&p-Xylene	U		0.000430	0.00200	1	03/27/2023 16:04	WG2030849
Xylenes, Total	U		0.000174	0.00300	1	03/27/2023 16:04	WG2030849
(S) Toluene-d8	*101*			*80.0-120*		*03/27/2023 16:04*	WG2030849
(S) Toluene-d8	*83.6*			*80.0-120*		*03/27/2023 23:01*	WG2030950
(S) 4-Bromofluorobenzene	*96.3*			*77.0-126*		*03/27/2023 16:04*	WG2030849
(S) 4-Bromofluorobenzene	*102*			*77.0-126*		*03/27/2023 23:01*	WG2030950
(S) 1,2-Dichloroethane-d4	*126*			*70.0-130*		*03/27/2023 16:04*	WG2030849
(S) 1,2-Dichloroethane-d4	*123*			*70.0-130*		*03/27/2023 23:01*	WG2030950

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Released to Imaging: 6/28/2024 11:23:28 AM

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3950		50.0	1	03/25/2023 07:21	WG2029580

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	421		3.79	10.0	10	03/24/2023 01:10	WG2029007
Fluoride	4.06		0.640	1.50	10	03/24/2023 01:10	WG2029007
Nitrate	4.24		0.480	1.00	10	03/24/2023 01:10	WG2029007
Nitrite	U		0.420	1.00	10	03/24/2023 01:10	WG2029007
Sulfate	2380		59.4	500	100	03/24/2023 06:13	WG2029007

Sample Narrative:

L1597529-43 WG2029007: Dilution due to matrix.

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	03/29/2023 09:34	WG2030401
Mercury,Dissolved	U		0.000100	0.000200	1	03/29/2023 09:15	WG2030839

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	0.394		0.0200	0.200	1	03/27/2023 22:09	WG2030611
Boron,Dissolved	0.428		0.0200	0.200	1	03/28/2023 09:46	WG2030563

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00447		0.000180	0.00200	1	03/28/2023 01:07	WG2029248
Arsenic,Dissolved	0.00426		0.000180	0.00200	1	03/26/2023 22:14	WG2029231
Barium	0.0106		0.000381	0.00200	1	03/28/2023 01:07	WG2029248
Barium,Dissolved	0.0110		0.000381	0.00200	1	03/26/2023 22:14	WG2029231
Cadmium	U		0.000150	0.00100	1	03/28/2023 01:07	WG2029248
Cadmium,Dissolved	U		0.000150	0.00100	1	03/26/2023 22:14	WG2029231
Calcium	638		0.0936	1.00	1	03/28/2023 01:07	WG2029248
Chromium	U		0.00124	0.00200	1	03/28/2023 01:07	WG2029248
Chromium,Dissolved	U		0.00124	0.00200	1	03/26/2023 22:14	WG2029231
Cobalt	0.000559	J	0.0000596	0.00200	1	03/28/2023 01:07	WG2029248
Cobalt,Dissolved	0.000567	J	0.0000596	0.00200	1	03/26/2023 22:14	WG2029231
Iron	U		0.0281	0.100	1	03/28/2023 01:07	WG2029248
Iron,Dissolved	U		0.0281	0.100	1	03/26/2023 22:14	WG2029231
Lead	U		0.000849	0.00200	1	03/28/2023 01:07	WG2029248
Lead,Dissolved	U		0.000849	0.00200	1	03/26/2023 22:14	WG2029231
Manganese	0.0129		0.000704	0.00500	1	03/28/2023 01:07	WG2029248
Manganese,Dissolved	0.0123		0.000704	0.00500	1	03/26/2023 22:14	WG2029231
Nickel	0.00117	J	0.000816	0.00200	1	03/28/2023 01:07	WG2029248
Nickel,Dissolved	0.00120	J	0.000816	0.00200	1	03/26/2023 22:14	WG2029231
Potassium	1.59	J	0.108	2.00	1	03/28/2023 01:07	WG2029248
Selenium	0.00855		0.000300	0.00200	1	03/28/2023 01:07	WG2029248
Selenium,Dissolved	0.00864		0.000300	0.00200	1	03/26/2023 22:14	WG2029231
Sodium	189		0.376	2.00	1	03/28/2023 01:07	WG2029248
Uranium	0.0340		0.0000789	0.00100	1	03/28/2023 01:07	WG2029248
Uranium,Dissolved	0.0350		0.0000789	0.00100	1	03/26/2023 22:14	WG2029231

MW-144
Collected date/time: 03/22/23 08:15
L1597529

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Vanadium	0.0167		0.000664	0.00500	1	03/28/2023 01:07	WG2029248
Vanadium,Dissolved	0.0161		0.000664	0.00500	1	03/26/2023 22:14	WG2029231

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1910		50.0	1	03/25/2023 07:21	WG2029580

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	216		3.79	10.0	10	03/28/2023 19:11	WG2029184
Fluoride	0.541	B	0.0640	0.150	1	03/28/2023 18:31	WG2029184
Nitrate	U	Q	0.0480	0.100	1	03/28/2023 18:31	WG2029184
Nitrite	U	Q	0.0420	0.100	1	03/28/2023 18:31	WG2029184
Sulfate	903		5.94	50.0	10	03/28/2023 19:11	WG2029184

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.000425	J	0.000180	0.00200	1	03/28/2023 01:11	WG2029248
Arsenic,Dissolved	0.000375	J	0.000180	0.00200	1	03/26/2023 22:42	WG2029231
Barium	0.130		0.000381	0.00200	1	03/28/2023 01:11	WG2029248
Barium,Dissolved	0.0521		0.000381	0.00200	1	03/26/2023 22:42	WG2029231
Calcium	273		0.0936	1.00	1	03/28/2023 01:11	WG2029248
Chromium	U		0.00124	0.00200	1	03/28/2023 01:11	WG2029248
Chromium,Dissolved	U		0.00124	0.00200	1	03/26/2023 22:42	WG2029231
Iron	0.482		0.0281	0.100	1	03/28/2023 01:11	WG2029248
Iron,Dissolved	0.466		0.0281	0.100	1	03/26/2023 22:42	WG2029231
Lead	U		0.000849	0.00200	1	03/28/2023 01:11	WG2029248
Lead,Dissolved	U		0.000849	0.00200	1	03/26/2023 22:42	WG2029231
Manganese	0.911		0.000704	0.00500	1	03/28/2023 01:11	WG2029248
Manganese,Dissolved	0.928		0.000704	0.00500	1	03/26/2023 22:42	WG2029231
Potassium	0.421	J	0.108	2.00	1	03/28/2023 01:11	WG2029248
Selenium	U		0.000300	0.00200	1	03/28/2023 01:11	WG2029248
Selenium,Dissolved	U		0.000300	0.00200	1	03/26/2023 22:42	WG2029231
Sodium	171		0.376	2.00	1	03/28/2023 01:11	WG2029248

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	1.92		0.0314	0.100	1	03/26/2023 15:15	WG2030302
(S) a,a,a-Trifluorotoluene(FID)	*99.0*			*78.0-120*		*03/26/2023 15:15*	WG2030302

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	03/27/2023 19:04	WG2030849
Benzene	0.0859		0.0000941	0.00100	1	03/27/2023 19:04	WG2030849
Bromodichloromethane	U		0.000136	0.00100	1	03/27/2023 19:04	WG2030849
Bromoform	U		0.000129	0.00100	1	03/27/2023 19:04	WG2030849
Bromomethane	U		0.000605	0.00500	1	03/27/2023 19:04	WG2030849
n-Butylbenzene	0.000906	J	0.000157	0.00100	1	03/27/2023 19:04	WG2030849
sec-Butylbenzene	0.00221		0.000125	0.00100	1	03/27/2023 19:04	WG2030849
Carbon disulfide	0.000308	B J	0.0000962	0.00100	1	03/27/2023 19:04	WG2030849
Carbon tetrachloride	U		0.000128	0.00100	1	03/27/2023 19:04	WG2030849
Chlorobenzene	U		0.000116	0.00100	1	03/27/2023 19:04	WG2030849
Chlorodibromomethane	U		0.000140	0.00100	1	03/27/2023 19:04	WG2030849
Chloroethane	U		0.000192	0.00500	1	03/27/2023 19:04	WG2030849

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloroform	0.00273	J	0.000111	0.00500	1	03/27/2023 19:04	WG2030849
Chloromethane	U		0.000960	0.00250	1	03/27/2023 19:04	WG2030849
1,2-Dibromoethane	U		0.000126	0.00100	1	03/27/2023 19:04	WG2030849
1,1-Dichloroethane	U		0.000100	0.00100	1	03/27/2023 19:04	WG2030849
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/27/2023 19:04	WG2030849
1,1-Dichloroethene	U		0.000188	0.00100	1	03/27/2023 19:04	WG2030849
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/27/2023 19:04	WG2030849
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/27/2023 19:04	WG2030849
1,2-Dichloropropane	U		0.000149	0.00100	1	03/27/2023 19:04	WG2030849
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/27/2023 19:04	WG2030849
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/27/2023 19:04	WG2030849
Ethylbenzene	0.0185		0.000137	0.00100	1	03/27/2023 19:04	WG2030849
Isopropylbenzene	0.00613		0.000105	0.00100	1	03/27/2023 19:04	WG2030849
p-Isopropyltoluene	0.00108		0.000120	0.00100	1	03/27/2023 19:04	WG2030849
2-Butanone (MEK)	U		0.00119	0.0100	1	03/27/2023 19:04	WG2030849
2-Hexanone	U		0.000787	0.0100	1	03/27/2023 19:04	WG2030849
Methylene Chloride	U		0.000430	0.00500	1	03/27/2023 19:04	WG2030849
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/27/2023 19:04	WG2030849
Methyl tert-butyl ether	0.0159		0.000101	0.00100	1	03/27/2023 19:04	WG2030849
Naphthalene	0.00660		0.00100	0.00500	1	03/27/2023 19:04	WG2030849
n-Propylbenzene	0.00881		0.0000993	0.00100	1	03/27/2023 19:04	WG2030849
Styrene	0.000287	J	0.000118	0.00100	1	03/27/2023 19:04	WG2030849
tert-Butyl alcohol	U		0.00406	0.00500	1	03/27/2023 19:04	WG2030849
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/27/2023 19:04	WG2030849
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/27/2023 19:04	WG2030849
Tetrachloroethene	U		0.000300	0.00100	1	03/27/2023 19:04	WG2030849
Toluene	0.00115		0.000278	0.00100	1	03/27/2023 19:04	WG2030849
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/27/2023 19:04	WG2030849
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/27/2023 19:04	WG2030849
Trichloroethene	U		0.000190	0.00100	1	03/27/2023 19:04	WG2030849
1,2,4-Trimethylbenzene	0.0732		0.000322	0.00100	1	03/27/2023 19:04	WG2030849
1,3,5-Trimethylbenzene	0.000823	J	0.000104	0.00100	1	03/27/2023 19:04	WG2030849
Vinyl chloride	U		0.000234	0.00100	1	03/27/2023 19:04	WG2030849
o-Xylene	0.000295	J	0.000174	0.00100	1	03/27/2023 19:04	WG2030849
m&p-Xylene	0.0425		0.000430	0.00200	1	03/27/2023 19:04	WG2030849
Xylenes, Total	0.0428		0.000174	0.00300	1	03/27/2023 19:04	WG2030849
(S) Toluene-d8	*101*			*80.0-120*		*03/27/2023 19:04*	WG2030849
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*03/27/2023 19:04*	WG2030849
(S) 1,2-Dichloroethane-d4	*121*			*70.0-130*		*03/27/2023 19:04*	WG2030849

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	0.612		0.0247	0.100	1	03/30/2023 19:36	WG2031810
(S) o-Terphenyl	*99.5*			*31.0-160*		*03/30/2023 19:36*	WG2031810

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1350		25.0	1	03/25/2023 07:21	WG2029580

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	243		1.90	5.00	5	03/24/2023 16:21	WG2029193
Fluoride	1.18		0.0640	0.150	1	03/24/2023 16:08	WG2029193
Nitrate	U	Q	0.0480	0.100	1	03/24/2023 16:08	WG2029193
Nitrite	U	Q	0.0420	0.100	1	03/24/2023 16:08	WG2029193
Sulfate	131		0.594	5.00	1	03/24/2023 16:08	WG2029193

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00125	J	0.000180	0.00200	1	03/28/2023 01:14	WG2029248
Arsenic,Dissolved	0.00117	J	0.000180	0.00200	1	03/26/2023 22:45	WG2029231
Barium	0.187		0.000381	0.00200	1	03/28/2023 01:14	WG2029248
Barium,Dissolved	0.188		0.000381	0.00200	1	03/26/2023 22:45	WG2029231
Calcium	191		0.0936	1.00	1	03/28/2023 01:14	WG2029248
Chromium	0.00199	J	0.00124	0.00200	1	03/28/2023 01:14	WG2029248
Chromium,Dissolved	0.00150	J	0.00124	0.00200	1	03/26/2023 22:45	WG2029231
Iron	0.0484	J	0.0281	0.100	1	03/28/2023 01:14	WG2029248
Iron,Dissolved	0.0316	J	0.0281	0.100	1	03/26/2023 22:45	WG2029231
Lead	0.00318		0.000849	0.00200	1	03/28/2023 01:14	WG2029248
Lead,Dissolved	0.00188	J	0.000849	0.00200	1	03/26/2023 22:45	WG2029231
Manganese	0.841		0.000704	0.00500	1	03/28/2023 01:14	WG2029248
Manganese,Dissolved	0.824		0.000704	0.00500	1	03/26/2023 22:45	WG2029231
Potassium	0.628	J	0.108	2.00	1	03/28/2023 01:14	WG2029248
Selenium	U		0.000300	0.00200	1	03/28/2023 01:14	WG2029248
Selenium,Dissolved	U		0.000300	0.00200	1	03/26/2023 22:45	WG2029231
Sodium	158		0.376	2.00	1	03/28/2023 01:14	WG2029248

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	03/27/2023 22:03	WG2030849
Benzene	4.30		0.00471	0.0500	50	03/27/2023 22:03	WG2030849
Bromodichloromethane	U		0.00680	0.0500	50	03/27/2023 22:03	WG2030849
Bromoform	U		0.00645	0.0500	50	03/27/2023 22:03	WG2030849
Bromomethane	U		0.0303	0.250	50	03/27/2023 22:03	WG2030849
n-Butylbenzene	0.0134	J	0.00785	0.0500	50	03/27/2023 22:03	WG2030849
sec-Butylbenzene	0.0142	J	0.00625	0.0500	50	03/27/2023 22:03	WG2030849
Carbon disulfide	0.0103	B J	0.00481	0.0500	50	03/27/2023 22:03	WG2030849
Carbon tetrachloride	U		0.00640	0.0500	50	03/27/2023 22:03	WG2030849
Chlorobenzene	U		0.00580	0.0500	50	03/27/2023 22:03	WG2030849
Chlorodibromomethane	U		0.00700	0.0500	50	03/27/2023 22:03	WG2030849
Chloroethane	U		0.00960	0.250	50	03/27/2023 22:03	WG2030849
Chloroform	U		0.00555	0.250	50	03/27/2023 22:03	WG2030849
Chloromethane	U		0.0480	0.125	50	03/27/2023 22:03	WG2030849
1,2-Dibromoethane	U		0.00630	0.0500	50	03/27/2023 22:03	WG2030849
1,1-Dichloroethane	U		0.00500	0.0500	50	03/27/2023 22:03	WG2030849
1,2-Dichloroethane	U		0.00409	0.0500	50	03/27/2023 22:03	WG2030849
1,1-Dichloroethene	U		0.00940	0.0500	50	03/27/2023 22:03	WG2030849
cis-1,2-Dichloroethene	U		0.00630	0.0500	50	03/27/2023 22:03	WG2030849

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
trans-1,2-Dichloroethene	U		0.00745	0.0500	50	03/27/2023 22:03	WG2030849
1,2-Dichloropropane	U		0.00745	0.0500	50	03/27/2023 22:03	WG2030849
cis-1,3-Dichloropropene	U		0.00555	0.0500	50	03/27/2023 22:03	WG2030849
trans-1,3-Dichloropropene	U		0.00590	0.0500	50	03/27/2023 22:03	WG2030849
Ethylbenzene	0.819		0.00685	0.0500	50	03/27/2023 22:03	WG2030849
Isopropylbenzene	0.0719		0.00525	0.0500	50	03/27/2023 22:03	WG2030849
p-Isopropyltoluene	0.0121	J	0.00600	0.0500	50	03/27/2023 22:03	WG2030849
2-Butanone (MEK)	U		0.0595	0.500	50	03/27/2023 22:03	WG2030849
2-Hexanone	U		0.0394	0.500	50	03/27/2023 22:03	WG2030849
Methylene Chloride	U		0.0215	0.250	50	03/27/2023 22:03	WG2030849
4-Methyl-2-pentanone (MIBK)	U		0.0239	0.500	50	03/27/2023 22:03	WG2030849
Methyl tert-butyl ether	0.607		0.00505	0.0500	50	03/27/2023 22:03	WG2030849
Naphthalene	0.0890	J	0.0500	0.250	50	03/27/2023 22:03	WG2030849
n-Propylbenzene	0.147		0.00497	0.0500	50	03/27/2023 22:03	WG2030849
Styrene	U		0.00590	0.0500	50	03/27/2023 22:03	WG2030849
tert-Butyl alcohol	U		0.203	0.250	50	03/27/2023 22:03	WG2030849
1,1,1,2-Tetrachloroethane	U		0.00735	0.0500	50	03/27/2023 22:03	WG2030849
1,1,2,2-Tetrachloroethane	U		0.00665	0.0500	50	03/27/2023 22:03	WG2030849
Tetrachloroethene	U		0.0150	0.0500	50	03/27/2023 22:03	WG2030849
Toluene	0.293		0.0139	0.0500	50	03/27/2023 22:03	WG2030849
1,1,1-Trichloroethane	U		0.00745	0.0500	50	03/27/2023 22:03	WG2030849
1,1,2-Trichloroethane	U		0.00790	0.0500	50	03/27/2023 22:03	WG2030849
Trichloroethene	U		0.00950	0.0500	50	03/27/2023 22:03	WG2030849
1,2,4-Trimethylbenzene	0.534		0.0161	0.0500	50	03/27/2023 22:03	WG2030849
1,3,5-Trimethylbenzene	0.113		0.00520	0.0500	50	03/27/2023 22:03	WG2030849
Vinyl chloride	U		0.0117	0.0500	50	03/27/2023 22:03	WG2030849
o-Xylene	0.0988		0.00870	0.0500	50	03/27/2023 22:03	WG2030849
m&p-Xylene	1.23		0.0215	0.100	50	03/27/2023 22:03	WG2030849
Xylenes, Total	1.33		0.00870	0.150	50	03/27/2023 22:03	WG2030849
(S) Toluene-d8	*104*			*80.0-120*		*03/27/2023 22:03*	WG2030849
(S) 4-Bromofluorobenzene	*97.8*			*77.0-126*		*03/27/2023 22:03*	WG2030849
(S) 1,2-Dichloroethane-d4	*130*			*70.0-130*		*03/27/2023 22:03*	WG2030849

EDB / DBCP by Method 8011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Ethylene Dibromide	U		0.00000547	0.0000204	1.02	03/28/2023 18:59	WG2031055

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	4.45		0.0247	0.100	1	03/30/2023 19:56	WG2031810
(S) o-Terphenyl	*109*			*31.0-160*		*03/30/2023 19:56*	WG2031810

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	03/29/2023 12:18	WG2030234
(S) Nitrobenzene-d5	*18.9*			*10.0-120*		*03/29/2023 12:18*	WG2030234

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4300		50.0	1	03/25/2023 07:21	WG2029580

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	307		3.79	10.0	10	03/24/2023 02:13	WG2029007
Fluoride	1.53		0.640	1.50	10	03/24/2023 02:13	WG2029007
Nitrate	2.27		0.480	1.00	10	03/24/2023 02:13	WG2029007
Nitrite	U		0.420	1.00	10	03/24/2023 02:13	WG2029007
Sulfate	2550		59.4	500	100	03/24/2023 06:28	WG2029007

Sample Narrative:

L1597529-46 WG2029007: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00479		0.000180	0.00200	1	03/28/2023 01:17	WG2029248
Arsenic,Dissolved	0.00403		0.000180	0.00200	1	03/26/2023 22:48	WG2029231
Barium	0.00990		0.000381	0.00200	1	03/28/2023 01:17	WG2029248
Barium,Dissolved	0.00986		0.000381	0.00200	1	03/26/2023 22:48	WG2029231
Calcium	503		0.0936	1.00	1	03/28/2023 01:17	WG2029248
Chromium	U		0.00124	0.00200	1	03/28/2023 01:17	WG2029248
Chromium,Dissolved	U		0.00124	0.00200	1	03/26/2023 22:48	WG2029231
Iron	0.0988	J	0.0281	0.100	1	03/28/2023 01:17	WG2029248
Iron,Dissolved	0.0469	J	0.0281	0.100	1	03/26/2023 22:48	WG2029231
Lead	U		0.000849	0.00200	1	03/28/2023 01:17	WG2029248
Lead,Dissolved	U		0.000849	0.00200	1	03/26/2023 22:48	WG2029231
Manganese	0.191		0.000704	0.00500	1	03/28/2023 01:17	WG2029248
Manganese,Dissolved	0.192		0.000704	0.00500	1	03/26/2023 22:48	WG2029231
Potassium	1.55	J	0.108	2.00	1	03/28/2023 01:17	WG2029248
Selenium	0.00384		0.000300	0.00200	1	03/28/2023 01:17	WG2029248
Selenium,Dissolved	0.00387		0.000300	0.00200	1	03/26/2023 22:48	WG2029231
Sodium	242		0.376	2.00	1	03/28/2023 01:17	WG2029248

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	03/26/2023 15:36	WG2030302
(S) a,a,a-Trifluorotoluene(FID)	*110*			*78.0-120*		*03/26/2023 15:36*	WG2030302

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	03/27/2023 19:24	WG2030849
Benzene	U		0.0000941	0.00100	1	03/27/2023 19:24	WG2030849
Bromodichloromethane	U		0.000136	0.00100	1	03/27/2023 19:24	WG2030849
Bromoform	U		0.000129	0.00100	1	03/27/2023 19:24	WG2030849
Bromomethane	U		0.000605	0.00500	1	03/27/2023 19:24	WG2030849
n-Butylbenzene	U		0.000157	0.00100	1	03/27/2023 19:24	WG2030849
sec-Butylbenzene	U		0.000125	0.00100	1	03/27/2023 19:24	WG2030849
Carbon disulfide	0.000242	B J	0.0000962	0.00100	1	03/27/2023 19:24	WG2030849
Carbon tetrachloride	U		0.000128	0.00100	1	03/27/2023 19:24	WG2030849

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	03/27/2023 19:24	WG2030849
Chlorodibromomethane	U		0.000140	0.00100	1	03/27/2023 19:24	WG2030849
Chloroethane	U		0.000192	0.00500	1	03/27/2023 19:24	WG2030849
Chloroform	U		0.000111	0.00500	1	03/27/2023 19:24	WG2030849
Chloromethane	U		0.000960	0.00250	1	03/27/2023 19:24	WG2030849
1,2-Dibromoethane	U		0.000126	0.00100	1	03/27/2023 19:24	WG2030849
1,1-Dichloroethane	U		0.000100	0.00100	1	03/27/2023 19:24	WG2030849
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/27/2023 19:24	WG2030849
1,1-Dichloroethene	U		0.000188	0.00100	1	03/27/2023 19:24	WG2030849
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/27/2023 19:24	WG2030849
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/27/2023 19:24	WG2030849
1,2-Dichloropropane	U		0.000149	0.00100	1	03/27/2023 19:24	WG2030849
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/27/2023 19:24	WG2030849
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/27/2023 19:24	WG2030849
Ethylbenzene	U		0.000137	0.00100	1	03/27/2023 19:24	WG2030849
Isopropylbenzene	U		0.000105	0.00100	1	03/27/2023 19:24	WG2030849
p-Isopropyltoluene	U		0.000120	0.00100	1	03/27/2023 19:24	WG2030849
2-Butanone (MEK)	U		0.00119	0.0100	1	03/27/2023 19:24	WG2030849
2-Hexanone	U		0.000787	0.0100	1	03/27/2023 19:24	WG2030849
Methylene Chloride	U		0.000430	0.00500	1	03/27/2023 19:24	WG2030849
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/27/2023 19:24	WG2030849
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/27/2023 19:24	WG2030849
Naphthalene	U		0.00100	0.00500	1	03/27/2023 19:24	WG2030849
n-Propylbenzene	U		0.0000993	0.00100	1	03/27/2023 19:24	WG2030849
Styrene	U		0.000118	0.00100	1	03/27/2023 19:24	WG2030849
tert-Butyl alcohol	U		0.00406	0.00500	1	03/27/2023 19:24	WG2030849
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/27/2023 19:24	WG2030849
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/27/2023 19:24	WG2030849
Tetrachloroethene	U		0.000300	0.00100	1	03/27/2023 19:24	WG2030849
Toluene	U		0.000278	0.00100	1	03/27/2023 19:24	WG2030849
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/27/2023 19:24	WG2030849
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/27/2023 19:24	WG2030849
Trichloroethene	U		0.000190	0.00100	1	03/27/2023 19:24	WG2030849
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/27/2023 19:24	WG2030849
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/27/2023 19:24	WG2030849
Vinyl chloride	U		0.000234	0.00100	1	03/27/2023 19:24	WG2030849
o-Xylene	U		0.000174	0.00100	1	03/27/2023 19:24	WG2030849
m&p-Xylene	U		0.000430	0.00200	1	03/27/2023 19:24	WG2030849
Xylenes, Total	U		0.000174	0.00300	1	03/27/2023 19:24	WG2030849
(S) Toluene-d8	*99.0*			*80.0-120*		*03/27/2023 19:24*	WG2030849
(S) 4-Bromofluorobenzene	*92.9*			*77.0-126*		*03/27/2023 19:24*	WG2030849
(S) 1,2-Dichloroethane-d4	*127*			*70.0-130*		*03/27/2023 19:24*	WG2030849

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	0.132	B	0.0247	0.100	1	04/01/2023 18:19	WG2031810
(S) o-Terphenyl	*131*			*31.0-160*		*04/01/2023 18:19*	WG2031810

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1950		50.0	1	03/25/2023 07:21	WG2029580

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	147		3.79	10.0	10	03/29/2023 02:44	WG2029188
Fluoride	0.697	J	0.640	1.50	10	03/29/2023 02:44	WG2029188
Nitrate	2.21	Q	0.480	1.00	10	03/29/2023 02:44	WG2029188
Nitrite	U	Q	0.420	1.00	10	03/29/2023 02:44	WG2029188
Sulfate	1180		5.94	50.0	10	03/29/2023 02:44	WG2029188

Sample Narrative:

L1597529-47 WG2029188: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Calcium	387		0.0936	1.00	1	03/28/2023 01:20	WG2029248
Potassium	2.18		0.108	2.00	1	03/28/2023 01:20	WG2029248
Sodium	103		0.376	2.00	1	03/28/2023 01:20	WG2029248

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	03/27/2023 19:44	WG2030849
Benzene	U		0.0000941	0.00100	1	03/27/2023 19:44	WG2030849
Bromodichloromethane	U		0.000136	0.00100	1	03/27/2023 19:44	WG2030849
Bromoform	U		0.000129	0.00100	1	03/27/2023 19:44	WG2030849
Bromomethane	U		0.000605	0.00500	1	03/27/2023 19:44	WG2030849
n-Butylbenzene	U		0.000157	0.00100	1	03/27/2023 19:44	WG2030849
sec-Butylbenzene	U		0.000125	0.00100	1	03/27/2023 19:44	WG2030849
Carbon disulfide	0.000239	B J	0.0000962	0.00100	1	03/27/2023 19:44	WG2030849
Carbon tetrachloride	U		0.000128	0.00100	1	03/27/2023 19:44	WG2030849
Chlorobenzene	U		0.000116	0.00100	1	03/27/2023 19:44	WG2030849
Chlorodibromomethane	U		0.000140	0.00100	1	03/27/2023 19:44	WG2030849
Chloroethane	U		0.000192	0.00500	1	03/27/2023 19:44	WG2030849
Chloroform	U		0.000111	0.00500	1	03/27/2023 19:44	WG2030849
Chloromethane	U		0.000960	0.00250	1	03/27/2023 19:44	WG2030849
1,2-Dibromoethane	U		0.000126	0.00100	1	03/27/2023 19:44	WG2030849
1,1-Dichloroethane	U		0.000100	0.00100	1	03/27/2023 19:44	WG2030849
1,2-Dichloroethane	0.000275	J	0.0000819	0.00100	1	03/27/2023 19:44	WG2030849
1,1-Dichloroethene	U		0.000188	0.00100	1	03/27/2023 19:44	WG2030849
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/27/2023 19:44	WG2030849
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/27/2023 19:44	WG2030849
1,2-Dichloropropane	U		0.000149	0.00100	1	03/27/2023 19:44	WG2030849
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/27/2023 19:44	WG2030849
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/27/2023 19:44	WG2030849
Ethylbenzene	U		0.000137	0.00100	1	03/27/2023 19:44	WG2030849
Isopropylbenzene	U		0.000105	0.00100	1	03/27/2023 19:44	WG2030849
p-Isopropyltoluene	U		0.000120	0.00100	1	03/27/2023 19:44	WG2030849
2-Butanone (MEK)	U		0.00119	0.0100	1	03/27/2023 19:44	WG2030849
2-Hexanone	U		0.000787	0.0100	1	03/27/2023 19:44	WG2030849
Methylene Chloride	U		0.000430	0.00500	1	03/27/2023 19:44	WG2030849
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/27/2023 19:44	WG2030849

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	03/27/2023 19:44	WG2030849
Naphthalene	U		0.00100	0.00500	1	03/27/2023 19:44	WG2030849
n-Propylbenzene	U		0.0000993	0.00100	1	03/27/2023 19:44	WG2030849
Styrene	U		0.000118	0.00100	1	03/27/2023 19:44	WG2030849
tert-Butyl alcohol	U		0.00406	0.00500	1	03/27/2023 19:44	WG2030849
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/27/2023 19:44	WG2030849
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/27/2023 19:44	WG2030849
Tetrachloroethene	U		0.000300	0.00100	1	03/27/2023 19:44	WG2030849
Toluene	U		0.000278	0.00100	1	03/27/2023 19:44	WG2030849
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/27/2023 19:44	WG2030849
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/27/2023 19:44	WG2030849
Trichloroethene	U		0.000190	0.00100	1	03/27/2023 19:44	WG2030849
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/27/2023 19:44	WG2030849
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/27/2023 19:44	WG2030849
Vinyl chloride	U		0.000234	0.00100	1	03/27/2023 19:44	WG2030849
o-Xylene	U		0.000174	0.00100	1	03/27/2023 19:44	WG2030849
m&p-Xylene	U		0.000430	0.00200	1	03/27/2023 19:44	WG2030849
Xylenes, Total	U		0.000174	0.00300	1	03/27/2023 19:44	WG2030849
(S) Toluene-d8	*102*			*80.0-120*		*03/27/2023 19:44*	WG2030849
(S) 4-Bromofluorobenzene	*96.6*			*77.0-126*		*03/27/2023 19:44*	WG2030849
(S) 1,2-Dichloroethane-d4	*128*			*70.0-130*		*03/27/2023 19:44*	WG2030849

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	912		20.0	1	03/25/2023 07:21	WG2029580

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	70.8		3.79	10.0	10	03/30/2023 02:14	WG2029199
Fluoride	1.45	J	0.640	1.50	10	03/30/2023 02:14	WG2029199
Nitrate	0.997	J Q	0.480	1.00	10	03/30/2023 02:14	WG2029199
Nitrite	U	Q	0.420	1.00	10	03/30/2023 02:14	WG2029199
Sulfate	443		5.94	50.0	10	03/30/2023 02:14	WG2029199

Sample Narrative:

L1597529-48 WG2029199: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Calcium	184		0.0936	1.00	1	03/28/2023 01:24	WG2029248
Potassium	1.18	J	0.108	2.00	1	03/28/2023 01:24	WG2029248
Sodium	45.0		0.376	2.00	1	03/28/2023 01:24	WG2029248

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	03/27/2023 20:04	WG2030849
Benzene	U		0.0000941	0.00100	1	03/27/2023 20:04	WG2030849
Bromodichloromethane	U		0.000136	0.00100	1	03/27/2023 20:04	WG2030849
Bromoform	0.000451	J	0.000129	0.00100	1	03/27/2023 20:04	WG2030849
Bromomethane	U		0.000605	0.00500	1	03/27/2023 20:04	WG2030849
n-Butylbenzene	U		0.000157	0.00100	1	03/27/2023 20:04	WG2030849
sec-Butylbenzene	U		0.000125	0.00100	1	03/27/2023 20:04	WG2030849
Carbon disulfide	0.000270	B J	0.0000962	0.00100	1	03/27/2023 20:04	WG2030849
Carbon tetrachloride	U		0.000128	0.00100	1	03/27/2023 20:04	WG2030849
Chlorobenzene	U		0.000116	0.00100	1	03/27/2023 20:04	WG2030849
Chlorodibromomethane	0.000213	J	0.000140	0.00100	1	03/27/2023 20:04	WG2030849
Chloroethane	U		0.000192	0.00500	1	03/27/2023 20:04	WG2030849
Chloroform	U		0.000111	0.00500	1	03/27/2023 20:04	WG2030849
Chloromethane	U		0.000960	0.00250	1	03/27/2023 20:04	WG2030849
1,2-Dibromoethane	U		0.000126	0.00100	1	03/27/2023 20:04	WG2030849
1,1-Dichloroethane	U		0.000100	0.00100	1	03/27/2023 20:04	WG2030849
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/27/2023 20:04	WG2030849
1,1-Dichloroethene	U		0.000188	0.00100	1	03/27/2023 20:04	WG2030849
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/27/2023 20:04	WG2030849
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/27/2023 20:04	WG2030849
1,2-Dichloropropane	U		0.000149	0.00100	1	03/27/2023 20:04	WG2030849
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/27/2023 20:04	WG2030849
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/27/2023 20:04	WG2030849
Ethylbenzene	U		0.000137	0.00100	1	03/27/2023 20:04	WG2030849
Isopropylbenzene	U		0.000105	0.00100	1	03/27/2023 20:04	WG2030849
p-Isopropyltoluene	U		0.000120	0.00100	1	03/27/2023 20:04	WG2030849
2-Butanone (MEK)	U		0.00119	0.0100	1	03/27/2023 20:04	WG2030849
2-Hexanone	U		0.000787	0.0100	1	03/27/2023 20:04	WG2030849
Methylene Chloride	U		0.000430	0.00500	1	03/27/2023 20:04	WG2030849
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/27/2023 20:04	WG2030849

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	03/27/2023 20:04	WG2030849
Naphthalene	U		0.00100	0.00500	1	03/27/2023 20:04	WG2030849
n-Propylbenzene	U		0.0000993	0.00100	1	03/27/2023 20:04	WG2030849
Styrene	U		0.000118	0.00100	1	03/27/2023 20:04	WG2030849
tert-Butyl alcohol	U		0.00406	0.00500	1	03/27/2023 20:04	WG2030849
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/27/2023 20:04	WG2030849
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/27/2023 20:04	WG2030849
Tetrachloroethene	U		0.000300	0.00100	1	03/27/2023 20:04	WG2030849
Toluene	U		0.000278	0.00100	1	03/27/2023 20:04	WG2030849
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/27/2023 20:04	WG2030849
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/27/2023 20:04	WG2030849
Trichloroethene	U		0.000190	0.00100	1	03/27/2023 20:04	WG2030849
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/27/2023 20:04	WG2030849
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/27/2023 20:04	WG2030849
Vinyl chloride	U		0.000234	0.00100	1	03/27/2023 20:04	WG2030849
o-Xylene	U		0.000174	0.00100	1	03/27/2023 20:04	WG2030849
m&p-Xylene	U		0.000430	0.00200	1	03/27/2023 20:04	WG2030849
Xylenes, Total	U		0.000174	0.00300	1	03/27/2023 20:04	WG2030849
(S) Toluene-d8	*103*			*80.0-120*		*03/27/2023 20:04*	WG2030849
(S) 4-Bromofluorobenzene	*92.4*			*77.0-126*		*03/27/2023 20:04*	WG2030849
(S) 1,2-Dichloroethane-d4	*130*			*70.0-130*		*03/27/2023 20:04*	WG2030849

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	0.000180	B J	0.0000447	0.000400	1	03/24/2023 18:07	WG2029185
(S) Nitrobenzene-d5	*46.3*			*10.0-120*		*03/24/2023 18:07*	WG2029185

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2020	J3	50.0	1	03/25/2023 07:54	WG2029581

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		0.00900	0.0250	5	03/27/2023 11:13	WG2028782

Sample Narrative:

L1597529-49 WG2028782: Dilution due to matrix.

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	398		3.79	10.0	10	03/28/2023 19:38	WG2029184
Fluoride	0.972		0.0640	0.150	1	03/28/2023 19:25	WG2029184
Nitrate	0.0650	B J Q	0.0480	0.100	1	03/28/2023 19:25	WG2029184
Nitrite	U	Q	0.0420	0.100	1	03/28/2023 19:25	WG2029184
Sulfate	538		5.94	50.0	10	03/28/2023 19:38	WG2029184

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	03/27/2023 08:19	WG2029442
Mercury,Dissolved	U		0.000100	0.000200	1	03/28/2023 10:45	WG2030410

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	0.470		0.0200	0.200	1	03/28/2023 12:20	WG2029237
Boron,Dissolved	0.445		0.0200	0.200	1	03/27/2023 18:27	WG2029226

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.000379	J	0.000180	0.00200	1	03/28/2023 01:27	WG2029248
Arsenic,Dissolved	0.000301	J	0.000180	0.00200	1	03/26/2023 22:52	WG2029231
Barium	0.0665		0.000381	0.00200	1	03/28/2023 01:27	WG2029248
Barium,Dissolved	0.0644		0.000381	0.00200	1	03/26/2023 22:52	WG2029231
Cadmium	U		0.000150	0.00100	1	03/28/2023 01:27	WG2029248
Cadmium,Dissolved	U		0.000150	0.00100	1	03/26/2023 22:52	WG2029231
Calcium	291		0.0936	1.00	1	03/28/2023 01:27	WG2029248
Chromium	U		0.00124	0.00200	1	03/28/2023 01:27	WG2029248
Chromium,Dissolved	U		0.00124	0.00200	1	03/26/2023 22:52	WG2029231
Cobalt	0.0000869	J	0.0000596	0.00200	1	03/28/2023 01:27	WG2029248
Cobalt,Dissolved	U		0.0000596	0.00200	1	03/26/2023 22:52	WG2029231
Iron	0.0649	J	0.0281	0.100	1	03/28/2023 01:27	WG2029248
Iron,Dissolved	U		0.0281	0.100	1	03/26/2023 22:52	WG2029231
Lead	U		0.000849	0.00200	1	03/28/2023 01:27	WG2029248
Lead,Dissolved	U		0.000849	0.00200	1	03/26/2023 22:52	WG2029231
Manganese	1.78		0.000704	0.00500	1	03/28/2023 01:27	WG2029248
Manganese,Dissolved	1.74		0.000704	0.00500	1	03/26/2023 22:52	WG2029231
Nickel	U		0.000816	0.00200	1	03/28/2023 01:27	WG2029248
Nickel,Dissolved	U		0.000816	0.00200	1	03/26/2023 22:52	WG2029231

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Potassium	0.358	J	0.108	2.00	1	03/28/2023 01:27	WG2029248
Selenium	U		0.000300	0.00200	1	03/28/2023 01:27	WG2029248
Selenium,Dissolved	U		0.000300	0.00200	1	03/26/2023 22:52	WG2029231
Sodium	244		0.376	2.00	1	03/28/2023 01:27	WG2029248
Uranium	0.000428	J	0.0000789	0.00100	1	03/28/2023 01:27	WG2029248
Uranium,Dissolved	0.000391	J	0.0000789	0.00100	1	03/26/2023 22:52	WG2029231
Vanadium	0.00173	J	0.000664	0.00500	1	03/28/2023 01:27	WG2029248
Vanadium,Dissolved	0.00180	J	0.000664	0.00500	1	03/26/2023 22:52	WG2029231

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	03/27/2023 22:23	WG2030849
Benzene	U		0.00471	0.0500	50	03/27/2023 22:23	WG2030849
Bromodichloromethane	U		0.00680	0.0500	50	03/27/2023 22:23	WG2030849
Bromoform	U		0.00645	0.0500	50	03/27/2023 22:23	WG2030849
Bromomethane	U		0.0303	0.250	50	03/27/2023 22:23	WG2030849
n-Butylbenzene	U		0.00785	0.0500	50	03/27/2023 22:23	WG2030849
sec-Butylbenzene	0.00975	J	0.00625	0.0500	50	03/27/2023 22:23	WG2030849
Carbon disulfide	0.0125	B J	0.00481	0.0500	50	03/27/2023 22:23	WG2030849
Carbon tetrachloride	U		0.00640	0.0500	50	03/27/2023 22:23	WG2030849
Chlorobenzene	U		0.00580	0.0500	50	03/27/2023 22:23	WG2030849
Chlorodibromomethane	U		0.00700	0.0500	50	03/27/2023 22:23	WG2030849
Chloroethane	U		0.00960	0.250	50	03/27/2023 22:23	WG2030849
Chloroform	U		0.00555	0.250	50	03/27/2023 22:23	WG2030849
Chloromethane	U		0.0480	0.125	50	03/27/2023 22:23	WG2030849
1,2-Dibromoethane	U		0.00630	0.0500	50	03/27/2023 22:23	WG2030849
1,1-Dichloroethane	U		0.00500	0.0500	50	03/27/2023 22:23	WG2030849
1,2-Dichloroethane	U		0.00409	0.0500	50	03/27/2023 22:23	WG2030849
1,1-Dichloroethene	U		0.00940	0.0500	50	03/27/2023 22:23	WG2030849
cis-1,2-Dichloroethene	U		0.00630	0.0500	50	03/27/2023 22:23	WG2030849
trans-1,2-Dichloroethene	U		0.00745	0.0500	50	03/27/2023 22:23	WG2030849
1,2-Dichloropropane	U		0.00745	0.0500	50	03/27/2023 22:23	WG2030849
cis-1,3-Dichloropropene	U		0.00555	0.0500	50	03/27/2023 22:23	WG2030849
trans-1,3-Dichloropropene	U		0.00590	0.0500	50	03/27/2023 22:23	WG2030849
Ethylbenzene	U		0.00685	0.0500	50	03/27/2023 22:23	WG2030849
Isopropylbenzene	0.0273	J	0.00525	0.0500	50	03/27/2023 22:23	WG2030849
p-Isopropyltoluene	U		0.00600	0.0500	50	03/27/2023 22:23	WG2030849
2-Butanone (MEK)	U		0.0595	0.500	50	03/27/2023 22:23	WG2030849
2-Hexanone	U		0.0394	0.500	50	03/27/2023 22:23	WG2030849
Methylene Chloride	U		0.0215	0.250	50	03/27/2023 22:23	WG2030849
4-Methyl-2-pentanone (MIBK)	U		0.0239	0.500	50	03/27/2023 22:23	WG2030849
Methyl tert-butyl ether	0.00819	J	0.00505	0.0500	50	03/27/2023 22:23	WG2030849
Naphthalene	U		0.0500	0.250	50	03/27/2023 22:23	WG2030849
n-Propylbenzene	0.0267	J	0.00497	0.0500	50	03/27/2023 22:23	WG2030849
Styrene	U		0.00590	0.0500	50	03/27/2023 22:23	WG2030849
tert-Butyl alcohol	U		0.203	0.250	50	03/27/2023 22:23	WG2030849
1,1,1,2-Tetrachloroethane	U		0.00735	0.0500	50	03/27/2023 22:23	WG2030849
1,1,2,2-Tetrachloroethane	U		0.00665	0.0500	50	03/27/2023 22:23	WG2030849
Tetrachloroethene	U		0.0150	0.0500	50	03/27/2023 22:23	WG2030849
Toluene	U		0.0139	0.0500	50	03/27/2023 22:23	WG2030849
1,1,1-Trichloroethane	U		0.00745	0.0500	50	03/27/2023 22:23	WG2030849
1,1,2-Trichloroethane	U		0.00790	0.0500	50	03/27/2023 22:23	WG2030849
Trichloroethene	U		0.00950	0.0500	50	03/27/2023 22:23	WG2030849
1,2,4-Trimethylbenzene	U		0.0161	0.0500	50	03/27/2023 22:23	WG2030849
1,3,5-Trimethylbenzene	U		0.00520	0.0500	50	03/27/2023 22:23	WG2030849

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Vinyl chloride	U		0.0117	0.0500	50	03/27/2023 22:23	WG2030849
o-Xylene	U		0.00870	0.0500	50	03/27/2023 22:23	WG2030849
m&p-Xylene	U		0.0215	0.100	50	03/27/2023 22:23	WG2030849
Xylenes, Total	U		0.00870	0.150	50	03/27/2023 22:23	WG2030849
(S) Toluene-d8	*104*			*80.0-120*		*03/27/2023 22:23*	WG2030849
(S) 4-Bromofluorobenzene	*96.8*			*77.0-126*		*03/27/2023 22:23*	WG2030849
(S) 1,2-Dichloroethane-d4	*128*			*70.0-130*		*03/27/2023 22:23*	WG2030849

Sample Narrative:

L1597529-49 WG2030849: 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	1.27		0.0247	0.100	1	03/30/2023 20:37	WG2031810
(S) o-Terphenyl	*123*			*31.0-160*		*03/30/2023 20:37*	WG2031810

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	4550		100	1	03/25/2023 07:54	WG2029581

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	833		3.79	10.0	10	03/29/2023 03:16	WG2029188
Fluoride	2.22		0.640	1.50	10	03/29/2023 03:16	WG2029188
Nitrate	9.18	Q	0.480	1.00	10	03/29/2023 03:16	WG2029188
Nitrite	U	Q	0.420	1.00	10	03/29/2023 03:16	WG2029188
Sulfate	2150		59.4	500	100	03/29/2023 04:03	WG2029188

Sample Narrative:

L1597529-50 WG2029188: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00520		0.000180	0.00200	1	03/28/2023 01:30	WG2029248
Arsenic,Dissolved	0.00486		0.000180	0.00200	1	03/26/2023 22:55	WG2029231
Barium	0.0122		0.000381	0.00200	1	03/28/2023 01:30	WG2029248
Barium,Dissolved	0.0119		0.000381	0.00200	1	03/26/2023 22:55	WG2029231
Calcium	630		0.0936	1.00	1	03/28/2023 01:30	WG2029248
Chromium	U		0.00124	0.00200	1	03/28/2023 01:30	WG2029248
Chromium,Dissolved	U		0.00124	0.00200	1	03/26/2023 22:55	WG2029231
Iron	U		0.0281	0.100	1	03/28/2023 01:30	WG2029248
Iron,Dissolved	U		0.0281	0.100	1	03/26/2023 22:55	WG2029231
Lead	U		0.000849	0.00200	1	03/28/2023 01:30	WG2029248
Lead,Dissolved	U		0.000849	0.00200	1	03/26/2023 22:55	WG2029231
Manganese	0.00401	J	0.000704	0.00500	1	03/28/2023 01:30	WG2029248
Manganese,Dissolved	U		0.000704	0.00500	1	03/26/2023 22:55	WG2029231
Potassium	0.661	J	0.108	2.00	1	03/28/2023 01:30	WG2029248
Selenium	0.0193		0.000300	0.00200	1	03/28/2023 01:30	WG2029248
Selenium,Dissolved	0.0174		0.000300	0.00200	1	03/26/2023 22:55	WG2029231
Sodium	283		0.376	2.00	1	03/28/2023 01:30	WG2029248

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	03/27/2023 20:24	WG2030849
Benzene	U		0.0000941	0.00100	1	03/27/2023 20:24	WG2030849
Bromodichloromethane	U		0.000136	0.00100	1	03/27/2023 20:24	WG2030849
Bromoform	U		0.000129	0.00100	1	03/27/2023 20:24	WG2030849
Bromomethane	U		0.000605	0.00500	1	03/27/2023 20:24	WG2030849
n-Butylbenzene	U		0.000157	0.00100	1	03/27/2023 20:24	WG2030849
sec-Butylbenzene	U		0.000125	0.00100	1	03/27/2023 20:24	WG2030849
Carbon disulfide	0.000335	B J	0.0000962	0.00100	1	03/27/2023 20:24	WG2030849
Carbon tetrachloride	U		0.000128	0.00100	1	03/27/2023 20:24	WG2030849
Chlorobenzene	U		0.000116	0.00100	1	03/27/2023 20:24	WG2030849
Chlorodibromomethane	U		0.000140	0.00100	1	03/27/2023 20:24	WG2030849
Chloroethane	U		0.000192	0.00500	1	03/27/2023 20:24	WG2030849
Chloroform	U		0.000111	0.00500	1	03/27/2023 20:24	WG2030849
Chloromethane	U		0.000960	0.00250	1	03/27/2023 20:24	WG2030849
1,2-Dibromoethane	U		0.000126	0.00100	1	03/27/2023 20:24	WG2030849
1,1-Dichloroethane	U		0.000100	0.00100	1	03/27/2023 20:24	WG2030849

MW-20
Collected date/time: 03/22/23 10:25
L1597529

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	03/27/2023 20:24	WG2030849
1,1-Dichloroethene	U		0.000188	0.00100	1	03/27/2023 20:24	WG2030849
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/27/2023 20:24	WG2030849
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/27/2023 20:24	WG2030849
1,2-Dichloropropane	U		0.000149	0.00100	1	03/27/2023 20:24	WG2030849
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/27/2023 20:24	WG2030849
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/27/2023 20:24	WG2030849
Ethylbenzene	U		0.000137	0.00100	1	03/27/2023 20:24	WG2030849
Isopropylbenzene	U		0.000105	0.00100	1	03/27/2023 20:24	WG2030849
p-Isopropyltoluene	U		0.000120	0.00100	1	03/27/2023 20:24	WG2030849
2-Butanone (MEK)	U		0.00119	0.0100	1	03/27/2023 20:24	WG2030849
2-Hexanone	U		0.000787	0.0100	1	03/27/2023 20:24	WG2030849
Methylene Chloride	U		0.000430	0.00500	1	03/27/2023 20:24	WG2030849
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/27/2023 20:24	WG2030849
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/27/2023 20:24	WG2030849
Naphthalene	U		0.00100	0.00500	1	03/27/2023 20:24	WG2030849
n-Propylbenzene	U		0.0000993	0.00100	1	03/27/2023 20:24	WG2030849
Styrene	U		0.000118	0.00100	1	03/27/2023 20:24	WG2030849
tert-Butyl alcohol	U		0.00406	0.00500	1	03/27/2023 20:24	WG2030849
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/27/2023 20:24	WG2030849
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/27/2023 20:24	WG2030849
Tetrachloroethene	U		0.000300	0.00100	1	03/27/2023 20:24	WG2030849
Toluene	U		0.000278	0.00100	1	03/27/2023 20:24	WG2030849
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/27/2023 20:24	WG2030849
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/27/2023 20:24	WG2030849
Trichloroethene	U		0.000190	0.00100	1	03/27/2023 20:24	WG2030849
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/27/2023 20:24	WG2030849
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/27/2023 20:24	WG2030849
Vinyl chloride	U		0.000234	0.00100	1	03/27/2023 20:24	WG2030849
o-Xylene	U		0.000174	0.00100	1	03/27/2023 20:24	WG2030849
m&p-Xylene	U		0.000430	0.00200	1	03/27/2023 20:24	WG2030849
Xylenes, Total	U		0.000174	0.00300	1	03/27/2023 20:24	WG2030849
(S) Toluene-d8	*101*			*80.0-120*		*03/27/2023 20:24*	WG2030849
(S) 4-Bromofluorobenzene	*95.4*			*77.0-126*		*03/27/2023 20:24*	WG2030849
(S) 1,2-Dichloroethane-d4	*133*	J1		*70.0-130*		*03/27/2023 20:24*	WG2030849

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	0.130	B	0.0247	0.100	1	04/01/2023 17:36	WG2031810
(S) o-Terphenyl	*131*			*31.0-160*		*04/01/2023 17:36*	WG2031810

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3610		50.0	1	03/25/2023 07:54	WG2029581

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	472		3.79	10.0	10	03/24/2023 19:33	WG2029193
Fluoride	1.98		0.640	1.50	10	03/24/2023 19:33	WG2029193
Nitrate	U	Q	0.480	1.00	10	03/24/2023 19:33	WG2029193
Nitrite	U	Q	0.420	1.00	10	03/24/2023 19:33	WG2029193
Sulfate	1920		5.94	50.0	10	03/24/2023 19:33	WG2029193

Sample Narrative:

L1597529-51 WG2029193: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Calcium	428		0.0936	1.00	1	03/28/2023 01:33	WG2029248
Potassium	1.62	J	0.108	2.00	1	03/28/2023 01:33	WG2029248
Sodium	318		0.376	2.00	1	03/28/2023 01:33	WG2029248

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	03/27/2023 20:44	WG2030849
Benzene	U		0.0000941	0.00100	1	03/27/2023 20:44	WG2030849
Bromodichloromethane	U		0.000136	0.00100	1	03/27/2023 20:44	WG2030849
Bromoform	U		0.000129	0.00100	1	03/27/2023 20:44	WG2030849
Bromomethane	U		0.000605	0.00500	1	03/27/2023 20:44	WG2030849
n-Butylbenzene	U		0.000157	0.00100	1	03/27/2023 20:44	WG2030849
sec-Butylbenzene	U		0.000125	0.00100	1	03/27/2023 20:44	WG2030849
Carbon disulfide	0.000295	B J	0.0000962	0.00100	1	03/27/2023 20:44	WG2030849
Carbon tetrachloride	U		0.000128	0.00100	1	03/27/2023 20:44	WG2030849
Chlorobenzene	U		0.000116	0.00100	1	03/27/2023 20:44	WG2030849
Chlorodibromomethane	U		0.000140	0.00100	1	03/27/2023 20:44	WG2030849
Chloroethane	U		0.000192	0.00500	1	03/27/2023 20:44	WG2030849
Chloroform	U		0.000111	0.00500	1	03/27/2023 20:44	WG2030849
Chloromethane	U		0.000960	0.00250	1	03/27/2023 20:44	WG2030849
1,2-Dibromoethane	U		0.000126	0.00100	1	03/27/2023 20:44	WG2030849
1,1-Dichloroethane	U		0.000100	0.00100	1	03/27/2023 20:44	WG2030849
1,2-Dichloroethane	0.000121	J	0.0000819	0.00100	1	03/27/2023 20:44	WG2030849
1,1-Dichloroethene	U		0.000188	0.00100	1	03/27/2023 20:44	WG2030849
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/27/2023 20:44	WG2030849
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/27/2023 20:44	WG2030849
1,2-Dichloropropane	U		0.000149	0.00100	1	03/27/2023 20:44	WG2030849
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/27/2023 20:44	WG2030849
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/27/2023 20:44	WG2030849
Ethylbenzene	U		0.000137	0.00100	1	03/27/2023 20:44	WG2030849
Isopropylbenzene	U		0.000105	0.00100	1	03/27/2023 20:44	WG2030849
p-Isopropyltoluene	U		0.000120	0.00100	1	03/27/2023 20:44	WG2030849
2-Butanone (MEK)	U		0.00119	0.0100	1	03/27/2023 20:44	WG2030849
2-Hexanone	U		0.000787	0.0100	1	03/27/2023 20:44	WG2030849
Methylene Chloride	U		0.000430	0.00500	1	03/27/2023 20:44	WG2030849
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/27/2023 20:44	WG2030849

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	0.606		0.00202	0.0200	20	03/31/2023 14:53	WG2033423
Naphthalene	U		0.00100	0.00500	1	03/27/2023 20:44	WG2030849
n-Propylbenzene	U		0.0000993	0.00100	1	03/27/2023 20:44	WG2030849
Styrene	U		0.000118	0.00100	1	03/27/2023 20:44	WG2030849
tert-Butyl alcohol	U		0.00406	0.00500	1	03/27/2023 20:44	WG2030849
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/27/2023 20:44	WG2030849
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/27/2023 20:44	WG2030849
Tetrachloroethene	U		0.000300	0.00100	1	03/27/2023 20:44	WG2030849
Toluene	U		0.000278	0.00100	1	03/27/2023 20:44	WG2030849
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/27/2023 20:44	WG2030849
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/27/2023 20:44	WG2030849
Trichloroethene	U		0.000190	0.00100	1	03/27/2023 20:44	WG2030849
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/27/2023 20:44	WG2030849
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/27/2023 20:44	WG2030849
Vinyl chloride	U		0.000234	0.00100	1	03/27/2023 20:44	WG2030849
o-Xylene	U		0.000174	0.00100	1	03/27/2023 20:44	WG2030849
m&p-Xylene	U		0.000430	0.00200	1	03/27/2023 20:44	WG2030849
Xylenes, Total	U		0.000174	0.00300	1	03/27/2023 20:44	WG2030849
(S) Toluene-d8	*101*			*80.0-120*		*03/27/2023 20:44*	WG2030849
(S) Toluene-d8	*106*			*80.0-120*		*03/31/2023 14:53*	WG2033423
(S) 4-Bromofluorobenzene	*92.2*			*77.0-126*		*03/27/2023 20:44*	WG2030849
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*03/31/2023 14:53*	WG2033423
(S) 1,2-Dichloroethane-d4	*131*	J1		*70.0-130*		*03/27/2023 20:44*	WG2030849
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*03/31/2023 14:53*	WG2033423

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
Acetone	U		0.0113	0.0500	1	03/27/2023 21:04	WG2030849
Benzene	U		0.0000941	0.00100	1	03/27/2023 21:04	WG2030849
Bromodichloromethane	U		0.000136	0.00100	1	03/27/2023 21:04	WG2030849
Bromoform	U		0.000129	0.00100	1	03/27/2023 21:04	WG2030849
Bromomethane	U		0.000605	0.00500	1	03/27/2023 21:04	WG2030849
n-Butylbenzene	U		0.000157	0.00100	1	03/27/2023 21:04	WG2030849
sec-Butylbenzene	U		0.000125	0.00100	1	03/27/2023 21:04	WG2030849
Carbon disulfide	0.000277	B J	0.0000962	0.00100	1	03/27/2023 21:04	WG2030849
Carbon tetrachloride	U		0.000128	0.00100	1	03/27/2023 21:04	WG2030849
Chlorobenzene	U		0.000116	0.00100	1	03/27/2023 21:04	WG2030849
Chlorodibromomethane	U		0.000140	0.00100	1	03/27/2023 21:04	WG2030849
Chloroethane	U		0.000192	0.00500	1	03/27/2023 21:04	WG2030849
Chloroform	U		0.000111	0.00500	1	03/27/2023 21:04	WG2030849
Chloromethane	U		0.000960	0.00250	1	03/27/2023 21:04	WG2030849
1,2-Dibromoethane	U		0.000126	0.00100	1	03/27/2023 21:04	WG2030849
1,1-Dichloroethane	U		0.000100	0.00100	1	03/27/2023 21:04	WG2030849
1,2-Dichloroethane	0.000426	J	0.0000819	0.00100	1	03/27/2023 21:04	WG2030849
1,1-Dichloroethene	U		0.000188	0.00100	1	03/27/2023 21:04	WG2030849
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/27/2023 21:04	WG2030849
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/27/2023 21:04	WG2030849
1,2-Dichloropropane	U		0.000149	0.00100	1	03/27/2023 21:04	WG2030849
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/27/2023 21:04	WG2030849
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/27/2023 21:04	WG2030849
Ethylbenzene	U		0.000137	0.00100	1	03/27/2023 21:04	WG2030849
Isopropylbenzene	U		0.000105	0.00100	1	03/27/2023 21:04	WG2030849
p-Isopropyltoluene	U		0.000120	0.00100	1	03/27/2023 21:04	WG2030849
2-Butanone (MEK)	U		0.00119	0.0100	1	03/27/2023 21:04	WG2030849
2-Hexanone	U		0.000787	0.0100	1	03/27/2023 21:04	WG2030849
Methylene Chloride	U		0.000430	0.00500	1	03/27/2023 21:04	WG2030849
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/27/2023 21:04	WG2030849
Methyl tert-butyl ether	0.189		0.000101	0.00100	1	03/27/2023 21:04	WG2030849
Naphthalene	U		0.00100	0.00500	1	03/27/2023 21:04	WG2030849
n-Propylbenzene	U		0.0000993	0.00100	1	03/27/2023 21:04	WG2030849
Styrene	U		0.000118	0.00100	1	03/27/2023 21:04	WG2030849
tert-Butyl alcohol	U		0.00406	0.00500	1	03/27/2023 21:04	WG2030849
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/27/2023 21:04	WG2030849
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/27/2023 21:04	WG2030849
Tetrachloroethene	U		0.000300	0.00100	1	03/27/2023 21:04	WG2030849
Toluene	U		0.000278	0.00100	1	03/27/2023 21:04	WG2030849
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/27/2023 21:04	WG2030849
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/27/2023 21:04	WG2030849
Trichloroethene	U		0.000190	0.00100	1	03/27/2023 21:04	WG2030849
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/27/2023 21:04	WG2030849
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/27/2023 21:04	WG2030849
Vinyl chloride	U		0.000234	0.00100	1	03/27/2023 21:04	WG2030849
o-Xylene	U		0.000174	0.00100	1	03/27/2023 21:04	WG2030849
m&p-Xylene	U		0.000430	0.00200	1	03/27/2023 21:04	WG2030849
Xylenes, Total	U		0.000174	0.00300	1	03/27/2023 21:04	WG2030849
(S) Toluene-d8	*102*			*80.0-120*		*03/27/2023 21:04*	WG2030849
(S) 4-Bromofluorobenzene	*95.0*			*77.0-126*		*03/27/2023 21:04*	WG2030849
(S) 1,2-Dichloroethane-d4	*128*			*70.0-130*		*03/27/2023 21:04*	WG2030849

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4110		100	1	03/25/2023 07:54	WG2029581

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	678		3.79	10.0	10	03/29/2023 04:19	WG2029188
Fluoride	2.09		0.640	1.50	10	03/29/2023 04:19	WG2029188
Nitrate	9.45	Q	0.480	1.00	10	03/29/2023 04:19	WG2029188
Nitrite	U	Q	0.420	1.00	10	03/29/2023 04:19	WG2029188
Sulfate	2380		59.4	500	100	03/29/2023 04:35	WG2029188

Sample Narrative:

L1597529-53 WG2029188: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00708		0.000180	0.00200	1	03/28/2023 01:43	WG2029248
Arsenic,Dissolved	0.00624		0.000180	0.00200	1	03/27/2023 20:57	WG2029232
Barium	0.0130		0.000381	0.00200	1	03/28/2023 01:43	WG2029248
Barium,Dissolved	0.0132		0.000381	0.00200	1	03/27/2023 20:57	WG2029232
Calcium	546		0.0936	1.00	1	03/28/2023 01:43	WG2029248
Chromium	0.00998		0.00124	0.00200	1	03/28/2023 01:43	WG2029248
Chromium,Dissolved	U		0.00124	0.00200	1	03/27/2023 20:57	WG2029232
Iron	0.0784	J	0.0281	0.100	1	03/28/2023 01:43	WG2029248
Iron,Dissolved	U		0.0281	0.100	1	03/27/2023 20:57	WG2029232
Lead	U		0.000849	0.00200	1	03/28/2023 01:43	WG2029248
Lead,Dissolved	U		0.000849	0.00200	1	03/27/2023 20:57	WG2029232
Manganese	0.339		0.000704	0.00500	1	03/28/2023 01:43	WG2029248
Manganese,Dissolved	0.283		0.000704	0.00500	1	03/27/2023 20:57	WG2029232
Potassium	1.96	J	0.108	2.00	1	03/28/2023 01:43	WG2029248
Selenium	0.0663		0.000300	0.00200	1	03/28/2023 01:43	WG2029248
Selenium,Dissolved	0.0641		0.000300	0.00200	1	03/27/2023 20:57	WG2029232
Sodium	418		0.376	2.00	1	03/28/2023 01:43	WG2029248

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	0.246		0.0314	0.100	1	03/26/2023 15:58	WG2030302
(S) a,a,a-Trifluorotoluene(FID)	*111*			*78.0-120*		*03/26/2023 15:58*	WG2030302

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	03/27/2023 21:23	WG2030849
Benzene	U		0.0000941	0.00100	1	03/27/2023 21:23	WG2030849
Bromodichloromethane	U		0.000136	0.00100	1	03/27/2023 21:23	WG2030849
Bromoform	U		0.000129	0.00100	1	03/27/2023 21:23	WG2030849
Bromomethane	U		0.000605	0.00500	1	03/27/2023 21:23	WG2030849
n-Butylbenzene	U		0.000157	0.00100	1	03/27/2023 21:23	WG2030849
sec-Butylbenzene	U		0.000125	0.00100	1	03/27/2023 21:23	WG2030849
Carbon disulfide	0.000250	B J	0.0000962	0.00100	1	03/27/2023 21:23	WG2030849
Carbon tetrachloride	U		0.000128	0.00100	1	03/27/2023 21:23	WG2030849

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	03/27/2023 21:23	WG2030849
Chlorodibromomethane	U		0.000140	0.00100	1	03/27/2023 21:23	WG2030849
Chloroethane	U		0.000192	0.00500	1	03/27/2023 21:23	WG2030849
Chloroform	U		0.000111	0.00500	1	03/27/2023 21:23	WG2030849
Chloromethane	U		0.000960	0.00250	1	03/27/2023 21:23	WG2030849
1,2-Dibromoethane	U		0.000126	0.00100	1	03/27/2023 21:23	WG2030849
1,1-Dichloroethane	U		0.000100	0.00100	1	03/27/2023 21:23	WG2030849
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/27/2023 21:23	WG2030849
1,1-Dichloroethene	U		0.000188	0.00100	1	03/27/2023 21:23	WG2030849
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/27/2023 21:23	WG2030849
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/27/2023 21:23	WG2030849
1,2-Dichloropropane	U		0.000149	0.00100	1	03/27/2023 21:23	WG2030849
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/27/2023 21:23	WG2030849
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/27/2023 21:23	WG2030849
Ethylbenzene	U		0.000137	0.00100	1	03/27/2023 21:23	WG2030849
Isopropylbenzene	U		0.000105	0.00100	1	03/27/2023 21:23	WG2030849
p-Isopropyltoluene	U		0.000120	0.00100	1	03/27/2023 21:23	WG2030849
2-Butanone (MEK)	U		0.00119	0.0100	1	03/27/2023 21:23	WG2030849
2-Hexanone	U		0.000787	0.0100	1	03/27/2023 21:23	WG2030849
Methylene Chloride	U		0.000430	0.00500	1	03/27/2023 21:23	WG2030849
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/27/2023 21:23	WG2030849
Methyl tert-butyl ether	0.193		0.000101	0.00100	1	03/27/2023 21:23	WG2030849
Naphthalene	U		0.00100	0.00500	1	03/27/2023 21:23	WG2030849
n-Propylbenzene	U		0.0000993	0.00100	1	03/27/2023 21:23	WG2030849
Styrene	U		0.000118	0.00100	1	03/27/2023 21:23	WG2030849
tert-Butyl alcohol	U		0.00406	0.00500	1	03/27/2023 21:23	WG2030849
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/27/2023 21:23	WG2030849
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/27/2023 21:23	WG2030849
Tetrachloroethene	U		0.000300	0.00100	1	03/27/2023 21:23	WG2030849
Toluene	U		0.000278	0.00100	1	03/27/2023 21:23	WG2030849
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/27/2023 21:23	WG2030849
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/27/2023 21:23	WG2030849
Trichloroethene	U		0.000190	0.00100	1	03/27/2023 21:23	WG2030849
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/27/2023 21:23	WG2030849
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/27/2023 21:23	WG2030849
Vinyl chloride	U		0.000234	0.00100	1	03/27/2023 21:23	WG2030849
o-Xylene	U		0.000174	0.00100	1	03/27/2023 21:23	WG2030849
m&p-Xylene	U		0.000430	0.00200	1	03/27/2023 21:23	WG2030849
Xylenes, Total	U		0.000174	0.00300	1	03/27/2023 21:23	WG2030849
(S) Toluene-d8	*104*			*80.0-120*		*03/27/2023 21:23*	WG2030849
(S) 4-Bromofluorobenzene	*98.8*			*77.0-126*		*03/27/2023 21:23*	WG2030849
(S) 1,2-Dichloroethane-d4	*126*			*70.0-130*		*03/27/2023 21:23*	WG2030849

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	0.190	B	0.0247	0.100	1	03/30/2023 21:18	WG2031810
(S) o-Terphenyl	*96.5*			*31.0-160*		*03/30/2023 21:18*	WG2031810

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4630		100	1	03/25/2023 07:54	WG2029581

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	661		3.79	10.0	10	03/24/2023 16:59	WG2029193
Fluoride	1.90		0.640	1.50	10	03/24/2023 16:59	WG2029193
Nitrate	8.08	Q	0.480	1.00	10	03/24/2023 16:59	WG2029193
Nitrite	U	Q	0.420	1.00	10	03/24/2023 16:59	WG2029193
Sulfate	2310		59.4	500	100	03/24/2023 17:12	WG2029193

Sample Narrative:

L1597529-54 WG2029193: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00562		0.000180	0.00200	1	03/28/2023 01:46	WG2029248
Arsenic,Dissolved	0.00537		0.000180	0.00200	1	03/27/2023 21:10	WG2029232
Barium	0.00891		0.000381	0.00200	1	03/28/2023 01:46	WG2029248
Barium,Dissolved	0.00837		0.000381	0.00200	1	03/27/2023 21:10	WG2029232
Calcium	539		0.0936	1.00	1	03/28/2023 01:46	WG2029248
Chromium	U		0.00124	0.00200	1	03/28/2023 01:46	WG2029248
Chromium,Dissolved	U		0.00124	0.00200	1	03/27/2023 21:10	WG2029232
Iron	U		0.0281	0.100	1	03/28/2023 01:46	WG2029248
Iron,Dissolved	U		0.0281	0.100	1	03/27/2023 21:10	WG2029232
Lead	U		0.000849	0.00200	1	03/28/2023 01:46	WG2029248
Lead,Dissolved	U		0.000849	0.00200	1	03/27/2023 21:10	WG2029232
Manganese	0.203		0.000704	0.00500	1	03/28/2023 01:46	WG2029248
Manganese,Dissolved	0.147		0.000704	0.00500	1	03/27/2023 21:10	WG2029232
Potassium	2.06		0.108	2.00	1	03/28/2023 01:46	WG2029248
Selenium	0.0416		0.000300	0.00200	1	03/28/2023 01:46	WG2029248
Selenium,Dissolved	0.0392		0.000300	0.00200	1	03/27/2023 21:10	WG2029232
Sodium	410		0.376	2.00	1	03/28/2023 01:46	WG2029248

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	0.0551	J	0.0314	0.100	1	03/26/2023 16:20	WG2030302
(S) a,a,a-Trifluorotoluene(FID)	*112*			*78.0-120*		*03/26/2023 16:20*	WG2030302

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	03/28/2023 00:57	WG2031003
Benzene	U		0.0000941	0.00100	1	03/28/2023 00:57	WG2031003
Bromodichloromethane	U		0.000136	0.00100	1	03/28/2023 00:57	WG2031003
Bromoform	U		0.000129	0.00100	1	03/28/2023 00:57	WG2031003
Bromomethane	U		0.000605	0.00500	1	03/28/2023 00:57	WG2031003
n-Butylbenzene	U		0.000157	0.00100	1	03/28/2023 00:57	WG2031003
sec-Butylbenzene	U		0.000125	0.00100	1	03/28/2023 00:57	WG2031003
Carbon disulfide	0.000152	B J	0.0000962	0.00100	1	03/28/2023 00:57	WG2031003
Carbon tetrachloride	U		0.000128	0.00100	1	03/28/2023 00:57	WG2031003

MW-21
Collected date/time: 03/22/23 11:55
L1597529

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	03/28/2023 00:57	WG2031003
Chlorodibromomethane	U		0.000140	0.00100	1	03/28/2023 00:57	WG2031003
Chloroethane	U		0.000192	0.00500	1	03/28/2023 00:57	WG2031003
Chloroform	U		0.000111	0.00500	1	03/28/2023 00:57	WG2031003
Chloromethane	U		0.000960	0.00250	1	03/28/2023 00:57	WG2031003
1,2-Dibromoethane	U		0.000126	0.00100	1	03/28/2023 00:57	WG2031003
1,1-Dichloroethane	U		0.000100	0.00100	1	03/28/2023 00:57	WG2031003
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/28/2023 00:57	WG2031003
1,1-Dichloroethene	U		0.000188	0.00100	1	03/28/2023 00:57	WG2031003
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/28/2023 00:57	WG2031003
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/28/2023 00:57	WG2031003
1,2-Dichloropropane	U		0.000149	0.00100	1	03/28/2023 00:57	WG2031003
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/28/2023 00:57	WG2031003
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/28/2023 00:57	WG2031003
Ethylbenzene	U		0.000137	0.00100	1	03/28/2023 00:57	WG2031003
Isopropylbenzene	U		0.000105	0.00100	1	03/28/2023 00:57	WG2031003
p-Isopropyltoluene	U		0.000120	0.00100	1	03/28/2023 00:57	WG2031003
2-Butanone (MEK)	U		0.00119	0.0100	1	03/28/2023 00:57	WG2031003
2-Hexanone	U		0.000787	0.0100	1	03/28/2023 00:57	WG2031003
Methylene Chloride	U		0.000430	0.00500	1	03/28/2023 00:57	WG2031003
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/28/2023 00:57	WG2031003
Methyl tert-butyl ether	0.0524		0.000101	0.00100	1	03/28/2023 00:57	WG2031003
Naphthalene	U		0.00100	0.00500	1	03/28/2023 00:57	WG2031003
n-Propylbenzene	U		0.0000993	0.00100	1	03/28/2023 00:57	WG2031003
Styrene	U		0.000118	0.00100	1	03/28/2023 00:57	WG2031003
tert-Butyl alcohol	0.0166		0.00406	0.00500	1	03/28/2023 00:57	WG2031003
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/28/2023 00:57	WG2031003
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/28/2023 00:57	WG2031003
Tetrachloroethene	U		0.000300	0.00100	1	03/28/2023 00:57	WG2031003
Toluene	U		0.000278	0.00100	1	03/28/2023 00:57	WG2031003
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/28/2023 00:57	WG2031003
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/28/2023 00:57	WG2031003
Trichloroethene	U		0.000190	0.00100	1	03/28/2023 00:57	WG2031003
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/28/2023 00:57	WG2031003
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/28/2023 00:57	WG2031003
Vinyl chloride	U		0.000234	0.00100	1	03/28/2023 00:57	WG2031003
o-Xylene	U		0.000174	0.00100	1	03/28/2023 00:57	WG2031003
m&p-Xylene	U		0.000430	0.00200	1	03/28/2023 00:57	WG2031003
Xylenes, Total	U		0.000174	0.00300	1	03/28/2023 00:57	WG2031003
(S) Toluene-d8	*96.4*			*80.0-120*		*03/28/2023 00:57*	WG2031003
(S) 4-Bromofluorobenzene	*83.4*			*77.0-126*		*03/28/2023 00:57*	WG2031003
(S) 1,2-Dichloroethane-d4	*84.4*			*70.0-130*		*03/28/2023 00:57*	WG2031003

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	0.320	B	0.0247	0.100	1	03/30/2023 21:38	WG2031810
(S) o-Terphenyl	*100*			*31.0-160*		*03/30/2023 21:38*	WG2031810

MW-71
Collected date/time: 03/22/23 09:55
L1597529

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4930		100	1	03/25/2023 07:54	WG2029581

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		0.00900	0.0250	5	03/27/2023 11:14	WG2028782

Sample Narrative:
L1597529-55 WG2028782: Dilution due to matrix.

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	706		3.79	10.0	10	03/28/2023 19:51	WG2029184
Fluoride	1.94	B	0.640	1.50	10	03/28/2023 19:51	WG2029184
Nitrate	16.3	Q	0.480	1.00	10	03/28/2023 19:51	WG2029184
Nitrite	U	Q	0.420	1.00	10	03/28/2023 19:51	WG2029184
Sulfate	3010		59.4	500	100	03/28/2023 20:05	WG2029184

Sample Narrative:
L1597529-55 WG2029184: Dilution due to matrix.

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	03/27/2023 08:21	WG2029442
Mercury,Dissolved	U		0.000100	0.000200	1	03/28/2023 10:48	WG2030410

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	0.626		0.0200	0.200	1	03/28/2023 12:24	WG2029237
Boron,Dissolved	0.637		0.0200	0.200	1	03/28/2023 21:06	WG2029228

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00391		0.000180	0.00200	1	03/28/2023 01:50	WG2029248
Arsenic,Dissolved	0.00372		0.000180	0.00200	1	03/27/2023 21:13	WG2029232
Barium	0.00845		0.000381	0.00200	1	03/28/2023 01:50	WG2029248
Barium,Dissolved	0.00809		0.000381	0.00200	1	03/27/2023 21:13	WG2029232
Cadmium	U		0.000150	0.00100	1	03/28/2023 01:50	WG2029248
Cadmium,Dissolved	U		0.000150	0.00100	1	03/27/2023 21:13	WG2029232
Calcium	592		0.0936	1.00	1	03/28/2023 01:50	WG2029248
Chromium	0.00151	J	0.00124	0.00200	1	03/28/2023 01:50	WG2029248
Chromium,Dissolved	U		0.00124	0.00200	1	03/27/2023 21:13	WG2029232
Cobalt	0.000125	J	0.0000596	0.00200	1	03/28/2023 01:50	WG2029248
Cobalt,Dissolved	0.000111	J	0.0000596	0.00200	1	03/27/2023 21:13	WG2029232
Iron	U		0.0281	0.100	1	03/28/2023 01:50	WG2029248
Iron,Dissolved	U		0.0281	0.100	1	03/27/2023 21:13	WG2029232
Lead	U		0.000849	0.00200	1	03/28/2023 01:50	WG2029248
Lead,Dissolved	U		0.000849	0.00200	1	03/27/2023 21:13	WG2029232
Manganese	0.000845	J	0.000704	0.00500	1	03/28/2023 01:50	WG2029248

MW-71
Collected date/time: 03/22/23 09:55
L1597529

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Manganese,Dissolved	U		0.000704	0.00500	1	03/27/2023 21:13	WG2029232
Nickel	0.00110	J	0.000816	0.00200	1	03/28/2023 01:50	WG2029248
Nickel,Dissolved	U		0.000816	0.00200	1	03/27/2023 21:13	WG2029232
Potassium	3.27		0.108	2.00	1	03/28/2023 01:50	WG2029248
Selenium	0.0252		0.000300	0.00200	1	03/28/2023 01:50	WG2029248
Selenium,Dissolved	0.0230		0.000300	0.00200	1	03/27/2023 21:13	WG2029232
Sodium	511		0.376	2.00	1	03/28/2023 01:50	WG2029248
Uranium	0.0672		0.0000789	0.00100	1	03/28/2023 01:50	WG2029248
Uranium,Dissolved	0.0694		0.0000789	0.00100	1	03/27/2023 21:13	WG2029232
Vanadium	0.0249		0.000664	0.00500	1	03/28/2023 01:50	WG2029248
Vanadium,Dissolved	0.0248		0.000664	0.00500	1	03/27/2023 21:13	WG2029232

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	03/28/2023 01:19	WG2031003
Benzene	U		0.0000941	0.00100	1	03/28/2023 01:19	WG2031003
Bromodichloromethane	U		0.000136	0.00100	1	03/28/2023 01:19	WG2031003
Bromoform	U		0.000129	0.00100	1	03/28/2023 01:19	WG2031003
Bromomethane	U		0.000605	0.00500	1	03/28/2023 01:19	WG2031003
n-Butylbenzene	U		0.000157	0.00100	1	03/28/2023 01:19	WG2031003
sec-Butylbenzene	U		0.000125	0.00100	1	03/28/2023 01:19	WG2031003
Carbon disulfide	0.000154	B J	0.0000962	0.00100	1	03/28/2023 01:19	WG2031003
Carbon tetrachloride	U		0.000128	0.00100	1	03/28/2023 01:19	WG2031003
Chlorobenzene	U		0.000116	0.00100	1	03/28/2023 01:19	WG2031003
Chlorodibromomethane	U		0.000140	0.00100	1	03/28/2023 01:19	WG2031003
Chloroethane	U		0.000192	0.00500	1	03/28/2023 01:19	WG2031003
Chloroform	U		0.000111	0.00500	1	03/28/2023 01:19	WG2031003
Chloromethane	U		0.000960	0.00250	1	03/28/2023 01:19	WG2031003
1,2-Dibromoethane	U		0.000126	0.00100	1	03/28/2023 01:19	WG2031003
1,1-Dichloroethane	U		0.000100	0.00100	1	03/28/2023 01:19	WG2031003
1,2-Dichloroethane	0.000184	J	0.0000819	0.00100	1	03/28/2023 01:19	WG2031003
1,1-Dichloroethene	U		0.000188	0.00100	1	03/28/2023 01:19	WG2031003
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/28/2023 01:19	WG2031003
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/28/2023 01:19	WG2031003
1,2-Dichloropropane	U		0.000149	0.00100	1	03/28/2023 01:19	WG2031003
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/28/2023 01:19	WG2031003
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/28/2023 01:19	WG2031003
Ethylbenzene	U		0.000137	0.00100	1	03/28/2023 01:19	WG2031003
Isopropylbenzene	U		0.000105	0.00100	1	03/28/2023 01:19	WG2031003
p-Isopropyltoluene	U		0.000120	0.00100	1	03/28/2023 01:19	WG2031003
2-Butanone (MEK)	U		0.00119	0.0100	1	03/28/2023 01:19	WG2031003
2-Hexanone	U		0.000787	0.0100	1	03/28/2023 01:19	WG2031003
Methylene Chloride	U		0.000430	0.00500	1	03/28/2023 01:19	WG2031003
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/28/2023 01:19	WG2031003
Methyl tert-butyl ether	0.000398	J	0.000101	0.00100	1	03/28/2023 01:19	WG2031003
Naphthalene	U		0.00100	0.00500	1	03/28/2023 01:19	WG2031003
n-Propylbenzene	U		0.0000993	0.00100	1	03/28/2023 01:19	WG2031003
Styrene	U		0.000118	0.00100	1	03/28/2023 01:19	WG2031003
tert-Butyl alcohol	U		0.00406	0.00500	1	03/28/2023 01:19	WG2031003
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/28/2023 01:19	WG2031003
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/28/2023 01:19	WG2031003
Tetrachloroethene	U		0.000300	0.00100	1	03/28/2023 01:19	WG2031003
Toluene	U		0.000278	0.00100	1	03/28/2023 01:19	WG2031003
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/28/2023 01:19	WG2031003
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/28/2023 01:19	WG2031003

MW-71
Collected date/time: 03/22/23 09:55
L1597529

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Trichloroethene	U		0.000190	0.00100	1	03/28/2023 01:19	WG2031003
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/28/2023 01:19	WG2031003
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/28/2023 01:19	WG2031003
Vinyl chloride	U		0.000234	0.00100	1	03/28/2023 01:19	WG2031003
o-Xylene	U		0.000174	0.00100	1	03/28/2023 01:19	WG2031003
m&p-Xylene	U		0.000430	0.00200	1	03/28/2023 01:19	WG2031003
Xylenes, Total	U		0.000174	0.00300	1	03/28/2023 01:19	WG2031003
(S) Toluene-d8	*95.4*			*80.0-120*		*03/28/2023 01:19*	WG2031003
(S) 4-Bromofluorobenzene	*79.5*			*77.0-126*		*03/28/2023 01:19*	WG2031003
(S) 1,2-Dichloroethane-d4	*87.1*			*70.0-130*		*03/28/2023 01:19*	WG2031003

EDB / DBCP by Method 8011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Ethylene Dibromide	U		0.00000579	0.0000216	1.08	03/28/2023 19:11	WG2031055

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	0.107	B	0.0247	0.100	1	03/30/2023 21:58	WG2031810
(S) o-Terphenyl	*94.5*			*31.0-160*		*03/30/2023 21:58*	WG2031810

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	03/29/2023 12:37	WG2030234
(S) Nitrobenzene-d5	*31.5*			*10.0-120*		*03/29/2023 12:37*	WG2030234

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2600		50.0	1	03/25/2023 07:54	WG2029581

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	03/27/2023 11:16	WG2028782

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	359		3.79	10.0	10	03/24/2023 01:26	WG2029007
Fluoride	U		0.640	1.50	10	03/24/2023 01:26	WG2029007
Nitrate	3.22		0.480	1.00	10	03/24/2023 01:26	WG2029007
Nitrite	U		0.420	1.00	10	03/24/2023 01:26	WG2029007
Sulfate	1410		5.94	50.0	10	03/24/2023 01:26	WG2029007

Sample Narrative:

L1597529-56 WG2029007: Dilution due to matrix.

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	03/29/2023 09:36	WG2030401
Mercury,Dissolved	U		0.000100	0.000200	1	03/28/2023 10:50	WG2030410

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	0.122	J	0.0200	0.200	1	03/24/2023 17:10	WG2029239
Boron,Dissolved	0.120	J	0.0200	0.200	1	03/28/2023 21:15	WG2029228

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	03/27/2023 17:20	WG2029758
Arsenic,Dissolved	0.00147	J	0.000180	0.00200	1	03/27/2023 21:16	WG2029232
Barium	0.0145		0.000381	0.00200	1	03/27/2023 17:20	WG2029758
Barium,Dissolved	0.0145		0.000381	0.00200	1	03/27/2023 21:16	WG2029232
Cadmium	U		0.000150	0.00100	1	03/27/2023 17:20	WG2029758
Cadmium,Dissolved	U		0.000150	0.00100	1	03/27/2023 21:16	WG2029232
Calcium	497		0.0936	1.00	1	03/27/2023 17:20	WG2029758
Chromium	U		0.00124	0.00200	1	03/27/2023 17:20	WG2029758
Chromium,Dissolved	U		0.00124	0.00200	1	03/27/2023 21:16	WG2029232
Cobalt	U		0.0000596	0.00200	1	03/27/2023 17:20	WG2029758
Cobalt,Dissolved	U		0.0000596	0.00200	1	03/27/2023 21:16	WG2029232
Iron	U		0.0281	0.100	1	03/27/2023 17:20	WG2029758
Iron,Dissolved	U		0.0281	0.100	1	03/27/2023 21:16	WG2029232
Lead	U		0.000849	0.00200	1	03/27/2023 17:20	WG2029758
Lead,Dissolved	U		0.000849	0.00200	1	03/27/2023 21:16	WG2029232
Manganese	0.00371	J	0.000704	0.00500	1	03/27/2023 17:20	WG2029758
Manganese,Dissolved	0.00220	J	0.000704	0.00500	1	03/27/2023 21:16	WG2029232
Nickel	U		0.000816	0.00200	1	03/27/2023 19:23	WG2029758
Nickel,Dissolved	U		0.000816	0.00200	1	03/27/2023 21:16	WG2029232

Received by OCD: 6/12/2024 3:31:05 PM

KWD-1B
Collected date/time: 03/22/23 08:20
L1597529

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Potassium	2.37		0.108	2.00	1	03/27/2023 17:20	WG2029758
Selenium	0.00638		0.000300	0.00200	1	03/27/2023 17:20	WG2029758
Selenium,Dissolved	0.00636		0.000300	0.00200	1	03/27/2023 21:16	WG2029232
Sodium	103		0.376	2.00	1	03/27/2023 17:20	WG2029758
Uranium	0.0145		0.0000789	0.00100	1	03/27/2023 17:20	WG2029758
Uranium,Dissolved	0.0145		0.0000789	0.00100	1	03/27/2023 21:16	WG2029232
Vanadium	0.00929		0.000664	0.00500	1	03/27/2023 17:20	WG2029758
Vanadium,Dissolved	0.00937		0.000664	0.00500	1	03/27/2023 21:16	WG2029232

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	03/26/2023 16:42	WG2030302
(S) a,a,a-Trifluorotoluene(FID)	*113*			*78.0-120*		*03/26/2023 16:42*	WG2030302

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	03/28/2023 01:40	WG2031003
Benzene	U		0.0000941	0.00100	1	03/28/2023 01:40	WG2031003
Bromodichloromethane	U		0.000136	0.00100	1	03/28/2023 01:40	WG2031003
Bromoform	U		0.000129	0.00100	1	03/28/2023 01:40	WG2031003
Bromomethane	U		0.000605	0.00500	1	03/28/2023 01:40	WG2031003
n-Butylbenzene	U		0.000157	0.00100	1	03/28/2023 01:40	WG2031003
sec-Butylbenzene	U		0.000125	0.00100	1	03/28/2023 01:40	WG2031003
Carbon disulfide	0.000147	B J	0.0000962	0.00100	1	03/28/2023 01:40	WG2031003
Carbon tetrachloride	U		0.000128	0.00100	1	03/28/2023 01:40	WG2031003
Chlorobenzene	U		0.000116	0.00100	1	03/28/2023 01:40	WG2031003
Chlorodibromomethane	U		0.000140	0.00100	1	03/28/2023 01:40	WG2031003
Chloroethane	U		0.000192	0.00500	1	03/28/2023 01:40	WG2031003
Chloroform	U		0.000111	0.00500	1	03/28/2023 01:40	WG2031003
Chloromethane	U		0.000960	0.00250	1	03/28/2023 01:40	WG2031003
1,2-Dibromoethane	U		0.000126	0.00100	1	03/28/2023 01:40	WG2031003
1,1-Dichloroethane	U		0.000100	0.00100	1	03/28/2023 01:40	WG2031003
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/28/2023 01:40	WG2031003
1,1-Dichloroethene	U		0.000188	0.00100	1	03/28/2023 01:40	WG2031003
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/28/2023 01:40	WG2031003
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/28/2023 01:40	WG2031003
1,2-Dichloropropane	U		0.000149	0.00100	1	03/28/2023 01:40	WG2031003
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/28/2023 01:40	WG2031003
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/28/2023 01:40	WG2031003
Ethylbenzene	U		0.000137	0.00100	1	03/28/2023 01:40	WG2031003
Isopropylbenzene	U		0.000105	0.00100	1	03/28/2023 01:40	WG2031003
p-Isopropyltoluene	U		0.000120	0.00100	1	03/28/2023 01:40	WG2031003
2-Butanone (MEK)	U		0.00119	0.0100	1	03/28/2023 01:40	WG2031003
2-Hexanone	U		0.000787	0.0100	1	03/28/2023 01:40	WG2031003
Methylene Chloride	U		0.000430	0.00500	1	03/28/2023 01:40	WG2031003
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/28/2023 01:40	WG2031003
Methyl tert-butyl ether	0.00111		0.000101	0.00100	1	03/28/2023 01:40	WG2031003
Naphthalene	U		0.00100	0.00500	1	03/28/2023 01:40	WG2031003
n-Propylbenzene	U		0.0000993	0.00100	1	03/28/2023 01:40	WG2031003
Styrene	U		0.000118	0.00100	1	03/28/2023 01:40	WG2031003
tert-Butyl alcohol	U		0.00406	0.00500	1	03/28/2023 01:40	WG2031003
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/28/2023 01:40	WG2031003
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/28/2023 01:40	WG2031003

Released to Imaging: 6/28/2024 11:23:28 AM

KWD-1B
Collected date/time: 03/22/23 08:20
L1597529

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Tetrachloroethene	U		0.000300	0.00100	1	03/28/2023 01:40	WG2031003
Toluene	U		0.000278	0.00100	1	03/28/2023 01:40	WG2031003
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/28/2023 01:40	WG2031003
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/28/2023 01:40	WG2031003
Trichloroethene	U		0.000190	0.00100	1	03/28/2023 01:40	WG2031003
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/28/2023 01:40	WG2031003
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/28/2023 01:40	WG2031003
Vinyl chloride	U		0.000234	0.00100	1	03/28/2023 01:40	WG2031003
o-Xylene	U		0.000174	0.00100	1	03/28/2023 01:40	WG2031003
m&p-Xylene	U		0.000430	0.00200	1	03/28/2023 01:40	WG2031003
Xylenes, Total	U		0.000174	0.00300	1	03/28/2023 01:40	WG2031003
(S) Toluene-d8	*97.6*			*80.0-120*		*03/28/2023 01:40*	WG2031003
(S) 4-Bromofluorobenzene	*80.9*			*77.0-126*		*03/28/2023 01:40*	WG2031003
(S) 1,2-Dichloroethane-d4	*86.8*			*70.0-130*		*03/28/2023 01:40*	WG2031003

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	0.109	B	0.0247	0.100	1	03/30/2023 22:19	WG2031810
(S) o-Terphenyl	*106*			*31.0-160*		*03/30/2023 22:19*	WG2031810

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	3280		50.0	1	03/25/2023 07:54	WG2029581

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	297		3.79	10.0	10	03/30/2023 02:46	WG2029199
Fluoride	2.01		0.640	1.50	10	03/30/2023 02:46	WG2029199
Nitrate	1.21	Q	0.480	1.00	10	03/30/2023 02:46	WG2029199
Nitrite	U	Q	0.420	1.00	10	03/30/2023 02:46	WG2029199
Sulfate	1840		5.94	50.0	10	03/30/2023 02:46	WG2029199

Sample Narrative:

L1597529-57 WG2029199: Dilution due to matrix.

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	03/30/2023 09:20	WG2031774
Mercury,Dissolved	U		0.000100	0.000200	1	03/30/2023 11:16	WG2031777

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	0.697		0.0200	0.200	1	03/29/2023 15:20	WG2031766
Boron,Dissolved	0.694		0.0200	0.200	1	03/29/2023 16:51	WG2031813

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00533		0.000180	0.00200	1	03/28/2023 01:53	WG2029248
Arsenic,Dissolved	0.00469		0.000180	0.00200	1	03/27/2023 21:19	WG2029232
Barium	0.0184		0.000381	0.00200	1	03/28/2023 01:53	WG2029248
Barium,Dissolved	0.0103		0.000381	0.00200	1	03/27/2023 21:19	WG2029232
Cadmium	U		0.000150	0.00100	1	03/28/2023 01:53	WG2029248
Cadmium,Dissolved	U		0.000150	0.00100	1	03/27/2023 21:19	WG2029232
Calcium	442		0.0936	1.00	1	03/28/2023 01:53	WG2029248
Chromium	0.00147	J	0.00124	0.00200	1	03/28/2023 01:53	WG2029248
Chromium,Dissolved	U		0.00124	0.00200	1	03/27/2023 21:19	WG2029232
Cobalt	0.00235		0.0000596	0.00200	1	03/28/2023 01:53	WG2029248
Cobalt,Dissolved	0.000155	J	0.0000596	0.00200	1	03/27/2023 21:19	WG2029232
Iron	0.358		0.0281	0.100	1	03/28/2023 01:53	WG2029248
Iron,Dissolved	U		0.0281	0.100	1	03/27/2023 21:19	WG2029232
Lead	U		0.000849	0.00200	1	03/28/2023 01:53	WG2029248
Lead,Dissolved	U		0.000849	0.00200	1	03/27/2023 21:19	WG2029232
Manganese	0.152		0.000704	0.00500	1	03/28/2023 01:53	WG2029248
Manganese,Dissolved	0.0246		0.000704	0.00500	1	03/27/2023 21:19	WG2029232
Nickel	0.00576		0.000816	0.00200	1	03/28/2023 01:53	WG2029248
Nickel,Dissolved	0.00479		0.000816	0.00200	1	03/27/2023 21:19	WG2029232
Potassium	0.614	J	0.108	2.00	1	03/28/2023 01:53	WG2029248
Selenium	0.00356		0.000300	0.00200	1	03/28/2023 01:53	WG2029248
Selenium,Dissolved	0.00386		0.000300	0.00200	1	03/27/2023 21:19	WG2029232
Sodium	256		0.376	2.00	1	03/28/2023 01:53	WG2029248
Uranium	0.0525		0.0000789	0.00100	1	03/28/2023 01:53	WG2029248
Uranium,Dissolved	0.0545		0.0000789	0.00100	1	03/27/2023 21:19	WG2029232

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Vanadium	0.0280		0.000664	0.00500	1	03/28/2023 01:53	WG2029248
Vanadium,Dissolved	0.0266		0.000664	0.00500	1	03/27/2023 21:19	WG2029232

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		0.628	2.00	20	03/26/2023 19:15	WG2030302
(S) a,a,a-Trifluorotoluene(FID)	*112*			*78.0-120*		*03/26/2023 19:15*	WG2030302

Sample Narrative:

L1597529-57 WG2030302: Lowest possible dilution due to sample foaming.

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	03/28/2023 02:02	WG2031003
Benzene	U		0.0000941	0.00100	1	03/28/2023 02:02	WG2031003
Bromodichloromethane	U		0.000136	0.00100	1	03/28/2023 02:02	WG2031003
Bromoform	U		0.000129	0.00100	1	03/28/2023 02:02	WG2031003
Bromomethane	U		0.000605	0.00500	1	03/28/2023 02:02	WG2031003
n-Butylbenzene	U		0.000157	0.00100	1	03/28/2023 02:02	WG2031003
sec-Butylbenzene	U		0.000125	0.00100	1	03/28/2023 02:02	WG2031003
Carbon disulfide	0.000144	B J	0.0000962	0.00100	1	03/28/2023 02:02	WG2031003
Carbon tetrachloride	U		0.000128	0.00100	1	03/28/2023 02:02	WG2031003
Chlorobenzene	U		0.000116	0.00100	1	03/28/2023 02:02	WG2031003
Chlorodibromomethane	U		0.000140	0.00100	1	03/28/2023 02:02	WG2031003
Chloroethane	U		0.000192	0.00500	1	03/28/2023 02:02	WG2031003
Chloroform	U		0.000111	0.00500	1	03/28/2023 02:02	WG2031003
Chloromethane	U		0.000960	0.00250	1	03/28/2023 02:02	WG2031003
1,2-Dibromoethane	U		0.000126	0.00100	1	03/28/2023 02:02	WG2031003
1,1-Dichloroethane	U		0.000100	0.00100	1	03/28/2023 02:02	WG2031003
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/28/2023 02:02	WG2031003
1,1-Dichloroethene	U		0.000188	0.00100	1	03/28/2023 02:02	WG2031003
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/28/2023 02:02	WG2031003
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/28/2023 02:02	WG2031003
1,2-Dichloropropane	U		0.000149	0.00100	1	03/28/2023 02:02	WG2031003
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/28/2023 02:02	WG2031003
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/28/2023 02:02	WG2031003
Ethylbenzene	U		0.000137	0.00100	1	03/28/2023 02:02	WG2031003
Isopropylbenzene	U		0.000105	0.00100	1	03/28/2023 02:02	WG2031003
p-Isopropyltoluene	U		0.000120	0.00100	1	03/28/2023 02:02	WG2031003
2-Butanone (MEK)	U		0.00119	0.0100	1	03/28/2023 02:02	WG2031003
2-Hexanone	U		0.000787	0.0100	1	03/28/2023 02:02	WG2031003
Methylene Chloride	U		0.000430	0.00500	1	03/28/2023 02:02	WG2031003
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/28/2023 02:02	WG2031003
Methyl tert-butyl ether	0.0203		0.000101	0.00100	1	03/28/2023 02:02	WG2031003
Naphthalene	U		0.00100	0.00500	1	03/28/2023 02:02	WG2031003
n-Propylbenzene	U		0.0000993	0.00100	1	03/28/2023 02:02	WG2031003
Styrene	U		0.000118	0.00100	1	03/28/2023 02:02	WG2031003
tert-Butyl alcohol	0.00574		0.00406	0.00500	1	03/28/2023 02:02	WG2031003
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/28/2023 02:02	WG2031003
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/28/2023 02:02	WG2031003
Tetrachloroethene	U		0.000300	0.00100	1	03/28/2023 02:02	WG2031003
Toluene	U		0.000278	0.00100	1	03/28/2023 02:02	WG2031003
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/28/2023 02:02	WG2031003

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/28/2023 02:02	WG2031003
Trichloroethene	U		0.000190	0.00100	1	03/28/2023 02:02	WG2031003
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/28/2023 02:02	WG2031003
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/28/2023 02:02	WG2031003
Vinyl chloride	U		0.000234	0.00100	1	03/28/2023 02:02	WG2031003
o-Xylene	U		0.000174	0.00100	1	03/28/2023 02:02	WG2031003
m&p-Xylene	U		0.000430	0.00200	1	03/28/2023 02:02	WG2031003
Xylenes, Total	U		0.000174	0.00300	1	03/28/2023 02:02	WG2031003
(S) Toluene-d8	*94.6*			*80.0-120*		*03/28/2023 02:02*	WG2031003
(S) 4-Bromofluorobenzene	*85.4*			*77.0-126*		*03/28/2023 02:02*	WG2031003
(S) 1,2-Dichloroethane-d4	*82.7*			*70.0-130*		*03/28/2023 02:02*	WG2031003

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	0.760		0.0247	0.100	1	03/30/2023 22:39	WG2031810
(S) o-Terphenyl	*114*			*31.0-160*		*03/30/2023 22:39*	WG2031810

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	2840		50.0	1	03/25/2023 07:54	WG2029581

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	364		3.79	10.0	10	03/30/2023 03:18	WG2029199
Fluoride	3.42		0.640	1.50	10	03/30/2023 03:18	WG2029199
Nitrate	2.46	Q	0.480	1.00	10	03/30/2023 03:18	WG2029199
Nitrite	U	Q	0.420	1.00	10	03/30/2023 03:18	WG2029199
Sulfate	1600		5.94	50.0	10	03/30/2023 03:18	WG2029199

Sample Narrative:

L1597529-58 WG2029199: Dilution due to matrix.

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	03/30/2023 09:22	WG2031774
Mercury,Dissolved	U		0.000100	0.000200	1	03/30/2023 11:18	WG2031777

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Boron	0.0472	J	0.0200	0.200	1	03/29/2023 15:32	WG2031766
Boron,Dissolved	0.0358	J	0.0200	0.200	1	03/29/2023 17:02	WG2031813

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00220		0.000180	0.00200	1	03/26/2023 20:58	WG2029249
Arsenic,Dissolved	0.00205		0.000180	0.00200	1	03/27/2023 21:31	WG2029232
Barium	0.0122		0.000381	0.00200	1	03/26/2023 20:58	WG2029249
Barium,Dissolved	0.0139		0.000381	0.00200	1	03/27/2023 21:31	WG2029232
Cadmium	U		0.000150	0.00100	1	03/26/2023 20:58	WG2029249
Cadmium,Dissolved	U		0.000150	0.00100	1	03/27/2023 21:31	WG2029232
Calcium	523		0.0936	1.00	1	03/26/2023 20:58	WG2029249
Chromium	U		0.00124	0.00200	1	03/26/2023 20:58	WG2029249
Chromium,Dissolved	U		0.00124	0.00200	1	03/27/2023 21:31	WG2029232
Cobalt	0.00168	J	0.0000596	0.00200	1	03/26/2023 20:58	WG2029249
Cobalt,Dissolved	0.00178	J	0.0000596	0.00200	1	03/27/2023 21:31	WG2029232
Iron	U		0.0281	0.100	1	03/26/2023 20:58	WG2029249
Iron,Dissolved	U		0.0281	0.100	1	03/27/2023 21:31	WG2029232
Lead	U		0.000849	0.00200	1	03/26/2023 20:58	WG2029249
Lead,Dissolved	U		0.000849	0.00200	1	03/27/2023 21:31	WG2029232
Manganese	0.359		0.000704	0.00500	1	03/26/2023 20:58	WG2029249
Manganese,Dissolved	0.372		0.000704	0.00500	1	03/27/2023 21:31	WG2029232
Nickel	0.00164	J	0.000816	0.00200	1	03/26/2023 20:58	WG2029249
Nickel,Dissolved	0.00191	J	0.000816	0.00200	1	03/27/2023 21:31	WG2029232
Potassium	1.61	J	0.108	2.00	1	03/26/2023 20:58	WG2029249
Selenium	0.00243		0.000300	0.00200	1	03/26/2023 20:58	WG2029249
Selenium,Dissolved	0.00239		0.000300	0.00200	1	03/27/2023 21:31	WG2029232
Sodium	123		0.376	2.00	1	03/26/2023 20:58	WG2029249
Uranium	0.00338		0.0000789	0.00100	1	03/26/2023 20:58	WG2029249
Uranium,Dissolved	0.00348		0.0000789	0.00100	1	03/27/2023 21:31	WG2029232

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Vanadium	0.00551		0.000664	0.00500	1	03/26/2023 20:58	WG2029249
Vanadium,Dissolved	0.00556		0.000664	0.00500	1	03/27/2023 21:31	WG2029232

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	03/26/2023 17:04	WG2030302
(S) a,a,a-Trifluorotoluene(FID)	*109*			*78.0-120*		*03/26/2023 17:04*	WG2030302

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	03/28/2023 02:24	WG2031003
Benzene	U		0.0000941	0.00100	1	03/28/2023 02:24	WG2031003
Bromodichloromethane	U		0.000136	0.00100	1	03/28/2023 02:24	WG2031003
Bromoform	U		0.000129	0.00100	1	03/28/2023 02:24	WG2031003
Bromomethane	U		0.000605	0.00500	1	03/28/2023 02:24	WG2031003
n-Butylbenzene	U		0.000157	0.00100	1	03/28/2023 02:24	WG2031003
sec-Butylbenzene	U		0.000125	0.00100	1	03/28/2023 02:24	WG2031003
Carbon disulfide	0.000151	B J	0.0000962	0.00100	1	03/28/2023 02:24	WG2031003
Carbon tetrachloride	U		0.000128	0.00100	1	03/28/2023 02:24	WG2031003
Chlorobenzene	U		0.000116	0.00100	1	03/28/2023 02:24	WG2031003
Chlorodibromomethane	U		0.000140	0.00100	1	03/28/2023 02:24	WG2031003
Chloroethane	U		0.000192	0.00500	1	03/28/2023 02:24	WG2031003
Chloroform	0.0101		0.000111	0.00500	1	03/28/2023 02:24	WG2031003
Chloromethane	U		0.000960	0.00250	1	03/28/2023 02:24	WG2031003
1,2-Dibromoethane	U		0.000126	0.00100	1	03/28/2023 02:24	WG2031003
1,1-Dichloroethane	U		0.000100	0.00100	1	03/28/2023 02:24	WG2031003
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/28/2023 02:24	WG2031003
1,1-Dichloroethene	U		0.000188	0.00100	1	03/28/2023 02:24	WG2031003
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/28/2023 02:24	WG2031003
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/28/2023 02:24	WG2031003
1,2-Dichloropropane	U		0.000149	0.00100	1	03/28/2023 02:24	WG2031003
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/28/2023 02:24	WG2031003
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/28/2023 02:24	WG2031003
Ethylbenzene	U		0.000137	0.00100	1	03/28/2023 02:24	WG2031003
Isopropylbenzene	U		0.000105	0.00100	1	03/28/2023 02:24	WG2031003
p-Isopropyltoluene	U		0.000120	0.00100	1	03/28/2023 02:24	WG2031003
2-Butanone (MEK)	U		0.00119	0.0100	1	03/28/2023 02:24	WG2031003
2-Hexanone	U		0.000787	0.0100	1	03/28/2023 02:24	WG2031003
Methylene Chloride	U		0.000430	0.00500	1	03/28/2023 02:24	WG2031003
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/28/2023 02:24	WG2031003
Methyl tert-butyl ether	0.000450	J	0.000101	0.00100	1	03/28/2023 02:24	WG2031003
Naphthalene	U		0.00100	0.00500	1	03/28/2023 02:24	WG2031003
n-Propylbenzene	U		0.0000993	0.00100	1	03/28/2023 02:24	WG2031003
Styrene	U		0.000118	0.00100	1	03/28/2023 02:24	WG2031003
tert-Butyl alcohol	0.00493	J	0.00406	0.00500	1	03/28/2023 02:24	WG2031003
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/28/2023 02:24	WG2031003
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/28/2023 02:24	WG2031003
Tetrachloroethene	U		0.000300	0.00100	1	03/28/2023 02:24	WG2031003
Toluene	U		0.000278	0.00100	1	03/28/2023 02:24	WG2031003
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/28/2023 02:24	WG2031003
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/28/2023 02:24	WG2031003
Trichloroethene	U		0.000190	0.00100	1	03/28/2023 02:24	WG2031003
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/28/2023 02:24	WG2031003

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/28/2023 02:24	WG2031003
Vinyl chloride	U		0.000234	0.00100	1	03/28/2023 02:24	WG2031003
o-Xylene	U		0.000174	0.00100	1	03/28/2023 02:24	WG2031003
m&p-Xylene	U		0.000430	0.00200	1	03/28/2023 02:24	WG2031003
Xylenes, Total	U		0.000174	0.00300	1	03/28/2023 02:24	WG2031003
(S) Toluene-d8	*97.6*			*80.0-120*		*03/28/2023 02:24*	WG2031003
(S) 4-Bromofluorobenzene	*83.6*			*77.0-126*		*03/28/2023 02:24*	WG2031003
(S) 1,2-Dichloroethane-d4	*83.8*			*70.0-130*		*03/28/2023 02:24*	WG2031003

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	B	0.0247	0.100	1	04/01/2023 18:41	WG2031810
(S) o-Terphenyl	*133*			*31.0-160*		*04/01/2023 18:41*	WG2031810

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	3500		50.0	1	03/25/2023 07:54	WG2029581

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	252		3.79	10.0	10	03/24/2023 13:21	WG2029193
Fluoride	1.28	J	0.640	1.50	10	03/24/2023 13:21	WG2029193
Nitrate	U	Q	0.480	1.00	10	03/24/2023 13:21	WG2029193
Nitrite	U	Q	0.420	1.00	10	03/24/2023 13:21	WG2029193
Sulfate	2140		59.4	500	100	03/24/2023 15:55	WG2029193

Sample Narrative:

L1597529-59 WG2029193: Dilution due to matrix.

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	03/30/2023 09:24	WG2031774
Mercury,Dissolved	U		0.000100	0.000200	1	03/30/2023 11:20	WG2031777

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	0.425		0.0200	0.200	1	03/29/2023 15:35	WG2031766
Boron,Dissolved	0.450		0.0200	0.200	1	03/29/2023 17:04	WG2031813

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00342		0.000180	0.00200	1	03/26/2023 20:44	WG2029249
Arsenic,Dissolved	0.00348		0.000180	0.00200	1	03/27/2023 21:34	WG2029232
Barium	0.00890		0.000381	0.00200	1	03/26/2023 20:44	WG2029249
Barium,Dissolved	0.00912		0.000381	0.00200	1	03/27/2023 21:34	WG2029232
Cadmium	U		0.000150	0.00100	1	03/26/2023 20:44	WG2029249
Cadmium,Dissolved	U		0.000150	0.00100	1	03/27/2023 21:34	WG2029232
Calcium	466	V	0.0936	1.00	1	03/26/2023 20:44	WG2029249
Chromium	U		0.00124	0.00200	1	03/26/2023 20:44	WG2029249
Chromium,Dissolved	U		0.00124	0.00200	1	03/27/2023 21:34	WG2029232
Cobalt	0.00595		0.0000596	0.00200	1	03/26/2023 20:44	WG2029249
Cobalt,Dissolved	0.00552		0.0000596	0.00200	1	03/27/2023 21:34	WG2029232
Iron	U		0.0281	0.100	1	03/26/2023 20:44	WG2029249
Iron,Dissolved	U		0.0281	0.100	1	03/27/2023 21:34	WG2029232
Lead	U		0.000849	0.00200	1	03/26/2023 20:44	WG2029249
Lead,Dissolved	U		0.000849	0.00200	1	03/27/2023 21:34	WG2029232
Manganese	0.381		0.000704	0.00500	1	03/26/2023 20:44	WG2029249
Manganese,Dissolved	0.377		0.000704	0.00500	1	03/27/2023 21:34	WG2029232
Nickel	0.00773		0.000816	0.00200	1	03/26/2023 20:44	WG2029249
Nickel,Dissolved	0.00811		0.000816	0.00200	1	03/27/2023 21:34	WG2029232
Potassium	1.21	J	0.108	2.00	1	03/26/2023 20:44	WG2029249
Selenium	0.000702	J	0.000300	0.00200	1	03/26/2023 20:44	WG2029249
Selenium,Dissolved	0.000817	J	0.000300	0.00200	1	03/27/2023 21:34	WG2029232
Sodium	190		0.376	2.00	1	03/26/2023 20:44	WG2029249
Uranium	0.0314	O1	0.0000789	0.00100	1	03/26/2023 20:44	WG2029249
Uranium,Dissolved	0.0343		0.0000789	0.00100	1	03/27/2023 21:34	WG2029232

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Vanadium	0.0172		0.000664	0.00500	1	03/26/2023 20:44	WG2029249
Vanadium,Dissolved	0.0174		0.000664	0.00500	1	03/27/2023 21:34	WG2029232

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	03/26/2023 17:26	WG2030302
(S) a,a,a-Trifluorotoluene(FID)	*113*			*78.0-120*		*03/26/2023 17:26*	WG2030302

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	03/28/2023 02:45	WG2031003
Benzene	U		0.0000941	0.00100	1	03/28/2023 02:45	WG2031003
Bromodichloromethane	U		0.000136	0.00100	1	03/28/2023 02:45	WG2031003
Bromoform	U		0.000129	0.00100	1	03/28/2023 02:45	WG2031003
Bromomethane	U		0.000605	0.00500	1	03/28/2023 02:45	WG2031003
n-Butylbenzene	U		0.000157	0.00100	1	03/28/2023 02:45	WG2031003
sec-Butylbenzene	U		0.000125	0.00100	1	03/28/2023 02:45	WG2031003
Carbon disulfide	0.000129	B J	0.0000962	0.00100	1	03/28/2023 02:45	WG2031003
Carbon tetrachloride	U		0.000128	0.00100	1	03/28/2023 02:45	WG2031003
Chlorobenzene	U		0.000116	0.00100	1	03/28/2023 02:45	WG2031003
Chlorodibromomethane	U		0.000140	0.00100	1	03/28/2023 02:45	WG2031003
Chloroethane	U		0.000192	0.00500	1	03/28/2023 02:45	WG2031003
Chloroform	U		0.000111	0.00500	1	03/28/2023 02:45	WG2031003
Chloromethane	U		0.000960	0.00250	1	03/28/2023 02:45	WG2031003
1,2-Dibromoethane	U		0.000126	0.00100	1	03/28/2023 02:45	WG2031003
1,1-Dichloroethane	U		0.000100	0.00100	1	03/28/2023 02:45	WG2031003
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/28/2023 02:45	WG2031003
1,1-Dichloroethene	U		0.000188	0.00100	1	03/28/2023 02:45	WG2031003
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/28/2023 02:45	WG2031003
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/28/2023 02:45	WG2031003
1,2-Dichloropropane	U		0.000149	0.00100	1	03/28/2023 02:45	WG2031003
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/28/2023 02:45	WG2031003
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/28/2023 02:45	WG2031003
Ethylbenzene	U		0.000137	0.00100	1	03/28/2023 02:45	WG2031003
Isopropylbenzene	U		0.000105	0.00100	1	03/28/2023 02:45	WG2031003
p-Isopropyltoluene	U		0.000120	0.00100	1	03/28/2023 02:45	WG2031003
2-Butanone (MEK)	U		0.00119	0.0100	1	03/28/2023 02:45	WG2031003
2-Hexanone	U		0.000787	0.0100	1	03/28/2023 02:45	WG2031003
Methylene Chloride	U		0.000430	0.00500	1	03/28/2023 02:45	WG2031003
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/28/2023 02:45	WG2031003
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/28/2023 02:45	WG2031003
Naphthalene	U		0.00100	0.00500	1	03/28/2023 02:45	WG2031003
n-Propylbenzene	U		0.0000993	0.00100	1	03/28/2023 02:45	WG2031003
Styrene	U		0.000118	0.00100	1	03/28/2023 02:45	WG2031003
tert-Butyl alcohol	U		0.00406	0.00500	1	03/28/2023 02:45	WG2031003
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/28/2023 02:45	WG2031003
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/28/2023 02:45	WG2031003
Tetrachloroethene	U		0.000300	0.00100	1	03/28/2023 02:45	WG2031003
Toluene	U		0.000278	0.00100	1	03/28/2023 02:45	WG2031003
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/28/2023 02:45	WG2031003
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/28/2023 02:45	WG2031003
Trichloroethene	U		0.000190	0.00100	1	03/28/2023 02:45	WG2031003
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/28/2023 02:45	WG2031003

MW-129
Collected date/time: 03/22/23 13:15
L1597529

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/28/2023 02:45	WG2031003
Vinyl chloride	U		0.000234	0.00100	1	03/28/2023 02:45	WG2031003
o-Xylene	U		0.000174	0.00100	1	03/28/2023 02:45	WG2031003
m&p-Xylene	U		0.000430	0.00200	1	03/28/2023 02:45	WG2031003
Xylenes, Total	U		0.000174	0.00300	1	03/28/2023 02:45	WG2031003
(S) Toluene-d8	*95.1*			*80.0-120*		*03/28/2023 02:45*	WG2031003
(S) 4-Bromofluorobenzene	*81.8*			*77.0-126*		*03/28/2023 02:45*	WG2031003
(S) 1,2-Dichloroethane-d4	*83.8*			*70.0-130*		*03/28/2023 02:45*	WG2031003

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	B	0.0247	0.100	1	04/01/2023 17:57	WG2031810
(S) o-Terphenyl	*130*			*31.0-160*		*04/01/2023 17:57*	WG2031810

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	2150		50.0	1	03/25/2023 07:54	WG2029581

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	218		3.79	10.0	10	03/24/2023 19:59	WG2029193
Fluoride	0.651	J	0.640	1.50	10	03/24/2023 19:59	WG2029193
Nitrate	U	Q	0.480	1.00	10	03/24/2023 19:59	WG2029193
Nitrite	U	Q	0.420	1.00	10	03/24/2023 19:59	WG2029193
Sulfate	862		5.94	50.0	10	03/24/2023 19:59	WG2029193

Sample Narrative:

L1597529-60 WG2029193: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.000320	J	0.000180	0.00200	1	03/26/2023 21:01	WG2029249
Arsenic,Dissolved	0.000252	J	0.000180	0.00200	1	03/27/2023 21:37	WG2029232
Barium	0.0484		0.000381	0.00200	1	03/26/2023 21:01	WG2029249
Barium,Dissolved	0.0500		0.000381	0.00200	1	03/27/2023 21:37	WG2029232
Calcium	254		0.0936	1.00	1	03/26/2023 21:01	WG2029249
Chromium	U		0.00124	0.00200	1	03/26/2023 21:01	WG2029249
Chromium,Dissolved	U		0.00124	0.00200	1	03/27/2023 21:37	WG2029232
Iron	0.455		0.0281	0.100	1	03/26/2023 21:01	WG2029249
Iron,Dissolved	0.450		0.0281	0.100	1	03/27/2023 21:37	WG2029232
Lead	U		0.000849	0.00200	1	03/26/2023 21:01	WG2029249
Lead,Dissolved	U		0.000849	0.00200	1	03/27/2023 21:37	WG2029232
Manganese	0.875		0.000704	0.00500	1	03/26/2023 21:01	WG2029249
Manganese,Dissolved	0.897		0.000704	0.00500	1	03/27/2023 21:37	WG2029232
Potassium	0.358	J	0.108	2.00	1	03/26/2023 21:01	WG2029249
Selenium	U		0.000300	0.00200	1	03/26/2023 21:01	WG2029249
Selenium,Dissolved	0.000560	J	0.000300	0.00200	1	03/27/2023 21:37	WG2029232
Sodium	167		0.376	2.00	1	03/26/2023 21:01	WG2029249

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	1.85		0.0314	0.100	1	03/26/2023 17:48	WG2030302
(S) a,a,a-Trifluorotoluene(FID)	*98.7*			*78.0-120*		*03/26/2023 17:48*	WG2030302

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	03/28/2023 03:07	WG2031003
Benzene	0.134		0.0000941	0.00100	1	03/28/2023 03:07	WG2031003
Bromodichloromethane	U		0.000136	0.00100	1	03/28/2023 03:07	WG2031003
Bromoform	U		0.000129	0.00100	1	03/28/2023 03:07	WG2031003
Bromomethane	U		0.000605	0.00500	1	03/28/2023 03:07	WG2031003
n-Butylbenzene	0.00113		0.000157	0.00100	1	03/28/2023 03:07	WG2031003
sec-Butylbenzene	0.00298		0.000125	0.00100	1	03/28/2023 03:07	WG2031003
Carbon disulfide	0.000294	B J	0.0000962	0.00100	1	03/28/2023 03:07	WG2031003
Carbon tetrachloride	U		0.000128	0.00100	1	03/28/2023 03:07	WG2031003

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	03/28/2023 03:07	WG2031003
Chlorodibromomethane	U		0.000140	0.00100	1	03/28/2023 03:07	WG2031003
Chloroethane	U		0.000192	0.00500	1	03/28/2023 03:07	WG2031003
Chloroform	U		0.000111	0.00500	1	03/28/2023 03:07	WG2031003
Chloromethane	U		0.000960	0.00250	1	03/28/2023 03:07	WG2031003
1,2-Dibromoethane	U		0.000126	0.00100	1	03/28/2023 03:07	WG2031003
1,1-Dichloroethane	U		0.000100	0.00100	1	03/28/2023 03:07	WG2031003
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/28/2023 03:07	WG2031003
1,1-Dichloroethene	U		0.000188	0.00100	1	03/28/2023 03:07	WG2031003
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/28/2023 03:07	WG2031003
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/28/2023 03:07	WG2031003
1,2-Dichloropropane	U		0.000149	0.00100	1	03/28/2023 03:07	WG2031003
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/28/2023 03:07	WG2031003
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/28/2023 03:07	WG2031003
Ethylbenzene	0.0233		0.000137	0.00100	1	03/28/2023 03:07	WG2031003
Isopropylbenzene	0.00765		0.000105	0.00100	1	03/28/2023 03:07	WG2031003
p-Isopropyltoluene	0.00140		0.000120	0.00100	1	03/28/2023 03:07	WG2031003
2-Butanone (MEK)	U		0.00119	0.0100	1	03/28/2023 03:07	WG2031003
2-Hexanone	U		0.000787	0.0100	1	03/28/2023 03:07	WG2031003
Methylene Chloride	U		0.000430	0.00500	1	03/28/2023 03:07	WG2031003
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/28/2023 03:07	WG2031003
Methyl tert-butyl ether	0.0152		0.000101	0.00100	1	03/28/2023 03:07	WG2031003
Naphthalene	0.00678		0.00100	0.00500	1	03/28/2023 03:07	WG2031003
n-Propylbenzene	0.0115		0.0000993	0.00100	1	03/28/2023 03:07	WG2031003
Styrene	0.000285	J	0.000118	0.00100	1	03/28/2023 03:07	WG2031003
tert-Butyl alcohol	U		0.00406	0.00500	1	03/28/2023 03:07	WG2031003
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/28/2023 03:07	WG2031003
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/28/2023 03:07	WG2031003
Tetrachloroethene	U		0.000300	0.00100	1	03/28/2023 03:07	WG2031003
Toluene	0.00133		0.000278	0.00100	1	03/28/2023 03:07	WG2031003
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/28/2023 03:07	WG2031003
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/28/2023 03:07	WG2031003
Trichloroethene	U		0.000190	0.00100	1	03/28/2023 03:07	WG2031003
1,2,4-Trimethylbenzene	0.100		0.000322	0.00100	1	03/28/2023 03:07	WG2031003
1,3,5-Trimethylbenzene	0.00101		0.000104	0.00100	1	03/28/2023 03:07	WG2031003
Vinyl chloride	U		0.000234	0.00100	1	03/28/2023 03:07	WG2031003
o-Xylene	0.000386	J	0.000174	0.00100	1	03/28/2023 03:07	WG2031003
m&p-Xylene	0.0536		0.000430	0.00200	1	03/28/2023 03:07	WG2031003
Xylenes, Total	0.0540		0.000174	0.00300	1	03/28/2023 03:07	WG2031003
(S) Toluene-d8	*93.7*			*80.0-120*		*03/28/2023 03:07*	WG2031003
(S) 4-Bromofluorobenzene	*82.9*			*77.0-126*		*03/28/2023 03:07*	WG2031003
(S) 1,2-Dichloroethane-d4	*81.5*			*70.0-130*		*03/28/2023 03:07*	WG2031003

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	0.729		0.0247	0.100	1	03/30/2023 23:40	WG2031810
(S) o-Terphenyl	*106*			*31.0-160*		*03/30/2023 23:40*	WG2031810

Received by OCD: 6/12/2024 3:31:05 PM

LB-REST-01
Collected date/time: 03/22/23 09:40
L1597529

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	03/25/2023 07:54	WG2029581

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	0.630	B J	0.379	1.00	1	03/28/2023 20:18	WG2029184
Fluoride	0.0744	B J	0.0640	0.150	1	03/28/2023 20:18	WG2029184
Nitrate	0.0803	B J Q	0.0480	0.100	1	03/28/2023 20:18	WG2029184
Nitrite	U	Q	0.0420	0.100	1	03/28/2023 20:18	WG2029184
Sulfate	0.650	J	0.594	5.00	1	03/28/2023 20:18	WG2029184

Sample Narrative:

L1597529-61 WG2029184: Dilution due to matrix.

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	03/26/2023 21:04	WG2029249
Arsenic,Dissolved	U		0.000180	0.00200	1	03/27/2023 22:39	WG2029232
Barium	0.000572	J	0.000381	0.00200	1	03/26/2023 21:04	WG2029249
Barium,Dissolved	U		0.000381	0.00200	1	03/27/2023 22:39	WG2029232
Calcium	0.171	J	0.0936	1.00	1	03/26/2023 21:04	WG2029249
Chromium	U		0.00124	0.00200	1	03/26/2023 21:04	WG2029249
Chromium,Dissolved	U		0.00124	0.00200	1	03/27/2023 22:39	WG2029232
Iron	U		0.0281	0.100	1	03/26/2023 21:04	WG2029249
Iron,Dissolved	U		0.0281	0.100	1	03/27/2023 22:39	WG2029232
Lead	U		0.000849	0.00200	1	03/26/2023 21:04	WG2029249
Lead,Dissolved	U		0.000849	0.00200	1	03/27/2023 22:39	WG2029232
Manganese	U		0.000704	0.00500	1	03/26/2023 21:04	WG2029249
Manganese,Dissolved	U		0.000704	0.00500	1	03/27/2023 22:39	WG2029232
Potassium	U		0.108	2.00	1	03/26/2023 21:04	WG2029249
Selenium	U		0.000300	0.00200	1	03/26/2023 21:04	WG2029249
Selenium,Dissolved	U		0.000300	0.00200	1	03/27/2023 22:39	WG2029232
Sodium	0.402	J	0.376	2.00	1	03/26/2023 21:04	WG2029249

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	03/26/2023 12:18	WG2030302
(S) a,a,a-Trifluorotoluene(FID)	*109*			*78.0-120*		*03/26/2023 12:18*	WG2030302

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	03/27/2023 23:52	WG2031003
Benzene	U		0.0000941	0.00100	1	03/27/2023 23:52	WG2031003
Bromodichloromethane	U		0.000136	0.00100	1	03/27/2023 23:52	WG2031003
Bromoform	U		0.000129	0.00100	1	03/27/2023 23:52	WG2031003
Bromomethane	U		0.000605	0.00500	1	03/27/2023 23:52	WG2031003
n-Butylbenzene	U		0.000157	0.00100	1	03/27/2023 23:52	WG2031003
sec-Butylbenzene	U		0.000125	0.00100	1	03/27/2023 23:52	WG2031003
Carbon disulfide	0.000182	B J	0.0000962	0.00100	1	03/27/2023 23:52	WG2031003
Carbon tetrachloride	U		0.000128	0.00100	1	03/27/2023 23:52	WG2031003

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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	03/27/2023 23:52	WG2031003
Chlorodibromomethane	U		0.000140	0.00100	1	03/27/2023 23:52	WG2031003
Chloroethane	U		0.000192	0.00500	1	03/27/2023 23:52	WG2031003
Chloroform	0.000709	J	0.000111	0.00500	1	03/27/2023 23:52	WG2031003
Chloromethane	U		0.000960	0.00250	1	03/27/2023 23:52	WG2031003
1,2-Dibromoethane	U		0.000126	0.00100	1	03/27/2023 23:52	WG2031003
1,1-Dichloroethane	U		0.000100	0.00100	1	03/27/2023 23:52	WG2031003
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/27/2023 23:52	WG2031003
1,1-Dichloroethene	U		0.000188	0.00100	1	03/27/2023 23:52	WG2031003
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/27/2023 23:52	WG2031003
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/27/2023 23:52	WG2031003
1,2-Dichloropropane	U		0.000149	0.00100	1	03/27/2023 23:52	WG2031003
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/27/2023 23:52	WG2031003
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/27/2023 23:52	WG2031003
Ethylbenzene	U		0.000137	0.00100	1	03/27/2023 23:52	WG2031003
Isopropylbenzene	U		0.000105	0.00100	1	03/27/2023 23:52	WG2031003
p-Isopropyltoluene	U		0.000120	0.00100	1	03/27/2023 23:52	WG2031003
2-Butanone (MEK)	U		0.00119	0.0100	1	03/27/2023 23:52	WG2031003
2-Hexanone	U		0.000787	0.0100	1	03/27/2023 23:52	WG2031003
Methylene Chloride	U		0.000430	0.00500	1	03/27/2023 23:52	WG2031003
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/27/2023 23:52	WG2031003
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/27/2023 23:52	WG2031003
Naphthalene	U		0.00100	0.00500	1	03/27/2023 23:52	WG2031003
n-Propylbenzene	U		0.0000993	0.00100	1	03/27/2023 23:52	WG2031003
Styrene	U		0.000118	0.00100	1	03/27/2023 23:52	WG2031003
tert-Butyl alcohol	U		0.00406	0.00500	1	03/27/2023 23:52	WG2031003
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/27/2023 23:52	WG2031003
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/27/2023 23:52	WG2031003
Tetrachloroethene	U		0.000300	0.00100	1	03/27/2023 23:52	WG2031003
Toluene	U		0.000278	0.00100	1	03/27/2023 23:52	WG2031003
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/27/2023 23:52	WG2031003
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/27/2023 23:52	WG2031003
Trichloroethene	U		0.000190	0.00100	1	03/27/2023 23:52	WG2031003
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/27/2023 23:52	WG2031003
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/27/2023 23:52	WG2031003
Vinyl chloride	U		0.000234	0.00100	1	03/27/2023 23:52	WG2031003
o-Xylene	U		0.000174	0.00100	1	03/27/2023 23:52	WG2031003
m&p-Xylene	U		0.000430	0.00200	1	03/27/2023 23:52	WG2031003
Xylenes, Total	U		0.000174	0.00300	1	03/27/2023 23:52	WG2031003
(S) Toluene-d8	*101*			*80.0-120*		*03/27/2023 23:52*	WG2031003
(S) 4-Bromofluorobenzene	*82.1*			*77.0-126*		*03/27/2023 23:52*	WG2031003
(S) 1,2-Dichloroethane-d4	*81.1*			*70.0-130*		*03/27/2023 23:52*	WG2031003

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	0.0610	B J	0.0247	0.100	1	03/31/2023 00:00	WG2031810
(S) o-Terphenyl	*109*			*31.0-160*		*03/31/2023 00:00*	WG2031810

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4050		50.0	1	03/25/2023 07:54	WG2029581

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	307		3.79	10.0	10	03/24/2023 00:54	WG2029007
Fluoride	0.920	J	0.640	1.50	10	03/24/2023 00:54	WG2029007
Nitrate	3.06		0.480	1.00	10	03/24/2023 00:54	WG2029007
Nitrite	U		0.420	1.00	10	03/24/2023 00:54	WG2029007
Sulfate	2550		59.4	500	100	03/24/2023 07:00	WG2029007

Sample Narrative:

L1597529-62 WG2029007: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00473		0.000180	0.00200	1	03/26/2023 21:07	WG2029249
Arsenic,Dissolved	0.00404		0.000180	0.00200	1	03/27/2023 21:44	WG2029232
Barium	0.00914		0.000381	0.00200	1	03/26/2023 21:07	WG2029249
Barium,Dissolved	0.0100		0.000381	0.00200	1	03/27/2023 21:44	WG2029232
Calcium	473		0.0936	1.00	1	03/26/2023 21:07	WG2029249
Chromium	U		0.00124	0.00200	1	03/26/2023 21:07	WG2029249
Chromium,Dissolved	U		0.00124	0.00200	1	03/27/2023 21:44	WG2029232
Iron	0.0867	J	0.0281	0.100	1	03/26/2023 21:07	WG2029249
Iron,Dissolved	0.0493	J	0.0281	0.100	1	03/27/2023 21:44	WG2029232
Lead	U		0.000849	0.00200	1	03/26/2023 21:07	WG2029249
Lead,Dissolved	U		0.000849	0.00200	1	03/27/2023 21:44	WG2029232
Manganese	0.176		0.000704	0.00500	1	03/26/2023 21:07	WG2029249
Manganese,Dissolved	0.196		0.000704	0.00500	1	03/27/2023 21:44	WG2029232
Potassium	1.43	J	0.108	2.00	1	03/26/2023 21:07	WG2029249
Selenium	0.00369		0.000300	0.00200	1	03/26/2023 21:07	WG2029249
Selenium,Dissolved	0.00352		0.000300	0.00200	1	03/27/2023 21:44	WG2029232
Sodium	233		0.376	2.00	1	03/26/2023 21:07	WG2029249

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	03/26/2023 18:10	WG2030302
(S) a,a,a-Trifluorotoluene(FID)	*111*			*78.0-120*		*03/26/2023 18:10*	WG2030302

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	03/28/2023 03:29	WG2031003
Benzene	U		0.0000941	0.00100	1	03/28/2023 21:10	WG2031560
Bromodichloromethane	U		0.000136	0.00100	1	03/28/2023 03:29	WG2031003
Bromoform	U		0.000129	0.00100	1	03/28/2023 03:29	WG2031003
Bromomethane	U		0.000605	0.00500	1	03/28/2023 03:29	WG2031003
n-Butylbenzene	U		0.000157	0.00100	1	03/28/2023 03:29	WG2031003
sec-Butylbenzene	U		0.000125	0.00100	1	03/28/2023 03:29	WG2031003
Carbon disulfide	0.000102	B J	0.0000962	0.00100	1	03/28/2023 03:29	WG2031003
Carbon tetrachloride	U		0.000128	0.00100	1	03/28/2023 03:29	WG2031003

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	03/28/2023 03:29	WG2031003
Chlorodibromomethane	U		0.000140	0.00100	1	03/28/2023 03:29	WG2031003
Chloroethane	U		0.000192	0.00500	1	03/28/2023 03:29	WG2031003
Chloroform	U		0.000111	0.00500	1	03/28/2023 03:29	WG2031003
Chloromethane	U		0.000960	0.00250	1	03/28/2023 03:29	WG2031003
1,2-Dibromoethane	U		0.000126	0.00100	1	03/28/2023 03:29	WG2031003
1,1-Dichloroethane	U		0.000100	0.00100	1	03/28/2023 03:29	WG2031003
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/28/2023 03:29	WG2031003
1,1-Dichloroethene	U		0.000188	0.00100	1	03/28/2023 03:29	WG2031003
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/28/2023 03:29	WG2031003
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/28/2023 03:29	WG2031003
1,2-Dichloropropane	U		0.000149	0.00100	1	03/28/2023 03:29	WG2031003
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/28/2023 03:29	WG2031003
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/28/2023 03:29	WG2031003
Ethylbenzene	U		0.000137	0.00100	1	03/28/2023 21:10	WG2031560
Isopropylbenzene	U		0.000105	0.00100	1	03/28/2023 03:29	WG2031003
p-Isopropyltoluene	U		0.000120	0.00100	1	03/28/2023 03:29	WG2031003
2-Butanone (MEK)	U		0.00119	0.0100	1	03/28/2023 03:29	WG2031003
2-Hexanone	U		0.000787	0.0100	1	03/28/2023 03:29	WG2031003
Methylene Chloride	U		0.000430	0.00500	1	03/28/2023 03:29	WG2031003
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/28/2023 03:29	WG2031003
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/28/2023 03:29	WG2031003
Naphthalene	U		0.00100	0.00500	1	03/28/2023 03:29	WG2031003
n-Propylbenzene	U		0.0000993	0.00100	1	03/28/2023 21:10	WG2031560
Styrene	U		0.000118	0.00100	1	03/28/2023 03:29	WG2031003
tert-Butyl alcohol	U		0.00406	0.00500	1	03/28/2023 03:29	WG2031003
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/28/2023 03:29	WG2031003
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/28/2023 03:29	WG2031003
Tetrachloroethene	U		0.000300	0.00100	1	03/28/2023 03:29	WG2031003
Toluene	U		0.000278	0.00100	1	03/28/2023 03:29	WG2031003
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/28/2023 03:29	WG2031003
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/28/2023 03:29	WG2031003
Trichloroethene	U		0.000190	0.00100	1	03/28/2023 03:29	WG2031003
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/28/2023 21:10	WG2031560
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/28/2023 03:29	WG2031003
Vinyl chloride	U		0.000234	0.00100	1	03/28/2023 03:29	WG2031003
o-Xylene	U		0.000174	0.00100	1	03/28/2023 03:29	WG2031003
m&p-Xylene	U		0.000430	0.00200	1	03/28/2023 03:29	WG2031003
Xylenes, Total	U		0.000174	0.00300	1	03/28/2023 03:29	WG2031003
(S) Toluene-d8	*96.9*			*80.0-120*		*03/28/2023 03:29*	WG2031003
(S) Toluene-d8	*96.1*			*80.0-120*		*03/28/2023 21:10*	WG2031560
(S) 4-Bromofluorobenzene	*83.7*			*77.0-126*		*03/28/2023 03:29*	WG2031003
(S) 4-Bromofluorobenzene	*99.0*			*77.0-126*		*03/28/2023 21:10*	WG2031560
(S) 1,2-Dichloroethane-d4	*84.7*			*70.0-130*		*03/28/2023 03:29*	WG2031003
(S) 1,2-Dichloroethane-d4	*122*			*70.0-130*		*03/28/2023 21:10*	WG2031560

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	0.137	B	0.0247	0.100	1	03/31/2023 00:21	WG2031810
(S) o-Terphenyl	*107*			*31.0-160*		*03/31/2023 00:21*	WG2031810

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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	03/25/2023 07:54	WG2029581

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1.39	B	0.379	1.00	1	03/28/2023 20:32	WG2029184
Fluoride	0.0718	B J	0.0640	0.150	1	03/28/2023 20:32	WG2029184
Nitrate	0.0848	B J Q	0.0480	0.100	1	03/28/2023 20:32	WG2029184
Nitrite	U	Q	0.0420	0.100	1	03/28/2023 20:32	WG2029184
Sulfate	0.651	J	0.594	5.00	1	03/28/2023 20:32	WG2029184

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	03/26/2023 21:20	WG2029249
Arsenic,Dissolved	U		0.000180	0.00200	1	03/27/2023 22:42	WG2029232
Barium	0.000403	J	0.000381	0.00200	1	03/26/2023 21:20	WG2029249
Barium,Dissolved	0.000581	J	0.000381	0.00200	1	03/27/2023 22:42	WG2029232
Calcium	0.186	J	0.0936	1.00	1	03/26/2023 21:20	WG2029249
Chromium	U		0.00124	0.00200	1	03/26/2023 21:20	WG2029249
Chromium,Dissolved	U		0.00124	0.00200	1	03/27/2023 22:42	WG2029232
Iron	U		0.0281	0.100	1	03/26/2023 21:20	WG2029249
Iron,Dissolved	U		0.0281	0.100	1	03/27/2023 22:42	WG2029232
Lead	U		0.000849	0.00200	1	03/26/2023 21:20	WG2029249
Lead,Dissolved	U		0.000849	0.00200	1	03/27/2023 22:42	WG2029232
Manganese	U		0.000704	0.00500	1	03/26/2023 21:20	WG2029249
Manganese,Dissolved	U		0.000704	0.00500	1	03/27/2023 22:42	WG2029232
Potassium	U		0.108	2.00	1	03/26/2023 21:20	WG2029249
Selenium	U		0.000300	0.00200	1	03/26/2023 21:20	WG2029249
Selenium,Dissolved	U		0.000300	0.00200	1	03/27/2023 22:42	WG2029232
Sodium	U		0.376	2.00	1	03/26/2023 21:20	WG2029249

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	03/26/2023 12:40	WG2030302
(S) a,a,a-Trifluorotoluene(FID)	*111*			*78.0-120*		*03/26/2023 12:40*	WG2030302

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	03/28/2023 00:14	WG2031003
Benzene	U		0.0000941	0.00100	1	03/28/2023 00:14	WG2031003
Bromodichloromethane	U		0.000136	0.00100	1	03/28/2023 00:14	WG2031003
Bromoform	U		0.000129	0.00100	1	03/28/2023 00:14	WG2031003
Bromomethane	U		0.000605	0.00500	1	03/28/2023 00:14	WG2031003
n-Butylbenzene	U		0.000157	0.00100	1	03/28/2023 00:14	WG2031003
sec-Butylbenzene	U		0.000125	0.00100	1	03/28/2023 00:14	WG2031003
Carbon disulfide	0.000158	B J	0.0000962	0.00100	1	03/28/2023 00:14	WG2031003
Carbon tetrachloride	U		0.000128	0.00100	1	03/28/2023 00:14	WG2031003
Chlorobenzene	U		0.000116	0.00100	1	03/28/2023 00:14	WG2031003
Chlorodibromomethane	U		0.000140	0.00100	1	03/28/2023 00:14	WG2031003
Chloroethane	U		0.000192	0.00500	1	03/28/2023 00:14	WG2031003

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Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloroform	0.000297	J	0.000111	0.00500	1	03/28/2023 00:14	WG2031003
Chloromethane	U		0.000960	0.00250	1	03/28/2023 00:14	WG2031003
1,2-Dibromoethane	U		0.000126	0.00100	1	03/28/2023 00:14	WG2031003
1,1-Dichloroethane	U		0.000100	0.00100	1	03/28/2023 00:14	WG2031003
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/28/2023 00:14	WG2031003
1,1-Dichloroethene	U		0.000188	0.00100	1	03/28/2023 00:14	WG2031003
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/28/2023 00:14	WG2031003
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/28/2023 00:14	WG2031003
1,2-Dichloropropane	U		0.000149	0.00100	1	03/28/2023 00:14	WG2031003
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/28/2023 00:14	WG2031003
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/28/2023 00:14	WG2031003
Ethylbenzene	U		0.000137	0.00100	1	03/28/2023 00:14	WG2031003
Isopropylbenzene	U		0.000105	0.00100	1	03/28/2023 00:14	WG2031003
p-Isopropyltoluene	U		0.000120	0.00100	1	03/28/2023 00:14	WG2031003
2-Butanone (MEK)	U		0.00119	0.0100	1	03/28/2023 00:14	WG2031003
2-Hexanone	U		0.000787	0.0100	1	03/28/2023 00:14	WG2031003
Methylene Chloride	U		0.000430	0.00500	1	03/28/2023 00:14	WG2031003
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/28/2023 00:14	WG2031003
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/28/2023 00:14	WG2031003
Naphthalene	U		0.00100	0.00500	1	03/28/2023 00:14	WG2031003
n-Propylbenzene	U		0.0000993	0.00100	1	03/28/2023 00:14	WG2031003
Styrene	U		0.000118	0.00100	1	03/28/2023 00:14	WG2031003
tert-Butyl alcohol	U		0.00406	0.00500	1	03/28/2023 00:14	WG2031003
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/28/2023 00:14	WG2031003
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/28/2023 00:14	WG2031003
Tetrachloroethene	U		0.000300	0.00100	1	03/28/2023 00:14	WG2031003
Toluene	U		0.000278	0.00100	1	03/28/2023 00:14	WG2031003
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/28/2023 00:14	WG2031003
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/28/2023 00:14	WG2031003
Trichloroethene	U		0.000190	0.00100	1	03/28/2023 00:14	WG2031003
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/28/2023 00:14	WG2031003
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/28/2023 00:14	WG2031003
Vinyl chloride	U		0.000234	0.00100	1	03/28/2023 00:14	WG2031003
o-Xylene	U		0.000174	0.00100	1	03/28/2023 00:14	WG2031003
m&p-Xylene	U		0.000430	0.00200	1	03/28/2023 00:14	WG2031003
Xylenes, Total	U		0.000174	0.00300	1	03/28/2023 00:14	WG2031003
(S) Toluene-d8	*101*			*80.0-120*		*03/28/2023 00:14*	WG2031003
(S) 4-Bromofluorobenzene	*82.9*			*77.0-126*		*03/28/2023 00:14*	WG2031003
(S) 1,2-Dichloroethane-d4	*84.5*			*70.0-130*		*03/28/2023 00:14*	WG2031003

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	0.0664	B J	0.0247	0.100	1	03/31/2023 00:41	WG2031810
(S) o-Terphenyl	*112*			*31.0-160*		*03/31/2023 00:41*	WG2031810

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	03/27/2023 22:47	WG2031003
Benzene	0.000128	J	0.0000941	0.00100	1	03/27/2023 22:47	WG2031003
Bromodichloromethane	U		0.000136	0.00100	1	03/27/2023 22:47	WG2031003
Bromoform	U		0.000129	0.00100	1	03/27/2023 22:47	WG2031003
Bromomethane	U		0.000605	0.00500	1	03/27/2023 22:47	WG2031003
n-Butylbenzene	U		0.000157	0.00100	1	03/27/2023 22:47	WG2031003
sec-Butylbenzene	U		0.000125	0.00100	1	03/27/2023 22:47	WG2031003
Carbon disulfide	0.000405	B J	0.0000962	0.00100	1	03/27/2023 22:47	WG2031003
Carbon tetrachloride	U		0.000128	0.00100	1	03/27/2023 22:47	WG2031003
Chlorobenzene	U		0.000116	0.00100	1	03/27/2023 22:47	WG2031003
Chlorodibromomethane	U		0.000140	0.00100	1	03/27/2023 22:47	WG2031003
Chloroethane	U		0.000192	0.00500	1	03/27/2023 22:47	WG2031003
Chloroform	U		0.000111	0.00500	1	03/27/2023 22:47	WG2031003
Chloromethane	U		0.000960	0.00250	1	03/27/2023 22:47	WG2031003
1,2-Dibromoethane	U		0.000126	0.00100	1	03/27/2023 22:47	WG2031003
1,1-Dichloroethane	U		0.000100	0.00100	1	03/27/2023 22:47	WG2031003
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/27/2023 22:47	WG2031003
1,1-Dichloroethene	U		0.000188	0.00100	1	03/27/2023 22:47	WG2031003
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/27/2023 22:47	WG2031003
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/27/2023 22:47	WG2031003
1,2-Dichloropropane	U		0.000149	0.00100	1	03/27/2023 22:47	WG2031003
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/27/2023 22:47	WG2031003
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/27/2023 22:47	WG2031003
Ethylbenzene	U		0.000137	0.00100	1	03/27/2023 22:47	WG2031003
Isopropylbenzene	U		0.000105	0.00100	1	03/27/2023 22:47	WG2031003
p-Isopropyltoluene	U		0.000120	0.00100	1	03/27/2023 22:47	WG2031003
2-Butanone (MEK)	U		0.00119	0.0100	1	03/27/2023 22:47	WG2031003
2-Hexanone	U		0.000787	0.0100	1	03/27/2023 22:47	WG2031003
Methylene Chloride	U		0.000430	0.00500	1	03/27/2023 22:47	WG2031003
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/27/2023 22:47	WG2031003
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/27/2023 22:47	WG2031003
Naphthalene	U		0.00100	0.00500	1	03/27/2023 22:47	WG2031003
n-Propylbenzene	U		0.0000993	0.00100	1	03/27/2023 22:47	WG2031003
Styrene	U		0.000118	0.00100	1	03/27/2023 22:47	WG2031003
tert-Butyl alcohol	U		0.00406	0.00500	1	03/27/2023 22:47	WG2031003
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/27/2023 22:47	WG2031003
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/27/2023 22:47	WG2031003
Tetrachloroethene	U		0.000300	0.00100	1	03/27/2023 22:47	WG2031003
Toluene	U		0.000278	0.00100	1	03/27/2023 22:47	WG2031003
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/27/2023 22:47	WG2031003
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/27/2023 22:47	WG2031003
Trichloroethene	U		0.000190	0.00100	1	03/27/2023 22:47	WG2031003
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/27/2023 22:47	WG2031003
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/27/2023 22:47	WG2031003
Vinyl chloride	U		0.000234	0.00100	1	03/27/2023 22:47	WG2031003
o-Xylene	U		0.000174	0.00100	1	03/27/2023 22:47	WG2031003
m&p-Xylene	U		0.000430	0.00200	1	03/27/2023 22:47	WG2031003
Xylenes, Total	U		0.000174	0.00300	1	03/27/2023 22:47	WG2031003
(S) Toluene-d8	*98.3*			*80.0-120*		*03/27/2023 22:47*	WG2031003
(S) 4-Bromofluorobenzene	*83.5*			*77.0-126*		*03/27/2023 22:47*	WG2031003
(S) 1,2-Dichloroethane-d4	*79.4*			*70.0-130*		*03/27/2023 22:47*	WG2031003

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	03/27/2023 23:09	WG2031003
Benzene	U		0.0000941	0.00100	1	03/27/2023 23:09	WG2031003
Bromodichloromethane	U		0.000136	0.00100	1	03/27/2023 23:09	WG2031003
Bromoform	U		0.000129	0.00100	1	03/27/2023 23:09	WG2031003
Bromomethane	U		0.000605	0.00500	1	03/27/2023 23:09	WG2031003
n-Butylbenzene	U		0.000157	0.00100	1	03/27/2023 23:09	WG2031003
sec-Butylbenzene	U		0.000125	0.00100	1	03/27/2023 23:09	WG2031003
Carbon disulfide	0.000199	B J	0.0000962	0.00100	1	03/27/2023 23:09	WG2031003
Carbon tetrachloride	U		0.000128	0.00100	1	03/27/2023 23:09	WG2031003
Chlorobenzene	U		0.000116	0.00100	1	03/27/2023 23:09	WG2031003
Chlorodibromomethane	U		0.000140	0.00100	1	03/27/2023 23:09	WG2031003
Chloroethane	U		0.000192	0.00500	1	03/27/2023 23:09	WG2031003
Chloroform	U		0.000111	0.00500	1	03/27/2023 23:09	WG2031003
Chloromethane	U		0.000960	0.00250	1	03/27/2023 23:09	WG2031003
1,2-Dibromoethane	U		0.000126	0.00100	1	03/27/2023 23:09	WG2031003
1,1-Dichloroethane	U		0.000100	0.00100	1	03/27/2023 23:09	WG2031003
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/27/2023 23:09	WG2031003
1,1-Dichloroethene	U		0.000188	0.00100	1	03/27/2023 23:09	WG2031003
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/27/2023 23:09	WG2031003
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/27/2023 23:09	WG2031003
1,2-Dichloropropane	U		0.000149	0.00100	1	03/27/2023 23:09	WG2031003
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/27/2023 23:09	WG2031003
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/27/2023 23:09	WG2031003
Ethylbenzene	U		0.000137	0.00100	1	03/27/2023 23:09	WG2031003
Isopropylbenzene	U		0.000105	0.00100	1	03/27/2023 23:09	WG2031003
p-Isopropyltoluene	U		0.000120	0.00100	1	03/27/2023 23:09	WG2031003
2-Butanone (MEK)	U		0.00119	0.0100	1	03/27/2023 23:09	WG2031003
2-Hexanone	U		0.000787	0.0100	1	03/27/2023 23:09	WG2031003
Methylene Chloride	U		0.000430	0.00500	1	03/27/2023 23:09	WG2031003
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/27/2023 23:09	WG2031003
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/27/2023 23:09	WG2031003
Naphthalene	U		0.00100	0.00500	1	03/27/2023 23:09	WG2031003
n-Propylbenzene	U		0.0000993	0.00100	1	03/27/2023 23:09	WG2031003
Styrene	U		0.000118	0.00100	1	03/27/2023 23:09	WG2031003
tert-Butyl alcohol	U		0.00406	0.00500	1	03/27/2023 23:09	WG2031003
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/27/2023 23:09	WG2031003
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/27/2023 23:09	WG2031003
Tetrachloroethene	U		0.000300	0.00100	1	03/27/2023 23:09	WG2031003
Toluene	U		0.000278	0.00100	1	03/27/2023 23:09	WG2031003
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/27/2023 23:09	WG2031003
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/27/2023 23:09	WG2031003
Trichloroethene	U		0.000190	0.00100	1	03/27/2023 23:09	WG2031003
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/27/2023 23:09	WG2031003
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/27/2023 23:09	WG2031003
Vinyl chloride	U		0.000234	0.00100	1	03/27/2023 23:09	WG2031003
o-Xylene	U		0.000174	0.00100	1	03/27/2023 23:09	WG2031003
m&p-Xylene	U		0.000430	0.00200	1	03/27/2023 23:09	WG2031003
Xylenes, Total	U		0.000174	0.00300	1	03/27/2023 23:09	WG2031003
(S) Toluene-d8	*97.7*			*80.0-120*		*03/27/2023 23:09*	WG2031003
(S) 4-Bromofluorobenzene	*84.7*			*77.0-126*		*03/27/2023 23:09*	WG2031003
(S) 1,2-Dichloroethane-d4	*79.3*			*70.0-130*		*03/27/2023 23:09*	WG2031003

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	03/25/2023 07:54	WG2029581

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	150		3.79	10.0	10	03/28/2023 20:45	WG2029184
Fluoride	1.30	B J	0.640	1.50	10	03/28/2023 20:45	WG2029184
Nitrate	0.699	B J Q	0.480	1.00	10	03/28/2023 20:45	WG2029184
Nitrite	U	Q	0.420	1.00	10	03/28/2023 20:45	WG2029184
Sulfate	353		5.94	50.0	10	03/28/2023 20:45	WG2029184

Sample Narrative:

L1597529-66 WG2029184: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0120		0.000180	0.00200	1	03/26/2023 21:23	WG2029249
Arsenic,Dissolved	0.0153		0.000180	0.00200	1	03/27/2023 21:50	WG2029232
Barium	0.200		0.000381	0.00200	1	03/26/2023 21:23	WG2029249
Barium,Dissolved	0.316		0.000381	0.00200	1	03/27/2023 21:50	WG2029232
Calcium	169		0.0936	1.00	1	03/26/2023 21:23	WG2029249
Chromium	U		0.00124	0.00200	1	03/26/2023 21:23	WG2029249
Chromium,Dissolved	U		0.00124	0.00200	1	03/27/2023 21:50	WG2029232
Iron	0.0383	J	0.0281	0.100	1	03/26/2023 21:23	WG2029249
Iron,Dissolved	U		0.0281	0.100	1	03/27/2023 21:50	WG2029232
Lead	0.00251		0.000849	0.00200	1	03/26/2023 21:23	WG2029249
Lead,Dissolved	0.00269		0.000849	0.00200	1	03/27/2023 21:50	WG2029232
Manganese	0.0156		0.000704	0.00500	1	03/26/2023 21:23	WG2029249
Manganese,Dissolved	0.0179		0.000704	0.00500	1	03/27/2023 21:50	WG2029232
Potassium	0.469	J	0.108	2.00	1	03/26/2023 21:23	WG2029249
Selenium	0.0857		0.000300	0.00200	1	03/26/2023 21:23	WG2029249
Selenium,Dissolved	0.00127	J	0.000300	0.00200	1	03/27/2023 21:50	WG2029232
Sodium	351		0.376	2.00	1	03/26/2023 21:23	WG2029249

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	51.6		6.28	20.0	200	03/26/2023 16:08	WG2030303
(S) a,a,a-Trifluorotoluene(FID)	*97.4*			*78.0-120*		*03/26/2023 16:08*	WG2030303

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		2.26	10.0	200	03/28/2023 04:34	WG2031003
Benzene	16.3		0.0188	0.200	200	03/28/2023 04:34	WG2031003
Bromodichloromethane	U		0.0272	0.200	200	03/28/2023 04:34	WG2031003
Bromoform	U		0.0258	0.200	200	03/28/2023 04:34	WG2031003
Bromomethane	U		0.121	1.00	200	03/28/2023 04:34	WG2031003
n-Butylbenzene	U		0.0314	0.200	200	03/28/2023 04:34	WG2031003
sec-Butylbenzene	U		0.0250	0.200	200	03/28/2023 04:34	WG2031003
Carbon disulfide	0.0703	B J	0.0192	0.200	200	03/28/2023 04:34	WG2031003
Carbon tetrachloride	U		0.0256	0.200	200	03/28/2023 04:34	WG2031003

MW-102
Collected date/time: 03/22/23 09:05
L1597529

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	03/28/2023 04:34	WG2031003
Chlorodibromomethane	U		0.0280	0.200	200	03/28/2023 04:34	WG2031003
Chloroethane	U		0.0384	1.00	200	03/28/2023 04:34	WG2031003
Chloroform	U		0.0222	1.00	200	03/28/2023 04:34	WG2031003
Chloromethane	U		0.192	0.500	200	03/28/2023 04:34	WG2031003
1,2-Dibromoethane	U		0.0252	0.200	200	03/28/2023 04:34	WG2031003
1,1-Dichloroethane	U		0.0200	0.200	200	03/28/2023 04:34	WG2031003
1,2-Dichloroethane	U		0.0164	0.200	200	03/28/2023 04:34	WG2031003
1,1-Dichloroethene	U		0.0376	0.200	200	03/28/2023 04:34	WG2031003
cis-1,2-Dichloroethene	U		0.0252	0.200	200	03/28/2023 04:34	WG2031003
trans-1,2-Dichloroethene	U		0.0298	0.200	200	03/28/2023 04:34	WG2031003
1,2-Dichloropropane	U		0.0298	0.200	200	03/28/2023 04:34	WG2031003
cis-1,3-Dichloropropene	U		0.0222	0.200	200	03/28/2023 04:34	WG2031003
trans-1,3-Dichloropropene	U		0.0236	0.200	200	03/28/2023 04:34	WG2031003
Ethylbenzene	0.747		0.0274	0.200	200	03/28/2023 04:34	WG2031003
Isopropylbenzene	0.0411	J	0.0210	0.200	200	03/28/2023 04:34	WG2031003
p-Isopropyltoluene	U		0.0240	0.200	200	03/28/2023 04:34	WG2031003
2-Butanone (MEK)	U		0.238	2.00	200	03/28/2023 04:34	WG2031003
2-Hexanone	U		0.157	2.00	200	03/28/2023 04:34	WG2031003
Methylene Chloride	U		0.0860	1.00	200	03/28/2023 04:34	WG2031003
4-Methyl-2-pentanone (MIBK)	U		0.0956	2.00	200	03/28/2023 04:34	WG2031003
Methyl tert-butyl ether	0.274		0.0202	0.200	200	03/28/2023 04:34	WG2031003
Naphthalene	U		0.200	1.00	200	03/28/2023 04:34	WG2031003
n-Propylbenzene	0.0686	J	0.0199	0.200	200	03/28/2023 04:34	WG2031003
Styrene	U		0.0236	0.200	200	03/28/2023 04:34	WG2031003
tert-Butyl alcohol	U		0.812	1.00	200	03/28/2023 04:34	WG2031003
1,1,1,2-Tetrachloroethane	U		0.0294	0.200	200	03/28/2023 04:34	WG2031003
1,1,2,2-Tetrachloroethane	U		0.0266	0.200	200	03/28/2023 04:34	WG2031003
Tetrachloroethene	U		0.0600	0.200	200	03/28/2023 04:34	WG2031003
Toluene	0.403		0.0556	0.200	200	03/28/2023 04:34	WG2031003
1,1,1-Trichloroethane	U		0.0298	0.200	200	03/28/2023 04:34	WG2031003
1,1,2-Trichloroethane	U		0.0316	0.200	200	03/28/2023 04:34	WG2031003
Trichloroethene	U		0.0380	0.200	200	03/28/2023 04:34	WG2031003
1,2,4-Trimethylbenzene	0.184	J	0.0644	0.200	200	03/28/2023 04:34	WG2031003
1,3,5-Trimethylbenzene	0.0382	J	0.0208	0.200	200	03/28/2023 04:34	WG2031003
Vinyl chloride	U		0.0468	0.200	200	03/28/2023 04:34	WG2031003
o-Xylene	U		0.0348	0.200	200	03/28/2023 04:34	WG2031003
m&p-Xylene	0.535		0.0860	0.400	200	03/28/2023 04:34	WG2031003
Xylenes, Total	0.535	J	0.0348	0.600	200	03/28/2023 04:34	WG2031003
(S) Toluene-d8	*97.1*			*80.0-120*		*03/28/2023 04:34*	WG2031003
(S) 4-Bromofluorobenzene	*83.3*			*77.0-126*		*03/28/2023 04:34*	WG2031003
(S) 1,2-Dichloroethane-d4	*74.7*			*70.0-130*		*03/28/2023 04:34*	WG2031003

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	4.96		0.0247	0.100	1	03/31/2023 04:39	WG2031811
(S) o-Terphenyl	*69.0*			*31.0-160*		*03/31/2023 04:39*	WG2031811

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	3550		50.0	1	03/25/2023 07:54	WG2029581

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	320		3.79	10.0	10	03/24/2023 20:24	WG2029193
Fluoride	1.88		0.640	1.50	10	03/24/2023 20:24	WG2029193
Nitrate	U	Q	0.480	1.00	10	03/24/2023 20:24	WG2029193
Nitrite	U	Q	0.420	1.00	10	03/24/2023 20:24	WG2029193
Sulfate	2110		59.4	500	100	03/24/2023 21:03	WG2029193

Sample Narrative:

L1597529-67 WG2029193: Dilution due to matrix.

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	03/30/2023 09:14	WG2031774
Mercury,Dissolved	U		0.000100	0.000200	1	03/30/2023 11:22	WG2031777

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Boron	0.233		0.0200	0.200	1	03/29/2023 15:38	WG2031766
Boron,Dissolved	0.244		0.0200	0.200	1	03/29/2023 17:07	WG2031813

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00325		0.000180	0.00200	1	03/26/2023 21:26	WG2029249
Arsenic,Dissolved	0.00245		0.000180	0.00200	1	03/27/2023 21:54	WG2029232
Barium	0.00874		0.000381	0.00200	1	03/26/2023 21:26	WG2029249
Barium,Dissolved	0.00951		0.000381	0.00200	1	03/27/2023 21:54	WG2029232
Cadmium	U		0.000150	0.00100	1	03/26/2023 21:26	WG2029249
Cadmium,Dissolved	U		0.000150	0.00100	1	03/27/2023 21:54	WG2029232
Calcium	531		0.0936	1.00	1	03/26/2023 21:26	WG2029249
Chromium	U		0.00124	0.00200	1	03/26/2023 21:26	WG2029249
Chromium,Dissolved	U		0.00124	0.00200	1	03/27/2023 21:54	WG2029232
Cobalt	0.00271		0.0000596	0.00200	1	03/26/2023 21:26	WG2029249
Cobalt,Dissolved	0.00273		0.0000596	0.00200	1	03/27/2023 21:54	WG2029232
Iron	0.0772	J	0.0281	0.100	1	03/26/2023 21:26	WG2029249
Iron,Dissolved	U		0.0281	0.100	1	03/27/2023 21:54	WG2029232
Lead	U		0.000849	0.00200	1	03/26/2023 21:26	WG2029249
Lead,Dissolved	U		0.000849	0.00200	1	03/27/2023 21:54	WG2029232
Manganese	0.0963		0.000704	0.00500	1	03/26/2023 21:26	WG2029249
Manganese,Dissolved	0.0832		0.000704	0.00500	1	03/27/2023 21:54	WG2029232
Nickel	0.00237		0.000816	0.00200	1	03/26/2023 21:26	WG2029249
Nickel,Dissolved	0.00228		0.000816	0.00200	1	03/27/2023 21:54	WG2029232
Potassium	1.08	J	0.108	2.00	1	03/26/2023 21:26	WG2029249
Selenium	0.0293		0.000300	0.00200	1	03/26/2023 21:26	WG2029249
Selenium,Dissolved	0.00509		0.000300	0.00200	1	03/27/2023 21:54	WG2029232
Sodium	160		0.376	2.00	1	03/26/2023 21:26	WG2029249
Uranium	0.0291		0.0000789	0.00100	1	03/26/2023 21:26	WG2029249
Uranium,Dissolved	0.0336		0.0000789	0.00100	1	03/27/2023 21:54	WG2029232

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Vanadium	0.0135		0.000664	0.00500	1	03/26/2023 21:26	WG2029249
Vanadium,Dissolved	0.0133		0.000664	0.00500	1	03/27/2023 21:54	WG2029232

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	03/26/2023 13:12	WG2030303
(S) a,a,a-Trifluorotoluene(FID)	*98.9*			*78.0-120*		*03/26/2023 13:12*	WG2030303

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	03/28/2023 03:51	WG2031003
Benzene	U		0.0000941	0.00100	1	03/28/2023 03:51	WG2031003
Bromodichloromethane	U		0.000136	0.00100	1	03/28/2023 03:51	WG2031003
Bromoform	U		0.000129	0.00100	1	03/28/2023 03:51	WG2031003
Bromomethane	U		0.000605	0.00500	1	03/28/2023 03:51	WG2031003
n-Butylbenzene	U		0.000157	0.00100	1	03/28/2023 03:51	WG2031003
sec-Butylbenzene	U		0.000125	0.00100	1	03/28/2023 03:51	WG2031003
Carbon disulfide	0.000128	B J	0.0000962	0.00100	1	03/28/2023 03:51	WG2031003
Carbon tetrachloride	U		0.000128	0.00100	1	03/28/2023 03:51	WG2031003
Chlorobenzene	U		0.000116	0.00100	1	03/28/2023 03:51	WG2031003
Chlorodibromomethane	U		0.000140	0.00100	1	03/28/2023 03:51	WG2031003
Chloroethane	U		0.000192	0.00500	1	03/28/2023 03:51	WG2031003
Chloroform	U		0.000111	0.00500	1	03/28/2023 03:51	WG2031003
Chloromethane	U		0.000960	0.00250	1	03/28/2023 03:51	WG2031003
1,2-Dibromoethane	U		0.000126	0.00100	1	03/28/2023 03:51	WG2031003
1,1-Dichloroethane	U		0.000100	0.00100	1	03/28/2023 03:51	WG2031003
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/28/2023 03:51	WG2031003
1,1-Dichloroethene	U		0.000188	0.00100	1	03/28/2023 03:51	WG2031003
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/28/2023 03:51	WG2031003
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/28/2023 03:51	WG2031003
1,2-Dichloropropane	U		0.000149	0.00100	1	03/28/2023 03:51	WG2031003
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/28/2023 03:51	WG2031003
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/28/2023 03:51	WG2031003
Ethylbenzene	U		0.000137	0.00100	1	03/28/2023 03:51	WG2031003
Isopropylbenzene	U		0.000105	0.00100	1	03/28/2023 03:51	WG2031003
p-Isopropyltoluene	U		0.000120	0.00100	1	03/28/2023 03:51	WG2031003
2-Butanone (MEK)	U		0.00119	0.0100	1	03/28/2023 03:51	WG2031003
2-Hexanone	U		0.000787	0.0100	1	03/28/2023 03:51	WG2031003
Methylene Chloride	U		0.000430	0.00500	1	03/28/2023 03:51	WG2031003
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/28/2023 03:51	WG2031003
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/28/2023 03:51	WG2031003
Naphthalene	U		0.00100	0.00500	1	03/28/2023 03:51	WG2031003
n-Propylbenzene	U		0.0000993	0.00100	1	03/28/2023 03:51	WG2031003
Styrene	U		0.000118	0.00100	1	03/28/2023 03:51	WG2031003
tert-Butyl alcohol	U		0.00406	0.00500	1	03/28/2023 03:51	WG2031003
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/28/2023 03:51	WG2031003
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/28/2023 03:51	WG2031003
Tetrachloroethene	U		0.000300	0.00100	1	03/28/2023 03:51	WG2031003
Toluene	U		0.000278	0.00100	1	03/28/2023 03:51	WG2031003
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/28/2023 03:51	WG2031003
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/28/2023 03:51	WG2031003
Trichloroethene	U		0.000190	0.00100	1	03/28/2023 03:51	WG2031003
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/28/2023 03:51	WG2031003

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
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/28/2023 03:51	WG2031003
Vinyl chloride	U		0.000234	0.00100	1	03/28/2023 03:51	WG2031003
o-Xylene	U		0.000174	0.00100	1	03/28/2023 03:51	WG2031003
m&p-Xylene	U		0.000430	0.00200	1	03/28/2023 03:51	WG2031003
Xylenes, Total	U		0.000174	0.00300	1	03/28/2023 03:51	WG2031003
(S) Toluene-d8	*99.7*			*80.0-120*		*03/28/2023 03:51*	WG2031003
(S) 4-Bromofluorobenzene	*83.5*			*77.0-126*		*03/28/2023 03:51*	WG2031003
(S) 1,2-Dichloroethane-d4	*83.3*			*70.0-130*		*03/28/2023 03:51*	WG2031003

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	0.161		0.0247	0.100	1	04/01/2023 02:15	WG2031811
(S) o-Terphenyl	*86.0*			*31.0-160*		*04/01/2023 02:15*	WG2031811

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	2240		50.0	1	03/25/2023 07:54	WG2029581

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	36.9		3.79	10.0	10	03/24/2023 11:25	WG2029193
Fluoride	1.83		0.640	1.50	10	03/24/2023 11:25	WG2029193
Nitrate	U		0.480	1.00	10	03/24/2023 11:25	WG2029193
Nitrite	U		0.420	1.00	10	03/24/2023 11:25	WG2029193
Sulfate	1440		5.94	50.0	10	03/24/2023 11:25	WG2029193

Sample Narrative:

L1597529-68 WG2029193: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00264		0.000180	0.00200	1	03/26/2023 21:30	WG2029249
Arsenic,Dissolved	0.00257		0.000180	0.00200	1	03/27/2023 21:57	WG2029232
Barium	0.0124		0.000381	0.00200	1	03/26/2023 21:30	WG2029249
Barium,Dissolved	0.0122		0.000381	0.00200	1	03/27/2023 21:57	WG2029232
Calcium	342		0.0936	1.00	1	03/26/2023 21:30	WG2029249
Chromium	U		0.00124	0.00200	1	03/26/2023 21:30	WG2029249
Chromium,Dissolved	U		0.00124	0.00200	1	03/27/2023 21:57	WG2029232
Iron	0.0529	J	0.0281	0.100	1	03/26/2023 21:30	WG2029249
Iron,Dissolved	U		0.0281	0.100	1	03/27/2023 21:57	WG2029232
Lead	U		0.000849	0.00200	1	03/26/2023 21:30	WG2029249
Lead,Dissolved	U		0.000849	0.00200	1	03/27/2023 21:57	WG2029232
Manganese	0.0150		0.000704	0.00500	1	03/26/2023 21:30	WG2029249
Manganese,Dissolved	0.00525		0.000704	0.00500	1	03/27/2023 21:57	WG2029232
Potassium	0.537	J	0.108	2.00	1	03/26/2023 21:30	WG2029249
Selenium	0.0295		0.000300	0.00200	1	03/26/2023 21:30	WG2029249
Selenium,Dissolved	0.0145		0.000300	0.00200	1	03/27/2023 21:57	WG2029232
Sodium	111		0.376	2.00	1	03/26/2023 21:30	WG2029249

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	03/28/2023 04:12	WG2031003
Benzene	U		0.0000941	0.00100	1	03/28/2023 04:12	WG2031003
Bromodichloromethane	U		0.000136	0.00100	1	03/28/2023 04:12	WG2031003
Bromoform	U		0.000129	0.00100	1	03/28/2023 04:12	WG2031003
Bromomethane	U		0.000605	0.00500	1	03/28/2023 04:12	WG2031003
n-Butylbenzene	U		0.000157	0.00100	1	03/28/2023 04:12	WG2031003
sec-Butylbenzene	U		0.000125	0.00100	1	03/28/2023 04:12	WG2031003
Carbon disulfide	0.000109	B J	0.0000962	0.00100	1	03/28/2023 04:12	WG2031003
Carbon tetrachloride	U		0.000128	0.00100	1	03/28/2023 04:12	WG2031003
Chlorobenzene	U		0.000116	0.00100	1	03/28/2023 04:12	WG2031003
Chlorodibromomethane	U		0.000140	0.00100	1	03/28/2023 04:12	WG2031003
Chloroethane	U		0.000192	0.00500	1	03/28/2023 04:12	WG2031003
Chloroform	U		0.000111	0.00500	1	03/28/2023 04:12	WG2031003
Chloromethane	U		0.000960	0.00250	1	03/28/2023 04:12	WG2031003
1,2-Dibromoethane	U		0.000126	0.00100	1	03/28/2023 04:12	WG2031003
1,1-Dichloroethane	U		0.000100	0.00100	1	03/28/2023 04:12	WG2031003

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	03/28/2023 04:12	WG2031003
1,1-Dichloroethene	U		0.000188	0.00100	1	03/28/2023 04:12	WG2031003
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/28/2023 04:12	WG2031003
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/28/2023 04:12	WG2031003
1,2-Dichloropropane	U		0.000149	0.00100	1	03/28/2023 04:12	WG2031003
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/28/2023 04:12	WG2031003
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/28/2023 04:12	WG2031003
Ethylbenzene	U		0.000137	0.00100	1	03/28/2023 04:12	WG2031003
Isopropylbenzene	U		0.000105	0.00100	1	03/28/2023 04:12	WG2031003
p-Isopropyltoluene	U		0.000120	0.00100	1	03/28/2023 04:12	WG2031003
2-Butanone (MEK)	U		0.00119	0.0100	1	03/28/2023 04:12	WG2031003
2-Hexanone	U		0.000787	0.0100	1	03/28/2023 04:12	WG2031003
Methylene Chloride	U		0.000430	0.00500	1	03/28/2023 04:12	WG2031003
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/28/2023 04:12	WG2031003
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/28/2023 04:12	WG2031003
Naphthalene	U		0.00100	0.00500	1	03/28/2023 04:12	WG2031003
n-Propylbenzene	U		0.0000993	0.00100	1	03/28/2023 04:12	WG2031003
Styrene	U		0.000118	0.00100	1	03/28/2023 04:12	WG2031003
tert-Butyl alcohol	U		0.00406	0.00500	1	03/28/2023 04:12	WG2031003
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/28/2023 04:12	WG2031003
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/28/2023 04:12	WG2031003
Tetrachloroethene	U		0.000300	0.00100	1	03/28/2023 04:12	WG2031003
Toluene	U		0.000278	0.00100	1	03/28/2023 04:12	WG2031003
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/28/2023 04:12	WG2031003
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/28/2023 04:12	WG2031003
Trichloroethene	U		0.000190	0.00100	1	03/28/2023 04:12	WG2031003
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/28/2023 04:12	WG2031003
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/28/2023 04:12	WG2031003
Vinyl chloride	U		0.000234	0.00100	1	03/28/2023 04:12	WG2031003
o-Xylene	U		0.000174	0.00100	1	03/28/2023 04:12	WG2031003
m&p-Xylene	U		0.000430	0.00200	1	03/28/2023 04:12	WG2031003
Xylenes, Total	U		0.000174	0.00300	1	03/28/2023 04:12	WG2031003
(S) Toluene-d8	*97.5*			*80.0-120*		*03/28/2023 04:12*	WG2031003
(S) 4-Bromofluorobenzene	*82.7*			*77.0-126*		*03/28/2023 04:12*	WG2031003
(S) 1,2-Dichloroethane-d4	*78.6*			*70.0-130*		*03/28/2023 04:12*	WG2031003

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	0.0420	J	0.0247	0.100	1	03/31/2023 05:23	WG2031811
(S) o-Terphenyl	*88.0*			*31.0-160*		*03/31/2023 05:23*	WG2031811

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	03/25/2023 07:54	WG2029581

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	143		3.79	10.0	10	03/29/2023 04:51	WG2029188
Fluoride	2.31		0.640	1.50	10	03/29/2023 04:51	WG2029188
Nitrate	U	Q	0.480	1.00	10	03/29/2023 04:51	WG2029188
Nitrite	U	Q	0.420	1.00	10	03/29/2023 04:51	WG2029188
Sulfate	315		5.94	50.0	10	03/29/2023 04:51	WG2029188

Sample Narrative:

L1597529-69 WG2029188: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0113		0.000180	0.00200	1	03/26/2023 21:33	WG2029249
Arsenic,Dissolved	0.0146		0.000180	0.00200	1	03/27/2023 22:00	WG2029232
Barium	0.207		0.000381	0.00200	1	03/26/2023 21:33	WG2029249
Barium,Dissolved	0.293		0.000381	0.00200	1	03/27/2023 22:00	WG2029232
Calcium	168		0.0936	1.00	1	03/26/2023 21:33	WG2029249
Chromium	U		0.00124	0.00200	1	03/26/2023 21:33	WG2029249
Chromium,Dissolved	0.00136	J	0.00124	0.00200	1	03/27/2023 22:00	WG2029232
Iron	0.0342	J	0.0281	0.100	1	03/26/2023 21:33	WG2029249
Iron,Dissolved	U		0.0281	0.100	1	03/27/2023 22:00	WG2029232
Lead	0.00267		0.000849	0.00200	1	03/26/2023 21:33	WG2029249
Lead,Dissolved	0.00305		0.000849	0.00200	1	03/27/2023 22:00	WG2029232
Manganese	0.0164		0.000704	0.00500	1	03/26/2023 21:33	WG2029249
Manganese,Dissolved	0.0172		0.000704	0.00500	1	03/27/2023 22:00	WG2029232
Potassium	0.460	J	0.108	2.00	1	03/26/2023 21:33	WG2029249
Selenium	0.0435		0.000300	0.00200	1	03/26/2023 21:33	WG2029249
Selenium,Dissolved	0.00123	J	0.000300	0.00200	1	03/27/2023 22:00	WG2029232
Sodium	351		0.376	2.00	1	03/26/2023 21:33	WG2029249

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	46.3		0.785	2.50	25	03/29/2023 07:36	WG2031448
(S) a,a,a-Trifluorotoluene(FID)	*101*			*78.0-120*		*03/29/2023 07:36*	WG2031448

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	03/28/2023 04:56	WG2031003
Benzene	15.8		0.00941	0.100	100	03/28/2023 04:56	WG2031003
Bromodichloromethane	U		0.0136	0.100	100	03/28/2023 04:56	WG2031003
Bromoform	U		0.0129	0.100	100	03/28/2023 04:56	WG2031003
Bromomethane	U		0.0605	0.500	100	03/28/2023 04:56	WG2031003
n-Butylbenzene	U		0.0157	0.100	100	03/28/2023 04:56	WG2031003
sec-Butylbenzene	U		0.0125	0.100	100	03/28/2023 04:56	WG2031003
Carbon disulfide	0.0322	B J	0.00962	0.100	100	03/28/2023 04:56	WG2031003
Carbon tetrachloride	U		0.0128	0.100	100	03/28/2023 04:56	WG2031003

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	03/28/2023 04:56	WG2031003
Chlorodibromomethane	U		0.0140	0.100	100	03/28/2023 04:56	WG2031003
Chloroethane	U		0.0192	0.500	100	03/28/2023 04:56	WG2031003
Chloroform	U		0.0111	0.500	100	03/28/2023 04:56	WG2031003
Chloromethane	U		0.0960	0.250	100	03/28/2023 04:56	WG2031003
1,2-Dibromoethane	U		0.0126	0.100	100	03/28/2023 04:56	WG2031003
1,1-Dichloroethane	U		0.0100	0.100	100	03/28/2023 04:56	WG2031003
1,2-Dichloroethane	U		0.00819	0.100	100	03/28/2023 04:56	WG2031003
1,1-Dichloroethene	U		0.0188	0.100	100	03/28/2023 04:56	WG2031003
cis-1,2-Dichloroethene	U		0.0126	0.100	100	03/28/2023 04:56	WG2031003
trans-1,2-Dichloroethene	U		0.0149	0.100	100	03/28/2023 04:56	WG2031003
1,2-Dichloropropane	U		0.0149	0.100	100	03/28/2023 04:56	WG2031003
cis-1,3-Dichloropropene	U		0.0111	0.100	100	03/28/2023 04:56	WG2031003
trans-1,3-Dichloropropene	U		0.0118	0.100	100	03/28/2023 04:56	WG2031003
Ethylbenzene	0.691		0.0137	0.100	100	03/28/2023 04:56	WG2031003
Isopropylbenzene	0.0327	J	0.0105	0.100	100	03/28/2023 04:56	WG2031003
p-Isopropyltoluene	U		0.0120	0.100	100	03/28/2023 04:56	WG2031003
2-Butanone (MEK)	U		0.119	1.00	100	03/28/2023 04:56	WG2031003
2-Hexanone	U		0.0787	1.00	100	03/28/2023 04:56	WG2031003
Methylene Chloride	U		0.0430	0.500	100	03/28/2023 04:56	WG2031003
4-Methyl-2-pentanone (MIBK)	U		0.0478	1.00	100	03/28/2023 04:56	WG2031003
Methyl tert-butyl ether	0.304		0.0101	0.100	100	03/28/2023 04:56	WG2031003
Naphthalene	U		0.100	0.500	100	03/28/2023 04:56	WG2031003
n-Propylbenzene	0.0572	J	0.00993	0.100	100	03/28/2023 04:56	WG2031003
Styrene	U		0.0118	0.100	100	03/28/2023 04:56	WG2031003
tert-Butyl alcohol	U		0.406	0.500	100	03/28/2023 04:56	WG2031003
1,1,1,2-Tetrachloroethane	U		0.0147	0.100	100	03/28/2023 04:56	WG2031003
1,1,2,2-Tetrachloroethane	U		0.0133	0.100	100	03/28/2023 04:56	WG2031003
Tetrachloroethene	U		0.0300	0.100	100	03/28/2023 04:56	WG2031003
Toluene	0.383		0.0278	0.100	100	03/28/2023 04:56	WG2031003
1,1,1-Trichloroethane	U		0.0149	0.100	100	03/28/2023 04:56	WG2031003
1,1,2-Trichloroethane	U		0.0158	0.100	100	03/28/2023 04:56	WG2031003
Trichloroethene	U		0.0190	0.100	100	03/28/2023 04:56	WG2031003
1,2,4-Trimethylbenzene	0.159		0.0322	0.100	100	03/28/2023 04:56	WG2031003
1,3,5-Trimethylbenzene	0.0299	J	0.0104	0.100	100	03/28/2023 04:56	WG2031003
Vinyl chloride	U		0.0234	0.100	100	03/28/2023 04:56	WG2031003
o-Xylene	0.0301	J	0.0174	0.100	100	03/28/2023 04:56	WG2031003
m&p-Xylene	0.485		0.0430	0.200	100	03/28/2023 04:56	WG2031003
Xylenes, Total	0.515		0.0174	0.300	100	03/28/2023 04:56	WG2031003
(S) Toluene-d8	*98.6*			*80.0-120*		*03/28/2023 04:56*	WG2031003
(S) 4-Bromofluorobenzene	*84.7*			*77.0-126*		*03/28/2023 04:56*	WG2031003
(S) 1,2-Dichloroethane-d4	*78.1*			*70.0-130*		*03/28/2023 04:56*	WG2031003

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	5.22		0.0247	0.100	1	03/31/2023 05:46	WG2031811
(S) o-Terphenyl	*59.0*			*31.0-160*		*03/31/2023 05:46*	WG2031811

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	182		10.0	1	03/25/2023 07:54	WG2029581

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	55.6		0.379	1.00	1	03/28/2023 21:12	WG2029184
Fluoride	0.203	B	0.0640	0.150	1	03/28/2023 21:12	WG2029184
Nitrate	0.873	Q	0.0480	0.100	1	03/28/2023 21:12	WG2029184
Nitrite	0.350	Q	0.0420	0.100	1	03/28/2023 21:12	WG2029184
Sulfate	29.0		0.594	5.00	1	03/28/2023 21:12	WG2029184

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.000595	J	0.000180	0.00200	1	03/26/2023 21:36	WG2029249
Arsenic,Dissolved	0.000409	J	0.000180	0.00200	1	03/27/2023 22:12	WG2029232
Barium	0.00725		0.000381	0.00200	1	03/26/2023 21:36	WG2029249
Barium,Dissolved	0.00777		0.000381	0.00200	1	03/27/2023 22:12	WG2029232
Calcium	15.5		0.0936	1.00	1	03/26/2023 21:36	WG2029249
Chromium	U		0.00124	0.00200	1	03/26/2023 21:36	WG2029249
Chromium,Dissolved	U		0.00124	0.00200	1	03/27/2023 22:12	WG2029232
Iron	U		0.0281	0.100	1	03/26/2023 21:36	WG2029249
Iron,Dissolved	U		0.0281	0.100	1	03/27/2023 22:12	WG2029232
Lead	U		0.000849	0.00200	1	03/26/2023 21:36	WG2029249
Lead,Dissolved	U		0.000849	0.00200	1	03/27/2023 22:12	WG2029232
Manganese	0.00200	J	0.000704	0.00500	1	03/26/2023 21:36	WG2029249
Manganese,Dissolved	0.00183	J	0.000704	0.00500	1	03/27/2023 22:12	WG2029232
Potassium	5.28		0.108	2.00	1	03/26/2023 21:36	WG2029249
Selenium	0.000335	J	0.000300	0.00200	1	03/27/2023 10:08	WG2029249
Selenium,Dissolved	0.000477	J	0.000300	0.00200	1	03/27/2023 22:12	WG2029232
Sodium	37.5		0.376	2.00	1	03/26/2023 21:36	WG2029249

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	0.0479	J	0.0314	0.100	1	03/26/2023 12:49	WG2030303
(S) a,a,a-Trifluorotoluene(FID)	*98.9*			*78.0-120*		*03/26/2023 12:49*	WG2030303

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	03/28/2023 00:35	WG2031003
Benzene	U		0.0000941	0.00100	1	03/28/2023 00:35	WG2031003
Bromodichloromethane	U		0.000136	0.00100	1	03/28/2023 00:35	WG2031003
Bromoform	U		0.000129	0.00100	1	03/28/2023 00:35	WG2031003
Bromomethane	U		0.000605	0.00500	1	03/28/2023 00:35	WG2031003
n-Butylbenzene	U		0.000157	0.00100	1	03/28/2023 00:35	WG2031003
sec-Butylbenzene	U		0.000125	0.00100	1	03/28/2023 00:35	WG2031003
Carbon disulfide	0.000194	B J	0.0000962	0.00100	1	03/28/2023 00:35	WG2031003
Carbon tetrachloride	0.000136	J	0.000128	0.00100	1	03/28/2023 00:35	WG2031003
Chlorobenzene	U		0.000116	0.00100	1	03/28/2023 00:35	WG2031003
Chlorodibromomethane	U		0.000140	0.00100	1	03/28/2023 00:35	WG2031003
Chloroethane	U		0.000192	0.00500	1	03/28/2023 00:35	WG2031003

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloroform	U		0.000111	0.00500	1	03/28/2023 00:35	WG2031003
Chloromethane	U		0.000960	0.00250	1	03/28/2023 00:35	WG2031003
1,2-Dibromoethane	U		0.000126	0.00100	1	03/28/2023 00:35	WG2031003
1,1-Dichloroethane	U		0.000100	0.00100	1	03/28/2023 00:35	WG2031003
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/28/2023 00:35	WG2031003
1,1-Dichloroethene	U		0.000188	0.00100	1	03/28/2023 00:35	WG2031003
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/28/2023 00:35	WG2031003
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/28/2023 00:35	WG2031003
1,2-Dichloropropane	U		0.000149	0.00100	1	03/28/2023 00:35	WG2031003
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/28/2023 00:35	WG2031003
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/28/2023 00:35	WG2031003
Ethylbenzene	U		0.000137	0.00100	1	03/28/2023 00:35	WG2031003
Isopropylbenzene	U		0.000105	0.00100	1	03/28/2023 00:35	WG2031003
p-Isopropyltoluene	U		0.000120	0.00100	1	03/28/2023 00:35	WG2031003
2-Butanone (MEK)	U		0.00119	0.0100	1	03/28/2023 00:35	WG2031003
2-Hexanone	U		0.000787	0.0100	1	03/28/2023 00:35	WG2031003
Methylene Chloride	U		0.000430	0.00500	1	03/28/2023 00:35	WG2031003
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/28/2023 00:35	WG2031003
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/28/2023 00:35	WG2031003
Naphthalene	U		0.00100	0.00500	1	03/28/2023 00:35	WG2031003
n-Propylbenzene	U		0.0000993	0.00100	1	03/28/2023 00:35	WG2031003
Styrene	U		0.000118	0.00100	1	03/28/2023 00:35	WG2031003
tert-Butyl alcohol	U		0.00406	0.00500	1	03/28/2023 00:35	WG2031003
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/28/2023 00:35	WG2031003
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/28/2023 00:35	WG2031003
Tetrachloroethene	U		0.000300	0.00100	1	03/28/2023 00:35	WG2031003
Toluene	U		0.000278	0.00100	1	03/28/2023 00:35	WG2031003
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/28/2023 00:35	WG2031003
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/28/2023 00:35	WG2031003
Trichloroethene	U		0.000190	0.00100	1	03/28/2023 00:35	WG2031003
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/28/2023 00:35	WG2031003
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/28/2023 00:35	WG2031003
Vinyl chloride	U		0.000234	0.00100	1	03/28/2023 00:35	WG2031003
o-Xylene	U		0.000174	0.00100	1	03/28/2023 00:35	WG2031003
m&p-Xylene	U		0.000430	0.00200	1	03/28/2023 00:35	WG2031003
Xylenes, Total	U		0.000174	0.00300	1	03/28/2023 00:35	WG2031003
(S) Toluene-d8	*101*			*80.0-120*		*03/28/2023 00:35*	WG2031003
(S) 4-Bromofluorobenzene	*83.3*			*77.0-126*		*03/28/2023 00:35*	WG2031003
(S) 1,2-Dichloroethane-d4	*85.1*			*70.0-130*		*03/28/2023 00:35*	WG2031003

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	04/01/2023 01:30	WG2031811
(S) o-Terphenyl	*80.5*			*31.0-160*		*04/01/2023 01:30*	WG2031811

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	03/27/2023 23:30	WG2031003
Benzene	U		0.0000941	0.00100	1	03/27/2023 23:30	WG2031003
Bromodichloromethane	U		0.000136	0.00100	1	03/27/2023 23:30	WG2031003
Bromoform	U		0.000129	0.00100	1	03/27/2023 23:30	WG2031003
Bromomethane	U		0.000605	0.00500	1	03/27/2023 23:30	WG2031003
n-Butylbenzene	U		0.000157	0.00100	1	03/27/2023 23:30	WG2031003
sec-Butylbenzene	U		0.000125	0.00100	1	03/27/2023 23:30	WG2031003
Carbon disulfide	0.000208	B J	0.0000962	0.00100	1	03/27/2023 23:30	WG2031003
Carbon tetrachloride	U		0.000128	0.00100	1	03/27/2023 23:30	WG2031003
Chlorobenzene	U		0.000116	0.00100	1	03/27/2023 23:30	WG2031003
Chlorodibromomethane	U		0.000140	0.00100	1	03/27/2023 23:30	WG2031003
Chloroethane	U		0.000192	0.00500	1	03/27/2023 23:30	WG2031003
Chloroform	U		0.000111	0.00500	1	03/27/2023 23:30	WG2031003
Chloromethane	U		0.000960	0.00250	1	03/27/2023 23:30	WG2031003
1,2-Dibromoethane	U		0.000126	0.00100	1	03/27/2023 23:30	WG2031003
1,1-Dichloroethane	U		0.000100	0.00100	1	03/27/2023 23:30	WG2031003
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/27/2023 23:30	WG2031003
1,1-Dichloroethene	U		0.000188	0.00100	1	03/27/2023 23:30	WG2031003
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/27/2023 23:30	WG2031003
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/27/2023 23:30	WG2031003
1,2-Dichloropropane	U		0.000149	0.00100	1	03/27/2023 23:30	WG2031003
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/27/2023 23:30	WG2031003
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/27/2023 23:30	WG2031003
Ethylbenzene	U		0.000137	0.00100	1	03/27/2023 23:30	WG2031003
Isopropylbenzene	U		0.000105	0.00100	1	03/27/2023 23:30	WG2031003
p-Isopropyltoluene	U		0.000120	0.00100	1	03/27/2023 23:30	WG2031003
2-Butanone (MEK)	U		0.00119	0.0100	1	03/27/2023 23:30	WG2031003
2-Hexanone	U		0.000787	0.0100	1	03/27/2023 23:30	WG2031003
Methylene Chloride	U		0.000430	0.00500	1	03/27/2023 23:30	WG2031003
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/27/2023 23:30	WG2031003
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/27/2023 23:30	WG2031003
Naphthalene	U		0.00100	0.00500	1	03/27/2023 23:30	WG2031003
n-Propylbenzene	U		0.0000993	0.00100	1	03/27/2023 23:30	WG2031003
Styrene	U		0.000118	0.00100	1	03/27/2023 23:30	WG2031003
tert-Butyl alcohol	U		0.00406	0.00500	1	03/27/2023 23:30	WG2031003
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/27/2023 23:30	WG2031003
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/27/2023 23:30	WG2031003
Tetrachloroethene	U		0.000300	0.00100	1	03/27/2023 23:30	WG2031003
Toluene	U		0.000278	0.00100	1	03/27/2023 23:30	WG2031003
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/27/2023 23:30	WG2031003
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/27/2023 23:30	WG2031003
Trichloroethene	U		0.000190	0.00100	1	03/27/2023 23:30	WG2031003
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/27/2023 23:30	WG2031003
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/27/2023 23:30	WG2031003
Vinyl chloride	U		0.000234	0.00100	1	03/27/2023 23:30	WG2031003
o-Xylene	U		0.000174	0.00100	1	03/27/2023 23:30	WG2031003
m&p-Xylene	U		0.000430	0.00200	1	03/27/2023 23:30	WG2031003
Xylenes, Total	U		0.000174	0.00300	1	03/27/2023 23:30	WG2031003
(S) Toluene-d8	*96.3*			*80.0-120*		*03/27/2023 23:30*	WG2031003
(S) 4-Bromofluorobenzene	*77.9*			*77.0-126*		*03/27/2023 23:30*	WG2031003
(S) 1,2-Dichloroethane-d4	*83.6*			*70.0-130*		*03/27/2023 23:30*	WG2031003

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	3180		50.0	1	03/25/2023 07:54	WG2029581

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	154		3.79	10.0	10	03/29/2023 05:23	WG2029188
Fluoride	2.23		0.640	1.50	10	03/29/2023 05:23	WG2029188
Nitrate	U	Q	0.480	1.00	10	03/29/2023 05:23	WG2029188
Nitrite	U	Q	0.420	1.00	10	03/29/2023 05:23	WG2029188
Sulfate	1720		5.94	50.0	10	03/29/2023 05:23	WG2029188

Sample Narrative:

L1597529-72 WG2029188: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00383		0.000180	0.00200	1	03/26/2023 21:40	WG2029249
Arsenic,Dissolved	0.00359		0.000180	0.00200	1	03/27/2023 22:16	WG2029232
Barium	0.0163		0.000381	0.00200	1	03/26/2023 21:40	WG2029249
Barium,Dissolved	0.0174		0.000381	0.00200	1	03/27/2023 22:16	WG2029232
Calcium	343		0.0936	1.00	1	03/26/2023 21:40	WG2029249
Chromium	0.463		0.00124	0.00200	1	03/26/2023 21:40	WG2029249
Chromium,Dissolved	0.0317		0.00124	0.00200	1	03/27/2023 22:16	WG2029232
Iron	0.844		0.0281	0.100	1	03/26/2023 21:40	WG2029249
Iron,Dissolved	0.104		0.0281	0.100	1	03/27/2023 22:16	WG2029232
Lead	U		0.000849	0.00200	1	03/26/2023 21:40	WG2029249
Lead,Dissolved	U		0.000849	0.00200	1	03/27/2023 22:16	WG2029232
Manganese	0.913		0.000704	0.00500	1	03/26/2023 21:40	WG2029249
Manganese,Dissolved	0.936		0.000704	0.00500	1	03/27/2023 22:16	WG2029232
Potassium	0.613	J	0.108	2.00	1	03/26/2023 21:40	WG2029249
Selenium	0.0285		0.000300	0.00200	1	03/27/2023 10:11	WG2029249
Selenium,Dissolved	0.00114	J	0.000300	0.00200	1	03/27/2023 22:16	WG2029232
Sodium	301		0.376	2.00	1	03/26/2023 21:40	WG2029249

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	0.964	J	0.628	2.00	20	03/26/2023 16:29	WG2030303
(S) a,a,a-Trifluorotoluene(FID)	*98.7*			*78.0-120*		*03/26/2023 16:29*	WG2030303

Sample Narrative:

L1597529-72 WG2030303: Elevated RL due to foamy matrix.

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	03/28/2023 05:17	WG2031003
Benzene	0.0147	J	0.00188	0.0200	20	03/28/2023 05:17	WG2031003
Bromodichloromethane	U		0.00272	0.0200	20	03/28/2023 05:17	WG2031003
Bromoform	U		0.00258	0.0200	20	03/28/2023 05:17	WG2031003
Bromomethane	U		0.0121	0.100	20	03/28/2023 05:17	WG2031003
n-Butylbenzene	U		0.00314	0.0200	20	03/28/2023 05:17	WG2031003

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	0.00673	J	0.00250	0.0200	20	03/28/2023 05:17	WG2031003
Carbon disulfide	0.00645	B J	0.00192	0.0200	20	03/28/2023 05:17	WG2031003
Carbon tetrachloride	U		0.00256	0.0200	20	03/28/2023 05:17	WG2031003
Chlorobenzene	U		0.00232	0.0200	20	03/28/2023 05:17	WG2031003
Chlorodibromomethane	U		0.00280	0.0200	20	03/28/2023 05:17	WG2031003
Chloroethane	U		0.00384	0.100	20	03/28/2023 05:17	WG2031003
Chloroform	U		0.00222	0.100	20	03/28/2023 05:17	WG2031003
Chloromethane	U		0.0192	0.0500	20	03/28/2023 05:17	WG2031003
1,2-Dibromoethane	U		0.00252	0.0200	20	03/28/2023 05:17	WG2031003
1,1-Dichloroethane	U		0.00200	0.0200	20	03/28/2023 05:17	WG2031003
1,2-Dichloroethane	U		0.00164	0.0200	20	03/28/2023 05:17	WG2031003
1,1-Dichloroethene	U		0.00376	0.0200	20	03/28/2023 05:17	WG2031003
cis-1,2-Dichloroethene	U		0.00252	0.0200	20	03/28/2023 05:17	WG2031003
trans-1,2-Dichloroethene	U		0.00298	0.0200	20	03/28/2023 05:17	WG2031003
1,2-Dichloropropane	U		0.00298	0.0200	20	03/28/2023 05:17	WG2031003
cis-1,3-Dichloropropene	U		0.00222	0.0200	20	03/28/2023 05:17	WG2031003
trans-1,3-Dichloropropene	U		0.00236	0.0200	20	03/28/2023 05:17	WG2031003
Ethylbenzene	U		0.00274	0.0200	20	03/28/2023 05:17	WG2031003
Isopropylbenzene	0.0108	J	0.00210	0.0200	20	03/28/2023 05:17	WG2031003
p-Isopropyltoluene	U		0.00240	0.0200	20	03/28/2023 05:17	WG2031003
2-Butanone (MEK)	U		0.0238	0.200	20	03/28/2023 05:17	WG2031003
2-Hexanone	U		0.0157	0.200	20	03/28/2023 05:17	WG2031003
Methylene Chloride	U		0.00860	0.100	20	03/28/2023 05:17	WG2031003
4-Methyl-2-pentanone (MIBK)	U		0.00956	0.200	20	03/28/2023 05:17	WG2031003
Methyl tert-butyl ether	0.00270	J	0.00202	0.0200	20	03/28/2023 05:17	WG2031003
Naphthalene	U		0.0200	0.100	20	03/28/2023 05:17	WG2031003
n-Propylbenzene	U		0.00199	0.0200	20	03/28/2023 05:17	WG2031003
Styrene	U		0.00236	0.0200	20	03/28/2023 05:17	WG2031003
tert-Butyl alcohol	U		0.0812	0.100	20	03/28/2023 05:17	WG2031003
1,1,1,2-Tetrachloroethane	U		0.00294	0.0200	20	03/28/2023 05:17	WG2031003
1,1,2,2-Tetrachloroethane	U		0.00266	0.0200	20	03/28/2023 05:17	WG2031003
Tetrachloroethene	U		0.00600	0.0200	20	03/28/2023 05:17	WG2031003
Toluene	U		0.00556	0.0200	20	03/28/2023 05:17	WG2031003
1,1,1-Trichloroethane	U		0.00298	0.0200	20	03/28/2023 05:17	WG2031003
1,1,2-Trichloroethane	U		0.00316	0.0200	20	03/28/2023 05:17	WG2031003
Trichloroethene	U		0.00380	0.0200	20	03/28/2023 05:17	WG2031003
1,2,4-Trimethylbenzene	U		0.00644	0.0200	20	03/28/2023 05:17	WG2031003
1,3,5-Trimethylbenzene	U		0.00208	0.0200	20	03/28/2023 05:17	WG2031003
Vinyl chloride	U		0.00468	0.0200	20	03/28/2023 05:17	WG2031003
o-Xylene	U		0.00348	0.0200	20	03/28/2023 05:17	WG2031003
m&p-Xylene	U		0.00860	0.0400	20	03/28/2023 05:17	WG2031003
Xylenes, Total	U		0.00348	0.0600	20	03/28/2023 05:17	WG2031003
(S) Toluene-d8	*96.8*			*80.0-120*		*03/28/2023 05:17*	WG2031003
(S) 4-Bromofluorobenzene	*85.6*			*77.0-126*		*03/28/2023 05:17*	WG2031003
(S) 1,2-Dichloroethane-d4	*79.0*			*70.0-130*		*03/28/2023 05:17*	WG2031003

Sample Narrative:

L1597529-72 WG2031003: 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	3.83		0.0247	0.100	1	03/31/2023 06:30	WG2031811
(S) o-Terphenyl	*100*			*31.0-160*		*03/31/2023 06:30*	WG2031811

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2840		50.0	1	03/27/2023 23:53	WG2030624

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	73.7		3.79	10.0	10	03/24/2023 21:15	WG2029193
Fluoride	2.22		0.640	1.50	10	03/24/2023 21:15	WG2029193
Nitrate	U	Q	0.480	1.00	10	03/24/2023 21:15	WG2029193
Nitrite	U	Q	0.420	1.00	10	03/24/2023 21:15	WG2029193
Sulfate	1450		5.94	50.0	10	03/24/2023 21:15	WG2029193

Sample Narrative:

L1597529-73 WG2029193: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.000781	J	0.000180	0.00200	1	03/26/2023 21:43	WG2029249
Arsenic,Dissolved	0.000773	J	0.000180	0.00200	1	03/27/2023 22:19	WG2029232
Barium	0.0148		0.000381	0.00200	1	03/26/2023 21:43	WG2029249
Barium,Dissolved	0.0158		0.000381	0.00200	1	03/27/2023 22:19	WG2029232
Calcium	493		0.0936	1.00	1	03/26/2023 21:43	WG2029249
Chromium	U		0.00124	0.00200	1	03/26/2023 21:43	WG2029249
Chromium,Dissolved	U		0.00124	0.00200	1	03/27/2023 22:19	WG2029232
Iron	U		0.0281	0.100	1	03/26/2023 21:43	WG2029249
Iron,Dissolved	U		0.0281	0.100	1	03/27/2023 22:19	WG2029232
Lead	0.00570		0.000849	0.00200	1	03/26/2023 21:43	WG2029249
Lead,Dissolved	0.00489		0.000849	0.00200	1	03/27/2023 22:19	WG2029232
Manganese	0.0126		0.000704	0.00500	1	03/26/2023 21:43	WG2029249
Manganese,Dissolved	0.0127		0.000704	0.00500	1	03/27/2023 22:19	WG2029232
Potassium	0.255	J	0.108	2.00	1	03/26/2023 21:43	WG2029249
Selenium	0.0272		0.000300	0.00200	1	03/26/2023 21:43	WG2029249
Selenium,Dissolved	0.000956	J	0.000300	0.00200	1	03/27/2023 22:19	WG2029232
Sodium	113		0.376	2.00	1	03/26/2023 21:43	WG2029249

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	20.4		6.28	20.0	200	03/26/2023 16:51	WG2030303
(S) a,a,a-Trifluorotoluene(FID)	*97.5*			*78.0-120*		*03/26/2023 16:51*	WG2030303

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		2.26	10.0	200	03/28/2023 05:39	WG2031003
Benzene	0.617		0.0188	0.200	200	03/28/2023 05:39	WG2031003
Bromodichloromethane	U		0.0272	0.200	200	03/28/2023 05:39	WG2031003
Bromoform	U		0.0258	0.200	200	03/28/2023 05:39	WG2031003
Bromomethane	U		0.121	1.00	200	03/28/2023 05:39	WG2031003
n-Butylbenzene	U		0.0314	0.200	200	03/28/2023 05:39	WG2031003
sec-Butylbenzene	U		0.0250	0.200	200	03/28/2023 05:39	WG2031003
Carbon disulfide	0.0594	B J	0.0192	0.200	200	03/28/2023 05:39	WG2031003
Carbon tetrachloride	U		0.0256	0.200	200	03/28/2023 05:39	WG2031003

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	03/28/2023 05:39	WG2031003
Chlorodibromomethane	U		0.0280	0.200	200	03/28/2023 05:39	WG2031003
Chloroethane	U		0.0384	1.00	200	03/28/2023 05:39	WG2031003
Chloroform	U		0.0222	1.00	200	03/28/2023 05:39	WG2031003
Chloromethane	U		0.192	0.500	200	03/28/2023 05:39	WG2031003
1,2-Dibromoethane	U		0.0252	0.200	200	03/28/2023 05:39	WG2031003
1,1-Dichloroethane	U		0.0200	0.200	200	03/28/2023 05:39	WG2031003
1,2-Dichloroethane	U		0.0164	0.200	200	03/28/2023 05:39	WG2031003
1,1-Dichloroethene	U		0.0376	0.200	200	03/28/2023 05:39	WG2031003
cis-1,2-Dichloroethene	U		0.0252	0.200	200	03/28/2023 05:39	WG2031003
trans-1,2-Dichloroethene	U		0.0298	0.200	200	03/28/2023 05:39	WG2031003
1,2-Dichloropropane	U		0.0298	0.200	200	03/28/2023 05:39	WG2031003
cis-1,3-Dichloropropene	U		0.0222	0.200	200	03/28/2023 05:39	WG2031003
trans-1,3-Dichloropropene	U		0.0236	0.200	200	03/28/2023 05:39	WG2031003
Ethylbenzene	0.477		0.0274	0.200	200	03/28/2023 05:39	WG2031003
Isopropylbenzene	0.0861	J	0.0210	0.200	200	03/28/2023 05:39	WG2031003
p-Isopropyltoluene	U		0.0240	0.200	200	03/28/2023 05:39	WG2031003
2-Butanone (MEK)	U		0.238	2.00	200	03/28/2023 05:39	WG2031003
2-Hexanone	U		0.157	2.00	200	03/28/2023 05:39	WG2031003
Methylene Chloride	U		0.0860	1.00	200	03/28/2023 05:39	WG2031003
4-Methyl-2-pentanone (MIBK)	U		0.0956	2.00	200	03/28/2023 05:39	WG2031003
Methyl tert-butyl ether	U		0.0202	0.200	200	03/28/2023 05:39	WG2031003
Naphthalene	U		0.200	1.00	200	03/28/2023 05:39	WG2031003
n-Propylbenzene	0.125	J	0.0199	0.200	200	03/28/2023 05:39	WG2031003
Styrene	U		0.0236	0.200	200	03/28/2023 05:39	WG2031003
tert-Butyl alcohol	U		0.812	1.00	200	03/28/2023 05:39	WG2031003
1,1,1,2-Tetrachloroethane	U		0.0294	0.200	200	03/28/2023 05:39	WG2031003
1,1,2,2-Tetrachloroethane	U		0.0266	0.200	200	03/28/2023 05:39	WG2031003
Tetrachloroethene	U		0.0600	0.200	200	03/28/2023 05:39	WG2031003
Toluene	0.171	J	0.0556	0.200	200	03/28/2023 05:39	WG2031003
1,1,1-Trichloroethane	U		0.0298	0.200	200	03/28/2023 05:39	WG2031003
1,1,2-Trichloroethane	U		0.0316	0.200	200	03/28/2023 05:39	WG2031003
Trichloroethene	U		0.0380	0.200	200	03/28/2023 05:39	WG2031003
1,2,4-Trimethylbenzene	0.495		0.0644	0.200	200	03/28/2023 05:39	WG2031003
1,3,5-Trimethylbenzene	0.105	J	0.0208	0.200	200	03/28/2023 05:39	WG2031003
Vinyl chloride	U		0.0468	0.200	200	03/28/2023 05:39	WG2031003
o-Xylene	U		0.0348	0.200	200	03/28/2023 05:39	WG2031003
m&p-Xylene	1.41		0.0860	0.400	200	03/28/2023 05:39	WG2031003
Xylenes, Total	1.41		0.0348	0.600	200	03/28/2023 05:39	WG2031003
(S) Toluene-d8	*98.1*			*80.0-120*		*03/28/2023 05:39*	WG2031003
(S) 4-Bromofluorobenzene	*83.9*			*77.0-126*		*03/28/2023 05:39*	WG2031003
(S) 1,2-Dichloroethane-d4	*80.1*			*70.0-130*		*03/28/2023 05:39*	WG2031003

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	03/31/2023 06:52	WG2031811
(S) o-Terphenyl	*93.0*			*31.0-160*		*03/31/2023 06:52*	WG2031811

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3020		50.0	1	03/27/2023 23:53	WG2030624

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	512		3.79	10.0	10	03/28/2023 22:32	WG2029184
Fluoride	1.04		0.0640	0.150	1	03/28/2023 22:19	WG2029184
Nitrate	0.0642	B J Q	0.0480	0.100	1	03/28/2023 22:19	WG2029184
Nitrite	0.0525	J Q	0.0420	0.100	1	03/28/2023 22:19	WG2029184
Sulfate	967		5.94	50.0	10	03/28/2023 22:32	WG2029184

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00504		0.000180	0.00200	1	03/26/2023 21:46	WG2029249
Arsenic,Dissolved	0.00478		0.000180	0.00200	1	03/27/2023 22:22	WG2029232
Barium	0.0316		0.000381	0.00200	1	03/26/2023 21:46	WG2029249
Barium,Dissolved	0.0365		0.000381	0.00200	1	03/27/2023 22:22	WG2029232
Calcium	263		0.0936	1.00	1	03/26/2023 21:46	WG2029249
Chromium	U		0.00124	0.00200	1	03/26/2023 21:46	WG2029249
Chromium,Dissolved	0.00159	J	0.00124	0.00200	1	03/27/2023 22:22	WG2029232
Iron	U		0.0281	0.100	1	03/26/2023 21:46	WG2029249
Iron,Dissolved	U		0.0281	0.100	1	03/27/2023 22:22	WG2029232
Lead	U		0.000849	0.00200	1	03/26/2023 21:46	WG2029249
Lead,Dissolved	U		0.000849	0.00200	1	03/27/2023 22:22	WG2029232
Manganese	0.295		0.000704	0.00500	1	03/26/2023 21:46	WG2029249
Manganese,Dissolved	0.301		0.000704	0.00500	1	03/27/2023 22:22	WG2029232
Potassium	0.930	J	0.108	2.00	1	03/26/2023 21:46	WG2029249
Selenium	0.0232		0.000300	0.00200	1	03/27/2023 10:14	WG2029249
Selenium,Dissolved	0.00128	J	0.000300	0.00200	1	03/27/2023 22:22	WG2029232
Sodium	426		0.376	2.00	1	03/26/2023 21:46	WG2029249

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	0.921		0.0314	0.100	1	03/29/2023 02:29	WG2031448
(S) a,a,a-Trifluorotoluene(FID)	*93.5*			*78.0-120*		*03/29/2023 02:29*	WG2031448

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	03/31/2023 02:15	WG2033060
Benzene	0.00245	J	0.000941	0.0100	10	03/31/2023 02:15	WG2033060
Bromodichloromethane	U		0.00136	0.0100	10	03/31/2023 02:15	WG2033060
Bromoform	U		0.00129	0.0100	10	03/31/2023 02:15	WG2033060
Bromomethane	U		0.00605	0.0500	10	03/31/2023 02:15	WG2033060
n-Butylbenzene	U		0.00157	0.0100	10	03/31/2023 02:15	WG2033060
sec-Butylbenzene	0.00504	J	0.00125	0.0100	10	03/31/2023 02:15	WG2033060
Carbon disulfide	0.00272	J	0.000962	0.0100	10	03/31/2023 02:15	WG2033060
Carbon tetrachloride	U		0.00128	0.0100	10	03/31/2023 02:15	WG2033060
Chlorobenzene	U		0.00116	0.0100	10	03/31/2023 02:15	WG2033060
Chlorodibromomethane	U		0.00140	0.0100	10	03/31/2023 02:15	WG2033060
Chloroethane	U		0.00192	0.0500	10	03/31/2023 02:15	WG2033060

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloroform	U		0.00111	0.0500	10	03/31/2023 02:15	WG2033060
Chloromethane	U		0.00960	0.0250	10	03/31/2023 02:15	WG2033060
1,2-Dibromoethane	U		0.00126	0.0100	10	03/31/2023 02:15	WG2033060
1,1-Dichloroethane	U		0.00100	0.0100	10	03/31/2023 02:15	WG2033060
1,2-Dichloroethane	U		0.000819	0.0100	10	03/31/2023 02:15	WG2033060
1,1-Dichloroethene	U		0.00188	0.0100	10	03/31/2023 02:15	WG2033060
cis-1,2-Dichloroethene	U		0.00126	0.0100	10	03/31/2023 02:15	WG2033060
trans-1,2-Dichloroethene	U		0.00149	0.0100	10	03/31/2023 02:15	WG2033060
1,2-Dichloropropane	U		0.00149	0.0100	10	03/31/2023 02:15	WG2033060
cis-1,3-Dichloropropene	U		0.00111	0.0100	10	03/31/2023 02:15	WG2033060
trans-1,3-Dichloropropene	U		0.00118	0.0100	10	03/31/2023 02:15	WG2033060
Ethylbenzene	U		0.00137	0.0100	10	03/31/2023 02:15	WG2033060
Isopropylbenzene	0.0328		0.00105	0.0100	10	03/31/2023 02:15	WG2033060
p-Isopropyltoluene	U		0.00120	0.0100	10	03/31/2023 02:15	WG2033060
2-Butanone (MEK)	U		0.0119	0.100	10	03/31/2023 02:15	WG2033060
2-Hexanone	U	J4	0.00787	0.100	10	03/31/2023 02:15	WG2033060
Methylene Chloride	U		0.00430	0.0500	10	03/31/2023 02:15	WG2033060
4-Methyl-2-pentanone (MIBK)	U	J4	0.00478	0.100	10	03/31/2023 02:15	WG2033060
Methyl tert-butyl ether	0.161		0.00101	0.0100	10	03/31/2023 02:15	WG2033060
Naphthalene	U		0.0100	0.0500	10	03/31/2023 15:14	WG2033449
n-Propylbenzene	U		0.000993	0.0100	10	03/31/2023 02:15	WG2033060
Styrene	U		0.00118	0.0100	10	03/31/2023 02:15	WG2033060
tert-Butyl alcohol	0.165		0.0406	0.0500	10	03/31/2023 02:15	WG2033060
1,1,1,2-Tetrachloroethane	U		0.00147	0.0100	10	03/31/2023 02:15	WG2033060
1,1,2,2-Tetrachloroethane	U		0.00133	0.0100	10	03/31/2023 02:15	WG2033060
Tetrachloroethene	U		0.00300	0.0100	10	03/31/2023 02:15	WG2033060
Toluene	U		0.00278	0.0100	10	03/31/2023 02:15	WG2033060
1,1,1-Trichloroethane	U		0.00149	0.0100	10	03/31/2023 02:15	WG2033060
1,1,2-Trichloroethane	U		0.00158	0.0100	10	03/31/2023 02:15	WG2033060
Trichloroethene	U		0.00190	0.0100	10	03/31/2023 02:15	WG2033060
1,2,4-Trimethylbenzene	U		0.00322	0.0100	10	03/31/2023 02:15	WG2033060
1,3,5-Trimethylbenzene	U		0.00104	0.0100	10	03/31/2023 02:15	WG2033060
Vinyl chloride	U		0.00234	0.0100	10	03/31/2023 02:15	WG2033060
o-Xylene	U		0.00174	0.0100	10	03/31/2023 02:15	WG2033060
m&p-Xylene	U		0.00430	0.0200	10	03/31/2023 02:15	WG2033060
Xylenes, Total	U		0.00174	0.0300	10	03/31/2023 02:15	WG2033060
(S) Toluene-d8	*94.8*			*80.0-120*		*03/31/2023 02:15*	WG2033060
(S) Toluene-d8	*106*			*80.0-120*		*03/31/2023 15:14*	WG2033449
(S) 4-Bromofluorobenzene	*94.9*			*77.0-126*		*03/31/2023 02:15*	WG2033060
(S) 4-Bromofluorobenzene	*106*			*77.0-126*		*03/31/2023 15:14*	WG2033449
(S) 1,2-Dichloroethane-d4	*82.1*			*70.0-130*		*03/31/2023 02:15*	WG2033060
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*03/31/2023 15:14*	WG2033449

EDB / DBCP by Method 8011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Ethylene Dibromide	U		0.00000547	0.0000204	1.02	03/28/2023 19:23	WG2031055

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	5.19		0.0247	0.100	1	03/31/2023 07:15	WG2031811
(S) o-Terphenyl	*116*			*31.0-160*		*03/31/2023 07:15*	WG2031811

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	0.000867		0.0000447	0.000400	1	03/29/2023 12:56	WG2030234
(S) Nitrobenzene-d5	*32.1*			*10.0-120*		*03/29/2023 12:56*	WG2030234

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	03/27/2023 23:53	WG2030624

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	580		3.79	10.0	10	03/28/2023 22:46	WG2029184
Fluoride	1.94	B	0.640	1.50	10	03/28/2023 22:46	WG2029184
Nitrate	0.694	B J Q	0.480	1.00	10	03/28/2023 22:46	WG2029184
Nitrite	0.596	J Q	0.420	1.00	10	03/28/2023 22:46	WG2029184
Sulfate	1730		5.94	50.0	10	03/28/2023 22:46	WG2029184

Sample Narrative:

L1597529-75 WG2029184: Dilution due to matrix.

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	03/30/2023 09:26	WG2031774
Mercury,Dissolved	U		0.000100	0.000200	1	03/30/2023 11:24	WG2031777

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Boron	0.811		0.0200	0.200	1	03/29/2023 15:41	WG2031766
Boron,Dissolved	0.830		0.0200	0.200	1	03/29/2023 17:10	WG2031813

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0370		0.000180	0.00200	1	03/26/2023 21:49	WG2029249
Arsenic,Dissolved	0.0344		0.000180	0.00200	1	03/27/2023 22:25	WG2029232
Barium	0.0177		0.000381	0.00200	1	03/26/2023 21:49	WG2029249
Barium,Dissolved	0.0198		0.000381	0.00200	1	03/27/2023 22:25	WG2029232
Cadmium	U		0.000150	0.00100	1	03/26/2023 21:49	WG2029249
Cadmium,Dissolved	U		0.000150	0.00100	1	03/27/2023 22:25	WG2029232
Calcium	421		0.0936	1.00	1	03/26/2023 21:49	WG2029249
Chromium	U		0.00124	0.00200	1	03/26/2023 21:49	WG2029249
Chromium,Dissolved	U		0.00124	0.00200	1	03/27/2023 22:25	WG2029232
Cobalt	0.000853	J	0.0000596	0.00200	1	03/26/2023 21:49	WG2029249
Cobalt,Dissolved	0.000855	J	0.0000596	0.00200	1	03/27/2023 22:25	WG2029232
Iron	10.9		0.0281	0.100	1	03/26/2023 21:49	WG2029249
Iron,Dissolved	10.9		0.0281	0.100	1	03/27/2023 22:25	WG2029232
Lead	U		0.000849	0.00200	1	03/26/2023 21:49	WG2029249
Lead,Dissolved	U		0.000849	0.00200	1	03/27/2023 22:25	WG2029232
Manganese	0.767		0.000704	0.00500	1	03/26/2023 21:49	WG2029249
Manganese,Dissolved	0.773		0.000704	0.00500	1	03/27/2023 22:25	WG2029232
Nickel	0.00721		0.000816	0.00200	1	03/26/2023 21:49	WG2029249
Nickel,Dissolved	0.00689		0.000816	0.00200	1	03/27/2023 22:25	WG2029232
Potassium	2.21		0.108	2.00	1	03/26/2023 21:49	WG2029249
Selenium	0.00785		0.000300	0.00200	1	03/27/2023 10:18	WG2029249
Selenium,Dissolved	0.00205		0.000300	0.00200	1	03/27/2023 22:25	WG2029232
Sodium	365		0.376	2.00	1	03/26/2023 21:49	WG2029249
Uranium	0.00700		0.0000789	0.00100	1	03/26/2023 21:49	WG2029249
Uranium,Dissolved	0.00878		0.0000789	0.00100	1	03/27/2023 22:25	WG2029232

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Vanadium	0.00767		0.000664	0.00500	1	03/26/2023 21:49	WG2029249
Vanadium,Dissolved	0.00679		0.000664	0.00500	1	03/27/2023 22:25	WG2029232

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	0.108		0.0314	0.100	1	03/29/2023 02:51	WG2031448
(S) a,a,a-Trifluorotoluene(FID)	*108*			*78.0-120*		*03/29/2023 02:51*	WG2031448

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	03/28/2023 04:41	WG2031012
Benzene	U		0.0000941	0.00100	1	03/28/2023 04:41	WG2031012
Bromodichloromethane	U		0.000136	0.00100	1	03/28/2023 04:41	WG2031012
Bromoform	U		0.000129	0.00100	1	03/28/2023 04:41	WG2031012
Bromomethane	U		0.000605	0.00500	1	03/28/2023 04:41	WG2031012
n-Butylbenzene	U		0.000157	0.00100	1	03/28/2023 04:41	WG2031012
sec-Butylbenzene	U		0.000125	0.00100	1	03/28/2023 04:41	WG2031012
Carbon disulfide	U		0.0000962	0.00100	1	03/28/2023 04:41	WG2031012
Carbon tetrachloride	U		0.000128	0.00100	1	03/28/2023 04:41	WG2031012
Chlorobenzene	U		0.000116	0.00100	1	03/28/2023 04:41	WG2031012
Chlorodibromomethane	U		0.000140	0.00100	1	03/28/2023 04:41	WG2031012
Chloroethane	U		0.000192	0.00500	1	03/28/2023 04:41	WG2031012
Chloroform	U		0.000111	0.00500	1	03/28/2023 04:41	WG2031012
Chloromethane	U		0.000960	0.00250	1	03/28/2023 04:41	WG2031012
1,2-Dibromoethane	U		0.000126	0.00100	1	03/28/2023 04:41	WG2031012
1,1-Dichloroethane	U		0.000100	0.00100	1	03/28/2023 04:41	WG2031012
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/28/2023 04:41	WG2031012
1,1-Dichloroethene	U		0.000188	0.00100	1	03/28/2023 04:41	WG2031012
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/28/2023 04:41	WG2031012
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/28/2023 04:41	WG2031012
1,2-Dichloropropane	U		0.000149	0.00100	1	03/28/2023 04:41	WG2031012
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/28/2023 04:41	WG2031012
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/28/2023 04:41	WG2031012
Ethylbenzene	U		0.000137	0.00100	1	03/28/2023 04:41	WG2031012
Isopropylbenzene	U		0.000105	0.00100	1	03/28/2023 04:41	WG2031012
p-Isopropyltoluene	U		0.000120	0.00100	1	03/28/2023 04:41	WG2031012
2-Butanone (MEK)	U		0.00119	0.0100	1	03/28/2023 04:41	WG2031012
2-Hexanone	U		0.000787	0.0100	1	03/28/2023 04:41	WG2031012
Methylene Chloride	U		0.000430	0.00500	1	03/28/2023 04:41	WG2031012
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/28/2023 04:41	WG2031012
Methyl tert-butyl ether	0.0684		0.000101	0.00100	1	03/28/2023 04:41	WG2031012
Naphthalene	U		0.00100	0.00500	1	03/28/2023 04:41	WG2031012
n-Propylbenzene	U		0.0000993	0.00100	1	03/28/2023 04:41	WG2031012
Styrene	U		0.000118	0.00100	1	03/28/2023 04:41	WG2031012
tert-Butyl alcohol	0.0104		0.00406	0.00500	1	03/28/2023 04:41	WG2031012
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/28/2023 04:41	WG2031012
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/28/2023 04:41	WG2031012
Tetrachloroethene	U		0.000300	0.00100	1	03/28/2023 04:41	WG2031012
Toluene	U		0.000278	0.00100	1	03/28/2023 04:41	WG2031012
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/28/2023 04:41	WG2031012
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/28/2023 04:41	WG2031012
Trichloroethene	U		0.000190	0.00100	1	03/28/2023 04:41	WG2031012
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/28/2023 04:41	WG2031012

MW-29
Collected date/time: 03/22/23 09:25
L1597529

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/28/2023 04:41	WG2031012
Vinyl chloride	U		0.000234	0.00100	1	03/28/2023 04:41	WG2031012
o-Xylene	U		0.000174	0.00100	1	03/28/2023 04:41	WG2031012
m&p-Xylene	U		0.000430	0.00200	1	03/28/2023 04:41	WG2031012
Xylenes, Total	U		0.000174	0.00300	1	03/28/2023 04:41	WG2031012
(S) Toluene-d8	*108*			*80.0-120*		*03/28/2023 04:41*	WG2031012
(S) 4-Bromofluorobenzene	*105*			*77.0-126*		*03/28/2023 04:41*	WG2031012
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*		*03/28/2023 04:41*	WG2031012

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	3.96		0.0247	0.100	1	04/01/2023 08:12	WG2031811
(S) o-Terphenyl	*111*			*31.0-160*		*04/01/2023 08:12*	WG2031811

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	3430		50.0	1	03/27/2023 23:53	WG2030624

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	301		3.79	10.0	10	03/24/2023 00:22	WG2029007
Fluoride	U		0.640	1.50	10	03/24/2023 00:22	WG2029007
Nitrate	U		0.480	1.00	10	03/24/2023 00:22	WG2029007
Nitrite	U		0.420	1.00	10	03/24/2023 00:22	WG2029007
Sulfate	1400		5.94	50.0	10	03/24/2023 00:22	WG2029007

Sample Narrative:

L1597529-76 WG2029007: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0253		0.000180	0.00200	1	03/26/2023 22:52	WG2029249
Arsenic,Dissolved	0.0245		0.000180	0.00200	1	03/28/2023 10:57	WG2029233
Barium	0.0303		0.000381	0.00200	1	03/26/2023 22:52	WG2029249
Barium,Dissolved	0.0281		0.000381	0.00200	1	03/28/2023 10:57	WG2029233
Calcium	303		0.0936	1.00	1	03/26/2023 22:52	WG2029249
Chromium	U		0.00124	0.00200	1	03/26/2023 22:52	WG2029249
Chromium,Dissolved	0.00155	J	0.00124	0.00200	1	03/28/2023 10:57	WG2029233
Iron	0.144		0.0281	0.100	1	03/26/2023 22:52	WG2029249
Iron,Dissolved	0.0290	B J	0.0281	0.100	1	03/28/2023 10:57	WG2029233
Lead	0.00217		0.000849	0.00200	1	03/26/2023 22:52	WG2029249
Lead,Dissolved	0.000964	J	0.000849	0.00200	1	03/28/2023 10:57	WG2029233
Manganese	0.774		0.000704	0.00500	1	03/26/2023 22:52	WG2029249
Manganese,Dissolved	0.768		0.000704	0.00500	1	03/28/2023 10:57	WG2029233
Potassium	1.18	J	0.108	2.00	1	03/26/2023 22:52	WG2029249
Selenium	0.00912		0.000300	0.00200	1	03/27/2023 10:21	WG2029249
Selenium,Dissolved	0.00576		0.000300	0.00200	1	03/28/2023 10:57	WG2029233
Sodium	358		0.376	2.00	1	03/26/2023 22:52	WG2029249

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	03/28/2023 05:04	WG2031012
Benzene	U		0.0000941	0.00100	1	03/28/2023 05:04	WG2031012
Bromodichloromethane	U		0.000136	0.00100	1	03/28/2023 05:04	WG2031012
Bromoform	U		0.000129	0.00100	1	03/28/2023 05:04	WG2031012
Bromomethane	U		0.000605	0.00500	1	03/28/2023 05:04	WG2031012
n-Butylbenzene	U		0.000157	0.00100	1	03/28/2023 05:04	WG2031012
sec-Butylbenzene	U		0.000125	0.00100	1	03/28/2023 05:04	WG2031012
Carbon disulfide	U		0.0000962	0.00100	1	03/28/2023 05:04	WG2031012
Carbon tetrachloride	U		0.000128	0.00100	1	03/28/2023 05:04	WG2031012
Chlorobenzene	U		0.000116	0.00100	1	03/28/2023 05:04	WG2031012
Chlorodibromomethane	U		0.000140	0.00100	1	03/28/2023 05:04	WG2031012
Chloroethane	U		0.000192	0.00500	1	03/28/2023 05:04	WG2031012
Chloroform	U		0.000111	0.00500	1	03/28/2023 05:04	WG2031012
Chloromethane	U		0.000960	0.00250	1	03/28/2023 05:04	WG2031012
1,2-Dibromoethane	U		0.000126	0.00100	1	03/28/2023 05:04	WG2031012
1,1-Dichloroethane	U		0.000100	0.00100	1	03/28/2023 05:04	WG2031012

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	03/28/2023 05:04	WG2031012
1,1-Dichloroethene	U		0.000188	0.00100	1	03/28/2023 05:04	WG2031012
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/28/2023 05:04	WG2031012
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/28/2023 05:04	WG2031012
1,2-Dichloropropane	U		0.000149	0.00100	1	03/28/2023 05:04	WG2031012
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/28/2023 05:04	WG2031012
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/28/2023 05:04	WG2031012
Ethylbenzene	U		0.000137	0.00100	1	03/28/2023 05:04	WG2031012
Isopropylbenzene	U		0.000105	0.00100	1	03/28/2023 05:04	WG2031012
p-Isopropyltoluene	U		0.000120	0.00100	1	03/28/2023 05:04	WG2031012
2-Butanone (MEK)	U		0.00119	0.0100	1	03/28/2023 05:04	WG2031012
2-Hexanone	U		0.000787	0.0100	1	03/28/2023 05:04	WG2031012
Methylene Chloride	U		0.000430	0.00500	1	03/28/2023 05:04	WG2031012
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/28/2023 05:04	WG2031012
Methyl tert-butyl ether	0.0764		0.000101	0.00100	1	03/28/2023 05:04	WG2031012
Naphthalene	0.00129	J	0.00100	0.00500	1	03/28/2023 05:04	WG2031012
n-Propylbenzene	U		0.0000993	0.00100	1	03/28/2023 05:04	WG2031012
Styrene	U		0.000118	0.00100	1	03/28/2023 05:04	WG2031012
tert-Butyl alcohol	U		0.00406	0.00500	1	03/28/2023 05:04	WG2031012
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/28/2023 05:04	WG2031012
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/28/2023 05:04	WG2031012
Tetrachloroethene	U		0.000300	0.00100	1	03/28/2023 05:04	WG2031012
Toluene	U		0.000278	0.00100	1	03/28/2023 05:04	WG2031012
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/28/2023 05:04	WG2031012
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/28/2023 05:04	WG2031012
Trichloroethene	U		0.000190	0.00100	1	03/28/2023 05:04	WG2031012
1,2,4-Trimethylbenzene	0.000633	J	0.000322	0.00100	1	03/28/2023 05:04	WG2031012
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/28/2023 05:04	WG2031012
Vinyl chloride	U		0.000234	0.00100	1	03/28/2023 05:04	WG2031012
o-Xylene	U		0.000174	0.00100	1	03/28/2023 05:04	WG2031012
m&p-Xylene	U		0.000430	0.00200	1	03/28/2023 05:04	WG2031012
Xylenes, Total	U		0.000174	0.00300	1	03/28/2023 05:04	WG2031012
(S) Toluene-d8	*109*			*80.0-120*		*03/28/2023 05:04*	WG2031012
(S) 4-Bromofluorobenzene	*105*			*77.0-126*		*03/28/2023 05:04*	WG2031012
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*03/28/2023 05:04*	WG2031012

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	1.43		0.0247	0.100	1	03/31/2023 07:59	WG2031811
(S) o-Terphenyl	*100*			*31.0-160*		*03/31/2023 07:59*	WG2031811

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	0.000367	J	0.0000447	0.000400	1	03/29/2023 13:16	WG2030234
(S) Nitrobenzene-d5	*34.1*			*10.0-120*		*03/29/2023 13:16*	WG2030234

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2270		50.0	1	03/27/2023 23:53	WG2030624

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	128		0.379	1.00	1	03/29/2023 05:55	WG2029188
Fluoride	1.23		0.0640	0.150	1	03/29/2023 05:55	WG2029188
Nitrate	0.610	Q	0.0480	0.100	1	03/29/2023 05:55	WG2029188
Nitrite	U	Q	0.0420	0.100	1	03/29/2023 05:55	WG2029188
Sulfate	1100		11.9	100	20	03/29/2023 06:11	WG2029188

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	03/30/2023 09:28	WG2031774
Mercury,Dissolved	U		0.000100	0.000200	1	03/30/2023 11:27	WG2031777

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	0.175	J	0.0200	0.200	1	03/29/2023 15:49	WG2031766
Boron,Dissolved	0.174	J	0.0200	0.200	1	03/30/2023 20:59	WG2032546

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	03/26/2023 22:56	WG2029249
Arsenic,Dissolved	0.00483		0.000180	0.00200	1	03/28/2023 11:00	WG2029233
Barium	0.00934		0.000381	0.00200	1	03/26/2023 22:56	WG2029249
Barium,Dissolved	0.00966		0.000381	0.00200	1	03/28/2023 11:00	WG2029233
Cadmium	U		0.000150	0.00100	1	03/26/2023 22:56	WG2029249
Cadmium,Dissolved	U		0.000150	0.00100	1	03/28/2023 11:00	WG2029233
Calcium	324		0.0936	1.00	1	03/26/2023 22:56	WG2029249
Chromium	U		0.00124	0.00200	1	03/26/2023 22:56	WG2029249
Chromium,Dissolved	U		0.00124	0.00200	1	03/28/2023 11:00	WG2029233
Cobalt	0.00437		0.0000596	0.00200	1	03/26/2023 22:56	WG2029249
Cobalt,Dissolved	0.00428		0.0000596	0.00200	1	03/28/2023 11:00	WG2029233
Iron	U		0.0281	0.100	1	03/26/2023 22:56	WG2029249
Iron,Dissolved	U		0.0281	0.100	1	03/28/2023 11:00	WG2029233
Lead	U		0.000849	0.00200	1	03/26/2023 22:56	WG2029249
Lead,Dissolved	U		0.000849	0.00200	1	03/28/2023 11:00	WG2029233
Manganese	0.164		0.000704	0.00500	1	03/26/2023 22:56	WG2029249
Manganese,Dissolved	0.167		0.000704	0.00500	1	03/28/2023 11:00	WG2029233
Nickel	0.00503		0.000816	0.00200	1	03/26/2023 22:56	WG2029249
Nickel,Dissolved	0.00575		0.000816	0.00200	1	03/28/2023 11:00	WG2029233
Potassium	1.31	J	0.108	2.00	1	03/26/2023 22:56	WG2029249
Selenium	0.00530		0.000300	0.00200	1	03/27/2023 10:24	WG2029249
Selenium,Dissolved	0.00367		0.000300	0.00200	1	03/28/2023 11:00	WG2029233
Sodium	104		0.376	2.00	1	03/26/2023 22:56	WG2029249
Uranium	0.00803		0.0000789	0.00100	1	03/26/2023 22:56	WG2029249
Uranium,Dissolved	0.00821		0.0000789	0.00100	1	03/28/2023 11:00	WG2029233
Vanadium	0.0186		0.000664	0.00500	1	03/26/2023 22:56	WG2029249
Vanadium,Dissolved	0.0191		0.000664	0.00500	1	03/28/2023 11:00	WG2029233

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	03/28/2023 05:28	WG2031012
Benzene	U		0.0000941	0.00100	1	03/28/2023 05:28	WG2031012
Bromodichloromethane	U		0.000136	0.00100	1	03/28/2023 05:28	WG2031012
Bromoform	U		0.000129	0.00100	1	03/28/2023 05:28	WG2031012
Bromomethane	U		0.000605	0.00500	1	03/28/2023 05:28	WG2031012
n-Butylbenzene	U		0.000157	0.00100	1	03/28/2023 05:28	WG2031012
sec-Butylbenzene	U		0.000125	0.00100	1	03/28/2023 05:28	WG2031012
Carbon disulfide	U		0.0000962	0.00100	1	03/28/2023 05:28	WG2031012
Carbon tetrachloride	U		0.000128	0.00100	1	03/28/2023 05:28	WG2031012
Chlorobenzene	U		0.000116	0.00100	1	03/28/2023 05:28	WG2031012
Chlorodibromomethane	U		0.000140	0.00100	1	03/28/2023 05:28	WG2031012
Chloroethane	U		0.000192	0.00500	1	03/28/2023 05:28	WG2031012
Chloroform	U		0.000111	0.00500	1	03/28/2023 05:28	WG2031012
Chloromethane	U		0.000960	0.00250	1	03/28/2023 05:28	WG2031012
1,2-Dibromoethane	U		0.000126	0.00100	1	03/28/2023 05:28	WG2031012
1,1-Dichloroethane	U		0.000100	0.00100	1	03/28/2023 05:28	WG2031012
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/28/2023 05:28	WG2031012
1,1-Dichloroethene	U		0.000188	0.00100	1	03/28/2023 05:28	WG2031012
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/28/2023 05:28	WG2031012
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/28/2023 05:28	WG2031012
1,2-Dichloropropane	U		0.000149	0.00100	1	03/28/2023 05:28	WG2031012
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/28/2023 05:28	WG2031012
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/28/2023 05:28	WG2031012
Ethylbenzene	U		0.000137	0.00100	1	03/28/2023 05:28	WG2031012
Isopropylbenzene	U		0.000105	0.00100	1	03/28/2023 05:28	WG2031012
p-Isopropyltoluene	U		0.000120	0.00100	1	03/28/2023 05:28	WG2031012
2-Butanone (MEK)	U		0.00119	0.0100	1	03/28/2023 05:28	WG2031012
2-Hexanone	U		0.000787	0.0100	1	03/28/2023 05:28	WG2031012
Methylene Chloride	U		0.000430	0.00500	1	03/28/2023 05:28	WG2031012
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/28/2023 05:28	WG2031012
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/28/2023 05:28	WG2031012
Naphthalene	U		0.00100	0.00500	1	03/28/2023 05:28	WG2031012
n-Propylbenzene	U		0.0000993	0.00100	1	03/28/2023 05:28	WG2031012
Styrene	U		0.000118	0.00100	1	03/28/2023 05:28	WG2031012
tert-Butyl alcohol	U		0.00406	0.00500	1	03/28/2023 05:28	WG2031012
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/28/2023 05:28	WG2031012
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/28/2023 05:28	WG2031012
Tetrachloroethene	U		0.000300	0.00100	1	03/28/2023 05:28	WG2031012
Toluene	U		0.000278	0.00100	1	03/28/2023 05:28	WG2031012
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/28/2023 05:28	WG2031012
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/28/2023 05:28	WG2031012
Trichloroethene	U		0.000190	0.00100	1	03/28/2023 05:28	WG2031012
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/28/2023 05:28	WG2031012
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/28/2023 05:28	WG2031012
Vinyl chloride	U		0.000234	0.00100	1	03/28/2023 05:28	WG2031012
o-Xylene	U		0.000174	0.00100	1	03/28/2023 05:28	WG2031012
m&p-Xylene	U		0.000430	0.00200	1	03/28/2023 05:28	WG2031012
Xylenes, Total	U		0.000174	0.00300	1	03/28/2023 05:28	WG2031012
(S) Toluene-d8	*109*			*80.0-120*		*03/28/2023 05:28*	WG2031012
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*03/28/2023 05:28*	WG2031012
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*03/28/2023 05:28*	WG2031012

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	04/01/2023 01:52	WG2031811

MW-30
Collected date/time: 03/22/23 10:35
L1597529

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	*93.0*			*31.0-160*		*04/01/2023 01:52*	WG2031811

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	4050		50.0	1	03/27/2023 23:53	WG2030624

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	03/27/2023 11:17	WG2028782

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	338		3.79	10.0	10	03/28/2023 23:12	WG2029184
Fluoride	1.86	B	0.640	1.50	10	03/28/2023 23:12	WG2029184
Nitrate	0.654	B J Q	0.480	1.00	10	03/28/2023 23:12	WG2029184
Nitrite	0.508	J Q	0.420	1.00	10	03/28/2023 23:12	WG2029184
Sulfate	2230		59.4	500	100	03/28/2023 23:26	WG2029184

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	03/29/2023 09:38	WG2030401
Mercury,Dissolved	U		0.000100	0.000200	1	03/29/2023 09:17	WG2030839

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	03/24/2023 17:21	WG2029239
Boron,Dissolved	0.584		0.0200	0.200	1	03/28/2023 09:49	WG2030563

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00678		0.000180	0.00200	1	03/27/2023 17:23	WG2029758
Arsenic,Dissolved	0.00660		0.000180	0.00200	1	03/28/2023 11:03	WG2029233
Barium	0.0137		0.000381	0.00200	1	03/27/2023 17:23	WG2029758
Barium,Dissolved	0.0135		0.000381	0.00200	1	03/28/2023 11:03	WG2029233
Cadmium	U		0.000150	0.00100	1	03/27/2023 17:23	WG2029758
Cadmium,Dissolved	U		0.000150	0.00100	1	03/28/2023 11:03	WG2029233
Calcium	525		0.0936	1.00	1	03/27/2023 17:23	WG2029758
Chromium	0.00733	B	0.00124	0.00200	1	03/27/2023 17:23	WG2029758
Chromium,Dissolved	U		0.00124	0.00200	1	03/28/2023 11:03	WG2029233
Cobalt	0.000160	J	0.0000596	0.00200	1	03/27/2023 17:23	WG2029758
Cobalt,Dissolved	U		0.0000596	0.00200	1	03/28/2023 11:03	WG2029233
Iron	4.39		0.0281	0.100	1	03/27/2023 17:23	WG2029758
Iron,Dissolved	4.21		0.0281	0.100	1	03/28/2023 11:03	WG2029233
Lead	0.00500		0.000849	0.00200	1	03/27/2023 17:23	WG2029758
Lead,Dissolved	U		0.000849	0.00200	1	03/28/2023 11:03	WG2029233
Manganese	0.612		0.000704	0.00500	1	03/27/2023 17:23	WG2029758
Manganese,Dissolved	0.607		0.000704	0.00500	1	03/28/2023 11:03	WG2029233
Nickel	0.00743		0.000816	0.00200	1	03/27/2023 19:27	WG2029758
Nickel,Dissolved	0.00491		0.000816	0.00200	1	03/28/2023 11:03	WG2029233
Potassium	4.23		0.108	2.00	1	03/27/2023 17:23	WG2029758
Selenium	0.000698	J	0.000300	0.00200	1	03/27/2023 17:23	WG2029758
Selenium,Dissolved	0.000515	J	0.000300	0.00200	1	03/28/2023 11:03	WG2029233

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Sodium	341		0.376	2.00	1	03/27/2023 17:23	WG2029758
Uranium	0.000526	J	0.0000789	0.00100	1	03/27/2023 17:23	WG2029758
Uranium,Dissolved	0.000476	J	0.0000789	0.00100	1	03/28/2023 11:03	WG2029233
Vanadium	0.00146	J	0.000664	0.00500	1	03/27/2023 17:23	WG2029758
Vanadium,Dissolved	U		0.000664	0.00500	1	03/28/2023 11:03	WG2029233

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	03/28/2023 05:51	WG2031012
Benzene	U		0.0000941	0.00100	1	03/28/2023 05:51	WG2031012
Bromodichloromethane	U		0.000136	0.00100	1	03/28/2023 05:51	WG2031012
Bromoform	U		0.000129	0.00100	1	03/28/2023 05:51	WG2031012
Bromomethane	U		0.000605	0.00500	1	03/28/2023 05:51	WG2031012
n-Butylbenzene	U		0.000157	0.00100	1	03/28/2023 05:51	WG2031012
sec-Butylbenzene	U		0.000125	0.00100	1	03/28/2023 05:51	WG2031012
Carbon disulfide	U		0.0000962	0.00100	1	03/28/2023 05:51	WG2031012
Carbon tetrachloride	U		0.000128	0.00100	1	03/28/2023 05:51	WG2031012
Chlorobenzene	U		0.000116	0.00100	1	03/28/2023 05:51	WG2031012
Chlorodibromomethane	U		0.000140	0.00100	1	03/28/2023 05:51	WG2031012
Chloroethane	U		0.000192	0.00500	1	03/28/2023 05:51	WG2031012
Chloroform	U		0.000111	0.00500	1	03/28/2023 05:51	WG2031012
Chloromethane	U		0.000960	0.00250	1	03/28/2023 05:51	WG2031012
1,2-Dibromoethane	U		0.000126	0.00100	1	03/28/2023 05:51	WG2031012
1,1-Dichloroethane	U		0.000100	0.00100	1	03/28/2023 05:51	WG2031012
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/28/2023 05:51	WG2031012
1,1-Dichloroethene	U		0.000188	0.00100	1	03/28/2023 05:51	WG2031012
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/28/2023 05:51	WG2031012
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/28/2023 05:51	WG2031012
1,2-Dichloropropane	U		0.000149	0.00100	1	03/28/2023 05:51	WG2031012
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/28/2023 05:51	WG2031012
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/28/2023 05:51	WG2031012
Ethylbenzene	U		0.000137	0.00100	1	03/28/2023 05:51	WG2031012
Isopropylbenzene	U		0.000105	0.00100	1	03/28/2023 05:51	WG2031012
p-Isopropyltoluene	U		0.000120	0.00100	1	03/28/2023 05:51	WG2031012
2-Butanone (MEK)	U		0.00119	0.0100	1	03/28/2023 05:51	WG2031012
2-Hexanone	U		0.000787	0.0100	1	03/28/2023 05:51	WG2031012
Methylene Chloride	U		0.000430	0.00500	1	03/28/2023 05:51	WG2031012
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/28/2023 05:51	WG2031012
Methyl tert-butyl ether	0.00674		0.000101	0.00100	1	03/28/2023 05:51	WG2031012
Naphthalene	U		0.00100	0.00500	1	03/28/2023 05:51	WG2031012
n-Propylbenzene	U		0.0000993	0.00100	1	03/28/2023 05:51	WG2031012
Styrene	U		0.000118	0.00100	1	03/28/2023 05:51	WG2031012
tert-Butyl alcohol	U		0.00406	0.00500	1	03/28/2023 05:51	WG2031012
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/28/2023 05:51	WG2031012
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/28/2023 05:51	WG2031012
Tetrachloroethene	U		0.000300	0.00100	1	03/28/2023 05:51	WG2031012
Toluene	U		0.000278	0.00100	1	03/28/2023 05:51	WG2031012
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/28/2023 05:51	WG2031012
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/28/2023 05:51	WG2031012
Trichloroethene	U		0.000190	0.00100	1	03/28/2023 05:51	WG2031012
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/28/2023 05:51	WG2031012
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/28/2023 05:51	WG2031012
Vinyl chloride	U		0.000234	0.00100	1	03/28/2023 05:51	WG2031012
o-Xylene	U		0.000174	0.00100	1	03/28/2023 05:51	WG2031012
m&p-Xylene	U		0.000430	0.00200	1	03/28/2023 05:51	WG2031012

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Xylenes, Total	U		0.000174	0.00300	1	03/28/2023 05:51	WG2031012
(S) Toluene-d8	*109*			*80.0-120*		*03/28/2023 05:51*	WG2031012
(S) 4-Bromofluorobenzene	*107*			*77.0-126*		*03/28/2023 05:51*	WG2031012
(S) 1,2-Dichloroethane-d4	*111*			*70.0-130*		*03/28/2023 05:51*	WG2031012

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	1.11		0.0247	0.100	1	03/31/2023 08:44	WG2031811
(S) o-Terphenyl	*99.5*			*31.0-160*		*03/31/2023 08:44*	WG2031811

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3510		50.0	1	03/27/2023 23:53	WG2030624

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	150		3.79	10.0	10	03/29/2023 06:26	WG2029188
Fluoride	2.71		0.640	1.50	10	03/29/2023 06:26	WG2029188
Nitrate	U	Q	0.480	1.00	10	03/29/2023 06:26	WG2029188
Nitrite	U	Q	0.420	1.00	10	03/29/2023 06:26	WG2029188
Sulfate	1740		5.94	50.0	10	03/29/2023 06:26	WG2029188

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00361		0.000180	0.00200	1	03/26/2023 22:59	WG2029249
Arsenic,Dissolved	0.00389		0.000180	0.00200	1	03/28/2023 11:07	WG2029233
Barium	0.0176		0.000381	0.00200	1	03/26/2023 22:59	WG2029249
Barium,Dissolved	0.0177		0.000381	0.00200	1	03/28/2023 11:07	WG2029233
Calcium	346		0.0936	1.00	1	03/26/2023 22:59	WG2029249
Chromium	0.461		0.00124	0.00200	1	03/26/2023 22:59	WG2029249
Chromium,Dissolved	0.0301		0.00124	0.00200	1	03/28/2023 11:07	WG2029233
Iron	0.905		0.0281	0.100	1	03/26/2023 22:59	WG2029249
Iron,Dissolved	0.121	B	0.0281	0.100	1	03/28/2023 11:07	WG2029233
Lead	U		0.000849	0.00200	1	03/26/2023 22:59	WG2029249
Lead,Dissolved	U		0.000849	0.00200	1	03/28/2023 11:07	WG2029233
Manganese	0.918		0.000704	0.00500	1	03/26/2023 22:59	WG2029249
Manganese,Dissolved	0.939		0.000704	0.00500	1	03/28/2023 11:07	WG2029233
Potassium	0.626	J	0.108	2.00	1	03/26/2023 22:59	WG2029249
Selenium	0.0125		0.000300	0.00200	1	03/27/2023 10:27	WG2029249
Selenium,Dissolved	0.000440	J	0.000300	0.00200	1	03/28/2023 11:07	WG2029233
Sodium	287		0.376	2.00	1	03/26/2023 22:59	WG2029249

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	0.883	J	0.628	2.00	20	03/26/2023 17:57	WG2030303
(S) a,a,a-Trifluorotoluene(FID)	*99.1*			*78.0-120*		*03/26/2023 17:57*	WG2030303

Sample Narrative:

L1597529-79 WG2030303: Elevated RL due to foamy matrix.

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	03/28/2023 10:31	WG2031012
Benzene	0.00645	J	0.00188	0.0200	20	03/28/2023 10:31	WG2031012
Bromodichloromethane	U		0.00272	0.0200	20	03/28/2023 10:31	WG2031012
Bromoform	U		0.00258	0.0200	20	03/28/2023 10:31	WG2031012
Bromomethane	U		0.0121	0.100	20	03/28/2023 10:31	WG2031012
n-Butylbenzene	U		0.00314	0.0200	20	03/28/2023 10:31	WG2031012
sec-Butylbenzene	0.00695	J	0.00250	0.0200	20	03/28/2023 10:31	WG2031012
Carbon disulfide	0.00216	J	0.00192	0.0200	20	03/28/2023 10:31	WG2031012
Carbon tetrachloride	U		0.00256	0.0200	20	03/28/2023 10:31	WG2031012

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	03/28/2023 10:31	WG2031012
Chlorodibromomethane	U		0.00280	0.0200	20	03/28/2023 10:31	WG2031012
Chloroethane	U		0.00384	0.100	20	03/28/2023 10:31	WG2031012
Chloroform	U		0.00222	0.100	20	03/28/2023 10:31	WG2031012
Chloromethane	U		0.0192	0.0500	20	03/28/2023 10:31	WG2031012
1,2-Dibromoethane	U		0.00252	0.0200	20	03/28/2023 10:31	WG2031012
1,1-Dichloroethane	U		0.00200	0.0200	20	03/28/2023 10:31	WG2031012
1,2-Dichloroethane	U		0.00164	0.0200	20	03/28/2023 10:31	WG2031012
1,1-Dichloroethene	U		0.00376	0.0200	20	03/28/2023 10:31	WG2031012
cis-1,2-Dichloroethene	U		0.00252	0.0200	20	03/28/2023 10:31	WG2031012
trans-1,2-Dichloroethene	U		0.00298	0.0200	20	03/28/2023 10:31	WG2031012
1,2-Dichloropropane	U		0.00298	0.0200	20	03/28/2023 10:31	WG2031012
cis-1,3-Dichloropropene	U		0.00222	0.0200	20	03/28/2023 10:31	WG2031012
trans-1,3-Dichloropropene	U		0.00236	0.0200	20	03/28/2023 10:31	WG2031012
Ethylbenzene	U		0.00274	0.0200	20	03/28/2023 10:31	WG2031012
Isopropylbenzene	0.0105	J	0.00210	0.0200	20	03/28/2023 10:31	WG2031012
p-Isopropyltoluene	U		0.00240	0.0200	20	03/28/2023 10:31	WG2031012
2-Butanone (MEK)	U		0.0238	0.200	20	03/28/2023 10:31	WG2031012
2-Hexanone	U		0.0157	0.200	20	03/28/2023 10:31	WG2031012
Methylene Chloride	U		0.00860	0.100	20	03/28/2023 10:31	WG2031012
4-Methyl-2-pentanone (MIBK)	U		0.00956	0.200	20	03/28/2023 10:31	WG2031012
Methyl tert-butyl ether	U		0.00202	0.0200	20	03/28/2023 10:31	WG2031012
Naphthalene	U		0.0200	0.100	20	03/28/2023 10:31	WG2031012
n-Propylbenzene	U		0.00199	0.0200	20	03/28/2023 10:31	WG2031012
Styrene	U		0.00236	0.0200	20	03/28/2023 10:31	WG2031012
tert-Butyl alcohol	U		0.0812	0.100	20	03/28/2023 10:31	WG2031012
1,1,1,2-Tetrachloroethane	U		0.00294	0.0200	20	03/28/2023 10:31	WG2031012
1,1,2,2-Tetrachloroethane	U		0.00266	0.0200	20	03/28/2023 10:31	WG2031012
Tetrachloroethene	U		0.00600	0.0200	20	03/28/2023 10:31	WG2031012
Toluene	U		0.00556	0.0200	20	03/28/2023 10:31	WG2031012
1,1,1-Trichloroethane	U		0.00298	0.0200	20	03/28/2023 10:31	WG2031012
1,1,2-Trichloroethane	U		0.00316	0.0200	20	03/28/2023 10:31	WG2031012
Trichloroethene	U		0.00380	0.0200	20	03/28/2023 10:31	WG2031012
1,2,4-Trimethylbenzene	U		0.00644	0.0200	20	03/28/2023 10:31	WG2031012
1,3,5-Trimethylbenzene	U		0.00208	0.0200	20	03/28/2023 10:31	WG2031012
Vinyl chloride	U		0.00468	0.0200	20	03/28/2023 10:31	WG2031012
o-Xylene	U		0.00348	0.0200	20	03/28/2023 10:31	WG2031012
m&p-Xylene	U		0.00860	0.0400	20	03/28/2023 10:31	WG2031012
Xylenes, Total	U		0.00348	0.0600	20	03/28/2023 10:31	WG2031012
(S) Toluene-d8	*109*			*80.0-120*		*03/28/2023 10:31*	WG2031012
(S) 4-Bromofluorobenzene	*102*			*77.0-126*		*03/28/2023 10:31*	WG2031012
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*		*03/28/2023 10:31*	WG2031012

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	7.46		0.0247	0.100	1	03/31/2023 09:06	WG2031811
(S) o-Terphenyl	*92.5*			*31.0-160*		*03/31/2023 09:06*	WG2031811

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	75.0		50.0	1	03/27/2023 23:53	WG2030624

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	0.397	J P1	0.379	1.00	1	03/28/2023 22:30	WG2029188
Fluoride	U		0.0640	0.150	1	03/28/2023 22:30	WG2029188
Nitrate	0.110	Q	0.0480	0.100	1	03/28/2023 22:30	WG2029188
Nitrite	U	Q	0.0420	0.100	1	03/28/2023 22:30	WG2029188
Sulfate	U		0.594	5.00	1	03/28/2023 22:30	WG2029188

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	03/26/2023 23:02	WG2029249
Arsenic,Dissolved	U		0.000180	0.00200	1	03/28/2023 11:30	WG2029233
Barium	0.000447	J	0.000381	0.00200	1	03/26/2023 23:02	WG2029249
Barium,Dissolved	0.00113	J	0.000381	0.00200	1	03/28/2023 11:30	WG2029233
Calcium	0.177	J	0.0936	1.00	1	03/26/2023 23:02	WG2029249
Chromium	U		0.00124	0.00200	1	03/26/2023 23:02	WG2029249
Chromium,Dissolved	U		0.00124	0.00200	1	03/28/2023 11:30	WG2029233
Iron	U		0.0281	0.100	1	03/26/2023 23:02	WG2029249
Iron,Dissolved	U		0.0281	0.100	1	03/28/2023 11:30	WG2029233
Lead	U		0.000849	0.00200	1	03/26/2023 23:02	WG2029249
Lead,Dissolved	U		0.000849	0.00200	1	03/28/2023 11:30	WG2029233
Manganese	U		0.000704	0.00500	1	03/26/2023 23:02	WG2029249
Manganese,Dissolved	U		0.000704	0.00500	1	03/28/2023 11:30	WG2029233
Potassium	U		0.108	2.00	1	03/26/2023 23:02	WG2029249
Selenium	0.00184	J	0.000300	0.00200	1	03/27/2023 10:31	WG2029249
Selenium,Dissolved	U		0.000300	0.00200	1	03/28/2023 11:30	WG2029233
Sodium	U		0.376	2.00	1	03/26/2023 23:02	WG2029249

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	03/29/2023 03:13	WG2031448
(S) a,a,a-Trifluorotoluene(FID)	*110*			*78.0-120*		*03/29/2023 03:13*	WG2031448

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	03/28/2023 06:14	WG2031012
Benzene	U		0.0000941	0.00100	1	03/28/2023 06:14	WG2031012
Bromodichloromethane	U		0.000136	0.00100	1	03/28/2023 06:14	WG2031012
Bromoform	U		0.000129	0.00100	1	03/28/2023 06:14	WG2031012
Bromomethane	U		0.000605	0.00500	1	03/28/2023 06:14	WG2031012
n-Butylbenzene	U		0.000157	0.00100	1	03/28/2023 06:14	WG2031012
sec-Butylbenzene	U		0.000125	0.00100	1	03/28/2023 06:14	WG2031012
Carbon disulfide	U		0.0000962	0.00100	1	03/28/2023 06:14	WG2031012
Carbon tetrachloride	U		0.000128	0.00100	1	03/28/2023 06:14	WG2031012
Chlorobenzene	U		0.000116	0.00100	1	03/28/2023 06:14	WG2031012
Chlorodibromomethane	U		0.000140	0.00100	1	03/28/2023 06:14	WG2031012
Chloroethane	U		0.000192	0.00500	1	03/28/2023 06:14	WG2031012

EB-TEL-01
Collected date/time: 03/22/23 10:35
L1597529

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloroform	U		0.000111	0.00500	1	03/28/2023 06:14	WG2031012
Chloromethane	U		0.000960	0.00250	1	03/28/2023 06:14	WG2031012
1,2-Dibromoethane	U		0.000126	0.00100	1	03/28/2023 06:14	WG2031012
1,1-Dichloroethane	U		0.000100	0.00100	1	03/28/2023 06:14	WG2031012
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/28/2023 06:14	WG2031012
1,1-Dichloroethene	U		0.000188	0.00100	1	03/28/2023 06:14	WG2031012
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/28/2023 06:14	WG2031012
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/28/2023 06:14	WG2031012
1,2-Dichloropropane	U		0.000149	0.00100	1	03/28/2023 06:14	WG2031012
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/28/2023 06:14	WG2031012
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/28/2023 06:14	WG2031012
Ethylbenzene	U		0.000137	0.00100	1	03/28/2023 06:14	WG2031012
Isopropylbenzene	U		0.000105	0.00100	1	03/28/2023 06:14	WG2031012
p-Isopropyltoluene	U		0.000120	0.00100	1	03/28/2023 06:14	WG2031012
2-Butanone (MEK)	U		0.00119	0.0100	1	03/28/2023 06:14	WG2031012
2-Hexanone	U		0.000787	0.0100	1	03/28/2023 06:14	WG2031012
Methylene Chloride	U		0.000430	0.00500	1	03/28/2023 06:14	WG2031012
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/28/2023 06:14	WG2031012
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/28/2023 06:14	WG2031012
Naphthalene	U		0.00100	0.00500	1	03/28/2023 06:14	WG2031012
n-Propylbenzene	U		0.0000993	0.00100	1	03/28/2023 06:14	WG2031012
Styrene	U		0.000118	0.00100	1	03/28/2023 06:14	WG2031012
tert-Butyl alcohol	U		0.00406	0.00500	1	03/28/2023 06:14	WG2031012
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/28/2023 06:14	WG2031012
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/28/2023 06:14	WG2031012
Tetrachloroethene	U		0.000300	0.00100	1	03/28/2023 06:14	WG2031012
Toluene	U		0.000278	0.00100	1	03/28/2023 06:14	WG2031012
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/28/2023 06:14	WG2031012
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/28/2023 06:14	WG2031012
Trichloroethene	U		0.000190	0.00100	1	03/28/2023 06:14	WG2031012
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/28/2023 06:14	WG2031012
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/28/2023 06:14	WG2031012
Vinyl chloride	U		0.000234	0.00100	1	03/28/2023 06:14	WG2031012
o-Xylene	U		0.000174	0.00100	1	03/28/2023 06:14	WG2031012
m&p-Xylene	U		0.000430	0.00200	1	03/28/2023 06:14	WG2031012
Xylenes, Total	U		0.000174	0.00300	1	03/28/2023 06:14	WG2031012
(S) Toluene-d8	*112*			*80.0-120*		*03/28/2023 06:14*	WG2031012
(S) 4-Bromofluorobenzene	*104*			*77.0-126*		*03/28/2023 06:14*	WG2031012
(S) 1,2-Dichloroethane-d4	*115*			*70.0-130*		*03/28/2023 06:14*	WG2031012

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	0.0340	J	0.0247	0.100	1	03/31/2023 09:28	WG2031811
(S) o-Terphenyl	*89.5*			*31.0-160*		*03/31/2023 09:28*	WG2031811

Received by OCD: 6/12/2024 3:31:05 PM

TRIP BLANK-TLL-01
Collected date/time: 03/22/23 00:00
L1597529

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	03/28/2023 03:31	WG2031012
Benzene	U		0.0000941	0.00100	1	03/28/2023 03:31	WG2031012
Bromodichloromethane	U		0.000136	0.00100	1	03/28/2023 03:31	WG2031012
Bromoform	U		0.000129	0.00100	1	03/28/2023 03:31	WG2031012
Bromomethane	U		0.000605	0.00500	1	03/28/2023 03:31	WG2031012
n-Butylbenzene	U		0.000157	0.00100	1	03/28/2023 03:31	WG2031012
sec-Butylbenzene	U		0.000125	0.00100	1	03/28/2023 03:31	WG2031012
Carbon disulfide	U		0.0000962	0.00100	1	03/28/2023 03:31	WG2031012
Carbon tetrachloride	U		0.000128	0.00100	1	03/28/2023 03:31	WG2031012
Chlorobenzene	U		0.000116	0.00100	1	03/28/2023 03:31	WG2031012
Chlorodibromomethane	U		0.000140	0.00100	1	03/28/2023 03:31	WG2031012
Chloroethane	U		0.000192	0.00500	1	03/28/2023 03:31	WG2031012
Chloroform	U		0.000111	0.00500	1	03/28/2023 03:31	WG2031012
Chloromethane	U		0.000960	0.00250	1	03/28/2023 03:31	WG2031012
1,2-Dibromoethane	U		0.000126	0.00100	1	03/28/2023 03:31	WG2031012
1,1-Dichloroethane	U		0.000100	0.00100	1	03/28/2023 03:31	WG2031012
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/28/2023 03:31	WG2031012
1,1-Dichloroethene	U		0.000188	0.00100	1	03/28/2023 03:31	WG2031012
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/28/2023 03:31	WG2031012
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/28/2023 03:31	WG2031012
1,2-Dichloropropane	U		0.000149	0.00100	1	03/28/2023 03:31	WG2031012
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/28/2023 03:31	WG2031012
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/28/2023 03:31	WG2031012
Ethylbenzene	U		0.000137	0.00100	1	03/28/2023 03:31	WG2031012
Isopropylbenzene	U		0.000105	0.00100	1	03/28/2023 03:31	WG2031012
p-Isopropyltoluene	U		0.000120	0.00100	1	03/28/2023 03:31	WG2031012
2-Butanone (MEK)	U		0.00119	0.0100	1	03/28/2023 03:31	WG2031012
2-Hexanone	U		0.000787	0.0100	1	03/28/2023 03:31	WG2031012
Methylene Chloride	U		0.000430	0.00500	1	03/28/2023 03:31	WG2031012
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/28/2023 03:31	WG2031012
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/28/2023 03:31	WG2031012
Naphthalene	U		0.00100	0.00500	1	03/28/2023 03:31	WG2031012
n-Propylbenzene	U		0.0000993	0.00100	1	03/28/2023 03:31	WG2031012
Styrene	U		0.000118	0.00100	1	03/28/2023 03:31	WG2031012
tert-Butyl alcohol	U		0.00406	0.00500	1	03/28/2023 03:31	WG2031012
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/28/2023 03:31	WG2031012
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/28/2023 03:31	WG2031012
Tetrachloroethene	U		0.000300	0.00100	1	03/28/2023 03:31	WG2031012
Toluene	U		0.000278	0.00100	1	03/28/2023 03:31	WG2031012
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/28/2023 03:31	WG2031012
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/28/2023 03:31	WG2031012
Trichloroethene	U		0.000190	0.00100	1	03/28/2023 03:31	WG2031012
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/28/2023 03:31	WG2031012
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/28/2023 03:31	WG2031012
Vinyl chloride	U		0.000234	0.00100	1	03/28/2023 03:31	WG2031012
o-Xylene	U		0.000174	0.00100	1	03/28/2023 03:31	WG2031012
m&p-Xylene	U		0.000430	0.00200	1	03/28/2023 03:31	WG2031012
Xylenes, Total	U		0.000174	0.00300	1	03/28/2023 03:31	WG2031012
(S) Toluene-d8	*110*			*80.0-120*		*03/28/2023 03:31*	WG2031012
(S) 4-Bromofluorobenzene	*105*			*77.0-126*		*03/28/2023 03:31*	WG2031012
(S) 1,2-Dichloroethane-d4	*113*			*70.0-130*		*03/28/2023 03:31*	WG2031012

Released to Imaging: 6/28/2024 11:23:28 AM

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3830		50.0	1	03/27/2023 23:53	WG2030624

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	139		3.79	10.0	10	03/24/2023 11:31	WG2029428
Fluoride	0.764	J	0.640	1.50	10	03/24/2023 11:31	WG2029428
Nitrate	0.690	B J	0.480	1.00	10	03/24/2023 11:31	WG2029428
Nitrite	U		0.420	1.00	10	03/24/2023 11:31	WG2029428
Sulfate	1720		5.94	50.0	10	03/24/2023 11:31	WG2029428

Sample Narrative:

L1597529-83 WG2029428: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0110		0.000180	0.00200	1	03/29/2023 23:00	WG2032107
Arsenic,Dissolved	0.0107		0.000180	0.00200	1	03/28/2023 11:33	WG2029233
Barium	0.0264		0.000381	0.00200	1	03/29/2023 23:00	WG2032107
Barium,Dissolved	0.0258		0.000381	0.00200	1	03/28/2023 11:33	WG2029233
Calcium	348		0.0936	1.00	1	03/29/2023 23:00	WG2032107
Chromium	U		0.00124	0.00200	1	03/29/2023 23:00	WG2032107
Chromium,Dissolved	U		0.00124	0.00200	1	03/28/2023 11:33	WG2029233
Iron	0.558		0.0281	0.100	1	03/29/2023 23:00	WG2032107
Iron,Dissolved	0.625		0.0281	0.100	1	03/28/2023 11:33	WG2029233
Lead	U		0.000849	0.00200	1	03/30/2023 11:50	WG2032107
Lead,Dissolved	U		0.000849	0.00200	1	03/28/2023 11:33	WG2029233
Manganese	1.72		0.000704	0.00500	1	03/29/2023 23:00	WG2032107
Manganese,Dissolved	1.91		0.000704	0.00500	1	03/28/2023 11:33	WG2029233
Potassium	0.473	B J	0.108	2.00	1	03/29/2023 23:00	WG2032107
Selenium	U		0.000300	0.00200	1	03/29/2023 23:00	WG2032107
Selenium,Dissolved	U		0.000300	0.00200	1	03/28/2023 11:33	WG2029233
Sodium	265		0.376	2.00	1	03/29/2023 23:00	WG2032107

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	0.224		0.0314	0.100	1	03/29/2023 03:35	WG2031448
(S) a,a,a-Trifluorotoluene(FID)	*104*			*78.0-120*		*03/29/2023 03:35*	WG2031448

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	03/28/2023 06:37	WG2031012
Benzene	U		0.0000941	0.00100	1	03/28/2023 06:37	WG2031012
Bromodichloromethane	U		0.000136	0.00100	1	03/28/2023 06:37	WG2031012
Bromoform	U		0.000129	0.00100	1	03/28/2023 06:37	WG2031012
Bromomethane	U		0.000605	0.00500	1	03/28/2023 06:37	WG2031012
n-Butylbenzene	U		0.000157	0.00100	1	03/28/2023 06:37	WG2031012
sec-Butylbenzene	0.00272		0.000125	0.00100	1	03/28/2023 06:37	WG2031012
Carbon disulfide	U		0.0000962	0.00100	1	03/28/2023 06:37	WG2031012
Carbon tetrachloride	U		0.000128	0.00100	1	03/28/2023 06:37	WG2031012

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	0.000607	J	0.000116	0.00100	1	03/28/2023 06:37	WG2031012
Chlorodibromomethane	U		0.000140	0.00100	1	03/28/2023 06:37	WG2031012
Chloroethane	U		0.000192	0.00500	1	03/28/2023 06:37	WG2031012
Chloroform	U		0.000111	0.00500	1	03/28/2023 06:37	WG2031012
Chloromethane	U		0.000960	0.00250	1	03/28/2023 06:37	WG2031012
1,2-Dibromoethane	U		0.000126	0.00100	1	03/28/2023 06:37	WG2031012
1,1-Dichloroethane	U		0.000100	0.00100	1	03/28/2023 06:37	WG2031012
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/28/2023 06:37	WG2031012
1,1-Dichloroethene	U		0.000188	0.00100	1	03/28/2023 06:37	WG2031012
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/28/2023 06:37	WG2031012
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/28/2023 06:37	WG2031012
1,2-Dichloropropane	U		0.000149	0.00100	1	03/28/2023 06:37	WG2031012
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/28/2023 06:37	WG2031012
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/28/2023 06:37	WG2031012
Ethylbenzene	U		0.000137	0.00100	1	03/28/2023 06:37	WG2031012
Isopropylbenzene	U		0.000105	0.00100	1	03/28/2023 06:37	WG2031012
p-Isopropyltoluene	U		0.000120	0.00100	1	03/28/2023 06:37	WG2031012
2-Butanone (MEK)	U		0.00119	0.0100	1	03/28/2023 06:37	WG2031012
2-Hexanone	U		0.000787	0.0100	1	03/28/2023 06:37	WG2031012
Methylene Chloride	U		0.000430	0.00500	1	03/28/2023 06:37	WG2031012
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/28/2023 06:37	WG2031012
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/28/2023 06:37	WG2031012
Naphthalene	U		0.00100	0.00500	1	03/28/2023 06:37	WG2031012
n-Propylbenzene	U		0.0000993	0.00100	1	03/28/2023 06:37	WG2031012
Styrene	U		0.000118	0.00100	1	03/28/2023 06:37	WG2031012
tert-Butyl alcohol	U		0.00406	0.00500	1	03/28/2023 06:37	WG2031012
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/28/2023 06:37	WG2031012
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/28/2023 06:37	WG2031012
Tetrachloroethene	U		0.000300	0.00100	1	03/28/2023 06:37	WG2031012
Toluene	U		0.000278	0.00100	1	03/28/2023 06:37	WG2031012
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/28/2023 06:37	WG2031012
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/28/2023 06:37	WG2031012
Trichloroethene	U		0.000190	0.00100	1	03/28/2023 06:37	WG2031012
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/28/2023 06:37	WG2031012
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/28/2023 06:37	WG2031012
Vinyl chloride	U		0.000234	0.00100	1	03/28/2023 06:37	WG2031012
o-Xylene	U		0.000174	0.00100	1	03/28/2023 06:37	WG2031012
m&p-Xylene	U		0.000430	0.00200	1	03/28/2023 06:37	WG2031012
Xylenes, Total	U		0.000174	0.00300	1	03/28/2023 06:37	WG2031012
(S) Toluene-d8	*101*			*80.0-120*		*03/28/2023 06:37*	WG2031012
(S) 4-Bromofluorobenzene	*97.8*			*77.0-126*		*03/28/2023 06:37*	WG2031012
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*03/28/2023 06:37*	WG2031012

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	0.792		0.0247	0.100	1	03/31/2023 09:51	WG2031811
(S) o-Terphenyl	*101*			*31.0-160*		*03/31/2023 09:51*	WG2031811

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	5750		100	1	03/27/2023 23:53	WG2030624

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	183		3.79	10.0	10	03/29/2023 07:30	WG2029188
Fluoride	3.61		0.640	1.50	10	03/29/2023 07:30	WG2029188
Nitrate	55.7	Q	0.480	1.00	10	03/29/2023 07:30	WG2029188
Nitrite	U	Q	0.420	1.00	10	03/29/2023 07:30	WG2029188
Sulfate	2340		59.4	500	100	03/29/2023 07:46	WG2029188

Sample Narrative:

L1597529-84 WG2029188: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00521		0.000180	0.00200	1	03/29/2023 23:04	WG2032107
Arsenic,Dissolved	0.00370		0.000180	0.00200	1	03/28/2023 11:36	WG2029233
Barium	0.0122		0.000381	0.00200	1	03/29/2023 23:04	WG2032107
Barium,Dissolved	0.0130		0.000381	0.00200	1	03/28/2023 11:36	WG2029233
Calcium	431		0.0936	1.00	1	03/29/2023 23:04	WG2032107
Chromium	0.00163	J	0.00124	0.00200	1	03/29/2023 23:04	WG2032107
Chromium,Dissolved	U		0.00124	0.00200	1	03/28/2023 11:36	WG2029233
Iron	0.396		0.0281	0.100	1	03/29/2023 23:04	WG2032107
Iron,Dissolved	0.0966	B J	0.0281	0.100	1	03/28/2023 11:36	WG2029233
Lead	U		0.000849	0.00200	1	03/30/2023 11:53	WG2032107
Lead,Dissolved	U		0.000849	0.00200	1	03/28/2023 11:36	WG2029233
Manganese	0.655		0.000704	0.00500	1	03/29/2023 23:04	WG2032107
Manganese,Dissolved	0.685		0.000704	0.00500	1	03/28/2023 11:36	WG2029233
Potassium	4.59		0.108	2.00	1	03/29/2023 23:04	WG2032107
Selenium	0.0298		0.000300	0.00200	1	03/29/2023 23:04	WG2032107
Selenium,Dissolved	0.0325		0.000300	0.00200	1	03/28/2023 11:36	WG2029233
Sodium	338		0.376	2.00	1	03/29/2023 23:04	WG2032107

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	03/28/2023 07:01	WG2031012
Benzene	U		0.0000941	0.00100	1	03/28/2023 07:01	WG2031012
Bromodichloromethane	U		0.000136	0.00100	1	03/28/2023 07:01	WG2031012
Bromoform	U		0.000129	0.00100	1	03/28/2023 07:01	WG2031012
Bromomethane	U		0.000605	0.00500	1	03/28/2023 07:01	WG2031012
n-Butylbenzene	U		0.000157	0.00100	1	03/28/2023 07:01	WG2031012
sec-Butylbenzene	0.000333	J	0.000125	0.00100	1	03/28/2023 07:01	WG2031012
Carbon disulfide	U		0.0000962	0.00100	1	03/28/2023 07:01	WG2031012
Carbon tetrachloride	U		0.000128	0.00100	1	03/28/2023 07:01	WG2031012
Chlorobenzene	U		0.000116	0.00100	1	03/28/2023 07:01	WG2031012
Chlorodibromomethane	U		0.000140	0.00100	1	03/28/2023 07:01	WG2031012
Chloroethane	U		0.000192	0.00500	1	03/28/2023 07:01	WG2031012
Chloroform	U		0.000111	0.00500	1	03/28/2023 07:01	WG2031012
Chloromethane	U		0.000960	0.00250	1	03/28/2023 07:01	WG2031012
1,2-Dibromoethane	U		0.000126	0.00100	1	03/28/2023 07:01	WG2031012
1,1-Dichloroethane	U		0.000100	0.00100	1	03/28/2023 07:01	WG2031012

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	03/28/2023 07:01	WG2031012
1,1-Dichloroethene	U		0.000188	0.00100	1	03/28/2023 07:01	WG2031012
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/28/2023 07:01	WG2031012
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/28/2023 07:01	WG2031012
1,2-Dichloropropane	U		0.000149	0.00100	1	03/28/2023 07:01	WG2031012
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/28/2023 07:01	WG2031012
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/28/2023 07:01	WG2031012
Ethylbenzene	U		0.000137	0.00100	1	03/28/2023 07:01	WG2031012
Isopropylbenzene	U		0.000105	0.00100	1	03/28/2023 07:01	WG2031012
p-Isopropyltoluene	U		0.000120	0.00100	1	03/28/2023 07:01	WG2031012
2-Butanone (MEK)	U		0.00119	0.0100	1	03/28/2023 07:01	WG2031012
2-Hexanone	U		0.000787	0.0100	1	03/28/2023 07:01	WG2031012
Methylene Chloride	U		0.000430	0.00500	1	03/28/2023 07:01	WG2031012
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/28/2023 07:01	WG2031012
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/28/2023 07:01	WG2031012
Naphthalene	0.00104	J	0.00100	0.00500	1	03/28/2023 07:01	WG2031012
n-Propylbenzene	U		0.0000993	0.00100	1	03/28/2023 07:01	WG2031012
Styrene	U		0.000118	0.00100	1	03/28/2023 07:01	WG2031012
tert-Butyl alcohol	U		0.00406	0.00500	1	03/28/2023 07:01	WG2031012
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/28/2023 07:01	WG2031012
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/28/2023 07:01	WG2031012
Tetrachloroethene	U		0.000300	0.00100	1	03/28/2023 07:01	WG2031012
Toluene	U		0.000278	0.00100	1	03/28/2023 07:01	WG2031012
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/28/2023 07:01	WG2031012
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/28/2023 07:01	WG2031012
Trichloroethene	U		0.000190	0.00100	1	03/28/2023 07:01	WG2031012
1,2,4-Trimethylbenzene	0.000541	J	0.000322	0.00100	1	03/28/2023 07:01	WG2031012
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/28/2023 07:01	WG2031012
Vinyl chloride	U		0.000234	0.00100	1	03/28/2023 07:01	WG2031012
o-Xylene	U		0.000174	0.00100	1	03/28/2023 07:01	WG2031012
m&p-Xylene	U		0.000430	0.00200	1	03/28/2023 07:01	WG2031012
Xylenes, Total	U		0.000174	0.00300	1	03/28/2023 07:01	WG2031012
(S) Toluene-d8	*105*			*80.0-120*		*03/28/2023 07:01*	WG2031012
(S) 4-Bromofluorobenzene	*101*			*77.0-126*		*03/28/2023 07:01*	WG2031012
(S) 1,2-Dichloroethane-d4	*117*			*70.0-130*		*03/28/2023 07:01*	WG2031012

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	0.265		0.0247	0.100	1	04/01/2023 02:59	WG2031811
(S) o-Terphenyl	*98.0*			*31.0-160*		*04/01/2023 02:59*	WG2031811

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2650		50.0	1	03/27/2023 23:53	WG2030624

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	251		3.79	10.0	10	03/28/2023 23:39	WG2029184
Fluoride	2.06	B	0.640	1.50	10	03/28/2023 23:39	WG2029184
Nitrate	0.705	B J Q	0.480	1.00	10	03/28/2023 23:39	WG2029184
Nitrite	U	Q	0.420	1.00	10	03/28/2023 23:39	WG2029184
Sulfate	1570		5.94	50.0	10	03/28/2023 23:39	WG2029184

Sample Narrative:

L1597529-85 WG2029184: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00523		0.000180	0.00200	1	03/29/2023 23:07	WG2032107
Arsenic,Dissolved	0.00486		0.000180	0.00200	1	03/28/2023 11:39	WG2029233
Barium	0.0200		0.000381	0.00200	1	03/29/2023 23:07	WG2032107
Barium,Dissolved	0.0195		0.000381	0.00200	1	03/28/2023 11:39	WG2029233
Calcium	299		0.0936	1.00	1	03/29/2023 23:07	WG2032107
Chromium	U		0.00124	0.00200	1	03/29/2023 23:07	WG2032107
Chromium,Dissolved	U		0.00124	0.00200	1	03/28/2023 11:39	WG2029233
Iron	U		0.0281	0.100	1	03/29/2023 23:07	WG2032107
Iron,Dissolved	U		0.0281	0.100	1	03/28/2023 11:39	WG2029233
Lead	U		0.000849	0.00200	1	03/30/2023 11:56	WG2032107
Lead,Dissolved	U		0.000849	0.00200	1	03/28/2023 11:39	WG2029233
Manganese	0.0630		0.000704	0.00500	1	03/29/2023 23:07	WG2032107
Manganese,Dissolved	0.0630		0.000704	0.00500	1	03/28/2023 11:39	WG2029233
Potassium	1.06	B J	0.108	2.00	1	03/29/2023 23:07	WG2032107
Selenium	0.000548	J	0.000300	0.00200	1	03/29/2023 23:07	WG2032107
Selenium,Dissolved	0.000579	J	0.000300	0.00200	1	03/28/2023 11:39	WG2029233
Sodium	179		0.376	2.00	1	03/29/2023 23:07	WG2032107

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	03/29/2023 03:57	WG2031448
(S) a,a,a-Trifluorotoluene(FID)	*98.1*			*78.0-120*		*03/29/2023 03:57*	WG2031448

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	03/31/2023 02:36	WG2033060
Benzene	0.00257	J	0.000941	0.0100	10	03/31/2023 02:36	WG2033060
Bromodichloromethane	U		0.00136	0.0100	10	03/31/2023 02:36	WG2033060
Bromoform	U		0.00129	0.0100	10	03/31/2023 02:36	WG2033060
Bromomethane	U		0.00605	0.0500	10	03/31/2023 02:36	WG2033060
n-Butylbenzene	U		0.00157	0.0100	10	03/31/2023 02:36	WG2033060
sec-Butylbenzene	0.00656	J	0.00125	0.0100	10	03/31/2023 02:36	WG2033060
Carbon disulfide	0.00501	J	0.000962	0.0100	10	03/31/2023 02:36	WG2033060
Carbon tetrachloride	U		0.00128	0.0100	10	03/31/2023 02:36	WG2033060

MW-30
Collected date/time: 03/22/23 08:55
L1597529

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	03/31/2023 02:36	WG2033060
Chlorodibromomethane	U		0.00140	0.0100	10	03/31/2023 02:36	WG2033060
Chloroethane	U		0.00192	0.0500	10	03/31/2023 02:36	WG2033060
Chloroform	0.00113	J	0.00111	0.0500	10	03/31/2023 02:36	WG2033060
Chloromethane	U		0.00960	0.0250	10	03/31/2023 02:36	WG2033060
1,2-Dibromoethane	U		0.00126	0.0100	10	03/31/2023 02:36	WG2033060
1,1-Dichloroethane	U		0.00100	0.0100	10	03/31/2023 02:36	WG2033060
1,2-Dichloroethane	U		0.000819	0.0100	10	03/31/2023 02:36	WG2033060
1,1-Dichloroethene	U		0.00188	0.0100	10	03/31/2023 02:36	WG2033060
cis-1,2-Dichloroethene	U		0.00126	0.0100	10	03/31/2023 02:36	WG2033060
trans-1,2-Dichloroethene	U		0.00149	0.0100	10	03/31/2023 02:36	WG2033060
1,2-Dichloropropane	U		0.00149	0.0100	10	03/31/2023 02:36	WG2033060
cis-1,3-Dichloropropene	U		0.00111	0.0100	10	03/31/2023 02:36	WG2033060
trans-1,3-Dichloropropene	U		0.00118	0.0100	10	03/31/2023 02:36	WG2033060
Ethylbenzene	U		0.00137	0.0100	10	03/31/2023 02:36	WG2033060
Isopropylbenzene	0.0346		0.00105	0.0100	10	03/31/2023 02:36	WG2033060
p-Isopropyltoluene	U		0.00120	0.0100	10	03/31/2023 02:36	WG2033060
2-Butanone (MEK)	U		0.0119	0.100	10	03/31/2023 02:36	WG2033060
2-Hexanone	U	J4	0.00787	0.100	10	03/31/2023 02:36	WG2033060
Methylene Chloride	U		0.00430	0.0500	10	03/31/2023 02:36	WG2033060
4-Methyl-2-pentanone (MIBK)	U	J4	0.00478	0.100	10	03/31/2023 02:36	WG2033060
Methyl tert-butyl ether	U		0.00101	0.0100	10	03/31/2023 02:36	WG2033060
Naphthalene	U		0.0100	0.0500	10	03/31/2023 15:36	WG2033449
n-Propylbenzene	0.00581	J	0.000993	0.0100	10	03/31/2023 02:36	WG2033060
Styrene	U		0.00118	0.0100	10	03/31/2023 02:36	WG2033060
tert-Butyl alcohol	U		0.0406	0.0500	10	03/31/2023 02:36	WG2033060
1,1,1,2-Tetrachloroethane	U		0.00147	0.0100	10	03/31/2023 02:36	WG2033060
1,1,2,2-Tetrachloroethane	U		0.00133	0.0100	10	03/31/2023 02:36	WG2033060
Tetrachloroethene	U		0.00300	0.0100	10	03/31/2023 02:36	WG2033060
Toluene	U		0.00278	0.0100	10	03/31/2023 02:36	WG2033060
1,1,1-Trichloroethane	U		0.00149	0.0100	10	03/31/2023 02:36	WG2033060
1,1,2-Trichloroethane	U		0.00158	0.0100	10	03/31/2023 02:36	WG2033060
Trichloroethene	U		0.00190	0.0100	10	03/31/2023 02:36	WG2033060
1,2,4-Trimethylbenzene	U		0.00322	0.0100	10	03/31/2023 02:36	WG2033060
1,3,5-Trimethylbenzene	U		0.00104	0.0100	10	03/31/2023 02:36	WG2033060
Vinyl chloride	U		0.00234	0.0100	10	03/31/2023 02:36	WG2033060
o-Xylene	U		0.00174	0.0100	10	03/31/2023 02:36	WG2033060
m&p-Xylene	U		0.00430	0.0200	10	03/31/2023 02:36	WG2033060
Xylenes, Total	U		0.00174	0.0300	10	03/31/2023 02:36	WG2033060
(S) Toluene-d8	*97.9*			*80.0-120*		*03/31/2023 02:36*	WG2033060
(S) Toluene-d8	*107*			*80.0-120*		*03/31/2023 15:36*	WG2033449
(S) 4-Bromofluorobenzene	*88.6*			*77.0-126*		*03/31/2023 02:36*	WG2033060
(S) 4-Bromofluorobenzene	*111*			*77.0-126*		*03/31/2023 15:36*	WG2033449
(S) 1,2-Dichloroethane-d4	*82.3*			*70.0-130*		*03/31/2023 02:36*	WG2033060
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*03/31/2023 15:36*	WG2033449

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	3.04		0.0247	0.100	1	03/31/2023 10:35	WG2031811
(S) o-Terphenyl	*118*			*31.0-160*		*03/31/2023 10:35*	WG2031811

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	5610		100	1	03/27/2023 23:53	WG2030624

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	423		3.79	10.0	10	03/30/2023 04:21	WG2029199
Fluoride	2.56		0.640	1.50	10	03/30/2023 04:21	WG2029199
Nitrate	U	Q	0.480	1.00	10	03/30/2023 04:21	WG2029199
Nitrite	U	Q	0.420	1.00	10	03/30/2023 04:21	WG2029199
Sulfate	2320		59.4	500	100	03/30/2023 04:37	WG2029199

Sample Narrative:

L1597529-86 WG2029199: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00844		0.000180	0.00200	1	03/29/2023 22:22	WG2032107
Arsenic,Dissolved	0.00779		0.000180	0.00200	1	03/28/2023 11:43	WG2029233
Barium	0.0224		0.000381	0.00200	1	03/29/2023 22:22	WG2032107
Barium,Dissolved	0.0223		0.000381	0.00200	1	03/28/2023 11:43	WG2029233
Calcium	577	V	0.0936	1.00	1	03/29/2023 22:22	WG2032107
Chromium	U		0.00124	0.00200	1	03/29/2023 22:22	WG2032107
Chromium,Dissolved	U		0.00124	0.00200	1	03/28/2023 11:43	WG2029233
Iron	0.0889	J	0.0281	0.100	1	03/29/2023 22:22	WG2032107
Iron,Dissolved	U		0.0281	0.100	1	03/28/2023 11:43	WG2029233
Lead	0.0120		0.000849	0.00200	1	03/29/2023 22:22	WG2032107
Lead,Dissolved	0.00819		0.000849	0.00200	1	03/28/2023 11:43	WG2029233
Manganese	2.08	O1 V	0.000704	0.00500	1	03/29/2023 22:22	WG2032107
Manganese,Dissolved	1.72		0.000704	0.00500	1	03/28/2023 11:43	WG2029233
Potassium	9.15		0.108	2.00	1	03/29/2023 22:22	WG2032107
Selenium	0.00442		0.000300	0.00200	1	03/29/2023 22:22	WG2032107
Selenium,Dissolved	0.00477		0.000300	0.00200	1	03/28/2023 11:43	WG2029233
Sodium	267	O1 V	0.376	2.00	1	03/29/2023 22:22	WG2032107

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	03/29/2023 04:19	WG2031448
(S) a,a,a-Trifluorotoluene(FID)	*109*			*78.0-120*		*03/29/2023 04:19*	WG2031448

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	03/28/2023 07:24	WG2031012
Benzene	U		0.0000941	0.00100	1	03/28/2023 07:24	WG2031012
Bromodichloromethane	U		0.000136	0.00100	1	03/28/2023 07:24	WG2031012
Bromoform	U		0.000129	0.00100	1	03/28/2023 07:24	WG2031012
Bromomethane	U		0.000605	0.00500	1	03/28/2023 07:24	WG2031012
n-Butylbenzene	U		0.000157	0.00100	1	03/28/2023 07:24	WG2031012
sec-Butylbenzene	U		0.000125	0.00100	1	03/28/2023 07:24	WG2031012
Carbon disulfide	U		0.0000962	0.00100	1	03/28/2023 07:24	WG2031012
Carbon tetrachloride	U		0.000128	0.00100	1	03/28/2023 07:24	WG2031012

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	03/28/2023 07:24	WG2031012
Chlorodibromomethane	U		0.000140	0.00100	1	03/28/2023 07:24	WG2031012
Chloroethane	U		0.000192	0.00500	1	03/28/2023 07:24	WG2031012
Chloroform	U		0.000111	0.00500	1	03/28/2023 07:24	WG2031012
Chloromethane	U		0.000960	0.00250	1	03/28/2023 07:24	WG2031012
1,2-Dibromoethane	U		0.000126	0.00100	1	03/28/2023 07:24	WG2031012
1,1-Dichloroethane	U		0.000100	0.00100	1	03/28/2023 07:24	WG2031012
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/28/2023 07:24	WG2031012
1,1-Dichloroethene	U		0.000188	0.00100	1	03/28/2023 07:24	WG2031012
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/28/2023 07:24	WG2031012
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/28/2023 07:24	WG2031012
1,2-Dichloropropane	U		0.000149	0.00100	1	03/28/2023 07:24	WG2031012
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/28/2023 07:24	WG2031012
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/28/2023 07:24	WG2031012
Ethylbenzene	U		0.000137	0.00100	1	03/28/2023 07:24	WG2031012
Isopropylbenzene	U		0.000105	0.00100	1	03/28/2023 07:24	WG2031012
p-Isopropyltoluene	U		0.000120	0.00100	1	03/28/2023 07:24	WG2031012
2-Butanone (MEK)	U		0.00119	0.0100	1	03/28/2023 07:24	WG2031012
2-Hexanone	U		0.000787	0.0100	1	03/28/2023 07:24	WG2031012
Methylene Chloride	U		0.000430	0.00500	1	03/28/2023 07:24	WG2031012
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/28/2023 07:24	WG2031012
Methyl tert-butyl ether	0.0157		0.000101	0.00100	1	03/28/2023 07:24	WG2031012
Naphthalene	U		0.00100	0.00500	1	03/28/2023 07:24	WG2031012
n-Propylbenzene	U		0.0000993	0.00100	1	03/28/2023 07:24	WG2031012
Styrene	U		0.000118	0.00100	1	03/28/2023 07:24	WG2031012
tert-Butyl alcohol	U		0.00406	0.00500	1	03/28/2023 07:24	WG2031012
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/28/2023 07:24	WG2031012
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/28/2023 07:24	WG2031012
Tetrachloroethene	U		0.000300	0.00100	1	03/28/2023 07:24	WG2031012
Toluene	U		0.000278	0.00100	1	03/28/2023 07:24	WG2031012
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/28/2023 07:24	WG2031012
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/28/2023 07:24	WG2031012
Trichloroethene	U		0.000190	0.00100	1	03/28/2023 07:24	WG2031012
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/28/2023 07:24	WG2031012
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/28/2023 07:24	WG2031012
Vinyl chloride	U		0.000234	0.00100	1	03/28/2023 07:24	WG2031012
o-Xylene	U		0.000174	0.00100	1	03/28/2023 07:24	WG2031012
m&p-Xylene	U		0.000430	0.00200	1	03/28/2023 07:24	WG2031012
Xylenes, Total	U		0.000174	0.00300	1	03/28/2023 07:24	WG2031012
(S) Toluene-d8	*108*			*80.0-120*		*03/28/2023 07:24*	WG2031012
(S) 4-Bromofluorobenzene	*102*			*77.0-126*		*03/28/2023 07:24*	WG2031012
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*		*03/28/2023 07:24*	WG2031012

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	03/31/2023 10:58	WG2031811
(S) o-Terphenyl	*97.0*			*31.0-160*		*03/31/2023 10:58*	WG2031811

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	03/29/2023 17:07	WG2030234
(S) Nitrobenzene-d5	*27.8*			*10.0-120*		*03/29/2023 17:07*	WG2030234

Received by OCD: 6/12/2024 3:31:05 PM

MW-34A
Collected date/time: 03/22/23 09:15
L1597529

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	2310		50.0	1	03/27/2023 23:53	WG2030624

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	231		7.58	20.0	20	03/29/2023 00:46	WG2029184
Fluoride	0.890		0.0640	0.150	1	03/29/2023 00:33	WG2029184
Nitrate	0.369	B Q	0.0480	0.100	1	03/29/2023 00:33	WG2029184
Nitrite	U	Q	0.0420	0.100	1	03/29/2023 00:33	WG2029184
Sulfate	1130		11.9	100	20	03/29/2023 00:46	WG2029184

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00303		0.000180	0.00200	1	03/29/2023 23:10	WG2032107
Arsenic,Dissolved	0.00259		0.000180	0.00200	1	03/28/2023 11:46	WG2029233
Barium	0.0170		0.000381	0.00200	1	03/29/2023 23:10	WG2032107
Barium,Dissolved	0.0151		0.000381	0.00200	1	03/28/2023 11:46	WG2029233
Calcium	431		0.0936	1.00	1	03/29/2023 23:10	WG2032107
Chromium	U		0.00124	0.00200	1	03/29/2023 23:10	WG2032107
Chromium,Dissolved	U		0.00124	0.00200	1	03/28/2023 11:46	WG2029233
Iron	U		0.0281	0.100	1	03/29/2023 23:10	WG2032107
Iron,Dissolved	U		0.0281	0.100	1	03/28/2023 11:46	WG2029233
Lead	U		0.000849	0.00200	1	03/30/2023 12:00	WG2032107
Lead,Dissolved	U		0.000849	0.00200	1	03/28/2023 11:46	WG2029233
Manganese	0.561		0.000704	0.00500	1	03/29/2023 23:10	WG2032107
Manganese,Dissolved	0.576		0.000704	0.00500	1	03/28/2023 11:46	WG2029233
Potassium	0.390	B J	0.108	2.00	1	03/29/2023 23:10	WG2032107
Selenium	0.000746	J	0.000300	0.00200	1	03/29/2023 23:10	WG2032107
Selenium,Dissolved	0.00102	J	0.000300	0.00200	1	03/28/2023 11:46	WG2029233
Sodium	67.7		0.376	2.00	1	03/29/2023 23:10	WG2032107

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	03/28/2023 07:47	WG2031012
Benzene	U		0.0000941	0.00100	1	03/28/2023 07:47	WG2031012
Bromodichloromethane	U		0.000136	0.00100	1	03/28/2023 07:47	WG2031012
Bromoform	U		0.000129	0.00100	1	03/28/2023 07:47	WG2031012
Bromomethane	U		0.000605	0.00500	1	03/28/2023 07:47	WG2031012
n-Butylbenzene	U		0.000157	0.00100	1	03/28/2023 07:47	WG2031012
sec-Butylbenzene	U		0.000125	0.00100	1	03/28/2023 07:47	WG2031012
Carbon disulfide	U		0.0000962	0.00100	1	03/28/2023 07:47	WG2031012
Carbon tetrachloride	U		0.000128	0.00100	1	03/28/2023 07:47	WG2031012
Chlorobenzene	U		0.000116	0.00100	1	03/28/2023 07:47	WG2031012
Chlorodibromomethane	U		0.000140	0.00100	1	03/28/2023 07:47	WG2031012
Chloroethane	U		0.000192	0.00500	1	03/28/2023 07:47	WG2031012
Chloroform	U		0.000111	0.00500	1	03/28/2023 07:47	WG2031012
Chloromethane	U		0.000960	0.00250	1	03/28/2023 07:47	WG2031012
1,2-Dibromoethane	U		0.000126	0.00100	1	03/28/2023 07:47	WG2031012
1,1-Dichloroethane	U		0.000100	0.00100	1	03/28/2023 07:47	WG2031012
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/28/2023 07:47	WG2031012
1,1-Dichloroethene	U		0.000188	0.00100	1	03/28/2023 07:47	WG2031012
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/28/2023 07:47	WG2031012

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Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/28/2023 07:47	WG2031012
1,2-Dichloropropane	U		0.000149	0.00100	1	03/28/2023 07:47	WG2031012
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/28/2023 07:47	WG2031012
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/28/2023 07:47	WG2031012
Ethylbenzene	U		0.000137	0.00100	1	03/28/2023 07:47	WG2031012
Isopropylbenzene	U		0.000105	0.00100	1	03/28/2023 07:47	WG2031012
p-Isopropyltoluene	U		0.000120	0.00100	1	03/28/2023 07:47	WG2031012
2-Butanone (MEK)	U		0.00119	0.0100	1	03/28/2023 07:47	WG2031012
2-Hexanone	U		0.000787	0.0100	1	03/28/2023 07:47	WG2031012
Methylene Chloride	U		0.000430	0.00500	1	03/28/2023 07:47	WG2031012
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/28/2023 07:47	WG2031012
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/28/2023 07:47	WG2031012
Naphthalene	U		0.00100	0.00500	1	03/28/2023 07:47	WG2031012
n-Propylbenzene	U		0.0000993	0.00100	1	03/28/2023 07:47	WG2031012
Styrene	U		0.000118	0.00100	1	03/28/2023 07:47	WG2031012
tert-Butyl alcohol	U		0.00406	0.00500	1	03/28/2023 07:47	WG2031012
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/28/2023 07:47	WG2031012
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/28/2023 07:47	WG2031012
Tetrachloroethene	U		0.000300	0.00100	1	03/28/2023 07:47	WG2031012
Toluene	U		0.000278	0.00100	1	03/28/2023 07:47	WG2031012
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/28/2023 07:47	WG2031012
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/28/2023 07:47	WG2031012
Trichloroethene	U		0.000190	0.00100	1	03/28/2023 07:47	WG2031012
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/28/2023 07:47	WG2031012
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/28/2023 07:47	WG2031012
Vinyl chloride	U		0.000234	0.00100	1	03/28/2023 07:47	WG2031012
o-Xylene	U		0.000174	0.00100	1	03/28/2023 07:47	WG2031012
m&p-Xylene	U		0.000430	0.00200	1	03/28/2023 07:47	WG2031012
Xylenes, Total	U		0.000174	0.00300	1	03/28/2023 07:47	WG2031012
(S) Toluene-d8	*105*			*80.0-120*		*03/28/2023 07:47*	WG2031012
(S) 4-Bromofluorobenzene	*101*			*77.0-126*		*03/28/2023 07:47*	WG2031012
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*		*03/28/2023 07:47*	WG2031012

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	2.57		0.0247	0.100	1	03/31/2023 11:20	WG2031811
(S) o-Terphenyl	*103*			*31.0-160*		*03/31/2023 11:20*	WG2031811

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2900		50.0	1	03/27/2023 23:53	WG2030624

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	214		3.79	10.0	10	03/24/2023 01:57	WG2029007
Fluoride	U		0.640	1.50	10	03/24/2023 01:57	WG2029007
Nitrate	2.82		0.480	1.00	10	03/24/2023 01:57	WG2029007
Nitrite	U		0.420	1.00	10	03/24/2023 01:57	WG2029007
Sulfate	1490		5.94	50.0	10	03/24/2023 01:57	WG2029007

Sample Narrative:

L1597529-88 WG2029007: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00220		0.000180	0.00200	1	03/29/2023 23:13	WG2032107
Arsenic,Dissolved	0.00175	J	0.000180	0.00200	1	03/28/2023 11:49	WG2029233
Barium	0.0239		0.000381	0.00200	1	03/29/2023 23:13	WG2032107
Barium,Dissolved	0.0230		0.000381	0.00200	1	03/28/2023 11:49	WG2029233
Calcium	473		0.0936	1.00	1	03/29/2023 23:13	WG2032107
Chromium	U		0.00124	0.00200	1	03/29/2023 23:13	WG2032107
Chromium,Dissolved	U		0.00124	0.00200	1	03/28/2023 11:49	WG2029233
Iron	U		0.0281	0.100	1	03/29/2023 23:13	WG2032107
Iron,Dissolved	U		0.0281	0.100	1	03/28/2023 11:49	WG2029233
Lead	U		0.000849	0.00200	1	03/30/2023 12:03	WG2032107
Lead,Dissolved	U		0.000849	0.00200	1	03/28/2023 11:49	WG2029233
Manganese	1.16		0.000704	0.00500	1	03/29/2023 23:13	WG2032107
Manganese,Dissolved	1.15		0.000704	0.00500	1	03/28/2023 11:49	WG2029233
Potassium	1.51	B J	0.108	2.00	1	03/29/2023 23:13	WG2032107
Selenium	0.00117	J	0.000300	0.00200	1	03/29/2023 23:13	WG2032107
Selenium,Dissolved	0.000985	J	0.000300	0.00200	1	03/28/2023 11:49	WG2029233
Sodium	86.8		0.376	2.00	1	03/29/2023 23:13	WG2032107

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	03/29/2023 04:41	WG2031448
(S) a,a,a-Trifluorotoluene(FID)	*111*			*78.0-120*		*03/29/2023 04:41*	WG2031448

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	03/28/2023 08:11	WG2031012
Benzene	U		0.0000941	0.00100	1	03/28/2023 08:11	WG2031012
Bromodichloromethane	U		0.000136	0.00100	1	03/28/2023 08:11	WG2031012
Bromoform	U		0.000129	0.00100	1	03/28/2023 08:11	WG2031012
Bromomethane	U		0.000605	0.00500	1	03/28/2023 08:11	WG2031012
n-Butylbenzene	U		0.000157	0.00100	1	03/28/2023 08:11	WG2031012
sec-Butylbenzene	U		0.000125	0.00100	1	03/28/2023 08:11	WG2031012
Carbon disulfide	U		0.0000962	0.00100	1	03/28/2023 08:11	WG2031012
Carbon tetrachloride	U		0.000128	0.00100	1	03/28/2023 08:11	WG2031012

Received by OCD: 6/12/2024 3:31:05 PM

MW-34B
Collected date/time: 03/22/23 08:25
L1597529

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	03/28/2023 08:11	WG2031012
Chlorodibromomethane	U		0.000140	0.00100	1	03/28/2023 08:11	WG2031012
Chloroethane	U		0.000192	0.00500	1	03/28/2023 08:11	WG2031012
Chloroform	U		0.000111	0.00500	1	03/28/2023 08:11	WG2031012
Chloromethane	U		0.000960	0.00250	1	03/28/2023 08:11	WG2031012
1,2-Dibromoethane	U		0.000126	0.00100	1	03/28/2023 08:11	WG2031012
1,1-Dichloroethane	U		0.000100	0.00100	1	03/28/2023 08:11	WG2031012
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/28/2023 08:11	WG2031012
1,1-Dichloroethene	U		0.000188	0.00100	1	03/28/2023 08:11	WG2031012
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/28/2023 08:11	WG2031012
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/28/2023 08:11	WG2031012
1,2-Dichloropropane	U		0.000149	0.00100	1	03/28/2023 08:11	WG2031012
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/28/2023 08:11	WG2031012
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/28/2023 08:11	WG2031012
Ethylbenzene	U		0.000137	0.00100	1	03/28/2023 08:11	WG2031012
Isopropylbenzene	U		0.000105	0.00100	1	03/28/2023 08:11	WG2031012
p-Isopropyltoluene	U		0.000120	0.00100	1	03/28/2023 08:11	WG2031012
2-Butanone (MEK)	U		0.00119	0.0100	1	03/28/2023 08:11	WG2031012
2-Hexanone	U		0.000787	0.0100	1	03/28/2023 08:11	WG2031012
Methylene Chloride	U		0.000430	0.00500	1	03/28/2023 08:11	WG2031012
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/28/2023 08:11	WG2031012
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/28/2023 08:11	WG2031012
Naphthalene	U		0.00100	0.00500	1	03/28/2023 08:11	WG2031012
n-Propylbenzene	U		0.0000993	0.00100	1	03/28/2023 08:11	WG2031012
Styrene	U		0.000118	0.00100	1	03/28/2023 08:11	WG2031012
tert-Butyl alcohol	U		0.00406	0.00500	1	03/28/2023 08:11	WG2031012
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/28/2023 08:11	WG2031012
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/28/2023 08:11	WG2031012
Tetrachloroethene	U		0.000300	0.00100	1	03/28/2023 08:11	WG2031012
Toluene	U		0.000278	0.00100	1	03/28/2023 08:11	WG2031012
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/28/2023 08:11	WG2031012
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/28/2023 08:11	WG2031012
Trichloroethene	U		0.000190	0.00100	1	03/28/2023 08:11	WG2031012
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/28/2023 08:11	WG2031012
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/28/2023 08:11	WG2031012
Vinyl chloride	U		0.000234	0.00100	1	03/28/2023 08:11	WG2031012
o-Xylene	U		0.000174	0.00100	1	03/28/2023 08:11	WG2031012
m&p-Xylene	U		0.000430	0.00200	1	03/28/2023 08:11	WG2031012
Xylenes, Total	U		0.000174	0.00300	1	03/28/2023 08:11	WG2031012
(S) Toluene-d8	*107*			*80.0-120*		*03/28/2023 08:11*	WG2031012
(S) 4-Bromofluorobenzene	*104*			*77.0-126*		*03/28/2023 08:11*	WG2031012
(S) 1,2-Dichloroethane-d4	*111*			*70.0-130*		*03/28/2023 08:11*	WG2031012

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	1.09		0.0247	0.100	1	03/31/2023 11:42	WG2031811
(S) o-Terphenyl	*101*			*31.0-160*		*03/31/2023 11:42*	WG2031811

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	03/29/2023 18:24	WG2030234
(S) Nitrobenzene-d5	*25.1*			*10.0-120*		*03/29/2023 18:24*	WG2030234

Released to Imaging: 6/28/2024 11:23:28 AM

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3130	J3	50.0	1	03/27/2023 23:53	WG2030624

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	189		3.79	10.0	10	03/29/2023 08:02	WG2029188
Fluoride	1.51		0.640	1.50	10	03/29/2023 08:02	WG2029188
Nitrate	12.3	Q	0.480	1.00	10	03/29/2023 08:02	WG2029188
Nitrite	U	Q	0.420	1.00	10	03/29/2023 08:02	WG2029188
Sulfate	1920		5.94	50.0	10	03/29/2023 08:02	WG2029188

Sample Narrative:

L1597529-89 WG2029188: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00180	J	0.000180	0.00200	1	03/29/2023 23:17	WG2032107
Arsenic,Dissolved	0.00141	J	0.000180	0.00200	1	03/28/2023 11:52	WG2029233
Barium	0.0140		0.000381	0.00200	1	03/29/2023 23:17	WG2032107
Barium,Dissolved	0.0126		0.000381	0.00200	1	03/28/2023 11:52	WG2029233
Calcium	503		0.0936	1.00	1	03/29/2023 23:17	WG2032107
Chromium	U		0.00124	0.00200	1	03/29/2023 23:17	WG2032107
Chromium,Dissolved	U		0.00124	0.00200	1	03/28/2023 11:52	WG2029233
Iron	U		0.0281	0.100	1	03/29/2023 23:17	WG2032107
Iron,Dissolved	U		0.0281	0.100	1	03/28/2023 11:52	WG2029233
Lead	U		0.000849	0.00200	1	03/30/2023 12:06	WG2032107
Lead,Dissolved	U		0.000849	0.00200	1	03/28/2023 11:52	WG2029233
Manganese	0.000707	J	0.000704	0.00500	1	03/29/2023 23:17	WG2032107
Manganese,Dissolved	U		0.000704	0.00500	1	03/28/2023 11:52	WG2029233
Potassium	0.643	B J	0.108	2.00	1	03/29/2023 23:17	WG2032107
Selenium	0.0140		0.000300	0.00200	1	03/29/2023 23:17	WG2032107
Selenium,Dissolved	0.0145		0.000300	0.00200	1	03/28/2023 11:52	WG2029233
Sodium	161		0.376	2.00	1	03/29/2023 23:17	WG2032107

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	03/28/2023 08:34	WG2031012
Benzene	U		0.0000941	0.00100	1	03/28/2023 08:34	WG2031012
Bromodichloromethane	U		0.000136	0.00100	1	03/28/2023 08:34	WG2031012
Bromoform	U		0.000129	0.00100	1	03/28/2023 08:34	WG2031012
Bromomethane	U		0.000605	0.00500	1	03/28/2023 08:34	WG2031012
n-Butylbenzene	U		0.000157	0.00100	1	03/28/2023 08:34	WG2031012
sec-Butylbenzene	U		0.000125	0.00100	1	03/28/2023 08:34	WG2031012
Carbon disulfide	U		0.0000962	0.00100	1	03/28/2023 08:34	WG2031012
Carbon tetrachloride	U		0.000128	0.00100	1	03/28/2023 08:34	WG2031012
Chlorobenzene	U		0.000116	0.00100	1	03/28/2023 08:34	WG2031012
Chlorodibromomethane	U		0.000140	0.00100	1	03/28/2023 08:34	WG2031012
Chloroethane	U		0.000192	0.00500	1	03/28/2023 08:34	WG2031012
Chloroform	U		0.000111	0.00500	1	03/28/2023 08:34	WG2031012
Chloromethane	U		0.000960	0.00250	1	03/28/2023 08:34	WG2031012
1,2-Dibromoethane	U		0.000126	0.00100	1	03/28/2023 08:34	WG2031012
1,1-Dichloroethane	U		0.000100	0.00100	1	03/28/2023 08:34	WG2031012

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	03/28/2023 08:34	WG2031012
1,1-Dichloroethene	U		0.000188	0.00100	1	03/28/2023 08:34	WG2031012
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/28/2023 08:34	WG2031012
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/28/2023 08:34	WG2031012
1,2-Dichloropropane	U		0.000149	0.00100	1	03/28/2023 08:34	WG2031012
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/28/2023 08:34	WG2031012
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/28/2023 08:34	WG2031012
Ethylbenzene	U		0.000137	0.00100	1	03/28/2023 08:34	WG2031012
Isopropylbenzene	U		0.000105	0.00100	1	03/28/2023 08:34	WG2031012
p-Isopropyltoluene	U		0.000120	0.00100	1	03/28/2023 08:34	WG2031012
2-Butanone (MEK)	U		0.00119	0.0100	1	03/28/2023 08:34	WG2031012
2-Hexanone	U		0.000787	0.0100	1	03/28/2023 08:34	WG2031012
Methylene Chloride	U		0.000430	0.00500	1	03/28/2023 08:34	WG2031012
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/28/2023 08:34	WG2031012
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/28/2023 08:34	WG2031012
Naphthalene	U		0.00100	0.00500	1	03/28/2023 08:34	WG2031012
n-Propylbenzene	U		0.0000993	0.00100	1	03/28/2023 08:34	WG2031012
Styrene	U		0.000118	0.00100	1	03/28/2023 08:34	WG2031012
tert-Butyl alcohol	U		0.00406	0.00500	1	03/28/2023 08:34	WG2031012
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/28/2023 08:34	WG2031012
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/28/2023 08:34	WG2031012
Tetrachloroethene	U		0.000300	0.00100	1	03/28/2023 08:34	WG2031012
Toluene	U		0.000278	0.00100	1	03/28/2023 08:34	WG2031012
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/28/2023 08:34	WG2031012
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/28/2023 08:34	WG2031012
Trichloroethene	U		0.000190	0.00100	1	03/28/2023 08:34	WG2031012
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/28/2023 08:34	WG2031012
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/28/2023 08:34	WG2031012
Vinyl chloride	U		0.000234	0.00100	1	03/28/2023 08:34	WG2031012
o-Xylene	U		0.000174	0.00100	1	03/28/2023 08:34	WG2031012
m&p-Xylene	U		0.000430	0.00200	1	03/28/2023 08:34	WG2031012
Xylenes, Total	U		0.000174	0.00300	1	03/28/2023 08:34	WG2031012
(S) Toluene-d8	*108*			*80.0-120*		*03/28/2023 08:34*	WG2031012
(S) 4-Bromofluorobenzene	*102*			*77.0-126*		*03/28/2023 08:34*	WG2031012
(S) 1,2-Dichloroethane-d4	*116*			*70.0-130*		*03/28/2023 08:34*	WG2031012

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	0.0256	J	0.0247	0.100	1	03/30/2023 13:05	WG2031812
(S) o-Terphenyl	*101*			*31.0-160*		*03/30/2023 13:05*	WG2031812

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3810		50.0	1	03/27/2023 22:55	WG2030626

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	189		3.79	10.0	10	03/29/2023 01:00	WG2029184
Fluoride	1.21	B J	0.640	1.50	10	03/29/2023 01:00	WG2029184
Nitrate	11.4	Q	0.480	1.00	10	03/29/2023 01:00	WG2029184
Nitrite	U	Q	0.420	1.00	10	03/29/2023 01:00	WG2029184
Sulfate	1970		59.4	500	100	03/29/2023 01:13	WG2029184

Sample Narrative:

L1597529-90 WG2029184: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00164	J	0.000180	0.00200	1	03/29/2023 23:20	WG2032107
Arsenic,Dissolved	0.00154	J	0.000180	0.00200	1	03/28/2023 11:56	WG2029233
Barium	0.0133		0.000381	0.00200	1	03/29/2023 23:20	WG2032107
Barium,Dissolved	0.0134		0.000381	0.00200	1	03/28/2023 11:56	WG2029233
Calcium	496		0.0936	1.00	1	03/29/2023 23:20	WG2032107
Chromium	U		0.00124	0.00200	1	03/29/2023 23:20	WG2032107
Chromium,Dissolved	U		0.00124	0.00200	1	03/28/2023 11:56	WG2029233
Iron	U		0.0281	0.100	1	03/29/2023 23:20	WG2032107
Iron,Dissolved	U		0.0281	0.100	1	03/28/2023 11:56	WG2029233
Lead	U		0.000849	0.00200	1	03/30/2023 12:10	WG2032107
Lead,Dissolved	U		0.000849	0.00200	1	03/28/2023 11:56	WG2029233
Manganese	U		0.000704	0.00500	1	03/29/2023 23:20	WG2032107
Manganese,Dissolved	U		0.000704	0.00500	1	03/28/2023 11:56	WG2029233
Potassium	0.571	B J	0.108	2.00	1	03/29/2023 23:20	WG2032107
Selenium	0.0135		0.000300	0.00200	1	03/29/2023 23:20	WG2032107
Selenium,Dissolved	0.0162		0.000300	0.00200	1	03/28/2023 11:56	WG2029233
Sodium	160		0.376	2.00	1	03/29/2023 23:20	WG2032107

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	03/28/2023 08:58	WG2031012
Benzene	U		0.0000941	0.00100	1	03/28/2023 08:58	WG2031012
Bromodichloromethane	U		0.000136	0.00100	1	03/28/2023 08:58	WG2031012
Bromoform	U		0.000129	0.00100	1	03/28/2023 08:58	WG2031012
Bromomethane	U		0.000605	0.00500	1	03/28/2023 08:58	WG2031012
n-Butylbenzene	U		0.000157	0.00100	1	03/28/2023 08:58	WG2031012
sec-Butylbenzene	U		0.000125	0.00100	1	03/28/2023 08:58	WG2031012
Carbon disulfide	U		0.0000962	0.00100	1	03/28/2023 08:58	WG2031012
Carbon tetrachloride	U		0.000128	0.00100	1	03/28/2023 08:58	WG2031012
Chlorobenzene	U		0.000116	0.00100	1	03/28/2023 08:58	WG2031012
Chlorodibromomethane	U		0.000140	0.00100	1	03/28/2023 08:58	WG2031012
Chloroethane	U		0.000192	0.00500	1	03/28/2023 08:58	WG2031012
Chloroform	U		0.000111	0.00500	1	03/28/2023 08:58	WG2031012
Chloromethane	U		0.000960	0.00250	1	03/28/2023 08:58	WG2031012
1,2-Dibromoethane	U		0.000126	0.00100	1	03/28/2023 08:58	WG2031012
1,1-Dichloroethane	U		0.000100	0.00100	1	03/28/2023 08:58	WG2031012

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	03/28/2023 08:58	WG2031012
1,1-Dichloroethene	U		0.000188	0.00100	1	03/28/2023 08:58	WG2031012
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/28/2023 08:58	WG2031012
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/28/2023 08:58	WG2031012
1,2-Dichloropropane	U		0.000149	0.00100	1	03/28/2023 08:58	WG2031012
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/28/2023 08:58	WG2031012
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/28/2023 08:58	WG2031012
Ethylbenzene	U		0.000137	0.00100	1	03/28/2023 08:58	WG2031012
Isopropylbenzene	U		0.000105	0.00100	1	03/28/2023 08:58	WG2031012
p-Isopropyltoluene	U		0.000120	0.00100	1	03/28/2023 08:58	WG2031012
2-Butanone (MEK)	U		0.00119	0.0100	1	03/28/2023 08:58	WG2031012
2-Hexanone	U		0.000787	0.0100	1	03/28/2023 08:58	WG2031012
Methylene Chloride	U		0.000430	0.00500	1	03/28/2023 08:58	WG2031012
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/28/2023 08:58	WG2031012
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/28/2023 08:58	WG2031012
Naphthalene	U		0.00100	0.00500	1	03/28/2023 08:58	WG2031012
n-Propylbenzene	U		0.0000993	0.00100	1	03/28/2023 08:58	WG2031012
Styrene	U		0.000118	0.00100	1	03/28/2023 08:58	WG2031012
tert-Butyl alcohol	U		0.00406	0.00500	1	03/28/2023 08:58	WG2031012
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/28/2023 08:58	WG2031012
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/28/2023 08:58	WG2031012
Tetrachloroethene	U		0.000300	0.00100	1	03/28/2023 08:58	WG2031012
Toluene	U		0.000278	0.00100	1	03/28/2023 08:58	WG2031012
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/28/2023 08:58	WG2031012
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/28/2023 08:58	WG2031012
Trichloroethene	U		0.000190	0.00100	1	03/28/2023 08:58	WG2031012
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/28/2023 08:58	WG2031012
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/28/2023 08:58	WG2031012
Vinyl chloride	U		0.000234	0.00100	1	03/28/2023 08:58	WG2031012
o-Xylene	U		0.000174	0.00100	1	03/28/2023 08:58	WG2031012
m&p-Xylene	U		0.000430	0.00200	1	03/28/2023 08:58	WG2031012
Xylenes, Total	U		0.000174	0.00300	1	03/28/2023 08:58	WG2031012
(S) Toluene-d8	*109*			*80.0-120*		*03/28/2023 08:58*	WG2031012
(S) 4-Bromofluorobenzene	*105*			*77.0-126*		*03/28/2023 08:58*	WG2031012
(S) 1,2-Dichloroethane-d4	*113*			*70.0-130*		*03/28/2023 08:58*	WG2031012

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	03/30/2023 13:26	WG2031812
(S) o-Terphenyl	*102*			*31.0-160*		*03/30/2023 13:26*	WG2031812

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	03/27/2023 22:55	WG2030626

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	03/29/2023 08:34	WG2029188
Fluoride	U	P1	0.0640	0.150	1	03/29/2023 08:34	WG2029188
Nitrate	U	Q	0.0480	0.100	1	03/29/2023 08:34	WG2029188
Nitrite	U	Q	0.0420	0.100	1	03/29/2023 08:34	WG2029188
Sulfate	U	P1	0.594	5.00	1	03/29/2023 08:34	WG2029188

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	03/29/2023 23:23	WG2032107
Arsenic,Dissolved	U		0.000180	0.00200	1	03/28/2023 11:59	WG2029233
Barium	0.000428	J	0.000381	0.00200	1	03/29/2023 23:23	WG2032107
Barium,Dissolved	U		0.000381	0.00200	1	03/28/2023 11:59	WG2029233
Calcium	0.255	J	0.0936	1.00	1	03/29/2023 23:23	WG2032107
Chromium	U		0.00124	0.00200	1	03/29/2023 23:23	WG2032107
Chromium,Dissolved	U		0.00124	0.00200	1	03/28/2023 11:59	WG2029233
Iron	U		0.0281	0.100	1	03/29/2023 23:23	WG2032107
Iron,Dissolved	U		0.0281	0.100	1	03/28/2023 11:59	WG2029233
Lead	U		0.000849	0.00200	1	03/30/2023 12:13	WG2032107
Lead,Dissolved	U		0.000849	0.00200	1	03/28/2023 11:59	WG2029233
Manganese	U		0.000704	0.00500	1	03/29/2023 23:23	WG2032107
Manganese,Dissolved	U		0.000704	0.00500	1	03/28/2023 11:59	WG2029233
Potassium	U		0.108	2.00	1	03/29/2023 23:23	WG2032107
Selenium	U		0.000300	0.00200	1	03/29/2023 23:23	WG2032107
Selenium,Dissolved	U		0.000300	0.00200	1	03/28/2023 11:59	WG2029233
Sodium	0.458	J	0.376	2.00	1	03/29/2023 23:23	WG2032107

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	03/28/2023 04:18	WG2031012
Benzene	U		0.0000941	0.00100	1	03/28/2023 04:18	WG2031012
Bromodichloromethane	U		0.000136	0.00100	1	03/28/2023 04:18	WG2031012
Bromoform	U		0.000129	0.00100	1	03/28/2023 04:18	WG2031012
Bromomethane	U		0.000605	0.00500	1	03/28/2023 04:18	WG2031012
n-Butylbenzene	U		0.000157	0.00100	1	03/28/2023 04:18	WG2031012
sec-Butylbenzene	U		0.000125	0.00100	1	03/28/2023 04:18	WG2031012
Carbon disulfide	U		0.0000962	0.00100	1	03/28/2023 04:18	WG2031012
Carbon tetrachloride	U		0.000128	0.00100	1	03/28/2023 04:18	WG2031012
Chlorobenzene	U		0.000116	0.00100	1	03/28/2023 04:18	WG2031012
Chlorodibromomethane	U		0.000140	0.00100	1	03/28/2023 04:18	WG2031012
Chloroethane	U		0.000192	0.00500	1	03/28/2023 04:18	WG2031012
Chloroform	U		0.000111	0.00500	1	03/28/2023 04:18	WG2031012
Chloromethane	U		0.000960	0.00250	1	03/28/2023 04:18	WG2031012
1,2-Dibromoethane	U		0.000126	0.00100	1	03/28/2023 04:18	WG2031012
1,1-Dichloroethane	U		0.000100	0.00100	1	03/28/2023 04:18	WG2031012
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/28/2023 04:18	WG2031012
1,1-Dichloroethene	U		0.000188	0.00100	1	03/28/2023 04:18	WG2031012
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/28/2023 04:18	WG2031012

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/28/2023 04:18	WG2031012
1,2-Dichloropropane	U		0.000149	0.00100	1	03/28/2023 04:18	WG2031012
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/28/2023 04:18	WG2031012
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/28/2023 04:18	WG2031012
Ethylbenzene	U		0.000137	0.00100	1	03/28/2023 04:18	WG2031012
Isopropylbenzene	U		0.000105	0.00100	1	03/28/2023 04:18	WG2031012
p-Isopropyltoluene	U		0.000120	0.00100	1	03/28/2023 04:18	WG2031012
2-Butanone (MEK)	U		0.00119	0.0100	1	03/28/2023 04:18	WG2031012
2-Hexanone	U		0.000787	0.0100	1	03/28/2023 04:18	WG2031012
Methylene Chloride	U		0.000430	0.00500	1	03/28/2023 04:18	WG2031012
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/28/2023 04:18	WG2031012
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/28/2023 04:18	WG2031012
Naphthalene	U		0.00100	0.00500	1	03/28/2023 04:18	WG2031012
n-Propylbenzene	U		0.0000993	0.00100	1	03/28/2023 04:18	WG2031012
Styrene	U		0.000118	0.00100	1	03/28/2023 04:18	WG2031012
tert-Butyl alcohol	U		0.00406	0.00500	1	03/28/2023 04:18	WG2031012
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/28/2023 04:18	WG2031012
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/28/2023 04:18	WG2031012
Tetrachloroethene	U		0.000300	0.00100	1	03/28/2023 04:18	WG2031012
Toluene	U		0.000278	0.00100	1	03/28/2023 04:18	WG2031012
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/28/2023 04:18	WG2031012
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/28/2023 04:18	WG2031012
Trichloroethene	U		0.000190	0.00100	1	03/28/2023 04:18	WG2031012
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/28/2023 04:18	WG2031012
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/28/2023 04:18	WG2031012
Vinyl chloride	U		0.000234	0.00100	1	03/28/2023 04:18	WG2031012
o-Xylene	U		0.000174	0.00100	1	03/28/2023 04:18	WG2031012
m&p-Xylene	U		0.000430	0.00200	1	03/28/2023 04:18	WG2031012
Xylenes, Total	U		0.000174	0.00300	1	03/28/2023 04:18	WG2031012
(S) Toluene-d8	*103*			*80.0-120*		*03/28/2023 04:18*	WG2031012
(S) 4-Bromofluorobenzene	*101*			*77.0-126*		*03/28/2023 04:18*	WG2031012
(S) 1,2-Dichloroethane-d4	*111*			*70.0-130*		*03/28/2023 04:18*	WG2031012

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	03/30/2023 13:47	WG2031812
(S) o-Terphenyl	*101*			*31.0-160*		*03/30/2023 13:47*	WG2031812

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	03/28/2023 03:54	WG2031012
Benzene	U		0.0000941	0.00100	1	03/28/2023 03:54	WG2031012
Bromodichloromethane	U		0.000136	0.00100	1	03/28/2023 03:54	WG2031012
Bromoform	U		0.000129	0.00100	1	03/28/2023 03:54	WG2031012
Bromomethane	U		0.000605	0.00500	1	03/28/2023 03:54	WG2031012
n-Butylbenzene	U		0.000157	0.00100	1	03/28/2023 03:54	WG2031012
sec-Butylbenzene	U		0.000125	0.00100	1	03/28/2023 03:54	WG2031012
Carbon disulfide	U		0.0000962	0.00100	1	03/28/2023 03:54	WG2031012
Carbon tetrachloride	U		0.000128	0.00100	1	03/28/2023 03:54	WG2031012
Chlorobenzene	U		0.000116	0.00100	1	03/28/2023 03:54	WG2031012
Chlorodibromomethane	U		0.000140	0.00100	1	03/28/2023 03:54	WG2031012
Chloroethane	U		0.000192	0.00500	1	03/28/2023 03:54	WG2031012
Chloroform	U		0.000111	0.00500	1	03/28/2023 03:54	WG2031012
Chloromethane	U		0.000960	0.00250	1	03/28/2023 03:54	WG2031012
1,2-Dibromoethane	U		0.000126	0.00100	1	03/28/2023 03:54	WG2031012
1,1-Dichloroethane	U		0.000100	0.00100	1	03/28/2023 03:54	WG2031012
1,2-Dichloroethane	U		0.0000819	0.00100	1	03/28/2023 03:54	WG2031012
1,1-Dichloroethene	U		0.000188	0.00100	1	03/28/2023 03:54	WG2031012
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	03/28/2023 03:54	WG2031012
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	03/28/2023 03:54	WG2031012
1,2-Dichloropropane	U		0.000149	0.00100	1	03/28/2023 03:54	WG2031012
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	03/28/2023 03:54	WG2031012
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	03/28/2023 03:54	WG2031012
Ethylbenzene	U		0.000137	0.00100	1	03/28/2023 03:54	WG2031012
Isopropylbenzene	U		0.000105	0.00100	1	03/28/2023 03:54	WG2031012
p-Isopropyltoluene	U		0.000120	0.00100	1	03/28/2023 03:54	WG2031012
2-Butanone (MEK)	U		0.00119	0.0100	1	03/28/2023 03:54	WG2031012
2-Hexanone	U		0.000787	0.0100	1	03/28/2023 03:54	WG2031012
Methylene Chloride	U		0.000430	0.00500	1	03/28/2023 03:54	WG2031012
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	03/28/2023 03:54	WG2031012
Methyl tert-butyl ether	U		0.000101	0.00100	1	03/28/2023 03:54	WG2031012
Naphthalene	U		0.00100	0.00500	1	03/28/2023 03:54	WG2031012
n-Propylbenzene	U		0.0000993	0.00100	1	03/28/2023 03:54	WG2031012
Styrene	U		0.000118	0.00100	1	03/28/2023 03:54	WG2031012
tert-Butyl alcohol	U		0.00406	0.00500	1	03/28/2023 03:54	WG2031012
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	03/28/2023 03:54	WG2031012
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	03/28/2023 03:54	WG2031012
Tetrachloroethene	U		0.000300	0.00100	1	03/28/2023 03:54	WG2031012
Toluene	U		0.000278	0.00100	1	03/28/2023 03:54	WG2031012
1,1,1-Trichloroethane	U		0.000149	0.00100	1	03/28/2023 03:54	WG2031012
1,1,2-Trichloroethane	U		0.000158	0.00100	1	03/28/2023 03:54	WG2031012
Trichloroethene	U		0.000190	0.00100	1	03/28/2023 03:54	WG2031012
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	03/28/2023 03:54	WG2031012
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	03/28/2023 03:54	WG2031012
Vinyl chloride	U		0.000234	0.00100	1	03/28/2023 03:54	WG2031012
o-Xylene	U		0.000174	0.00100	1	03/28/2023 03:54	WG2031012
m&p-Xylene	U		0.000430	0.00200	1	03/28/2023 03:54	WG2031012
Xylenes, Total	U		0.000174	0.00300	1	03/28/2023 03:54	WG2031012
(S) Toluene-d8	*109*			*80.0-120*		*03/28/2023 03:54*	WG2031012
(S) 4-Bromofluorobenzene	*100*			*77.0-126*		*03/28/2023 03:54*	WG2031012
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*03/28/2023 03:54*	WG2031012

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Method Blank (MB)

(MB) R3906485-1 03/25/23 10:40

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1597529-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1597529-01 03/25/23 10:40 • (DUP) R3906485-3 03/25/23 10:40

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	8420	8940	1	5.99	J3	5

L1597529-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1597529-02 03/25/23 10:40 • (DUP) R3906485-4 03/25/23 10:40

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	4200	4640	1	9.95	J3	5

Laboratory Control Sample (LCS)

(LCS) R3906485-2 03/25/23 10:40

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	7610	86.5	77.3-123	

Method Blank (MB)

(MB) R3906448-1 03/25/23 07:21

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1597529-22 Original Sample (OS) • Duplicate (DUP)

(OS) L1597529-22 03/25/23 07:21 • (DUP) R3906448-3 03/25/23 07:21

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	4800	5230	1	8.57	J3	5

L1597529-23 Original Sample (OS) • Duplicate (DUP)

(OS) L1597529-23 03/25/23 07:21 • (DUP) R3906448-4 03/25/23 07:21

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	4090	4460	1	8.65	J3	5

Laboratory Control Sample (LCS)

(LCS) R3906448-2 03/25/23 07:21

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8540	97.0	77.3-123	

Received by OCD: 6/12/2024 3:31:05 PM

Method Blank (MB)

(MB) R3906481-1 03/25/23 07:54

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1597529-49 Original Sample (OS) • Duplicate (DUP)

(OS) L1597529-49 03/25/23 07:54 • (DUP) R3906481-3 03/25/23 07:54

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	2020	2260	1	11.2	J3	5

L1597529-51 Original Sample (OS) • Duplicate (DUP)

(OS) L1597529-51 03/25/23 07:54 • (DUP) R3906481-4 03/25/23 07:54

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	3610	3740	1	3.54		5

Laboratory Control Sample (LCS)

(LCS) R3906481-2 03/25/23 07:54

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8120	92.3	77.3-123	

Released to Imaging: 6/28/2024 11:23:28 AM

Method Blank (MB)

(MB) R3906993-1 03/27/23 23:53

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1597481-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1597481-01 03/27/23 23:53 • (DUP) R3906993-3 03/27/23 23:53

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	800	704	1	12.8	J3	5

L1597529-89 Original Sample (OS) • Duplicate (DUP)

(OS) L1597529-89 03/27/23 23:53 • (DUP) R3906993-4 03/27/23 23:53

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	3130	3710	1	17.1	J3	5

Laboratory Control Sample (LCS)

(LCS) R3906993-2 03/27/23 23:53

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8350	94.9	77.3-123	

Method Blank (MB)

(MB) R3907005-1 03/27/23 22:55

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1598018-15 Original Sample (OS) • Duplicate (DUP)

(OS) L1598018-15 03/27/23 22:55 • (DUP) R3907005-3 03/27/23 22:55

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	1150	1050	1	9.12	J3	5

L1598018-16 Original Sample (OS) • Duplicate (DUP)

(OS) L1598018-16 03/27/23 22:55 • (DUP) R3907005-4 03/27/23 22:55

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	775	815	1	5.03	J3	5

Laboratory Control Sample (LCS)

(LCS) R3907005-2 03/27/23 22:55

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8160	92.7	77.3-123	

Method Blank (MB)

(MB) R3907437-1 03/29/23 11:30

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1597529-16 Original Sample (OS) • Duplicate (DUP)

(OS) L1597529-16 03/29/23 11:30 • (DUP) R3907437-3 03/29/23 11:30

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	5500	5730	1	4.10		5

L1598007-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1598007-01 03/29/23 11:30 • (DUP) R3907437-4 03/29/23 11:30

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	236	239	1	1.26		5

Laboratory Control Sample (LCS)

(LCS) R3907437-2 03/29/23 11:30

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	7700	87.5	77.3-123	

Received by OCD: 6/12/2024 3:31:05 PM

Method Blank (MB)

(MB) R3905740-1 03/27/23 10:48

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Cyanide	U		0.00180	0.00500

L1597083-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1597083-02 03/27/23 10:57 • (DUP) R3905740-3 03/27/23 10:58

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	0.00239	U	1	200	P1	20

L1597529-78 Original Sample (OS) • Duplicate (DUP)

(OS) L1597529-78 03/27/23 11:17 • (DUP) R3905740-6 03/27/23 11:19

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) R3905740-2 03/27/23 10:50

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Cyanide	0.100	0.101	101	87.1-120	

L1597317-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597317-01 03/27/23 11:06 • (MS) R3905740-4 03/27/23 11:07 • (MSD) R3905740-5 03/27/23 11:09

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 %
Cyanide	0.100	0.00203	0.0938	0.0951	91.8	93.1	1	90.0-110			1.38	20

Released to Imaging: 6/28/2024 11:23:28 AM

Method Blank (MB)

(MB) R3907331-1 03/23/23 15:32

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
Nitrate	U		0.0480	0.100
Nitrite	U		0.0420	0.100
Sulfate	U		0.594	5.00

L1597625-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1597625-02 03/23/23 21:23 • (DUP) R3907331-3 03/24/23 08:20

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	8.35	8.35	1	0.0778		15
Fluoride	0.0711	0.0713	1	0.281	J	15
Nitrate	0.831	0.871	1	4.72		15
Nitrite	U	U	1	0.000		15
Sulfate	9.41	9.43	1	0.272		15

L1597625-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1597625-06 03/23/23 22:10 • (DUP) R3907331-6 03/24/23 09:40

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	12.9	13.0	1	0.699		15
Fluoride	0.238	0.276	1	14.7		15
Nitrate	0.590	0.560	1	5.17		15
Nitrite	U	U	1	0.000		15
Sulfate	39.5	39.5	1	0.0663		15

Laboratory Control Sample (LCS)

(LCS) R3907331-2 03/23/23 15:48

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	8.33	104	80.0-120	
Nitrate	8.00	7.97	99.6	80.0-120	
Nitrite	8.00	8.27	103	80.0-120	

Laboratory Control Sample (LCS)

(LCS) R3907331-2 03/23/23 15:48

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Sulfate	40.0	40.7	102	80.0-120	

L1597625-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597625-02 03/23/23 21:23 • (MS) R3907331-4 03/24/23 08:36 • (MSD) R3907331-5 03/24/23 09:24

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 %
Chloride	50.0	8.35	58.7	58.8	101	101	1	80.0-120			0.0816	15
Fluoride	5.00	0.0711	5.39	5.44	106	107	1	80.0-120			0.891	15
Nitrate	5.00	0.831	5.87	5.86	101	100	1	80.0-120			0.181	15
Nitrite	5.00	U	5.20	5.20	104	104	1	80.0-120			0.0288	15
Sulfate	50.0	9.41	59.4	59.4	99.9	99.9	1	80.0-120			0.0456	15

L1597625-06 Original Sample (OS) • Matrix Spike (MS)

(OS) L1597625-06 03/23/23 22:10 • (MS) R3907331-7 03/24/23 09:56

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	12.9	62.7	99.5	1	80.0-120	
Fluoride	5.00	0.238	5.48	105	1	80.0-120	
Nitrate	5.00	0.590	5.50	98.1	1	80.0-120	
Nitrite	5.00	U	5.16	103	1	80.0-120	
Sulfate	50.0	39.5	87.9	96.7	1	80.0-120	

Method Blank (MB)

(MB) R3907335-1 03/28/23 09:48

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	0.497	J	0.379	1.00
Fluoride	0.0696	J	0.0640	0.150
Nitrate	0.0656	J	0.0480	0.100
Nitrite	U		0.0420	0.100
Sulfate	U		0.594	5.00

L1597529-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1597529-10 03/28/23 15:23 • (DUP) R3907335-3 03/28/23 15:37

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	0.606	0.507	1	17.9	J P1	15
Fluoride	0.0833	0.0704	1	16.8	J P1	15
Nitrate	0.0886	0.0684	1	25.7	J P1	15
Nitrite	0.0584	U	1	200	P1	15
Sulfate	0.626	U	1	200	P1	15

L1597529-70 Original Sample (OS) • Duplicate (DUP)

(OS) L1597529-70 03/28/23 21:12 • (DUP) R3907335-6 03/28/23 21:52

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	55.6	54.1	1	2.79		15
Fluoride	0.203	0.193	1	5.16		15
Nitrate	0.873	0.843	1	3.51		15
Nitrite	0.350	0.343	1	2.19		15
Sulfate	29.0	27.9	1	3.83		15

Laboratory Control Sample (LCS)

(LCS) R3907335-2 03/28/23 10:01

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	40.1	100	80.0-120	
Fluoride	8.00	8.46	106	80.0-120	
Nitrate	8.00	8.22	103	80.0-120	
Nitrite	8.00	8.51	106	80.0-120	

Laboratory Control Sample (LCS)

(LCS) R3907335-2 03/28/23 10:01

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Sulfate	40.0	41.4	103	80.0-120	

L1597529-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597529-10 03/28/23 15:23 • (MS) R3907335-4 03/28/23 15:50 • (MSD) R3907335-5 03/28/23 16:30

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 %
Chloride	50.0	0.606	51.4	49.2	102	97.2	1	80.0-120			4.38	15
Fluoride	5.00	0.0833	5.42	5.20	107	102	1	80.0-120			4.21	15
Nitrate	5.00	0.0886	5.20	4.93	102	96.9	1	80.0-120			5.28	15
Nitrite	5.00	0.0584	5.44	5.22	108	103	1	80.0-120			4.12	15
Sulfate	50.0	0.626	52.7	50.3	104	99.4	1	80.0-120			4.49	15

L1597529-70 Original Sample (OS) • Matrix Spike (MS)

(OS) L1597529-70 03/28/23 21:12 • (MS) R3907335-7 03/28/23 22:05

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	55.6	101	90.5	1	80.0-120	
Fluoride	5.00	0.203	5.37	103	1	80.0-120	
Nitrate	5.00	0.873	5.88	100	1	80.0-120	
Nitrite	5.00	0.350	5.59	105	1	80.0-120	
Sulfate	50.0	29.0	77.5	97.2	1	80.0-120	

Method Blank (MB)

(MB) R3907064-1 03/28/23 19:43

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
Nitrate	U		0.0480	0.100
Nitrite	U		0.0420	0.100
Sulfate	U		0.594	5.00

L1597529-80 Original Sample (OS) • Duplicate (DUP)

(OS) L1597529-80 03/28/23 22:30 • (DUP) R3907064-3 03/28/23 22:45

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	0.397	U	1	200	P1	15
Fluoride	U	U	1	0.000		15
Nitrate	0.110	0.106	1	3.60		15
Nitrite	U	U	1	0.000		15
Sulfate	U	U	1	0.000		15

L1597529-91 Original Sample (OS) • Duplicate (DUP)

(OS) L1597529-91 03/29/23 08:34 • (DUP) R3907064-6 03/29/23 08:50

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	0.184	1	200	P1	15
Nitrate	U	U	1	0.000		15
Nitrite	U	U	1	0.000		15
Sulfate	U	0.601	1	200	J P1	15

Laboratory Control Sample (LCS)

(LCS) R3907064-2 03/28/23 19:59

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	40.1	100	80.0-120	
Fluoride	8.00	8.17	102	80.0-120	
Nitrate	8.00	8.13	102	80.0-120	
Nitrite	8.00	8.16	102	80.0-120	

Laboratory Control Sample (LCS)

(LCS) R3907064-2 03/28/23 19:59

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Sulfate	40.0	38.8	96.9	80.0-120	

L1597529-80 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597529-80 03/28/23 22:30 • (MS) R3907064-4 03/28/23 23:01 • (MSD) R3907064-5 03/28/23 23:17

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 %
Chloride	50.0	0.397	46.4	45.6	92.0	90.4	1	80.0-120			1.77	15
Fluoride	5.00	U	4.67	4.64	93.5	92.7	1	80.0-120			0.818	15
Nitrate	5.00	0.110	4.47	4.46	87.2	87.0	1	80.0-120			0.260	15
Nitrite	5.00	U	4.60	4.62	91.9	92.4	1	80.0-120			0.495	15
Sulfate	50.0	U	44.2	44.2	88.4	88.4	1	80.0-120			0.0871	15

L1597529-91 Original Sample (OS) • Matrix Spike (MS)

(OS) L1597529-91 03/29/23 08:34 • (MS) R3907064-7 03/29/23 09:06

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	U	48.6	97.2	1	80.0-120	
Fluoride	5.00	U	4.89	97.8	1	80.0-120	
Nitrate	5.00	U	4.64	92.9	1	80.0-120	
Nitrite	5.00	U	4.79	95.8	1	80.0-120	
Sulfate	50.0	U	47.9	95.8	1	80.0-120	

Method Blank (MB)

(MB) R3906882-1 03/24/23 10:37

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
Nitrate	U		0.0480	0.100
Nitrite	U		0.0420	0.100
Sulfate	U		0.594	5.00

L1597529-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1597529-09 03/24/23 14:38 • (DUP) R3906882-3 03/24/23 14:51

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
Nitrate	U	U	1	0.000		15
Nitrite	U	U	1	0.000		15
Sulfate	U	U	1	0.000		15

L1597529-37 Original Sample (OS) • Duplicate (DUP)

(OS) L1597529-37 03/24/23 21:41 • (DUP) R3906882-6 03/24/23 22:07

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	32.3	32.1	1	0.419		15
Fluoride	1.55	1.46	1	6.00		15
Nitrate	U	U	1	0.000		15
Nitrite	U	U	1	0.000		15

Sample Narrative:

OS: Dilution due to matrix.

L1597529-37 Original Sample (OS) • Duplicate (DUP)

(OS) L1597529-37 03/24/23 21:54 • (DUP) R3906882-7 03/24/23 22:20

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Sulfate	512	512	5	0.0232		15

Laboratory Control Sample (LCS)

(LCS) R3906882-2 03/24/23 10:50

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	37.6	93.9	80.0-120	
Fluoride	8.00	7.74	96.8	80.0-120	
Nitrate	8.00	7.42	92.8	80.0-120	
Nitrite	8.00	7.68	96.0	80.0-120	
Sulfate	40.0	37.2	93.0	80.0-120	

L1597529-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597529-09 03/24/23 14:38 • (MS) R3906882-4 03/24/23 15:04 • (MSD) R3906882-5 03/24/23 15:17

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 %
Chloride	50.0	U	50.2	50.2	100	100	1	80.0-120			0.0396	15
Fluoride	5.00	U	5.21	5.20	104	104	1	80.0-120			0.160	15
Nitrate	5.00	U	4.84	4.82	96.8	96.5	1	80.0-120			0.310	15
Nitrite	5.00	U	5.13	5.11	103	102	1	80.0-120			0.389	15
Sulfate	50.0	U	48.9	48.8	97.9	97.6	1	80.0-120			0.291	15

L1597529-37 Original Sample (OS) • Matrix Spike (MS)

(OS) L1597529-37 03/24/23 21:41 • (MS) R3906882-8 03/24/23 22:32

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	32.3	80.9	97.1	1	80.0-120	
Fluoride	5.00	1.55	6.51	99.2	1	80.0-120	
Nitrate	5.00	U	4.23	84.7	1	80.0-120	
Nitrite	5.00	U	5.11	102	1	80.0-120	
Sulfate	50.0	502	521	37.2	1	80.0-120	E V

Sample Narrative:

OS: Dilution due to matrix.

Method Blank (MB)

(MB) R3907507-1 03/29/23 20:50

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
Nitrate	U		0.0480	0.100
Nitrite	U		0.0420	0.100
Sulfate	U		0.594	5.00

L1597591-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1597591-11 03/30/23 05:41 • (DUP) R3907507-3 03/30/23 05:57

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	36.9	37.1	1	0.535		15
Fluoride	0.235	0.220	1	6.73		15
Nitrate	0.336	0.305	1	9.77		15
Nitrite	U	U	1	0.000		15
Sulfate	52.7	52.9	1	0.266		15

L1598571-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1598571-03 03/30/23 08:04 • (DUP) R3907507-6 03/30/23 08:20

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	1.62	1.69	1	4.20		15
Fluoride	0.908	0.903	1	0.586		15
Nitrate	2.64	2.62	1	0.807		15
Nitrite	U	U	1	0.000		15
Sulfate	8.14	8.01	1	1.61		15

Sample Narrative:

OS: Nitrate/Nitrite rerun out of hold due to unreportable initial run

Laboratory Control Sample (LCS)

(LCS) R3907507-2 03/29/23 21:06

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	8.11	101	80.0-120	
Nitrate	8.00	7.81	97.6	80.0-120	
Nitrite	8.00	8.03	100	80.0-120	
Sulfate	40.0	37.8	94.4	80.0-120	

L1597591-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597591-11 03/30/23 05:41 • (MS) R3907507-4 03/30/23 06:13 • (MSD) R3907507-5 03/30/23 06:29

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 %
Chloride	50.0	36.9	85.3	85.3	96.7	96.7	1	80.0-120			0.0160	15
Fluoride	5.00	0.235	5.06	5.07	96.5	96.6	1	80.0-120			0.0988	15
Nitrate	5.00	0.336	4.89	4.90	91.1	91.2	1	80.0-120			0.0817	15
Nitrite	5.00	U	4.78	4.78	95.5	95.7	1	80.0-120			0.134	15
Sulfate	50.0	52.7	102	103	99.0	100	1	80.0-120			0.633	15

L1598571-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L1598571-03 03/30/23 08:04 • (MS) R3907507-7 03/30/23 08:36

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	1.62	49.9	96.5	1	80.0-120	
Fluoride	5.00	0.908	5.81	98.0	1	80.0-120	
Nitrate	5.00	2.64	7.51	97.3	1	80.0-120	
Nitrite	5.00	U	4.73	94.6	1	80.0-120	
Sulfate	50.0	8.14	56.5	96.7	1	80.0-120	

Sample Narrative:

OS: Nitrate/Nitrite rerun out of hold due to unreportable initial run

Method Blank (MB)

(MB) R3907382-1 03/24/23 10:27

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	0.383	J	0.379	1.00
Fluoride	U		0.0640	0.150
Nitrate	0.0693	J	0.0480	0.100
Nitrite	U		0.0420	0.100
Sulfate	U		0.594	5.00

L1597534-21 Original Sample (OS) • Duplicate (DUP)

(OS) L1597534-21 03/24/23 15:37 • (DUP) R3907382-3 03/24/23 22:34

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	404	405	1	0.0280	E	15
Fluoride	U	U	1	0.000		15
Nitrate	0.0798	0.0739	1	7.68	J	15
Nitrite	U	U	1	0.000		15
Sulfate	40.5	40.6	1	0.277		15

L1598018-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1598018-05 03/24/23 20:07 • (DUP) R3907382-6 03/24/23 23:13

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	66.6	66.9	1	0.383		15
Fluoride	0.790	0.871	1	9.84		15
Nitrate	6.98	7.04	1	0.800		15
Nitrite	U	U	1	0.000		15
Sulfate	79.9	80.6	1	0.805		15

Laboratory Control Sample (LCS)

(LCS) R3907382-2 03/24/23 10:41

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	36.9	92.2	80.0-120	
Fluoride	8.00	7.75	96.8	80.0-120	
Nitrate	8.00	7.26	90.8	80.0-120	
Nitrite	8.00	7.76	97.0	80.0-120	

Laboratory Control Sample (LCS)

(LCS) R3907382-2 03/24/23 10:41

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Sulfate	40.0	36.9	92.3	80.0-120	

L1597534-21 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597534-21 03/24/23 15:37 • (MS) R3907382-4 03/24/23 22:47 • (MSD) R3907382-5 03/24/23 23:00

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 %
Chloride	50.0	404	432	435	54.5	61.8	1	80.0-120	E V	E V	0.846	15
Fluoride	5.00	U	3.21	3.75	64.2	75.0	1	80.0-120	J6	J3 J6	15.6	15
Nitrate	5.00	0.0798	4.07	4.74	79.9	93.3	1	80.0-120	J6	J3	15.2	15
Nitrite	5.00	U	4.37	5.16	87.4	103	1	80.0-120		J3	16.5	15
Sulfate	50.0	40.5	82.0	89.7	82.9	98.3	1	80.0-120			8.98	15

L1598018-05 Original Sample (OS) • Matrix Spike (MS)

(OS) L1598018-05 03/24/23 20:07 • (MS) R3907382-7 03/24/23 23:25

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	66.6	112	91.4	1	80.0-120	
Fluoride	5.00	0.790	5.86	101	1	80.0-120	
Nitrate	5.00	6.98	11.6	92.7	1	80.0-120	
Nitrite	5.00	U	5.03	101	1	80.0-120	
Sulfate	50.0	79.9	126	91.8	1	80.0-120	

Method Blank (MB)

(MB) R3907460-1 03/29/23 10:08

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
Nitrate	U		0.0480	0.100
Nitrite	U		0.0420	0.100
Sulfate	U		0.594	5.00

L1597852-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1597852-08 03/29/23 12:49 • (DUP) R3907460-3 03/29/23 13:02

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	17.5	17.4	1	0.412		15
Fluoride	0.205	0.184	1	10.4		15
Nitrate	0.317	0.317	1	0.0316		15
Nitrite	U	U	1	0.000		15
Sulfate	15.2	15.1	1	0.418		15

L1598164-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1598164-03 03/29/23 21:23 • (DUP) R3907460-6 03/29/23 21:35

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	9.48	9.49	1	0.123		15
Fluoride	0.122	0.0996	1	20.4	J P1	15
Nitrate	0.330	0.332	1	0.453		15
Nitrite	U	U	1	0.000		15
Sulfate	7.03	7.00	1	0.535		15

Laboratory Control Sample (LCS)

(LCS) R3907460-2 03/29/23 10:21

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	39.8	99.6	80.0-120	
Fluoride	8.00	8.17	102	80.0-120	
Nitrate	8.00	7.87	98.3	80.0-120	
Nitrite	8.00	8.10	101	80.0-120	

Laboratory Control Sample (LCS)

(LCS) R3907460-2 03/29/23 10:21

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Sulfate	40.0	39.2	98.1	80.0-120	

L1597852-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597852-08 03/29/23 12:49 • (MS) R3907460-4 03/29/23 13:15 • (MSD) R3907460-5 03/29/23 13:28

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	17.5	67.1	67.2	99.2	99.5	1	80.0-120			0.167	15
Fluoride	5.00	0.205	5.49	5.49	106	106	1	80.0-120			0.0164	15
Nitrate	5.00	0.317	5.23	5.24	98.3	98.5	1	80.0-120			0.229	15
Nitrite	5.00	U	5.18	5.19	104	104	1	80.0-120			0.178	15
Sulfate	50.0	15.2	63.7	63.9	97.1	97.4	1	80.0-120			0.283	15

L1598164-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L1598164-03 03/29/23 21:23 • (MS) R3907460-7 03/29/23 21:48

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	9.48	58.9	98.8	1	80.0-120	
Fluoride	5.00	0.122	5.32	104	1	80.0-120	
Nitrate	5.00	0.330	5.16	96.5	1	80.0-120	
Nitrite	5.00	U	5.14	103	1	80.0-120	
Sulfate	50.0	7.03	55.4	96.7	1	80.0-120	

Method Blank (MB)

(MB) R3907512-1 03/29/23 19:36

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
Nitrate	U		0.0480	0.100
Nitrite	U		0.0420	0.100
Sulfate	U		0.594	5.00

L1599196-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1599196-01 03/29/23 21:15 • (DUP) R3907512-3 03/29/23 21:28

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	7.28	7.49	1	2.90		15
Fluoride	0.522	0.509	1	2.44		15
Nitrate	1.89	1.90	1	0.653		15
Nitrite	U	U	1	0.000		15
Sulfate	18.6	18.6	1	0.360		15

L1599211-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1599211-02 03/29/23 23:20 • (DUP) R3907512-6 03/29/23 23:33

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	124	123	1	0.472		15
Fluoride	0.0655	U	1	200	P1	15
Nitrate	0.0951	0.0826	1	14.1	J	15
Nitrite	U	U	1	0.000		15
Sulfate	107	106	1	0.364		15

Laboratory Control Sample (LCS)

(LCS) R3907512-2 03/29/23 19:48

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	39.9	99.7	80.0-120	
Fluoride	8.00	8.28	103	80.0-120	
Nitrate	8.00	7.89	98.6	80.0-120	
Nitrite	8.00	8.19	102	80.0-120	

Laboratory Control Sample (LCS)

(LCS) R3907512-2 03/29/23 19:48

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Sulfate	40.0	40.3	101	80.0-120	

L1599196-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1599196-01 03/29/23 21:15 • (MS) R3907512-4 03/29/23 22:05 • (MSD) R3907512-5 03/29/23 22:18

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 %
Chloride	50.0	7.28	56.6	56.6	98.6	98.5	1	80.0-120			0.0946	15
Fluoride	5.00	0.522	5.70	5.84	104	106	1	80.0-120			2.43	15
Nitrate	5.00	1.89	6.78	6.72	97.7	96.5	1	80.0-120			0.912	15
Nitrite	5.00	U	5.14	5.07	103	101	1	80.0-120			1.50	15
Sulfate	50.0	18.6	66.9	66.4	96.7	95.6	1	80.0-120			0.807	15

L1599211-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1599211-02 03/29/23 23:20 • (MS) R3907512-7 03/29/23 23:45

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	124	167	86.3	1	80.0-120	
Fluoride	5.00	0.0655	5.11	101	1	80.0-120	
Nitrate	5.00	0.0951	5.12	101	1	80.0-120	
Nitrite	5.00	U	5.10	102	1	80.0-120	
Sulfate	50.0	107	152	91.3	1	80.0-120	

Method Blank (MB)

(MB) R3905637-1 03/27/23 07:47

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) R3905637-2 03/27/23 07:49

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.00300	0.00293	97.6	80.0-120	

L1597201-53 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597201-53 03/27/23 07:51 • (MS) R3905637-3 03/27/23 07:53 • (MSD) R3905637-4 03/27/23 07:55

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 %
Mercury	0.00300	U	0.00278	0.00269	92.8	89.8	1	75.0-125			3.29	20

Method Blank (MB)

(MB) R3906722-1 03/29/23 09:19

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) R3906722-2 03/29/23 09:21

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.00300	0.00288	95.9	80.0-120	

L1597585-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597585-03 03/29/23 09:28 • (MS) R3906722-3 03/29/23 09:30 • (MSD) R3906722-4 03/29/23 09:32

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 %
Mercury	0.00300	U	0.00296	0.00297	98.6	99.2	1	75.0-125			0.556	20

Method Blank (MB)

(MB) R3906266-1 03/28/23 10:04

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) R3906266-2 03/28/23 10:06

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury,Dissolved	0.00300	0.00298	99.4	80.0-120	

L1597201-54 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597201-54 03/28/23 10:08 • (MS) R3906266-3 03/28/23 10:10 • (MSD) R3906266-4 03/28/23 10:12

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 %
Mercury,Dissolved	0.00300	U	0.00293	0.00293	97.7	97.6	1	75.0-125			0.0102	20

Method Blank (MB)

(MB) R3906716-1 03/29/23 08:55

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) R3906716-2 03/29/23 08:57

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury,Dissolved	0.00300	0.00282	94.0	80.0-120	

L1597201-42 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597201-42 03/29/23 09:03 • (MS) R3906716-3 03/29/23 09:05 • (MSD) R3906716-4 03/29/23 09:07

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	0.00236	0.00221	78.8	73.8	1	75.0-125		J6	6.58	20

Method Blank (MB)

(MB) R3907243-1 03/30/23 09:10

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) R3907243-2 03/30/23 09:12

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.00300	0.00315	105	80.0-120	

L1597529-67 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597529-67 03/30/23 09:14 • (MS) R3907243-3 03/30/23 09:16 • (MSD) R3907243-4 03/30/23 09:18

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 %
Mercury	0.00300	U	0.00270	0.00248	90.1	82.6	1	75.0-125			8.74	20

Method Blank (MB)

(MB) R3907329-1 03/30/23 11:02

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) R3907329-2 03/30/23 11:04

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury,Dissolved	0.00300	0.00306	102	80.0-120	

L1598913-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1598913-01 03/30/23 11:06 • (MS) R3907329-3 03/30/23 11:12 • (MSD) R3907329-4 03/30/23 11:14

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 %
Mercury,Dissolved	0.00300	U	0.00309	0.00306	103	102	1	75.0-125			0.986	20

Method Blank (MB)

(MB) R3906025-1 03/27/23 17:10

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) R3906025-2 03/27/23 17:13

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron,Dissolved	1.00	0.933	93.3	80.0-120	

L1597379-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597379-10 03/27/23 17:16 • (MS) R3906025-4 03/27/23 17:21 • (MSD) R3906025-5 03/27/23 17:23

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 %
Boron,Dissolved	1.00	0.270	1.24	1.21	96.7	93.9	1	75.0-125			2.26	20

Method Blank (MB)

(MB) R3906578-1 03/28/23 20:42

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) R3906578-2 03/28/23 20:45

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron,Dissolved	1.00	1.00	100	80.0-120	

L1597708-27 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597708-27 03/28/23 20:47 • (MS) R3906578-4 03/28/23 20:53 • (MSD) R3906578-5 03/28/23 20:55

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 %
Boron,Dissolved	1.00	0.0379	1.03	1.06	99.6	102	1	75.0-125			2.44	20

L1597708-29 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597708-29 03/28/23 20:58 • (MS) R3906578-6 03/28/23 21:01 • (MSD) R3906578-7 03/28/23 21:03

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 %
Boron,Dissolved	1.00	0.0562	1.07	1.10	101	105	1	75.0-125			2.91	20

Method Blank (MB)

(MB) R3906298-1 03/28/23 11:06

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) R3906298-2 03/28/23 11:08

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron	1.00	1.00	100	80.0-120	

L1597514-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597514-06 03/28/23 11:11 • (MS) R3906298-4 03/28/23 11:16 • (MSD) R3906298-5 03/28/23 11:18

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 %
Boron	1.00	0.0858	1.09	1.10	101	101	1	75.0-125			0.148	20

Method Blank (MB)

(MB) R3905270-1 03/24/23 17:05

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) R3905270-2 03/24/23 17:08

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron	1.00	0.986	98.6	80.0-120	

L1597529-56 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597529-56 03/24/23 17:10 • (MS) R3905270-4 03/24/23 17:16 • (MSD) R3905270-5 03/24/23 17:18

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 %
Boron	1.00	0.122	1.14	1.12	102	100	1	75.0-125			1.51	20

Method Blank (MB)

(MB) R3906380-1 03/28/23 09:30

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) R3906380-2 03/28/23 09:33

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	

L1598054-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1598054-01 03/28/23 09:35 • (MS) R3906380-4 03/28/23 09:41 • (MSD) R3906380-5 03/28/23 09:43

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 %
Boron,Dissolved	1.00	0.561	1.57	1.59	101	103	1	75.0-125			1.13	20

Method Blank (MB)

(MB) R3906128-1 03/27/23 21:53

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) R3906128-2 03/27/23 21:56

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	

L1597665-27 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597665-27 03/27/23 21:59 • (MS) R3906128-4 03/27/23 22:04 • (MSD) R3906128-5 03/27/23 22:06

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 %
Boron	1.00	0.0528	0.977	0.985	92.4	93.2	1	75.0-125			0.765	20

Method Blank (MB)

(MB) R3907017-1 03/29/23 15:14

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) R3907017-2 03/29/23 15:17

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron	1.00	0.990	99.0	80.0-120	

L1597529-57 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597529-57 03/29/23 15:20 • (MS) R3907017-4 03/29/23 15:26 • (MSD) R3907017-5 03/29/23 15:29

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	1.00	0.697	1.69	1.70	99.7	99.9	1	75.0-125			0.0931	20

Method Blank (MB)

(MB) R3907056-1 03/29/23 16:46

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) R3907056-2 03/29/23 16:48

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron,Dissolved	1.00	0.996	99.6	80.0-120	

L1597529-57 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597529-57 03/29/23 16:51 • (MS) R3907056-4 03/29/23 16:56 • (MSD) R3907056-5 03/29/23 16:59

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 %
Boron,Dissolved	1.00	0.694	1.69	1.73	99.3	104	1	75.0-125			2.70	20

Method Blank (MB)

(MB) R3907630-1 03/30/23 20:43

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) R3907630-2 03/30/23 20:45

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron,Dissolved	1.00	0.965	96.5	80.0-120	

L1599282-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1599282-06 03/30/23 20:48 • (MS) R3907630-4 03/30/23 20:53 • (MSD) R3907630-5 03/30/23 20:56

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 %
Boron,Dissolved	1.00	0.0279	0.981	0.987	95.3	95.9	1	75.0-125			0.644	20

Received by OCD: 6/12/2024 3:31:05 PM

Method Blank (MB)

(MB) R3906158-1 03/27/23 22:57

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	0.00200
Chromium,Dissolved	U		0.00124	0.00200
Iron,Dissolved	0.0787	J	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) R3906158-2 03/27/23 23:01

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic,Dissolved	0.0500	0.0495	99.0	80.0-120	
Barium,Dissolved	0.0500	0.0510	102	80.0-120	
Chromium,Dissolved	0.0500	0.0525	105	80.0-120	
Iron,Dissolved	5.00	5.39	108	80.0-120	
Lead,Dissolved	0.0500	0.0522	104	80.0-120	
Manganese,Dissolved	0.0500	0.0527	105	80.0-120	
Selenium,Dissolved	0.0500	0.0527	105	80.0-120	

L1597529-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597529-02 03/27/23 23:04 • (MS) R3906158-4 03/27/23 23:10 • (MSD) R3906158-5 03/27/23 23:14

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 %
Arsenic,Dissolved	0.0500	0.00652	0.0564	0.0559	99.8	98.8	1	75.0-125			0.888	20
Barium,Dissolved	0.0500	0.0133	0.0650	0.0636	103	101	1	75.0-125			2.21	20
Chromium,Dissolved	0.0500	U	0.0500	0.0486	100	97.2	1	75.0-125			2.88	20
Iron,Dissolved	5.00	U	5.09	4.99	102	99.8	1	75.0-125			2.00	20
Lead,Dissolved	0.0500	0.00108	0.0517	0.0523	101	102	1	75.0-125			1.13	20
Manganese,Dissolved	0.0500	0.0208	0.0693	0.0695	97.0	97.4	1	75.0-125			0.289	20
Selenium,Dissolved	0.0500	0.0114	0.0667	0.0617	111	101	1	75.0-125			7.72	20

Method Blank (MB)

(MB) R3905567-1 03/26/23 21:04

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	0.00200
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		0.0000789	0.00100
Vanadium,Dissolved	U		0.000664	0.00500

Laboratory Control Sample (LCS)

(LCS) R3905567-2 03/26/23 21:08

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic,Dissolved	0.0500	0.0462	92.4	80.0-120	
Barium,Dissolved	0.0500	0.0475	95.0	80.0-120	
Cadmium,Dissolved	0.0500	0.0502	100	80.0-120	
Chromium,Dissolved	0.0500	0.0481	96.3	80.0-120	
Cobalt,Dissolved	0.0500	0.0486	97.1	80.0-120	
Iron,Dissolved	5.00	4.79	95.8	80.0-120	
Lead,Dissolved	0.0500	0.0466	93.2	80.0-120	
Manganese,Dissolved	0.0500	0.0485	97.0	80.0-120	
Nickel,Dissolved	0.0500	0.0480	96.0	80.0-120	
Selenium,Dissolved	0.0500	0.0511	102	80.0-120	
Uranium,Dissolved	0.0500	0.0481	96.2	80.0-120	
Vanadium,Dissolved	0.0500	0.0476	95.3	80.0-120	

L1597529-22 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597529-22 03/26/23 21:11 • (MS) R3905567-4 03/26/23 21:18 • (MSD) R3905567-5 03/26/23 21:21

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 %
Arsenic,Dissolved	0.0500	0.0172	0.0656	0.0648	96.9	95.1	1	75.0-125			1.32	20
Barium,Dissolved	0.0500	0.0290	0.0790	0.0778	100	97.6	1	75.0-125			1.54	20
Cadmium,Dissolved	0.0500	U	0.0491	0.0474	98.1	94.9	1	75.0-125			3.34	20

L1597529-22 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597529-22 03/26/23 21:11 • (MS) R3905567-4 03/26/23 21:18 • (MSD) R3905567-5 03/26/23 21:21

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 %
Chromium,Dissolved	0.0500	U	0.0489	0.0476	97.8	95.2	1	75.0-125			2.74	20
Cobalt,Dissolved	0.0500	0.00794	0.0558	0.0551	95.8	94.3	1	75.0-125			1.32	20
Iron,Dissolved	5.00	U	4.83	4.70	96.6	94.0	1	75.0-125			2.73	20
Lead,Dissolved	0.0500	U	0.0486	0.0483	97.3	96.7	1	75.0-125			0.626	20
Manganese,Dissolved	0.0500	3.19	3.32	3.30	252	220	1	75.0-125	V	V	0.478	20
Nickel,Dissolved	0.0500	0.0250	0.0715	0.0716	93.0	93.2	1	75.0-125			0.111	20
Selenium,Dissolved	0.0500	U	0.0545	0.0528	109	106	1	75.0-125			3.25	20
Uranium,Dissolved	0.0500	0.00506	0.0565	0.0565	103	103	1	75.0-125			0.000619	20
Vanadium,Dissolved	0.0500	0.00446	0.0538	0.0526	98.6	96.3	1	75.0-125			2.24	20

Method Blank (MB)

(MB) R3906035-1 03/27/23 20:50

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	0.00200
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		0.0000789	0.00100
Vanadium,Dissolved	U		0.000664	0.00500

Laboratory Control Sample (LCS)

(LCS) R3906035-2 03/27/23 20:53

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic,Dissolved	0.0500	0.0430	86.0	80.0-120	
Barium,Dissolved	0.0500	0.0474	94.8	80.0-120	
Cadmium,Dissolved	0.0500	0.0504	101	80.0-120	
Chromium,Dissolved	0.0500	0.0493	98.5	80.0-120	
Cobalt,Dissolved	0.0500	0.0495	99.0	80.0-120	
Iron,Dissolved	5.00	5.08	102	80.0-120	
Lead,Dissolved	0.0500	0.0500	99.9	80.0-120	
Manganese,Dissolved	0.0500	0.0497	99.3	80.0-120	
Nickel,Dissolved	0.0500	0.0491	98.1	80.0-120	
Selenium,Dissolved	0.0500	0.0489	97.9	80.0-120	
Uranium,Dissolved	0.0500	0.0481	96.2	80.0-120	
Vanadium,Dissolved	0.0500	0.0481	96.3	80.0-120	

L1597529-53 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597529-53 03/27/23 20:57 • (MS) R3906035-4 03/27/23 21:03 • (MSD) R3906035-5 03/27/23 21:06

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 %
Arsenic,Dissolved	0.0500	0.00624	0.0556	0.0565	98.7	101	1	75.0-125			1.64	20
Barium,Dissolved	0.0500	0.0132	0.0636	0.0650	101	104	1	75.0-125			2.23	20
Cadmium,Dissolved	0.0500	U	0.0496	0.0501	99.2	100	1	75.0-125			0.970	20

L1597529-53 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597529-53 03/27/23 20:57 • (MS) R3906035-4 03/27/23 21:03 • (MSD) R3906035-5 03/27/23 21:06

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 %
Chromium,Dissolved	0.0500	U	0.0484	0.0509	96.8	102	1	75.0-125			4.95	20
Cobalt,Dissolved	0.0500	0.00117	0.0486	0.0511	94.8	99.8	1	75.0-125			4.95	20
Iron,Dissolved	5.00	U	5.06	5.34	101	107	1	75.0-125			5.53	20
Lead,Dissolved	0.0500	U	0.0537	0.0511	107	102	1	75.0-125			4.90	20
Manganese,Dissolved	0.0500	0.283	0.328	0.343	91.2	120	1	75.0-125			4.35	20
Nickel,Dissolved	0.0500	0.00988	0.0560	0.0595	92.2	99.2	1	75.0-125			6.07	20
Selenium,Dissolved	0.0500	0.0641	0.115	0.117	102	106	1	75.0-125			1.68	20
Uranium,Dissolved	0.0500	0.0705	0.127	0.122	112	103	1	75.0-125			3.92	20
Vanadium,Dissolved	0.0500	0.0461	0.0942	0.0991	96.3	106	1	75.0-125			5.03	20

Method Blank (MB)

(MB) R3906264-1 03/28/23 10:37

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	0.00200
Cadmium,Dissolved	U		0.000150	0.00100
Chromium,Dissolved	U		0.00124	0.00200
Cobalt,Dissolved	U		0.0000596	0.00200
Iron,Dissolved	0.0301	J	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		0.0000789	0.00100
Vanadium,Dissolved	U		0.000664	0.00500

Laboratory Control Sample (LCS)

(LCS) R3906264-2 03/28/23 10:40

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic,Dissolved	0.0500	0.0484	96.9	80.0-120	
Barium,Dissolved	0.0500	0.0470	93.9	80.0-120	
Cadmium,Dissolved	0.0500	0.0493	98.7	80.0-120	
Chromium,Dissolved	0.0500	0.0502	100	80.0-120	
Cobalt,Dissolved	0.0500	0.0499	99.9	80.0-120	
Iron,Dissolved	5.00	4.96	99.2	80.0-120	
Lead,Dissolved	0.0500	0.0486	97.3	80.0-120	
Manganese,Dissolved	0.0500	0.0503	101	80.0-120	
Nickel,Dissolved	0.0500	0.0498	99.5	80.0-120	
Selenium,Dissolved	0.0500	0.0577	115	80.0-120	
Uranium,Dissolved	0.0500	0.0462	92.4	80.0-120	
Vanadium,Dissolved	0.0500	0.0489	97.8	80.0-120	

L1597742-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597742-01 03/28/23 10:44 • (MS) R3906264-4 03/28/23 10:50 • (MSD) R3906264-5 03/28/23 10:54

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 %
Arsenic,Dissolved	0.0500	0.00272	0.0518	0.0527	98.1	99.9	1	75.0-125			1.77	20
Barium,Dissolved	0.0500	0.0119	0.0600	0.0605	96.2	97.2	1	75.0-125			0.830	20
Cadmium,Dissolved	0.0500	U	0.0510	0.0516	102	103	1	75.0-125			1.25	20

L1597742-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597742-01 03/28/23 10:44 • (MS) R3906264-4 03/28/23 10:50 • (MSD) R3906264-5 03/28/23 10:54

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 %
Chromium,Dissolved	0.0500	0.00978	0.0590	0.0588	98.4	98.0	1	75.0-125			0.329	20
Cobalt,Dissolved	0.0500	U	0.0485	0.0492	97.0	98.4	1	75.0-125			1.36	20
Iron,Dissolved	5.00	U	4.92	4.91	98.4	98.3	1	75.0-125			0.112	20
Lead,Dissolved	0.0500	U	0.0483	0.0490	96.6	97.9	1	75.0-125			1.43	20
Manganese,Dissolved	0.0500	U	0.0495	0.0526	98.9	105	1	75.0-125			6.13	20
Nickel,Dissolved	0.0500	U	0.0485	0.0476	96.9	95.2	1	75.0-125			1.82	20
Selenium,Dissolved	0.0500	0.00378	0.0603	0.0624	113	117	1	75.0-125			3.37	20
Uranium,Dissolved	0.0500	0.0173	0.0640	0.0652	93.4	95.8	1	75.0-125			1.82	20
Vanadium,Dissolved	0.0500	0.00810	0.0580	0.0590	99.8	102	1	75.0-125			1.69	20

Method Blank (MB)

(MB) R3906172-1 03/28/23 00:43

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	0.000898	J	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) R3906172-2 03/28/23 00:46

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	0.0500	0.0479	95.8	80.0-120	
Barium	0.0500	0.0473	94.6	80.0-120	
Calcium	5.00	5.06	101	80.0-120	
Chromium	0.0500	0.0478	95.6	80.0-120	
Iron	5.00	4.98	99.6	80.0-120	
Lead	0.0500	0.0502	100	80.0-120	
Manganese	0.0500	0.0495	99.0	80.0-120	
Potassium	5.00	4.80	96.0	80.0-120	
Selenium	0.0500	0.0487	97.5	80.0-120	
Sodium	5.00	4.75	94.9	80.0-120	

L1597500-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597500-01 03/28/23 00:50 • (MS) R3906172-4 03/28/23 00:56 • (MSD) R3906172-5 03/28/23 01:00

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 %
Arsenic	0.0500	0.0246	0.0738	0.0729	98.6	96.7	1	75.0-125			1.29	20
Barium	0.0500	0.356	0.395	0.405	78.2	99.3	1	75.0-125			2.64	20
Calcium	5.00	159	161	164	53.4	101	1	75.0-125	V		1.47	20
Chromium	0.0500	U	0.0477	0.0475	95.4	95.1	1	75.0-125			0.345	20
Iron	5.00	8.63	13.5	13.7	97.4	102	1	75.0-125			1.80	20
Lead	0.0500	U	0.0495	0.0518	99.1	104	1	75.0-125			4.51	20
Manganese	0.0500	4.09	4.26	4.22	342	267	1	75.0-125	V	V	0.879	20

L1597500-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597500-01 03/28/23 00:50 • (MS) R3906172-4 03/28/23 00:56 • (MSD) R3906172-5 03/28/23 01:00

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 %
Potassium	5.00	1.12	5.89	5.92	95.5	95.9	1	75.0-125			0.390	20
Selenium	0.0500	0.000568	0.0494	0.0501	97.7	99.0	1	75.0-125			1.31	20
Sodium	5.00	153	157	158	79.4	94.8	1	75.0-125			0.489	20

Method Blank (MB)

(MB) R3905898-1 03/27/23 13:13

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) R3905898-2 03/27/23 13:17

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	0.0500	0.0489	97.8	80.0-120	
Barium	0.0500	0.0464	92.7	80.0-120	
Calcium	5.00	4.80	96.0	80.0-120	
Chromium	0.0500	0.0517	103	80.0-120	
Iron	5.00	5.29	106	80.0-120	
Lead	0.0500	0.0499	99.8	80.0-120	
Manganese	0.0500	0.0500	100	80.0-120	
Potassium	5.00	4.69	93.8	80.0-120	
Selenium	0.0500	0.0509	102	80.0-120	
Sodium	5.00	5.01	100	80.0-120	

L1597529-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597529-10 03/27/23 13:20 • (MS) R3905898-4 03/27/23 13:27 • (MSD) R3905898-5 03/27/23 13:30

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	0.0500	U	0.0476	0.0484	95.2	96.9	1	75.0-125			1.77	20
Barium	0.0500	U	0.0493	0.0463	98.6	92.6	1	75.0-125			6.27	20
Calcium	5.00	0.103	4.82	4.83	94.3	94.6	1	75.0-125			0.384	20
Chromium	0.0500	U	0.0504	0.0507	101	101	1	75.0-125			0.593	20
Iron	5.00	U	5.24	5.17	105	103	1	75.0-125			1.28	20
Lead	0.0500	U	0.0488	0.0488	97.7	97.5	1	75.0-125			0.135	20
Manganese	0.0500	U	0.0492	0.0502	98.4	100	1	75.0-125			1.88	20

L1597529-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597529-10 03/27/23 13:20 • (MS) R3905898-4 03/27/23 13:27 • (MSD) R3905898-5 03/27/23 13:30

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 %
Potassium	5.00	U	4.63	4.62	92.7	92.4	1	75.0-125			0.220	20
Selenium	0.0500	U	0.0518	0.0506	104	101	1	75.0-125			2.34	20
Sodium	5.00	U	5.13	5.15	103	103	1	75.0-125			0.404	20

Method Blank (MB)

(MB) R3906311-1 03/28/23 00:25

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) R3906311-2 03/28/23 00:28

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	0.0500	0.0468	93.6	80.0-120	
Barium	0.0500	0.0449	89.9	80.0-120	
Cadmium	0.0500	0.0513	103	80.0-120	
Calcium	5.00	4.73	94.6	80.0-120	
Chromium	0.0500	0.0474	94.9	80.0-120	
Cobalt	0.0500	0.0491	98.2	80.0-120	
Iron	5.00	4.82	96.4	80.0-120	
Lead	0.0500	0.0477	95.4	80.0-120	
Manganese	0.0500	0.0481	96.1	80.0-120	
Nickel	0.0500	0.0487	97.3	80.0-120	
Potassium	5.00	4.63	92.6	80.0-120	
Selenium	0.0500	0.0490	97.9	80.0-120	
Sodium	5.00	5.03	101	80.0-120	
Uranium	0.0500	0.0475	95.1	80.0-120	
Vanadium	0.0500	0.0475	95.0	80.0-120	

L1597529-32 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597529-32 03/28/23 14:47 • (MS) R3906401-2 03/28/23 14:53 • (MSD) R3906401-3 03/28/23 14:56

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	0.0500	U	0.0503	0.0476	101	95.1	10	75.0-125			5.70	20
Barium	0.0500	0.0244	0.0749	0.0724	101	96.1	10	75.0-125			3.32	20
Cadmium	0.0500	U	0.0491	0.0477	98.2	95.4	10	75.0-125			2.85	20
Calcium	5.00	1110	1110	1100	0.000	0.000	10	75.0-125	V	V	0.238	20
Chromium	0.0500	U	0.0535	0.0515	107	103	10	75.0-125			3.79	20
Cobalt	0.0500	U	0.0492	0.0462	98.3	92.4	10	75.0-125			6.19	20
Iron	5.00	1.12	6.02	5.76	98.0	92.8	10	75.0-125			4.42	20
Lead	0.0500	U	0.0487	0.0452	97.5	90.3	10	75.0-125			7.65	20
Manganese	0.0500	0.123	0.171	0.168	97.3	90.1	10	75.0-125			2.13	20
Nickel	0.0500	0.0528	0.0997	0.0973	93.7	88.9	10	75.0-125			2.47	20
Potassium	5.00	18.1	23.0	23.1	96.8	101	10	75.0-125			0.812	20
Selenium	0.0500	U	0.0520	0.0508	104	102	10	75.0-125			2.28	20
Sodium	5.00	4840	4830	4800	0.000	0.000	10	75.0-125	V	V	0.637	20
Uranium	0.0500	U	0.0526	0.0510	105	102	10	75.0-125			3.00	20
Vanadium	0.0500	U	0.0503	0.0468	101	93.5	10	75.0-125			7.31	20

Sample Narrative:

OS: Dilution due to matrix.

Method Blank (MB)

(MB) R3905563-1 03/26/23 20:38

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	0.00200
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) R3905563-2 03/26/23 20:41

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	0.0500	0.0436	87.2	80.0-120	
Barium	0.0500	0.0442	88.5	80.0-120	
Cadmium	0.0500	0.0478	95.5	80.0-120	
Calcium	5.00	4.53	90.6	80.0-120	
Chromium	0.0500	0.0459	91.9	80.0-120	
Cobalt	0.0500	0.0466	93.2	80.0-120	
Iron	5.00	4.76	95.2	80.0-120	
Lead	0.0500	0.0453	90.6	80.0-120	
Manganese	0.0500	0.0477	95.3	80.0-120	
Nickel	0.0500	0.0457	91.5	80.0-120	
Potassium	5.00	4.54	90.8	80.0-120	
Selenium	0.0500	0.0494	98.8	80.0-120	
Sodium	5.00	4.59	91.8	80.0-120	
Uranium	0.0500	0.0434	86.9	80.0-120	
Vanadium	0.0500	0.0456	91.2	80.0-120	

L1597529-59 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597529-59 03/26/23 20:44 • (MS) R3905563-4 03/26/23 20:51 • (MSD) R3905563-5 03/26/23 20:54

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 %
Arsenic	0.0500	0.00342	0.0496	0.0486	92.4	90.3	1	75.0-125			2.12	20
Barium	0.0500	0.00890	0.0539	0.0524	90.1	87.1	1	75.0-125			2.82	20
Cadmium	0.0500	U	0.0463	0.0458	92.6	91.6	1	75.0-125			1.07	20
Calcium	5.00	466	466	466	0.000	0.000	1	75.0-125	V	V	0.00762	20
Chromium	0.0500	U	0.0455	0.0449	91.0	89.7	1	75.0-125			1.38	20
Cobalt	0.0500	0.00595	0.0511	0.0503	90.4	88.7	1	75.0-125			1.66	20
Iron	5.00	U	4.71	4.61	94.2	92.3	1	75.0-125			2.03	20
Lead	0.0500	U	0.0460	0.0455	91.9	91.1	1	75.0-125			0.885	20
Manganese	0.0500	0.381	0.430	0.422	98.3	82.1	1	75.0-125			1.91	20
Nickel	0.0500	0.00773	0.0516	0.0512	87.8	87.0	1	75.0-125			0.827	20
Potassium	5.00	1.21	5.59	5.53	87.6	86.5	1	75.0-125			1.03	20
Selenium	0.0500	0.000702	0.0508	0.0497	100	97.9	1	75.0-125			2.19	20
Sodium	5.00	190	194	195	93.4	109	1	75.0-125			0.392	20
Uranium	0.0500	0.0314	0.0772	0.0772	91.6	91.5	1	75.0-125			0.0655	20
Vanadium	0.0500	0.0172	0.0649	0.0618	95.5	89.3	1	75.0-125			4.91	20

Method Blank (MB)

(MB) R3906005-1 03/27/23 16:54

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	0.102	J	0.0936	1.00
Chromium	0.00147	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
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

Method Blank (MB)

(MB) R3906013-1 03/27/23 19:04

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Nickel	U		0.000816	0.00200

Laboratory Control Sample (LCS)

(LCS) R3906005-2 03/27/23 16:57

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	0.0500	0.0473	94.6	80.0-120	
Barium	0.0500	0.0476	95.2	80.0-120	
Cadmium	0.0500	0.0510	102	80.0-120	
Calcium	5.00	4.86	97.3	80.0-120	
Chromium	0.0500	0.0499	99.9	80.0-120	
Cobalt	0.0500	0.0493	98.5	80.0-120	
Iron	5.00	4.84	96.9	80.0-120	
Lead	0.0500	0.0474	94.9	80.0-120	
Manganese	0.0500	0.0517	103	80.0-120	
Potassium	5.00	4.75	95.1	80.0-120	
Selenium	0.0500	0.0496	99.2	80.0-120	
Sodium	5.00	4.99	99.8	80.0-120	

Laboratory Control Sample (LCS)

(LCS) R3906005-2 03/27/23 16:57

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Uranium	0.0500	0.0480	96.0	80.0-120	
Vanadium	0.0500	0.0486	97.3	80.0-120	

Laboratory Control Sample (LCS)

(LCS) R3906013-2 03/27/23 19:07

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Nickel	0.0500	0.0508	102	80.0-120	

L1598041-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1598041-10 03/27/23 17:00 • (MS) R3906005-4 03/27/23 17:07 • (MSD) R3906005-5 03/27/23 17:10

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 %
Arsenic	0.0500	0.00547	0.0534	0.0527	95.8	94.4	1	75.0-125			1.36	20
Barium	0.0500	0.0117	0.0574	0.0574	91.5	91.4	1	75.0-125			0.0617	20
Cadmium	0.0500	U	0.0505	0.0496	101	99.2	1	75.0-125			1.76	20
Calcium	5.00	134	140	140	119	116	1	75.0-125			0.108	20
Chromium	0.0500	0.00185	0.0597	0.0502	116	96.7	1	75.0-125			17.3	20
Cobalt	0.0500	0.0000899	0.0481	0.0476	96.1	95.1	1	75.0-125			1.03	20
Iron	5.00	U	4.94	4.74	98.8	94.9	1	75.0-125			4.03	20
Lead	0.0500	U	0.0497	0.0491	99.4	98.2	1	75.0-125			1.21	20
Manganese	0.0500	U	0.0497	0.0481	99.3	96.2	1	75.0-125			3.14	20
Potassium	5.00	1.45	6.21	6.06	95.1	92.1	1	75.0-125			2.45	20
Selenium	0.0500	0.00435	0.0562	0.0545	104	100	1	75.0-125			3.14	20
Sodium	5.00	190	196	194	131	85.1	1	75.0-125	V		1.19	20
Uranium	0.0500	0.0205	0.0725	0.0724	104	104	1	75.0-125			0.103	20
Vanadium	0.0500	0.0535	0.102	0.102	96.4	96.3	1	75.0-125			0.0515	20

L1598041-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1598041-10 03/27/23 19:10 • (MS) R3906013-4 03/27/23 19:17 • (MSD) R3906013-5 03/27/23 19:20

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 %
Nickel	0.0500	0.00775	0.0535	0.0479	91.4	80.3	1	75.0-125			11.0	20

Method Blank (MB)

(MB) R3907081-1 03/29/23 22:15

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	0.191	J	0.108	2.00
Selenium	U		0.000300	0.00200
Sodium	U		0.376	2.00

Laboratory Control Sample (LCS)

(LCS) R3907081-2 03/29/23 22:19

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	0.0500	0.0476	95.2	80.0-120	
Barium	0.0500	0.0457	91.3	80.0-120	
Calcium	5.00	4.76	95.1	80.0-120	
Chromium	0.0500	0.0493	98.7	80.0-120	
Iron	5.00	5.02	100	80.0-120	
Lead	0.0500	0.0477	95.5	80.0-120	
Manganese	0.0500	0.0490	97.9	80.0-120	
Potassium	5.00	5.28	106	80.0-120	
Selenium	0.0500	0.0486	97.1	80.0-120	
Sodium	5.00	5.05	101	80.0-120	

L1597529-86 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597529-86 03/29/23 22:22 • (MS) R3907081-4 03/29/23 22:28 • (MSD) R3907081-5 03/29/23 22:32

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	0.0500	0.00844	0.0598	0.0603	103	104	1	75.0-125			0.937	20
Barium	0.0500	0.0224	0.0713	0.0716	97.7	98.3	1	75.0-125			0.445	20
Calcium	5.00	577	585	577	162	8.85	1	75.0-125	V	V	1.32	20
Chromium	0.0500	U	0.0508	0.0513	102	103	1	75.0-125			0.931	20
Iron	5.00	0.0889	5.20	5.21	102	102	1	75.0-125			0.134	20
Lead	0.0500	0.0120	0.0630	0.0618	102	99.6	1	75.0-125			2.00	20
Manganese	0.0500	2.08	2.05	2.05	0.000	0.000	1	75.0-125	V	V	0.229	20

Received by OCD: 6/12/2024 3:31:05 PM

L1597529-86 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597529-86 03/29/23 22:22 • (MS) R3907081-4 03/29/23 22:28 • (MSD) R3907081-5 03/29/23 22:32

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 %
Potassium	5.00	9.15	14.0	13.8	97.0	92.0	1	75.0-125			1.80	20
Selenium	0.0500	0.00442	0.0587	0.0578	109	107	1	75.0-125			1.60	20
Sodium	5.00	267	273	274	131	141	1	75.0-125	V	V	0.189	20

Released to Imaging: 6/28/2024 11:23:28 AM

Received by OCD: 6/12/2024 3:31:05 PM

Method Blank (MB)

(MB) R3907491-2 03/25/23 22:16

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	0.0706	J	0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*96.5*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R3907491-1 03/25/23 19:54

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.48	99.6	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*102*	*78.0-120*	

Released to Imaging: 6/28/2024 11:23:28 AM

Method Blank (MB)

(MB) R3907487-2 03/26/23 11:29

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	0.0699	J	0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*96.8*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R3907487-1 03/26/23 10:24

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.10	92.7	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*102*	*78.0-120*	

Method Blank (MB)

(MB) R3906685-2 03/26/23 11:30

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) R3906685-1 03/26/23 10:26

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.71	104	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*103*	*78.0-120*	

Method Blank (MB)

(MB) R3906325-2 03/26/23 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)	*99.7*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R3906325-1 03/26/23 11:05

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	4.67	84.9	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*105*	*78.0-120*	

Method Blank (MB)

(MB) R3906735-2 03/28/23 21:47

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)	*110*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R3906735-1 03/28/23 20:33

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.71	104	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*106*	*78.0-120*	

Method Blank (MB)

(MB) R3906950-2 03/29/23 13:10

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)	*111*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R3906950-1 03/29/23 12:17

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.55	101	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*107*	*78.0-120*	

Received by OCD: 6/12/2024 3:31:05 PM

Method Blank (MB)

(MB) R3907889-2 03/30/23 16:20

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	0.0456	J	0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*100*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R3907889-1 03/30/23 15:17

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.75	105	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*105*	*78.0-120*	

Released to Imaging: 6/28/2024 11:23:28 AM

Method Blank (MB)

(MB) R3905593-2 03/26/23 23:55

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
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
2-Hexanone	U		0.000787	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
tert-Butyl alcohol	U		0.00406	0.00500
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

Method Blank (MB)

(MB) R3905593-2 03/26/23 23:55

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,1,2-Trichloroethane	U		0.000158	0.00100
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
o-Xylene	U		0.000174	0.00100
m&p-Xylene	U		0.000430	0.00200
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	*109*			*80.0-120*
(S) 4-Bromofluorobenzene	*105*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3905593-1 03/26/23 23:01

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.0250	0.0252	101	19.0-160	
Benzene	0.00500	0.00480	96.0	70.0-123	
Bromodichloromethane	0.00500	0.00551	110	75.0-120	
Bromoform	0.00500	0.00536	107	68.0-132	
Bromomethane	0.00500	0.00166	33.2	10.0-160	
n-Butylbenzene	0.00500	0.00559	112	73.0-125	
sec-Butylbenzene	0.00500	0.00559	112	75.0-125	
Carbon disulfide	0.00500	0.00491	98.2	61.0-128	
Carbon tetrachloride	0.00500	0.00616	123	68.0-126	
Chlorobenzene	0.00500	0.00544	109	80.0-121	
Chlorodibromomethane	0.00500	0.00504	101	77.0-125	
Chloroethane	0.00500	0.00565	113	47.0-150	
Chloroform	0.00500	0.00580	116	73.0-120	
Chloromethane	0.00500	0.00529	106	41.0-142	
1,2-Dibromoethane	0.00500	0.00561	112	80.0-122	
1,1-Dichloroethane	0.00500	0.00552	110	70.0-126	
1,2-Dichloroethane	0.00500	0.00631	126	70.0-128	
1,1-Dichloroethene	0.00500	0.00540	108	71.0-124	
cis-1,2-Dichloroethene	0.00500	0.00525	105	73.0-120	
trans-1,2-Dichloroethene	0.00500	0.00544	109	73.0-120	
1,2-Dichloropropane	0.00500	0.00510	102	77.0-125	
cis-1,3-Dichloropropene	0.00500	0.00494	98.8	80.0-123	

Laboratory Control Sample (LCS)

(LCS) R3905593-1 03/26/23 23:01

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
trans-1,3-Dichloropropene	0.00500	0.00540	108	78.0-124	
Ethylbenzene	0.00500	0.00552	110	79.0-123	
Isopropylbenzene	0.00500	0.00521	104	76.0-127	
p-Isopropyltoluene	0.00500	0.00538	108	76.0-125	
2-Butanone (MEK)	0.0250	0.0257	103	44.0-160	
2-Hexanone	0.0250	0.0253	101	67.0-149	
Methylene Chloride	0.00500	0.00529	106	67.0-120	
4-Methyl-2-pentanone (MIBK)	0.0250	0.0265	106	68.0-142	
Methyl tert-butyl ether	0.00500	0.00518	104	68.0-125	
Naphthalene	0.00500	0.00378	75.6	54.0-135	
n-Propylbenzene	0.00500	0.00550	110	77.0-124	
Styrene	0.00500	0.00521	104	73.0-130	
tert-Butyl alcohol	0.0250	0.0336	134	27.0-160	
1,1,1,2-Tetrachloroethane	0.00500	0.00530	106	75.0-125	
1,1,2,2-Tetrachloroethane	0.00500	0.00538	108	65.0-130	
Tetrachloroethene	0.00500	0.00472	94.4	72.0-132	
Toluene	0.00500	0.00539	108	79.0-120	
1,1,1-Trichloroethane	0.00500	0.00622	124	73.0-124	
1,1,2-Trichloroethane	0.00500	0.00534	107	80.0-120	
Trichloroethene	0.00500	0.00528	106	78.0-124	
1,2,4-Trimethylbenzene	0.00500	0.00546	109	76.0-121	
1,3,5-Trimethylbenzene	0.00500	0.00551	110	76.0-122	
Vinyl chloride	0.00500	0.00578	116	67.0-131	
o-Xylene	0.00500	0.00531	106	80.0-122	
m&p-Xylene	0.0100	0.0111	111	80.0-122	
Xylenes, Total	0.0150	0.0164	109	79.0-123	
(S) Toluene-d8			*111*	*80.0-120*	
(S) 4-Bromofluorobenzene			*111*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*111*	*70.0-130*	

Received by OCD: 6/12/2024 3:31:05 PM

Method Blank (MB)

(MB) R3906863-3 03/27/23 13:36

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
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
2-Hexanone	U		0.000787	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
tert-Butyl alcohol	U		0.00406	0.00500
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

Released to Imaging: 6/28/2024 11:23:28 AM

Method Blank (MB)

(MB) R3906863-3 03/27/23 13:36

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,1,2-Trichloroethane	U		0.000158	0.00100
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
o-Xylene	U		0.000174	0.00100
m&p-Xylenes	U		0.000430	0.00200
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	*107*			*80.0-120*
(S) 4-Bromofluorobenzene	*102*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3906863-1 03/27/23 12:31 • (LCSD) R3906863-2 03/27/23 12:53

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	0.0194	0.0202	77.6	80.8	19.0-160			4.04	27
Benzene	0.00500	0.00536	0.00564	107	113	70.0-123			5.09	20
Bromodichloromethane	0.00500	0.00552	0.00569	110	114	75.0-120			3.03	20
Bromoform	0.00500	0.00512	0.00520	102	104	68.0-132			1.55	20
Bromomethane	0.00500	0.00218	0.00238	43.6	47.6	10.0-160			8.77	25
n-Butylbenzene	0.00500	0.00471	0.00499	94.2	99.8	73.0-125			5.77	20
sec-Butylbenzene	0.00500	0.00485	0.00518	97.0	104	75.0-125			6.58	20
Carbon disulfide	0.00500	0.00455	0.00469	91.0	93.8	61.0-128			3.03	20
Carbon tetrachloride	0.00500	0.00622	0.00566	124	113	68.0-126			9.43	20
Chlorobenzene	0.00500	0.00558	0.00570	112	114	80.0-121			2.13	20
Chlorodibromomethane	0.00500	0.00514	0.00533	103	107	77.0-125			3.63	20
Chloroethane	0.00500	0.00609	0.00625	122	125	47.0-150			2.59	20
Chloroform	0.00500	0.00551	0.00584	110	117	73.0-120			5.81	20
Chloromethane	0.00500	0.00360	0.00375	72.0	75.0	41.0-142			4.08	20
1,2-Dibromoethane	0.00500	0.00535	0.00548	107	110	80.0-122			2.40	20
1,1-Dichloroethane	0.00500	0.00486	0.00508	97.2	102	70.0-126			4.43	20
1,2-Dichloroethane	0.00500	0.00522	0.00540	104	108	70.0-128			3.39	20
1,1-Dichloroethene	0.00500	0.00571	0.00505	114	101	71.0-124			12.3	20
cis-1,2-Dichloroethene	0.00500	0.00562	0.00576	112	115	73.0-120			2.46	20
trans-1,2-Dichloroethene	0.00500	0.00547	0.00550	109	110	73.0-120			0.547	20
1,2-Dichloropropane	0.00500	0.00465	0.00460	93.0	92.0	77.0-125			1.08	20
cis-1,3-Dichloropropene	0.00500	0.00520	0.00550	104	110	80.0-123			5.61	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3906863-1 03/27/23 12:31 • (LCSD) R3906863-2 03/27/23 12:53

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	0.00495	0.00506	99.0	101	78.0-124			2.20	20
Ethylbenzene	0.00500	0.00541	0.00565	108	113	79.0-123			4.34	20
Isopropylbenzene	0.00500	0.00561	0.00567	112	113	76.0-127			1.06	20
p-Isopropyltoluene	0.00500	0.00496	0.00524	99.2	105	76.0-125			5.49	20
2-Butanone (MEK)	0.0250	0.0158	0.0199	63.2	79.6	44.0-160		J3	23.0	20
2-Hexanone	0.0250	0.0222	0.0219	88.8	87.6	67.0-149			1.36	20
Methylene Chloride	0.00500	0.00588	0.00575	118	115	67.0-120			2.24	20
4-Methyl-2-pentanone (MIBK)	0.0250	0.0199	0.0196	79.6	78.4	68.0-142			1.52	20
Methyl tert-butyl ether	0.00500	0.00546	0.00555	109	111	68.0-125			1.63	20
Naphthalene	0.00500	0.00338	0.00360	67.6	72.0	54.0-135			6.30	20
n-Propylbenzene	0.00500	0.00499	0.00531	99.8	106	77.0-124			6.21	20
Styrene	0.00500	0.00485	0.00508	97.0	102	73.0-130			4.63	20
tert-Butyl alcohol	0.0250	0.0285	0.0246	114	98.4	27.0-160			14.7	30
1,1,1,2-Tetrachloroethane	0.00500	0.00550	0.00572	110	114	75.0-125			3.92	20
1,1,2,2-Tetrachloroethane	0.00500	0.00496	0.00490	99.2	98.0	65.0-130			1.22	20
Tetrachloroethene	0.00500	0.00567	0.00572	113	114	72.0-132			0.878	20
Toluene	0.00500	0.00545	0.00576	109	115	79.0-120			5.53	20
1,1,1-Trichloroethane	0.00500	0.00591	0.00595	118	119	73.0-124			0.675	20
1,1,2-Trichloroethane	0.00500	0.00537	0.00564	107	113	80.0-120			4.90	20
Trichloroethene	0.00500	0.00556	0.00598	111	120	78.0-124			7.28	20
1,2,4-Trimethylbenzene	0.00500	0.00517	0.00516	103	103	76.0-121			0.194	20
1,3,5-Trimethylbenzene	0.00500	0.00511	0.00515	102	103	76.0-122			0.780	20
Vinyl chloride	0.00500	0.00539	0.00505	108	101	67.0-131			6.51	20
o-Xylene	0.00500	0.00538	0.00548	108	110	80.0-122			1.84	20
m&p-Xylenes	0.0100	0.0108	0.0116	108	116	80.0-122			7.14	20
Xylenes, Total	0.0150	0.0162	0.0171	108	114	79.0-123			5.41	20
(S) Toluene-d8				*106*	*103*	*80.0-120*				
(S) 4-Bromofluorobenzene				*106*	*102*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*107*	*102*	*70.0-130*				

Method Blank (MB)

(MB) R3905969-3 03/27/23 13:45

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	0.000607	J	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
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
2-Hexanone	U		0.000787	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
tert-Butyl alcohol	U		0.00406	0.00500
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

Method Blank (MB)

(MB) R3905969-3 03/27/23 13:45

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,1,2-Trichloroethane	U		0.000158	0.00100
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
o-Xylene	U		0.000174	0.00100
m&p-Xylenes	U		0.000430	0.00200
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	*107*			*80.0-120*
(S) 4-Bromofluorobenzene	*102*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*123*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3905969-1 03/27/23 12:45 • (LCSD) R3905969-2 03/27/23 13:05

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	0.0227	102	90.8	19.0-160			11.6	27
Benzene	0.00500	0.00537	0.00505	107	101	70.0-123			6.14	20
Bromodichloromethane	0.00500	0.00576	0.00562	115	112	75.0-120			2.46	20
Bromoform	0.00500	0.00499	0.00545	99.8	109	68.0-132			8.81	20
Bromomethane	0.00500	0.00263	0.00286	52.6	57.2	10.0-160			8.38	25
n-Butylbenzene	0.00500	0.00532	0.00481	106	96.2	73.0-125			10.1	20
sec-Butylbenzene	0.00500	0.00508	0.00460	102	92.0	75.0-125			9.92	20
Carbon disulfide	0.00500	0.00529	0.00505	106	101	61.0-128			4.64	20
Carbon tetrachloride	0.00500	0.00525	0.00510	105	102	68.0-126			2.90	20
Chlorobenzene	0.00500	0.00481	0.00490	96.2	98.0	80.0-121			1.85	20
Chlorodibromomethane	0.00500	0.00511	0.00482	102	96.4	77.0-125			5.84	20
Chloroethane	0.00500	0.00463	0.00416	92.6	83.2	47.0-150			10.7	20
Chloroform	0.00500	0.00551	0.00545	110	109	73.0-120			1.09	20
Chloromethane	0.00500	0.00487	0.00470	97.4	94.0	41.0-142			3.55	20
1,2-Dibromoethane	0.00500	0.00439	0.00493	87.8	98.6	80.0-122			11.6	20
1,1-Dichloroethane	0.00500	0.00549	0.00529	110	106	70.0-126			3.71	20
1,2-Dichloroethane	0.00500	0.00584	0.00553	117	111	70.0-128			5.45	20
1,1-Dichloroethene	0.00500	0.00456	0.00427	91.2	85.4	71.0-124			6.57	20
cis-1,2-Dichloroethene	0.00500	0.00536	0.00486	107	97.2	73.0-120			9.78	20
trans-1,2-Dichloroethene	0.00500	0.00557	0.00499	111	99.8	73.0-120			11.0	20
1,2-Dichloropropane	0.00500	0.00523	0.00491	105	98.2	77.0-125			6.31	20
cis-1,3-Dichloropropene	0.00500	0.00523	0.00507	105	101	80.0-123			3.11	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3905969-1 03/27/23 12:45 • (LCSD) R3905969-2 03/27/23 13:05

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	0.00503	0.00520	101	104	78.0-124			3.32	20
Ethylbenzene	0.00500	0.00470	0.00460	94.0	92.0	79.0-123			2.15	20
Isopropylbenzene	0.00500	0.00460	0.00482	92.0	96.4	76.0-127			4.67	20
p-Isopropyltoluene	0.00500	0.00481	0.00462	96.2	92.4	76.0-125			4.03	20
2-Butanone (MEK)	0.0250	0.0227	0.0209	90.8	83.6	44.0-160			8.26	20
2-Hexanone	0.0250	0.0220	0.0215	88.0	86.0	67.0-149			2.30	20
Methylene Chloride	0.00500	0.00529	0.00506	106	101	67.0-120			4.44	20
4-Methyl-2-pentanone (MIBK)	0.0250	0.0221	0.0219	88.4	87.6	68.0-142			0.909	20
Methyl tert-butyl ether	0.00500	0.00545	0.00508	109	102	68.0-125			7.03	20
Naphthalene	0.00500	0.00415	0.00367	83.0	73.4	54.0-135			12.3	20
n-Propylbenzene	0.00500	0.00530	0.00495	106	99.0	77.0-124			6.83	20
Styrene	0.00500	0.00443	0.00465	88.6	93.0	73.0-130			4.85	20
tert-Butyl alcohol	0.0250	0.0253	0.0224	101	89.6	27.0-160			12.2	30
1,1,1,2-Tetrachloroethane	0.00500	0.00489	0.00530	97.8	106	75.0-125			8.05	20
1,1,2,2-Tetrachloroethane	0.00500	0.00555	0.00519	111	104	65.0-130			6.70	20
Tetrachloroethene	0.00500	0.00526	0.00509	105	102	72.0-132			3.29	20
Toluene	0.00500	0.00504	0.00503	101	101	79.0-120			0.199	20
1,1,1-Trichloroethane	0.00500	0.00601	0.00541	120	108	73.0-124			10.5	20
1,1,2-Trichloroethane	0.00500	0.00481	0.00502	96.2	100	80.0-120			4.27	20
Trichloroethene	0.00500	0.00445	0.00425	89.0	85.0	78.0-124			4.60	20
1,2,4-Trimethylbenzene	0.00500	0.00541	0.00482	108	96.4	76.0-121			11.5	20
1,3,5-Trimethylbenzene	0.00500	0.00528	0.00489	106	97.8	76.0-122			7.67	20
Vinyl chloride	0.00500	0.00481	0.00440	96.2	88.0	67.0-131			8.90	20
o-Xylene	0.00500	0.00465	0.00461	93.0	92.2	80.0-122			0.864	20
m&p-Xylenes	0.0100	0.00918	0.00945	91.8	94.5	80.0-122			2.90	20
Xylenes, Total	0.0150	0.0138	0.0141	92.0	94.0	79.0-123			2.15	20
(S) Toluene-d8				*103*	*104*	*80.0-120*				
(S) 4-Bromofluorobenzene				*93.4*	*103*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*125*	*117*	*70.0-130*				

Method Blank (MB)

(MB) R3906999-3 03/27/23 19:10

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Methyl tert-butyl ether	U		0.000101	0.00100
(S) Toluene-d8	*91.6*			*80.0-120*
(S) 4-Bromofluorobenzene	*97.2*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*116*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3906999-1 03/27/23 18:13 • (LCSD) R3906999-2 03/27/23 18:32

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	0.00517	0.00522	103	104	68.0-125			0.962	20
(S) Toluene-d8				*92.1*	*93.4*	*80.0-120*				
(S) 4-Bromofluorobenzene				*96.9*	*96.8*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*115*	*120*	*70.0-130*				

Method Blank (MB)

(MB) R3906429-2 03/27/23 21:01

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	0.000228	J	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
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
2-Hexanone	U		0.000787	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
tert-Butyl alcohol	U		0.00406	0.00500
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

Method Blank (MB)

(MB) R3906429-2 03/27/23 21:01

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,1,2-Trichloroethane	U		0.000158	0.00100
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
o-Xylene	U		0.000174	0.00100
m&p-Xylenes	U		0.000430	0.00200
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	*98.6*			*80.0-120*
(S) 4-Bromofluorobenzene	*83.9*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*82.0*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3906429-1 03/27/23 20:17

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.0250	0.0203	81.2	19.0-160	
Benzene	0.00500	0.00572	114	70.0-123	
Bromodichloromethane	0.00500	0.00499	99.8	75.0-120	
Bromoform	0.00500	0.00441	88.2	68.0-132	
Bromomethane	0.00500	0.00211	42.2	10.0-160	
n-Butylbenzene	0.00500	0.00499	99.8	73.0-125	
sec-Butylbenzene	0.00500	0.00536	107	75.0-125	
Carbon disulfide	0.00500	0.00570	114	61.0-128	
Carbon tetrachloride	0.00500	0.00525	105	68.0-126	
Chlorobenzene	0.00500	0.00526	105	80.0-121	
Chlorodibromomethane	0.00500	0.00459	91.8	77.0-125	
Chloroethane	0.00500	0.00530	106	47.0-150	
Chloroform	0.00500	0.00547	109	73.0-120	
Chloromethane	0.00500	0.00352	70.4	41.0-142	
1,2-Dibromoethane	0.00500	0.00503	101	80.0-122	
1,1-Dichloroethane	0.00500	0.00498	99.6	70.0-126	
1,2-Dichloroethane	0.00500	0.00476	95.2	70.0-128	
1,1-Dichloroethene	0.00500	0.00560	112	71.0-124	
cis-1,2-Dichloroethene	0.00500	0.00564	113	73.0-120	
trans-1,2-Dichloroethene	0.00500	0.00552	110	73.0-120	
1,2-Dichloropropane	0.00500	0.00528	106	77.0-125	
cis-1,3-Dichloropropene	0.00500	0.00459	91.8	80.0-123	

Received by OCD: 6/12/2024 3:31:05 PM

Laboratory Control Sample (LCS)

(LCS) R3906429-1 03/27/23 20:17

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
trans-1,3-Dichloropropene	0.00500	0.00436	87.2	78.0-124	
Ethylbenzene	0.00500	0.00520	104	79.0-123	
Isopropylbenzene	0.00500	0.00508	102	76.0-127	
p-Isopropyltoluene	0.00500	0.00512	102	76.0-125	
2-Butanone (MEK)	0.0250	0.0195	78.0	44.0-160	
2-Hexanone	0.0250	0.0184	73.6	67.0-149	
Methylene Chloride	0.00500	0.00575	115	67.0-120	
4-Methyl-2-pentanone (MIBK)	0.0250	0.0178	71.2	68.0-142	
Methyl tert-butyl ether	0.00500	0.00485	97.0	68.0-125	
Naphthalene	0.00500	0.00305	61.0	54.0-135	
n-Propylbenzene	0.00500	0.00527	105	77.0-124	
Styrene	0.00500	0.00501	100	73.0-130	
tert-Butyl alcohol	0.0250	0.0270	108	27.0-160	
1,1,1,2-Tetrachloroethane	0.00500	0.00494	98.8	75.0-125	
1,1,2,2-Tetrachloroethane	0.00500	0.00477	95.4	65.0-130	
Tetrachloroethene	0.00500	0.00505	101	72.0-132	
Toluene	0.00500	0.00518	104	79.0-120	
1,1,1-Trichloroethane	0.00500	0.00554	111	73.0-124	
1,1,2-Trichloroethane	0.00500	0.00490	98.0	80.0-120	
Trichloroethene	0.00500	0.00546	109	78.0-124	
1,2,4-Trimethylbenzene	0.00500	0.00516	103	76.0-121	
1,3,5-Trimethylbenzene	0.00500	0.00517	103	76.0-122	
Vinyl chloride	0.00500	0.00430	86.0	67.0-131	
o-Xylene	0.00500	0.00516	103	80.0-122	
m&p-Xylenes	0.0100	0.0104	104	80.0-122	
Xylenes, Total	0.0150	0.0156	104	79.0-123	
(S) Toluene-d8			*93.8*	*80.0-120*	
(S) 4-Bromofluorobenzene			*87.3*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*85.5*	*70.0-130*	

Released to Imaging: 6/28/2024 11:23:28 AM

Method Blank (MB)

(MB) R3907430-3 03/28/23 03:08

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
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
2-Hexanone	U		0.000787	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
tert-Butyl alcohol	U		0.00406	0.00500
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

Method Blank (MB)

(MB) R3907430-3 03/28/23 03:08

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,1,2-Trichloroethane	U		0.000158	0.00100
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
o-Xylene	U		0.000174	0.00100
m&p-Xylenes	U		0.000430	0.00200
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	*107*			*80.0-120*
(S) 4-Bromofluorobenzene	*107*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3907430-1 03/28/23 01:58 • (LCSD) R3907430-2 03/28/23 02:21

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	0.0280	0.0295	112	118	19.0-160			5.22	27
Benzene	0.00500	0.00437	0.00450	87.4	90.0	70.0-123			2.93	20
Bromodichloromethane	0.00500	0.00520	0.00559	104	112	75.0-120			7.23	20
Bromoform	0.00500	0.00459	0.00467	91.8	93.4	68.0-132			1.73	20
Bromomethane	0.00500	0.00145	0.00168	29.0	33.6	10.0-160			14.7	25
n-Butylbenzene	0.00500	0.00496	0.00520	99.2	104	73.0-125			4.72	20
sec-Butylbenzene	0.00500	0.00498	0.00527	99.6	105	75.0-125			5.66	20
Carbon disulfide	0.00500	0.00398	0.00402	79.6	80.4	61.0-128			1.00	20
Carbon tetrachloride	0.00500	0.00507	0.00524	101	105	68.0-126			3.30	20
Chlorobenzene	0.00500	0.00501	0.00501	100	100	80.0-121			0.000	20
Chlorodibromomethane	0.00500	0.00524	0.00476	105	95.2	77.0-125			9.60	20
Chloroethane	0.00500	0.00485	0.00472	97.0	94.4	47.0-150			2.72	20
Chloroform	0.00500	0.00504	0.00543	101	109	73.0-120			7.45	20
Chloromethane	0.00500	0.00421	0.00433	84.2	86.6	41.0-142			2.81	20
1,2-Dibromoethane	0.00500	0.00556	0.00520	111	104	80.0-122			6.69	20
1,1-Dichloroethane	0.00500	0.00475	0.00493	95.0	98.6	70.0-126			3.72	20
1,2-Dichloroethane	0.00500	0.00542	0.00580	108	116	70.0-128			6.77	20
1,1-Dichloroethene	0.00500	0.00434	0.00522	86.8	104	71.0-124			18.4	20
cis-1,2-Dichloroethene	0.00500	0.00514	0.00463	103	92.6	73.0-120			10.4	20
trans-1,2-Dichloroethene	0.00500	0.00457	0.00494	91.4	98.8	73.0-120			7.78	20
1,2-Dichloropropane	0.00500	0.00443	0.00472	88.6	94.4	77.0-125			6.34	20
cis-1,3-Dichloropropene	0.00500	0.00470	0.00473	94.0	94.6	80.0-123			0.636	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3907430-1 03/28/23 01:58 • (LCSD) R3907430-2 03/28/23 02:21

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 %
trans-1,3-Dichloropropene	0.00500	0.00516	0.00504	103	101	78.0-124			2.35	20
Ethylbenzene	0.00500	0.00466	0.00487	93.2	97.4	79.0-123			4.41	20
Isopropylbenzene	0.00500	0.00483	0.00474	96.6	94.8	76.0-127			1.88	20
p-Isopropyltoluene	0.00500	0.00465	0.00526	93.0	105	76.0-125			12.3	20
2-Butanone (MEK)	0.0250	0.0233	0.0277	93.2	111	44.0-160			17.3	20
2-Hexanone	0.0250	0.0255	0.0248	102	99.2	67.0-149			2.78	20
Methylene Chloride	0.00500	0.00452	0.00488	90.4	97.6	67.0-120			7.66	20
4-Methyl-2-pentanone (MIBK)	0.0250	0.0266	0.0264	106	106	68.0-142			0.755	20
Methyl tert-butyl ether	0.00500	0.00484	0.00532	96.8	106	68.0-125			9.45	20
Naphthalene	0.00500	0.00370	0.00394	74.0	78.8	54.0-135			6.28	20
n-Propylbenzene	0.00500	0.00485	0.00506	97.0	101	77.0-124			4.24	20
Styrene	0.00500	0.00480	0.00486	96.0	97.2	73.0-130			1.24	20
tert-Butyl alcohol	0.0250	0.0297	0.0251	119	100	27.0-160			16.8	30
1,1,1,2-Tetrachloroethane	0.00500	0.00488	0.00458	97.6	91.6	75.0-125			6.34	20
1,1,2,2-Tetrachloroethane	0.00500	0.00517	0.00513	103	103	65.0-130			0.777	20
Tetrachloroethene	0.00500	0.00468	0.00449	93.6	89.8	72.0-132			4.14	20
Toluene	0.00500	0.00491	0.00481	98.2	96.2	79.0-120			2.06	20
1,1,1-Trichloroethane	0.00500	0.00529	0.00542	106	108	73.0-124			2.43	20
1,1,2-Trichloroethane	0.00500	0.00497	0.00507	99.4	101	80.0-120			1.99	20
Trichloroethene	0.00500	0.00437	0.00497	87.4	99.4	78.0-124			12.8	20
1,2,4-Trimethylbenzene	0.00500	0.00479	0.00528	95.8	106	76.0-121			9.73	20
1,3,5-Trimethylbenzene	0.00500	0.00491	0.00530	98.2	106	76.0-122			7.64	20
Vinyl chloride	0.00500	0.00476	0.00446	95.2	89.2	67.0-131			6.51	20
o-Xylene	0.00500	0.00495	0.00466	99.0	93.2	80.0-122			6.04	20
m&p-Xylenes	0.0100	0.0103	0.00994	103	99.4	80.0-122			3.56	20
Xylenes, Total	0.0150	0.0153	0.0146	102	97.3	79.0-123			4.68	20
(S) Toluene-d8				*111*	*104*	*80.0-120*				
(S) 4-Bromofluorobenzene				*110*	*102*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*110*	*114*	*70.0-130*				

Method Blank (MB)

(MB) R3906639-3 03/28/23 17:19

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.0000941	0.00100
Ethylbenzene	U		0.000137	0.00100
n-Propylbenzene	U		0.0000993	0.00100
1,2,4-Trimethylbenzene	U		0.000322	0.00100
(S) Toluene-d8	*99.0*			*80.0-120*
(S) 4-Bromofluorobenzene	*94.8*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*128*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3906639-1 03/28/23 16:20 • (LCSD) R3906639-2 03/28/23 16:39

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	0.00506	0.00477	101	95.4	70.0-123			5.90	20
Ethylbenzene	0.00500	0.00447	0.00411	89.4	82.2	79.0-123			8.39	20
n-Propylbenzene	0.00500	0.00434	0.00431	86.8	86.2	77.0-124			0.694	20
1,2,4-Trimethylbenzene	0.00500	0.00442	0.00434	88.4	86.8	76.0-121			1.83	20
(S) Toluene-d8				*99.9*	*95.4*	*80.0-120*				
(S) 4-Bromofluorobenzene				*95.6*	*92.3*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*127*	*127*	*70.0-130*				

Method Blank (MB)

(MB) R3907720-2 03/31/23 01:17

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
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
2-Hexanone	U		0.000787	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
tert-Butyl alcohol	U		0.00406	0.00500
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

Received by OCD: 6/12/2024 3:31:05 PM

Method Blank (MB)

(MB) R3907720-2 03/31/23 01:17

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
o-Xylene	U		0.000174	0.00100
m&p-Xylenes	U		0.000430	0.00200
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	*96.4*			*80.0-120*
(S) 4-Bromofluorobenzene	*82.4*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*82.8*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3907720-1 03/31/23 00:34

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.0250	0.0169	67.6	19.0-160	
Benzene	0.00500	0.00538	108	70.0-123	
Bromodichloromethane	0.00500	0.00507	101	75.0-120	
Bromoform	0.00500	0.00407	81.4	68.0-132	
Bromomethane	0.00500	0.00397	79.4	10.0-160	
n-Butylbenzene	0.00500	0.00503	101	73.0-125	
sec-Butylbenzene	0.00500	0.00521	104	75.0-125	
Carbon disulfide	0.00500	0.00523	105	61.0-128	
Carbon tetrachloride	0.00500	0.00499	99.8	68.0-126	
Chlorobenzene	0.00500	0.00518	104	80.0-121	
Chlorodibromomethane	0.00500	0.00441	88.2	77.0-125	
Chloroethane	0.00500	0.00503	101	47.0-150	
Chloroform	0.00500	0.00528	106	73.0-120	
Chloromethane	0.00500	0.00282	56.4	41.0-142	
1,2-Dibromoethane	0.00500	0.00452	90.4	80.0-122	
1,1-Dichloroethane	0.00500	0.00496	99.2	70.0-126	
1,2-Dichloroethane	0.00500	0.00442	88.4	70.0-128	
1,1-Dichloroethene	0.00500	0.00537	107	71.0-124	
cis-1,2-Dichloroethene	0.00500	0.00551	110	73.0-120	
trans-1,2-Dichloroethene	0.00500	0.00530	106	73.0-120	
1,2-Dichloropropane	0.00500	0.00488	97.6	77.0-125	
cis-1,3-Dichloropropene	0.00500	0.00418	83.6	80.0-123	
trans-1,3-Dichloropropene	0.00500	0.00398	79.6	78.0-124	

Released to Imaging: 6/28/2024 11:23:28 AM

Received by OCD: 6/12/2024 3:31:05 PM

Laboratory Control Sample (LCS)

(LCS) R3907720-1 03/31/23 00:34

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ethylbenzene	0.00500	0.00506	101	79.0-123	
Isopropylbenzene	0.00500	0.00494	98.8	76.0-127	
p-Isopropyltoluene	0.00500	0.00486	97.2	76.0-125	
2-Butanone (MEK)	0.0250	0.0156	62.4	44.0-160	
2-Hexanone	0.0250	0.0159	63.6	67.0-149	J4
Methylene Chloride	0.00500	0.00546	109	67.0-120	
4-Methyl-2-pentanone (MIBK)	0.0250	0.0157	62.8	68.0-142	J4
Methyl tert-butyl ether	0.00500	0.00416	83.2	68.0-125	
n-Propylbenzene	0.00500	0.00521	104	77.0-124	
Styrene	0.00500	0.00494	98.8	73.0-130	
tert-Butyl alcohol	0.0250	0.0227	90.8	27.0-160	
1,1,1,2-Tetrachloroethane	0.00500	0.00514	103	75.0-125	
1,1,2,2-Tetrachloroethane	0.00500	0.00392	78.4	65.0-130	
Tetrachloroethene	0.00500	0.00516	103	72.0-132	
Toluene	0.00500	0.00523	105	79.0-120	
1,1,1-Trichloroethane	0.00500	0.00519	104	73.0-124	
1,1,2-Trichloroethane	0.00500	0.00487	97.4	80.0-120	
Trichloroethene	0.00500	0.00581	116	78.0-124	
1,2,4-Trimethylbenzene	0.00500	0.00514	103	76.0-121	
1,3,5-Trimethylbenzene	0.00500	0.00529	106	76.0-122	
Vinyl chloride	0.00500	0.00446	89.2	67.0-131	
o-Xylene	0.00500	0.00503	101	80.0-122	
m&p-Xylenes	0.0100	0.0103	103	80.0-122	
Xylenes, Total	0.0150	0.0153	102	79.0-123	
(S) Toluene-d8			*96.4*	*80.0-120*	
(S) 4-Bromofluorobenzene			*86.6*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*81.0*	*70.0-130*	

Released to Imaging: 6/28/2024 11:23:28 AM

Method Blank (MB)

(MB) R3907937-5 03/31/23 10:53

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
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
2-Hexanone	U		0.000787	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
tert-Butyl alcohol	U		0.00406	0.00500
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

Method Blank (MB)

(MB) R3907937-5 03/31/23 10:53

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,1,2-Trichloroethane	U		0.000158	0.00100
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
o-Xylene	U		0.000174	0.00100
m&p-Xylenes	U		0.000430	0.00200
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	*108*			*80.0-120*
(S) 4-Bromofluorobenzene	*107*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3907937-1 03/31/23 09:03 • (LCSD) R3907937-2 03/31/23 09:25

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	0.0192	0.0185	76.8	74.0	19.0-160			3.71	27
Benzene	0.00500	0.00526	0.00519	105	104	70.0-123			1.34	20
Bromodichloromethane	0.00500	0.00558	0.00549	112	110	75.0-120			1.63	20
Bromoform	0.00500	0.00469	0.00445	93.8	89.0	68.0-132			5.25	20
Bromomethane	0.00500	0.00296	0.00278	59.2	55.6	10.0-160			6.27	25
n-Butylbenzene	0.00500	0.00492	0.00520	98.4	104	73.0-125			5.53	20
sec-Butylbenzene	0.00500	0.00501	0.00525	100	105	75.0-125			4.68	20
Carbon disulfide	0.00500	0.00483	0.00491	96.6	98.2	61.0-128			1.64	20
Carbon tetrachloride	0.00500	0.00570	0.00602	114	120	68.0-126			5.46	20
Chlorobenzene	0.00500	0.00526	0.00515	105	103	80.0-121			2.11	20
Chlorodibromomethane	0.00500	0.00501	0.00481	100	96.2	77.0-125			4.07	20
Chloroethane	0.00500	0.00584	0.00594	117	119	47.0-150			1.70	20
Chloroform	0.00500	0.00538	0.00573	108	115	73.0-120			6.30	20
Chloromethane	0.00500	0.00352	0.00369	70.4	73.8	41.0-142			4.72	20
1,2-Dibromoethane	0.00500	0.00492	0.00513	98.4	103	80.0-122			4.18	20
1,1-Dichloroethane	0.00500	0.00478	0.00474	95.6	94.8	70.0-126			0.840	20
1,2-Dichloroethane	0.00500	0.00525	0.00514	105	103	70.0-128			2.12	20
1,1-Dichloroethene	0.00500	0.00534	0.00547	107	109	71.0-124			2.41	20
cis-1,2-Dichloroethene	0.00500	0.00528	0.00537	106	107	73.0-120			1.69	20
trans-1,2-Dichloroethene	0.00500	0.00555	0.00543	111	109	73.0-120			2.19	20
1,2-Dichloropropane	0.00500	0.00453	0.00419	90.6	83.8	77.0-125			7.80	20
cis-1,3-Dichloropropene	0.00500	0.00493	0.00484	98.6	96.8	80.0-123			1.84	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3907937-1 03/31/23 09:03 • (LCSD) R3907937-2 03/31/23 09:25

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	0.00475	0.00465	95.0	93.0	78.0-124			2.13	20
Ethylbenzene	0.00500	0.00537	0.00524	107	105	79.0-123			2.45	20
Isopropylbenzene	0.00500	0.00542	0.00561	108	112	76.0-127			3.45	20
p-Isopropyltoluene	0.00500	0.00491	0.00536	98.2	107	76.0-125			8.76	20
2-Butanone (MEK)	0.0250	0.0140	0.0149	56.0	59.6	44.0-160			6.23	20
2-Hexanone	0.0250	0.0199	0.0192	79.6	76.8	67.0-149			3.58	20
Methylene Chloride	0.00500	0.00515	0.00515	103	103	67.0-120			0.000	20
4-Methyl-2-pentanone (MIBK)	0.0250	0.0178	0.0182	71.2	72.8	68.0-142			2.22	20
Methyl tert-butyl ether	0.00500	0.00509	0.00528	102	106	68.0-125			3.66	20
Naphthalene	0.00500	0.00377	0.00411	75.4	82.2	54.0-135			8.63	20
n-Propylbenzene	0.00500	0.00484	0.00526	96.8	105	77.0-124			8.32	20
Styrene	0.00500	0.00462	0.00487	92.4	97.4	73.0-130			5.27	20
tert-Butyl alcohol	0.0250	0.0282	0.0266	113	106	27.0-160			5.84	30
1,1,1,2-Tetrachloroethane	0.00500	0.00555	0.00523	111	105	75.0-125			5.94	20
1,1,2,2-Tetrachloroethane	0.00500	0.00462	0.00480	92.4	96.0	65.0-130			3.82	20
Tetrachloroethene	0.00500	0.00551	0.00575	110	115	72.0-132			4.26	20
Toluene	0.00500	0.00521	0.00540	104	108	79.0-120			3.58	20
1,1,1-Trichloroethane	0.00500	0.00568	0.00609	114	122	73.0-124			6.97	20
1,1,2-Trichloroethane	0.00500	0.00505	0.00520	101	104	80.0-120			2.93	20
Trichloroethene	0.00500	0.00573	0.00599	115	120	78.0-124			4.44	20
1,2,4-Trimethylbenzene	0.00500	0.00459	0.00494	91.8	98.8	76.0-121			7.35	20
1,3,5-Trimethylbenzene	0.00500	0.00465	0.00515	93.0	103	76.0-122			10.2	20
Vinyl chloride	0.00500	0.00525	0.00537	105	107	67.0-131			2.26	20
o-Xylene	0.00500	0.00493	0.00516	98.6	103	80.0-122			4.56	20
m&p-Xylenes	0.0100	0.0105	0.0106	105	106	80.0-122			0.948	20
Xylenes, Total	0.0150	0.0154	0.0158	103	105	79.0-123			2.56	20
(S) Toluene-d8				*108*	*105*	*80.0-120*				
(S) 4-Bromofluorobenzene				*107*	*106*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*104*	*101*	*70.0-130*				

Method Blank (MB)

(MB) R3907938-5 03/31/23 10:53

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Naphthalene	U		0.00100	0.00500
(S) Toluene-d8	*108*			*80.0-120*
(S) 4-Bromofluorobenzene	*107*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3907938-1 03/31/23 09:03 • (LCSD) R3907938-2 03/31/23 09:25

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	0.00377	0.00411	75.4	82.2	54.0-135			8.63	20
(S) Toluene-d8				*108*	*105*	*80.0-120*				
(S) 4-Bromofluorobenzene				*107*	*106*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*104*	*101*	*70.0-130*				

Method Blank (MB)

(MB) R3906418-1 03/28/23 14:49

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Ethylene Dibromide	U		0.00000536	0.0000200

L1597389-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1597389-04 03/28/23 15:37 • (DUP) R3906418-3 03/28/23 15:25

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) R3906418-4 03/28/23 17:36 • (LCSD) R3906418-5 03/28/23 20:10

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 %
Ethylene Dibromide	0.000250	0.000193	0.000194	77.2	77.6	60.0-140			0.517	20

L1597411-10 Original Sample (OS) • Matrix Spike (MS)

(OS) L1597411-10 03/28/23 15:13 • (MS) R3906418-2 03/28/23 15:01

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Ethylene Dibromide	0.0000984	U	0.0000998	101	1	64.0-159	

Method Blank (MB)

(MB) R3907634-1 03/30/23 21:25

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	*99.5*			*31.0-160*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3907634-2 03/30/23 21:46 • (LCSD) R3907634-3 03/30/23 22:07

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	1.30	1.31	86.7	87.3	50.0-150			0.766	20
(S) o-Terphenyl				*97.0*	*101*	*31.0-160*				

Method Blank (MB)

(MB) R3908043-1 03/30/23 17:43

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	*82.5*			*31.0-160*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3908043-2 03/30/23 18:05 • (LCSD) R3908043-3 03/30/23 18:28

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 %
TPH (GC/FID) High Fraction	1.50	1.26	1.27	84.0	84.7	50.0-150			0.791	20
(S) o-Terphenyl				*89.0*	*91.0*	*31.0-160*				

Semi-Volatile Organic Compounds (GC) by Method 3511/8015 L1597529-34,35,36,37,44,45,46,49,50,53,54,55,56,57,58,59,60,61,62,63

Method Blank (MB)

(MB) R3907604-1 03/30/23 17:13

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) High Fraction	0.0435	J	0.0247	0.100
(S) o-Terphenyl	*100*			*31.0-160*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3907604-2 03/30/23 17:33 • (LCSD) R3907604-3 03/30/23 17:54

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	1.70	1.62	113	108	50.0-150			4.82	20
(S) o-Terphenyl				*106*	*102*	*31.0-160*				

Semi-Volatile Organic Compounds (GC) by Method 3511/8015 L1597529-66,67,68,69,70,72,73,74,75,76,77,78,79,80,83,84,85,86,87,88

Method Blank (MB)

(MB) R3908044-1 03/31/23 03:32

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	*76.5*			*31.0-160*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3908044-2 03/31/23 03:54 • (LCSD) R3908044-3 03/31/23 04:16

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	1.20	1.35	80.0	90.0	50.0-150			11.8	20
(S) o-Terphenyl				*82.5*	*95.5*	*31.0-160*				

Method Blank (MB)

(MB) R3907584-1 03/30/23 12:04

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	*90.0*			*31.0-160*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3907584-2 03/30/23 12:24 • (LCSD) R3907584-3 03/30/23 12:45

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 %
TPH (GC/FID) High Fraction	1.50	1.01	1.11	67.3	74.0	50.0-150			9.43	20
(S) o-Terphenyl				*79.5*	*88.5*	*31.0-160*				

Method Blank (MB)

(MB) R3905605-3 03/24/23 16:50

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,4-Dioxane	0.0000970	J	0.0000447	0.000400
(S) Nitrobenzene-d5	*43.3*			*10.0-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3905605-1 03/24/23 16:11 • (LCSD) R3905605-2 03/24/23 16:31

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 %
1,4-Dioxane	0.0500	0.0558	0.0572	112	114	73.0-146			2.48	20
(S) Nitrobenzene-d5				*50.6*	*44.1*	*10.0-120*				

Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod L1597529-06,12,14,17,19,22,23,30,45,55,74,76,86,88

Method Blank (MB)

(MB) R3907197-3 03/29/23 11:01

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	*38.0*			*10.0-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3907197-1 03/29/23 10:22 • (LCSD) R3907197-2 03/29/23 10:41

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 %
1,4-Dioxane	0.0500	0.0508	0.0521	102	104	73.0-146			2.53	20
(S) Nitrobenzene-d5				*34.0*	*40.1*	*10.0-120*				

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.
J2	Surrogate recovery limits have been exceeded; values are outside lower 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.
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.
Q	Sample was prepared and/or analyzed past holding time as defined in the method. Concentrations should be considered minimum values.
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.

Released to Imaging: 6/28/2024 11:23:28 AM

Received by OCD: 6/12/2024 3:31:05 PM

Chain of Custody Page 1 of 27

Pace Analytical

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

L# L597529

Table #

Acctnum: TRCATX

Template: T206300

Prelogin: P985460

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
Report to: Julie Speer	Email To: jspeer@trccompanies.com
Project Description: Artesia Spring 2023	City/State Collected: Artesia, NM
Phone: 512-684-3170 Fax:	Client Project # Lab Project # TRCATX-ARTESIA
Collected by (print): Scott Ude/HMI Team	Site/Facility ID #: (Navajo - Artesia) P.O. #
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/Diss. Short List Metals	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total /Diss. Long List Metals	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
MW-6A	Grab	GW		*		13	x	x	x	x	x	x				x	(no SVOC)	
MW-6B	Grab	GW		*		11	x	x	x	x	x	x						
~~MW-85~~	~~Grab~~	~~GW~~		LNAPL		~~11~~	~~x~~	~~x~~	~~x~~	~~x~~	~~x~~	~~x~~						
~~MW-86~~	~~Grab~~	~~GW~~		LNAPL		~~12~~	~~x~~	~~x~~	~~x~~		~~x~~	~~x~~	~~x~~	~~x~~				
MW-120	Grab	GW		*		11	x	x	x	x	x	x						
MW-121	Grab	GW		*		13	x	x	x	x	x	x				x	(no SVOC)	
MW-84	Grab	GW		3/22/23	1100	11	x	x	x	x	x	x						01
MW-122	Grab	GW		*		13	x	x	x	x	x	x				x	(no SVOC)	
MW-81	Grab	GW		3/22/23	800	11	x	x	x	x	x	x						02
MW-80	Grab	GW		3/22/23	840	11	x	x	x	x	x	x						03

* 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	3/22/23	1900		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 3/23/23 Time: 0915

If preservation required by Login: Date/Time

Hold: Condition: NCF / OK

Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

Chain of Custody Page 2 of 27

Pace Analytical®

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

L# L1597529

Table #

Acctnum: TRCATX

Template: T206300

Prelogin: P985460

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
Report to: Julie Speer	Email To: jspeer@trccompanies.com
Project Description: Artesia Spring 2023	City/State Collected: Artesia, NM
Phone: 512-684-3170 Fax:	Client Project #
	Lab Project # TRCATX-ARTESIA
Collected by (print): Scott Ude/HMI Team	Site/Facility ID # (Navajo - Artesia)
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
	P.O. #
	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/Diss. Short List Metals	TDS - 500mlHDPE-NoPres	**NO3,Cl,NO2,F,SO4** 125mlHDPE-NoPre	Total /Diss. Long List Metals	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
MW-79	Grab	GW		3/22/23	920	11	x	x	x	x	x	x						04
MW-82	Grab	GW		3/22/23	1015	11	x	x	x	x	x	x						05
MW-74	Grab	GW		3/22/23	1235	13	x	x	x	x	x	x				x	(no SVOC)	06
MW-73	Grab	GW		3/22/23	1150	11	x	x	x	x	x	x						07
MW-2A	Grab	GW		"		11	x	x	x	x	x	x						
MW-72	Grab	GW		"		11	x	x	x	x	x	x						
OCD-6	Grab	GW		"		13	x	x	x	x	x	x				x	(no SVOC)	
OCD-7AR	Grab	GW		"		11	x	x	x	x	x	x						
OCD-7B	Grab	GW		"		11	x	x	x	x	x	x						
~~RW-#15C~~	~~Grab~~	~~GW~~		LMAPL		9	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 _____

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

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

Tracking #

Relinquished by: (Signature) Scott Ude	Date: 3/22/23	Time: 1900	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:	If preservation required by Login: Date/Time
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 3/23/23 Time: 0905	Hold: Condition: NCF / OK

Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

Chain of Custody Page 1 of 27

Pace Analytical®

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

L# 4597529

Table #

Acctnum: TRCATX

Template: T206300

Prelogin: P985460

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
Report to: Julie Speer	Email To: jspeer@trccompanies.com
Project Description: Artesia Spring 2023	City/State Collected: Artesia, NM
Phone: 512-684-3170 Fax:	Client Project #
	Lab Project # TRCATX-ARTESIA
Collected by (print): Scott Ude/HMI Team	Site/Facility ID # (Navajo - Artesia)
	P.O. #
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/Diss. Short List Metals	TDS - 500mlHDPE-NoPres	**NO3,Cl,NO2,F,SO4** 125mlHDPE-NoPres	Total /Diss. Long List Metals	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
~~MW-48~~	~~Grab~~	~~GW~~		LNAPL		~~11~~	~~x~~	~~x~~	~~x~~	~~x~~	~~x~~	~~x~~						
MW-130	Grab	GW		3/22/23	1245	11	x	x	x	x	x	x						08
~~KWB-4~~	~~Grab~~	~~GW~~		LNAPL		~~9~~	~~x~~	~~x~~		~~x~~	~~x~~	~~x~~						
~~RW-19~~	~~Grab~~	~~GW~~		LNAPL		~~9~~	~~x~~	~~x~~		~~x~~	~~x~~	~~x~~						
EB-EP-01	Grab	GW		3/22/23	1250	11	x	x	x	x	x	x						09
EB-EP-04	Grab	GW		3/22/23	935	11	x	x	x	x	x	x						10
TRIP BLANK-EP-01	Grab	GW		3/22/23	—	1	x											11

* 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: 3/22/23	Time: 1900	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:	If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 3/23/23 Time: 0918	Hold: Condition: NCF / OK

Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

Chain of Custody Page 1 of 2

Pace Analytical

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

L# L1597529

Table #

Acctnum: TRCATX

Template: T206302

Prelogin: P985461

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
Report to: Julie Speer	Email To: jspeer@trccompanies.com
Project Description: Artesia Spring 2023	City/State Collected: Artesia, NM
Phone: 512-684-3170 Fax:	Client Project # Lab Project # TRCATX-ARTESIA
Collected by (print): Scott Ude/HMI Team	Site/Facility ID # (Navajo - Artesia) P.O. #
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/Diss. Short List Metals	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total /Diss. Long List Metals	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
MW-76	Grab	GW		3/22/23	1405	13	x	x	x	x	x	x				x	(no SVOC)	12
MW-77	Grab	GW		3/22/23	1335	11	x	x	x	x	x	x						13
MW-78	Grab	GW		3/22/23	1305	13	x	x	x	x	x	x				x	(no SVOC)	14
MW-75	Grab	GW		3/22/23	1340	11	x	x	x	x	x	x						15
MW-83	Grab	GW		3/22/23	1325	11	x	x	x	x	x	x						16
MW-3	Grab	GW		3/22/23	1235	13	x	x	x	x	x	x				x	(no SVOC)	17
MW-88	Grab	GW		3/22/23	1115	11	x	x	x	x	x	x						18
MW-22A	Grab	GW		3/22/23	1025	13	x	x	x	x	x	x				x	(no SVOC)	19
MW-22B	Grab	GW		3/22/23	945	11	x	x	x	x	x	x						20
MW-10	Grab	GW		3/22/23	905	11	x	x	x	x	x	x						21

* 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: 3/22/23	Time: 1900	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:	If preservation required by Login: Date/Time
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 3/23/23 Time: 0915	Hold: Condition: NCF / OK

Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 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 Spring 2023
City/State Collected: Artesia, NM

Phone: 512-684-3170
Fax:
Client Project #
Lab Project #: TRCATX-ARTESIA

Collected by (print): Scott Ude/HMI Team
Site/Facility ID #: (Navajo - Artesia)
P.O. #

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/Diss. Short List Metals	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total /Diss. Long List Metals	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
MW-123	Grab	GW		3/22/23	825	13	x	x	x	x	x	x				x	(no SVOC)	22
MW-4A	Grab	GW		3/22/23	1155	13	x	x	x	x	x	x				x	(no SVOC)	23
MW-4B	Grab	GW		3/21/23	1410	11	x	x	x	x	x	x						
MW-5A	Grab	GW		3/21/23	1155	11	x	x	x	x	x	x						
MW-5B	Grab	GW		3/21/23	1245	11	x	x	x	x	x	x						
MW-5C	Grab	GW		3/21/23	1330	11	x	x	x	x	x	x					These not were sampled & shipped 3/21/23.	
MW-7A	Grab	GW		"		11	x	x	x	x	x	x						
MW-7B	Grab	GW		"		11	x	x	x	x	x	x						
OCD-8A	Grab	GW		"		12	x	x	x		x	x	x	x				
OCD-8B				"		11	x	x	x	x	x	x						

Analysis / Container / Preservative

Chain of Custody Page 5 of 27

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

Lab # L1597529
Table #
Acctnum: TRCATX
Template: T206302
Prelogin: P985461
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)
Scott Ude	3/22/23	1900	
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: °C Bottles Received:
Date: 3/23/23 Time: 8915

If preservation required by Login: Date/Time
Hold:
Condition: NCF / OK

Released to Imaging: 6/28/2024 11:23:28 AM

Received by OCD: 6/12/2024 3:31:05 PM

Chain of Custody Page 6 of 27

Pace Analytical

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

L# L1547529

Table #

Acctnum: TRCATX

Template: T206302

Prelogin: P985461

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
Report to: Julie Speer	Email To: jspeer@trccompanies.com
Project Description: Artesia Spring 2023	City/State Collected: Artesia, NM
Phone: 512-684-3170 Fax:	Client Project # Lab Project # TRCATX-ARTESIA
Collected by (print): Scott Ude/HMI Team	Site/Facility ID # (Navajo - Artesia) P.O. #
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/Diss. Short List Metals	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total /Diss. Long List Metals	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
DUP-EP-01	Grab	GW		"		11	x	x	x	x	x	x						
DUP-EP-02	Grab	GW		3/22/23	1200	11	x	x	x	x	x	x						24
DUP-EP-03	Grab	GW		3/22/23	1400	11	x	x	x	x	x	x						25
EB-EP-03	Grab	GW		3/21/23	1205	11	x	x	x	x	x	x					Sampled & Shipped 3/21/23.	
TRIP BLANK-EP-02	Grab	GW		"		1	x											26

Analysis / Container / Preservative

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

Remarks:

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) Scott Ude	Date: 3/22/23	Time: 1900	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 3/23/23 Time: 0915

If preservation required by Login: Date/Time:

Hold: Condition: NCF / OK

Page 763 of 1657

Released to Imaging: 6/28/2024 11:23:28 AM

Received by OCD: 6/12/2024 3:31:05 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 Spring 2023

City/State Collected: Artesia, NM

Phone: 512-684-3170
Fax:

Client Project #

Lab Project #
TRCATX-ARTESIA

Collected by (print): Scott Ude/HMI Team

Site/Facility ID #
(Navajo - Artesia)

P.O. #

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 1 of 2

Pace Analytical

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

L# L597529

Table #

Acctnum: TRCATX
Template: T206304
Prelogin: P985462
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/Diss. Short List Metals	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total /Diss. Long List Metals	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (Lab only)
KWB-P4	Grab	GW		3/22/23	800	5	x		x									2627
MW-25	Grab	GW		"		9	x	x		x	x	x						
MW-1R	Grab	GW		"		9	x	x		x	x	x						
MW-15	Grab	GW		"		11	x	x	x	x	x	x						
OCD-1R	Grab	GW		3/22/23	1250	11	x	x	x	x	x	x						2728
OCD-2A	Grab	GW		3/22/23	1205	11	x	x	x	x	x	x						2829
OCD-3	Grab	GW		3/22/23	1010	13	x	x	x	x	x	x				x	(no SVOC)	2930
OCD-4	Grab	GW		3/22/23	930	11	x	x	x	x	x	x						2931
MW-11A	Grab	GW		3/22/23	1050	11	x	x	x	x	x	x						2932
MW-11B	Grab	GW		3/22/23	1125	11	x	x	x	x	x	x						2933

* 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	3/22/23	1900	
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: °C Bottles Received:

Date: 3/23/23 Time: 0915

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Released to Imaging: 6/28/2024 11:23:28 AM

Received by OCD: 6/12/2024 3:31:05 PM

Chain of Custody Page 8 of 27

Pace Analytical

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

L# L1597529

Table #

Acctnum: TRCATX

Template: T206304

Prelogin: P985462

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 Spring 2023	City/State Collected: Artesia, NM	
Phone: 512-684-3170 Fax:	Client Project #	Lab Project # TRCATX-ARTESIA
Collected by (print): Scott Ude/HMI Team	Site/Facility ID # (Navajo - Artesia)	P.O. #
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/Diss. Short List Metals	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total /Diss. Long List Metals	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
OCD-5	Grab	GW		3/22/23	850	11	x	x	x	x	x	x						37 37
MW-87	Grab	GW		"		11	x	x	x	x	x	x						
MW-18A	Grab	GW		"		10	x	x		x	x	x	x	x				
MW-18B	Grab	GW		"		11	x	x	x	x	x	x						
MW-70	Grab	GW		"		11	x	x	x	x	x	x						
MW-124	Grab	GW		"		11	x	x	x	x	x	x						
MW-52	Grab	GW		3/22/23	1115	12	x	x	x		x	x	x	x				34 35
MW-109	Grab	GW		3/22/23	1220	11	x	x	x	x	x	x						35 36
MW-110	Grab	GW		3/22/23	1200	11	x	x	x	x	x	x						36 37
EB-EP-02	Grab	GW		"		11	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) Scott Ude	Date: 3/22/23	Time: 1900	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: °C Bottles Received:

Date: 3/23/23 Time: 0905

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Released to Imaging: 6/28/2024 11:23:28 AM

Received by OCD: 6/12/2024 3:31:05 PM

Chain of Custody Page 9 of 27

Pace Analytical®

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

L# L597529

Table #

Acctnum: TRCATX

Template: T206304

Prelogin: P985462

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
Report to: Julie Speer	Email To: jspeer@trccompanies.com
Project Description: Artesia Spring 2023	City/State Collected: Artesia, NM
Phone: 512-684-3170 Fax:	Client Project # Lab Project # TRCATX-ARTESIA
Collected by (print): Scott Ude/HMI Team	Site/Facility ID # (Navajo - Artesia) P.O. #
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/Diss. Short List Metals	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total /Diss. Long List Metals	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (Lab only)
TRIP BLANK-EP-03	Grab	GW		3/22/23	—	1	x											39
MW-140 through MW-144 added per rec, 3/21/23 - SCM																		MS
MW-140						4					X	X	X					37 39
MW-141						4					X	X	X					38 40
MW-142						4					X	X	X					39 41
MW-143						4					X	X	X					40 42
MW-144				3/22/23	815	4					X	X	X					41 43

* 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) Scott Ude	Date: 3/22/23	Time: 1900	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: °C Bottles Received:

Date: 3/23/23 Time: 0915

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Released to Imaging: 6/28/2024 11:23:28 AM

Received by OCD: 6/12/2024 3:31:05 PM

Chain of Custody Page 19 of 27

Pace Analytical

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

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 Spring 2023	City/State Collected: Artesia, NM
Phone: 512-684-3170 Fax:	Client Project #	Lab Project # TRCATX-ARTESIA
Collected by (print): Scott Ude/HMI Team	Site/Facility ID # (Navajo - Artesia)	P.O. #
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 #

L# L1597529
Table #
Acctnum: TRCATX
Template: T206307
Prelogin: P985464
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/Diss. Short List Metals	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total /Diss. Long List Metals	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
~~RW-12R~~	~~Grab~~	~~GW~~		LNAPL		9	x	x		x	x	x						
MW-113	Grab	GW		3/22/23	925	11	x	x	x	x	x	x						42 44
~~KWB-8~~	~~Grab~~	~~GW~~		LNAPL		10	x	x			x	x	x	x				
~~RW-22~~	~~Grab~~	~~GW~~		LNAPL		9	x	x		x	x	x						
~~RW-20A~~	~~Grab~~	~~GW~~		well dry		9	x	x		x	x	x						
~~RW-20B~~	~~Grab~~	~~GW~~		LNAPL		9	x	x		x	x	x						
RW-13R	Grab	GW		3/22/23	1150	14	x	x		x	x	x			x	x	(no SVOC)	43 45
~~RW-14R~~	~~Grab~~	~~GW~~		LNAPL		9	x	x		x	x	x						
~~MW-133~~	~~Grab~~	~~GW~~		LNAPL		11	x	x	x	x	x	x						
MW-134	Grab	GW		3/22/23	830	11	x	x	x	x	x	x						44 46

* 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

	Date:	Time:		
Relinquished by : (Signature) Scott Ude	3/22/23	1900	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 3/23/23 Time: 0915

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Released to Imaging: 6/28/2024 11:23:28 AM

Received by OCD: 6/12/2024 3:31:05 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 Spring 2023
City/State Collected: Artesia, NM

Phone: 512-684-3170
Fax:
Client Project #
Lab Project #: TRCATX-ARTESIA

Collected by (print): Scott Ude/HMI Team
Site/Facility ID #: (Navajo - Artesia)
P.O. #

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 11 of 27

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

L# L597529
Table #
Acctnum: TRCATX
Template: T206307
Prelogin: P985464
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/Diss. Short List Metals	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total /Diss. Long List Metals	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
~~RA-4798~~	~~Grab~~	~~GW~~		Pump Removed & Dismantled		6	x			x	x	x					~~Only Cation~~	
RA-4196	Grab	GW		3/22/23	1055	6	x			x	x	x					Only Cation	45 47
~~RA-3156~~	~~Grab~~	~~GW~~	Owner could	was out of town, not be turned on		6	x			x	x	x					~~Only Cation~~	
RA-313	Grab	GW		3/22/23	1420	8	x			x	x	x				x	Only Cation	(no svol) 46 48
KWB-7	Grab	GW		3/22/23	900	10	x	x			x	x	x	x				47 49
MW-20	Grab	GW		3/22/23	1025	9	x	x		x	x	x						48 50
NP-1	Grab	GW		3/22/23	1250	6	x			x	x	x					Only Cation	49 51
NP-6	Grab	GW		3/22/23	1335	3	x											50 52
MW-8	Grab	GW		3/22/23	1105	11	x	x	x	x	x	x						51 53
MW-21	Grab	GW		3/22/23	1155	11	x	x	x	x	x	x						52 54

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

Remarks:
RA-4798,RA-4196,RA-3156,RA-313,NP-1 reporting Cations from Metals bottle.

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	3/22/23	1900	
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: °C Bottles Received:
Date: 3/23/23 Time: 0915

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

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Released to Imaging: 6/28/2024 11:23:28 AM

Received by OCD: 6/12/2024 3:31:05 PM

Chain of Custody Page 1 of 2

Pace Analytical

12065 Lebanon Rd
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Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L1597529

Table #

Acctnum: TRCATX

Template: T206307

Prelogin: P985464

TSR: 526

PB:

Shipped Via:

Company / Address	Billing Information	Pres Chk
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:	Email To:
Julie Speer	jspeer@trccompanies.com

Project Description:	City/State Collected:
Artesia Spring 2023	Artesia, NM

Phone: / Fax:	Client Project #	Lab Project #
512-684-3170		TRCATX-ARTESIA

Collected by (print):	Site/Facility ID #	P.O. #
Scott Ude/HMI Team	(Navajo - Artesia)	

Collected by (signature):	Rush? (Lab MUST Be Notified)	Quote #
Scott Ude	___ Same Day ___ Five Day ___ Next Day ___ 5 Day (Rad Only) ___ Two Day ___ 10 Day (Rad Only) ___ Three Day	Date Results Needed

Immediately Packed on Ice N___ Y✓

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260OXY - 40mlAmb HCl	DROLVI- 40mlAmb-HCl-BT	GRO - 40mlAmb HCl	Total/Diss. Short List Metals	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total /Diss. Long List Metals	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
MW-71	Grab	GW		3/22/23	955	15	x	x			x	x	x	x	x	x	(no SVOC)	53 55
MW-68	Grab	GW		"		9	x	x		x	x	x						
MW-27	Grab	GW		"		9	x	x		x	x	x						
MW-89	Grab	GW		"		9	x	x		x	x	x						
MW-16	Grab	GW		"		9	x	x		x	x	x						
MW-26	Grab	GW		"		9	x	x		x	x	x						
KWB-11A	Grab	GW		"		12	x	x	x		x	x	x	x				54 55
KWB-11B	Grab	GW		3/22/23	820	12	x	x	x		x	x	x	x				
MW-115	Grab	GW		3/22/23	1400	11	x	x	x	x	x	x						56 57
MW-114	Grab	GW		3/22/23	1340	11	x	x	x	x	x	x						58 59

* 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)
Scott Ude	3/22/23	1900	
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: °C Bottles Received:

Date: 3/23/23 Time: 0915

If preservation required by Login: Date/Time

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

Released to Imaging: 6/28/2024 11:23:28 AM

Received by OCD: 6/12/2024 3:31:05 PM

Chain of Custody Page 1 of 1

Pace Analytical

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

L# L1597529

Table #

Acctnum: TRCATX

Template: T206307

Prelogin: P985464

TSR: 526

PB:

Shipped Via:

Company / Address	Billing Information	Pres Chk
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:	Email To:
Julie Speer	jspeer@trccompanies.com

Project Description:	City/State Collected:
Artesia Spring 2023	Artesia, NM

Phone: / Fax:	Client Project #	Lab Project #
512-684-3170		TRCATX-ARTESIA

Collected by (print):	Site/Facility ID #	P.O. #
Scott Ude/HMI Team	(Navajo - Artesia)	

Collected by (signature): Scott Ude

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified) — Date Results Needed

___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

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/Diss. Short List Metals	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total /Diss. Long List Metals	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
MW-125	Grab	GW		3/22/23	1315	11	x	x	x	x	x	x						57 55
DUP-REST-01	Grab	GW		3/22/23	1200	11	x	x	x	x	x	x						58 60
EB-REST-01	Grab	GW		3/22/23	940	11	x	x	x	x	x	x						59 61
DUP-REST-03	Grab	GW		3/22/23	800	11	x	x	x	x	x	x						60 62
EB-REST-03	Grab	GW		3/22/23	845	11	x	x	x	x	x	x						61 63
TRIP BLANK-REST-01	Grab	GW		3/22/23	—	1	x											64 64
TRIP BLANK-TMD-01	Grab	GW		3/22/23	—	1	x											65 65

* 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	3/22/23	1900		
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 3/23/23 Time: 0815

If preservation required by Login: Date/Time

Hold: Condition: NCF / OK

Released to Imaging: 6/28/2024 11:23:28 AM

Received by OCD: 6/12/2024 3:31:05 PM

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
Project Description: Artesia Spring 2023	City/State Collected: Artesia, NM
Phone: 512-684-3170 Fax:	Client Project # Lab Project # TRCATX-ARTESIA
Collected by (print): Scott Ude/HMI Team	Site/Facility ID # (Navajo - Artesia) P.O. #
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/Diss. Short List Metals	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total /Diss. Long List Metals	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
MW-117	Grab	GW		*		11	x	x	x	x	x	x						
MW-118	Grab	GW		*		11	x	x	x	x	x	x						
MW-119	Grab	GW		*		11	x	x	x	x	x	x						
NP-5	Grab	GW		*		9	x	x		x	x	x						
MW-136	Grab	GW		*		12	x	x	x		x	x	x	x				
MW-126A	Grab	GW		*		11	x	x	x	x	x	x						
MW-126B	Grab	GW		*		11	x	x	x	x	x	x						
MW-127	Grab	GW		*		16	x	x	x	x	x	x			x	x	(no SVOC)	
MW-129	Grab	GW		*		11	x	x	x	x	x	x						
KWB-1A	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:

pH _____ Temp _____
Flow _____ Other _____

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

Tracking #

Relinquished by : (Signature) Scott Ude	Date: 3/22/23	Time: 1900	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: °C Bottles Received:

Date: 3/23/23 Time: 8915

If preservation required by Login: Date/Time

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

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

L# L1597529

Table #

Acctnum: TRCATX
Template: T206383
Prelogin: P985500
TSR: 526
PB:
Shipped Via:

Released to Imaging: 6/28/2024 11:23:28 AM

Received by OCD: 6/12/2024 3:31:05 PM

Chain of Custody Page 1 of 2

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

L# L1597529

Table #

Acctnum: TRCATX

Template: T206383

Prelogin: P985500

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
Report to: Julie Speer	Email To: jspeer@trccompanies.com
Project Description: Artesia Spring 2023	City/State Collected: Artesia, NM
Phone: 512-684-3170 Fax:	Client Project # Lab Project # TRCATX-ARTESIA
Collected by (print): Scott Ude/HMI Team	Site/Facility ID # (Navajo - Artesia)
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
	P.O. # Quote #

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260OXY - 40mlAmb HCl	DROLVI- 40mlAmb-HCl-BT	GRO - 40mlAmb HCl	Total/Diss. Short List Metals	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total /Diss. Long List Metals	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
KWB-1C	Grab	GW		"		9	x	x		x	x	x						
KWB-10R	Grab	GW		"		11	x	x		x	x	x				x	(no SVOC)	
MW-131	Grab	GW		"		11	x	x	x	x	x	x						
KWB-5	Grab	GW		"		9	x	x		x	x	x						
MW-111	Grab	GW		"		16	x	x	x	x	x	x			x	x	(no SVOC)	
KWB-6	Grab	GW		"		14	x	x		x	x	x			x	x	(no SVOC)	
MW-112	Grab	GW		"		11	x	x	x	x	x	x						
MW-132	Grab	GW		"		11	x	x	x	x	x	x						
MW-57	Grab	GW		"		11	x	x	x	x	x	x						
RW-#11-0	Grab	GW		"		9	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) Scott Ude	Date: 3/22/23	Time: 1900	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 3/23/23 Time: 0815

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Released to Imaging: 6/28/2024 11:23:28 AM

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| | | |

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Received by OCD: 6/12/2024 3:31:05 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 Spring 2023
City/State Collected: Artesia, NM

Phone: 512-684-3170
Fax:
Client Project #
Lab Project # TRCATX-ARTESIA

Collected by (print): Scott Ude/HMI Team
Site/Facility ID # (Navajo - Artesia)
P.O. #

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 12 of 27

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

L# L1597529
Table #
Acctnum: TRCATX
Template: T206426
Prelogin: P985663
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/Diss. Short List Metals	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total /Diss. Long List Metals	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (Lab only)
MW-103	Grab	GW		"		11	x	x	x	x	x	x						
MW-104	Grab	GW		"		11	x	x	x	x	x	x						
MW-64	Grab	GW		"		11	x	x	x	x	x	x						
MW-65	Grab	GW		"		11	x	x	x	x	x	x						
~~RW-5R~~	~~Grab~~	~~GW~~		LNAPL		~~9~~	x	x		x	x	x						
MW-102	Grab	GW		3/22/23	905	11	x	x	x	x	x	x						64 66
RW-4	Grab	GW		"		9	x	x		x	x	x						
RW-6	Grab	GW		"		9	x	x		x	x	x						
~~MW-99~~	~~Grab~~	~~GW~~		LNAPL		~~11~~	x	x	x	x	x	x						
~~MW-66~~	~~Grab~~	~~GW~~		LNAPL		~~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:

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	3/22/23	1900			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 3/23/23 Time: 0915	Hold: / Condition: NCF / OK

Page 774 of 1657

Released to Imaging: 6/28/2024 11:23:28 AM

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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 Spring 2023
City/State Collected: Artesia, NM

Phone: 512-684-3170
Fax:
Client Project #
Lab Project # TRCATX-ARTESIA

Collected by (print): Scott Ude/HMI Team
Site/Facility ID # (Navajo - Artesia)
P.O. #

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 19 of 27

Pace Analytical®

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

L# L1597529
Table #
Acctnum: TRCATX
Template: T206426
Prelogin: P985663
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/Diss. Short List Metals	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total /Diss. Long List Metals	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
~~MW-28~~	~~Grab~~	~~GW~~		LNAPL		14	x	x	x		x	x	x	x		x	(no svoc)	
~~MW-59~~	~~Grab~~	~~GW~~		LNAPL		11	x	x	x	x	x	x						
~~MW-60~~	~~Grab~~	~~GW~~		LNAPL		17	x	x	x		x	x	x	x	x	x	(no svoc)	
~~MW-107~~	~~Grab~~	~~GW~~		LNAPL		11	x	x	x	x	x	x						
~~MW-128~~	~~Grab~~	~~GW~~		LNAPL		13	x	x	x	x	x	x				x	(no svoc)	
MW-116	Grab	GW		3/22/23	1235	11	x	x	x	x	x	x						65 67
MW-46R	Grab	GW		3/22/23	1135	9	x	x		x	x	x						66 68
RW-#18A	Grab	GW		"		7	x			x	x	x						
MW-145	Grab	GW		"		11	x	x	x	x	x	x					No NO3NO2	
MW-146	Grab	GW		"		11	x	x	x	x	x	x					No NO3NO2	

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

Remarks:

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)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
Scott Ude	3/22/23	1900			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 3/23/23 Time: 0915	Hold: Condition: NCF / OK

Page 775 of 1657

Released to Imaging: 6/28/2024 11:23:28 AM

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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 Spring 2023
City/State Collected: Artesia, NM

Phone: 512-684-3170
Fax:
Client Project #
Lab Project #: TRCATX-ARTESIA

Collected by (print): Scott Ude/HMI Team
Site/Facility ID #: (Navajo - Artesia)
P.O. #

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 19 of 27

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

LB# L1597529
Table #
Acctnum: TRCATX
Template: T206426
Prelogin: P985663
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/Diss. Short List Metals	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total /Diss. Long List Metals	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
MW-135	Grab	GW		-		11	x	x	x	x	x	x						
MW-147	Grab	GW		-		11	x	x	x	x	x	x					No NO3NO2	
MW-148	Grab	GW		-		11	x	x	x	x	x	x					No NO3NO2	
UG-3R	Grab	GW		-		12	x	x	x		x	x	x	x				
UG-4	Grab	GW		-		12	x	x	x		x	x	x	x				
UG-1	Grab	GW		-		14	x	x	x		x	x	x	x		x	(no SVOC)	
UG-2	Grab	GW		-		12	x	x	x		x	x	x	x				
DUP-REST-02	Grab	GW		3/22/23	1000	11	x	x	x	x	x	x						69
EB-REST-02	Grab	GW		3/22/23	920	11	x	x	x	x	x	x						70
DUP-REST-04	Grab	GW		-		11	x	x	x	x	x	x					No NO3NO2	

* 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	3/22/23	1900			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 3/23/23 Time: 0915	Hold: Condition: NCF / OK

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Released to Imaging: 6/28/2024 11:23:28 AM
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Chain of Custody Page 20 of 27

Pace Analytical

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

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 Spring 2023	City/State Collected: Artesia, NM
Phone: 512-684-3170 Fax:	Client Project # Lab Project # TRCATX-ARTESIA
Collected by (print): Scott Ude/HMI Team	Site/Facility ID # (Navajo - Artesia) P.O. #
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/Diss. Short List Metals	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total /Diss. Long List Metals	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	
EB-REST-04	Grab	GW		*		11	x	x	x	x	x	x					No NO3NO2
TRIP BLANK-REST-03	Grab	GW		3/22/23	—	1	x										69 71

L# L1597529

Table #

Acctnum: TRCATX

Template: T206426

Prelogin: P985663

TSR: 526

PB:

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 #

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: 3/22/23	Time: 1900	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 3/23/23 Time: 0915

If preservation required by Login: Date/Time

Hold:

Conditions: NCF / OK

Released to Imaging: 6/28/2024 11:23:28 AM

Received by OCD: 6/12/2024 3:31:05 PM

Chain of Custody Page 21 of 23

Pace Analytical®

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

L# L1597529

Table #

Acctnum: TRCATX

Template: T206493

Prelogin: P985719

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
Report to: Julie Speer	Email To: jspeer@trccompanies.com
Project Description: Artesia Spring 2023	City/State Collected: Artesia, NM
Phone: 512-684-3170 Fax:	Client Project # Lab Project # TRCATX-ARTESIA
Collected by (print): Scott Ude/HMI Team	Site/Facility ID #: (Navajo - Artesia) P.O. #
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

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260OXY - 40mlAmb HCl	DROLVI- 40mlAmb-HCl-BT	GRO - 40mlAmb HCl	Total/Diss. Short List Metals	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total /Diss. Long List Metals	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270TX/8270DIOXANE - 100ml Amb-NoPr	Remarks	Sample # (lab only)
MW-101	Grab	GW		*		11	x	x	x	x	x	x						
MW-105	Grab	GW		*		11	x	x	x	x	x	x						
RW-2	Grab	GW		*		15	x	x	x	x	x	x				x		
MW-61	Grab	GW		*		13	x	x	x	x	x	x				x	No 1,4-D	
MW-62	Grab	GW		*		13	x	x	x	x	x	x				x	No 1,4-D	
MW-62R	Grab	GW		*		11	x	x	x	x	x	x						
~~MW-93~~	~~Grab~~	~~GW~~	covered by gravel; unable to locate			~~15~~	x	x	x	x	x	x				x		
~~MW-43~~	~~Grab~~	~~GW~~		LNAPL		~~16~~	x	x	x		x	x	x	x		x		
~~MW-137~~	~~Grab~~	~~GW~~		LNAPL		~~14~~	x	x	x		x	x	x	x		x	~~No 1,4-D~~	
~~MW-137A~~	~~Grab~~	~~GW~~		LNAPL		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:

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) Scott Ude	Date: 3/22/23	Time: 1900	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:	If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 3/23/23 Time: 0918	Hold: Condition: NCF / OK

Released to Imaging: 6/28/2024 11:23:28 AM

Received by OCD: 6/12/2024 3:31:05 PM

Chain of Custody Page 22 of 27

Pace Analytical®

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

L# L1597529

Table #

Acctnum: TRCATX

Template: T206493

Prelogin: P985719

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 Spring 2023	City/State Collected: Artesia, NM	
Phone: 512-684-3170 Fax:	Client Project # Lab Project # TRCATX-ARTESIA	
Collected by (print): Scott Ude/HMI Team	Site/Facility ID # (Navajo - Artesia)	P.O. #
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/Diss. Short List Metals	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total /Diss. Long List Metals	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270TX/8270DIOXANE - 100ml Amb-NoPr	Remarks	Sample # (lab only)
~~MW-138~~	~~Grab~~	~~GW~~		LNAPL		~~16~~	x	x	x		x	x	x	x		x		
~~MW-138A~~	~~Grab~~	~~GW~~		LNAPL		~~12~~	x	x	x		x	x	x	x				
MW-23	Grab	GW		*		15	x	x	x	x	x	x				x		
TEL-4	Grab	GW		3/22/23	1015	13	x	x	x	x	x	x				x	No SVOCs	Sent 3/24/23 76 72
~~TEL-3~~	~~Grab~~	~~GW~~		LNAPL		~~11~~	x	x	x	x	x	x						
~~TEL-2~~	~~Grab~~	~~GW~~		LNAPL		~~11~~	x	x	x	x	x	x						
~~TEL-1~~	~~Grab~~	~~GW~~		LNAPL		~~11~~	x	x	x	x	x	x						
~~MW-39~~	~~Grab~~	~~GW~~		LNAPL		~~13~~	x	x	x	x	x	x				x	No SVOCs	
MW-98	Grab	GW		3/22/23	1245	11	x	x	x	x	x	x						74 73
~~RW-10~~	~~Grab~~	~~GW~~		LNAPL		~~13~~	x	x	x	x	x	x				x	No SVOCs	

* 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) Scott Ude	Date: 3/22/23	Time: 1900	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 3/23/23 Time: 0815

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Released to Imaging: 6/28/2024 11:23:28 AM

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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 Spring 2023	City/State Collected: Artesia, NM
Phone: 512-684-3170 Fax:	Client Project # Lab Project # TRCATX-ARTESIA
Collected by (print): Scott Ude/HMI Team	Site/Facility ID # (Navajo - Artesia) P.O. #
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/Diss. Short List Metals	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total /Diss. Long List Metals	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
~~MW-40~~	~~Grab~~	~~GW~~		LNAPL		~~13~~	~~x~~	~~x~~	~~x~~	~~x~~	~~x~~	~~x~~				~~x~~	~~(no SVOC)~~	
~~MW-41~~	~~Grab~~	~~GW~~		LNAPL		~~13~~	~~x~~	~~x~~	~~x~~	~~x~~	~~x~~	~~x~~				~~x~~	~~(no SVOC)~~	
RW-9	Grab	GW		3/22/23	855	16	x	x	x	x	x	x			x	x	(no SVOC)	72 74
~~MW-42~~	~~Grab~~	~~GW~~		LNAPL		~~13~~	~~x~~	~~x~~	~~x~~	~~x~~	~~x~~	~~x~~				~~x~~	~~(no SVOC)~~	
MW-29	Grab	GW		3/22/23	925	11	x	x	x	x	x	x						73 75
RW-#16B	Grab	GW		3/22/23	755	11	x	x		x	x	x				x	(no SVOC)	71 72
MW-56	Grab	GW		3/22/23	1035	9	x	x		x	x	x						75 77
MW-49	Grab	GW		"		12	x	x	x		x	x	x	x				
~~MW-106~~	~~Grab~~	~~GW~~	covered by steel container		unable to access	~~13~~	~~x~~	~~x~~	~~x~~	~~x~~	~~x~~	~~x~~				~~x~~	~~(no SVOC)~~	
MW-45	Grab	GW		3/22/23	830	10	x	x			x	x	x	x				76 78

Chain of Custody Page 21 of 27

Pace Analytical®

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

L# L1597529

Table #

Acctnum: TRCATX

Template: T206493

Prelogin: P985719

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: ___ 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	3/22/23	1900			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 3/22/23 Time: 0945	Hold: / Condition: NCF / OK

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Released to Imaging: 6/28/2024 11:23:28 AM

Received by OCD: 6/12/2024 3:31:05 PM

Chain of Custody Page 24 of 27

Pace Analytical

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

L# L154529

Table #

Acctnum: TRCATX

Template: T206493

Prelogin: P985719

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
Report to: Julie Speer	Email To: jspeer@trccompanies.com
Project Description: Artesia Spring 2023	City/State Collected: Artesia, NM
Phone: 512-684-3170 Fax:	Client Project # Lab Project # TRCATX-ARTESIA
Collected by (print): Scott Ude/HMI Team	Site/Facility ID # (Navajo - Artesia) P.O. #
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/Diss. Short List Metals	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total /Diss. Long List Metals	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
DUP-TEL-01	Grab	GW		3/22/23	1000	11	x	x	x	x	x	x						77 79
EB-TEL-01	Grab	GW		3/22/23	1035	11	x	x	x	x	x	x						78 80
TRIP BLANK-REST-04	Grab	GW		"		1	x											79 81
TRIP BLANK-TEL-01	Grab	GW		3/22/23	—	1	x											80 82

* 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) Scott Ude	Date: 3/22/23	Time: 1900	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: °C Bottles Received:

Date: 3/23/23 Time: 0815

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

Chain of Custody Page 25 of 27

Pace Analytical

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

L# L557529

Table #

Acctnum: TRCATX

Template: T206496

Prelogin: P985720

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
Report to: Julie Speer	Email To: jspeer@trccompanies.com
Project Description: Artesia Spring 2023	City/State Collected: Artesia, NM
Phone: 512-684-3170 Fax:	Client Project #
	Lab Project # TRCATX-ARTESIA
Collected by (print): Scott Ude/HMI Team	Site/Facility ID # (Navajo - Artesia)
	P.O. #
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/Diss. Short List Metals	Anions. TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total /Diss. Long List Metals	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270/8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
MW-139	Grab	GW		3/22/23	1130	11	x	x	x	x	x	x						21 23
MW-50	Grab	GW		3/22/23	1015	9	x	x		x	x	x						22 24
~~MW-97~~	~~Grab~~	~~GW~~	(well covered by soil); not bailed			13	~~x~~	~~x~~	~~x~~	~~x~~	~~x~~	~~x~~				~~x~~	~~No 1,4-D~~	
MW-92	Grab	GW		"		13	x	x	x	x	x	x				x	No SVOCs	
RW-1	Grab	GW		"		13	x	x	x	x	x	x				x	No SVOCs	
MW-91	Grab	GW		"		13	x	x	x	x	x	x				x	No SVOCs	
MW-90	Grab	GW		3/22/23	855	11	x	x	x	x	x	x						25 35
MW-96	Grab	GW		"		11	x	x	x	x	x	x						
MW-94	Grab	GW		"		13	x	x	x	x	x	x				x	No SVOCs	
~~RW-8~~	~~Grab~~	~~GW~~		LNAPL		14	~~x~~	~~x~~		~~x~~	~~x~~	~~x~~			~~x~~	~~x~~	~~No SVOCs~~	

* 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: 3/22/23	Time: 1900	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 3/23/23 Time: 0915

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

If preservation required by Login: Date/Time

Hold: Condition: NCF / OK

Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 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 Spring 2023
City/State Collected: Artesia, NM

Phone: 512-684-3170
Fax:

Client Project #

Lab Project #
TRCATX-ARTESIA

Collected by (print): Scott Ude/HMI Team

Site/Facility ID #
(Navajo - Artesia)

P.O. #

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/Diss. Short List Metals	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total /Diss. Long List Metals	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
MW-67	Grab	GW		"		14	x	x	x		x	x	x	x		x	(no SVOC)	
MW-95	Grab	GW		"		11	x	x	x	x	x	x						
~~RW-7~~	~~Grab~~	~~GW~~		LNAPL		11	x	x	x	x	x	x						
NCL-34A	Grab	GW		"		9	x	x		x	x	x						
NCL-33	Grab	GW		"		9	x	x		x	x	x						
NCL-44	Grab	GW		"		9	x	x		x	x	x						
NCL-32	Grab	GW		"		9	x	x		x	x	x						
MW-108	Grab	GW		"		9	x	x		x	x	x						
NCL-31	Grab	GW		"		9	x	x		x	x	x						
MW-55	Grab	GW		"		12	x	x	x		x	x	x	x				

Chain of Custody Page 26 of 27

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

L# L1597589
Table #
Acctnum: TRCATX
Template: T206496
Prelogin: P985720
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: __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	3/22/23	1900	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: °C Bottles Received:
Date: 3/23/23 Time: 0915

If preservation required by Login: Date/Time
Hold:
Condition: NCF / OK

Released to Imaging: 6/28/2024 11:23:28 AM

Received by OCD: 6/12/2024 3:31:05 PM

| | | |

Received by OCD: 6/12/2024 3:31:05 PM

Tracking Numbers	Temperature
633769180867	3.2 to 3.2
58851	2.1 to 2.1
633769180893	2.8 to 2.8
5850	4.8 to 4.8
633769180875	3.0 to 3.0
633769180851	3.1 to 3.1

Released to Imaging: 6/28/2024 11:23:28 AM

ANALYTICAL REPORT

April 04, 2023

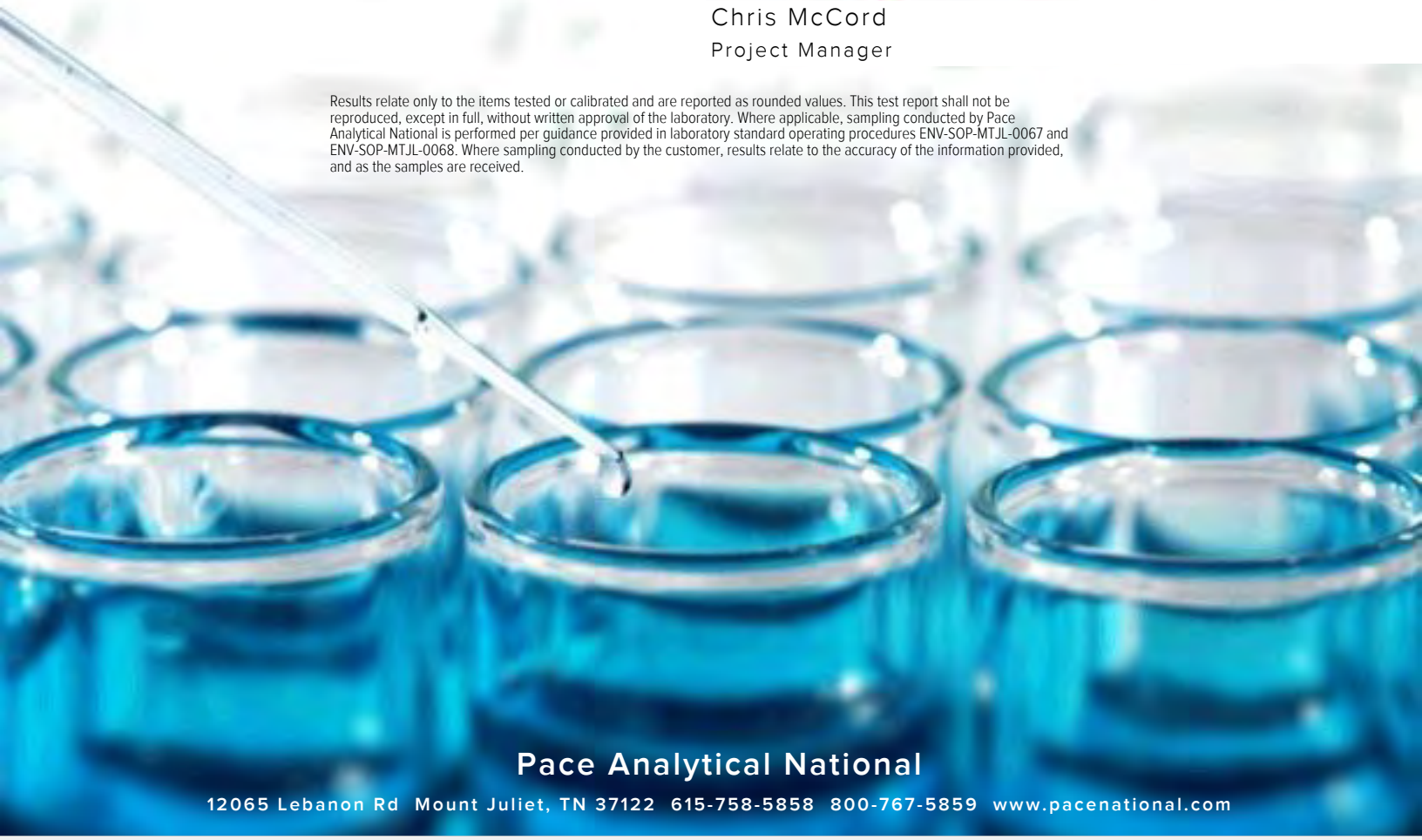
TRC Solutions - Austin, TX

Sample Delivery Group:	L1598054
Samples Received:	03/24/2023
Project Number:	
Description:	Artesia Spring 2023
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-140 L1598054-01 GW

Collected by: SU / HMI Team
Collected date/time: 03/23/23 08:10
Received date/time: 03/24/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2030626	1	03/27/23 17:22	03/27/23 22:55	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029708	10	03/25/23 04:22	03/25/23 04:22	LBR	Mt. Juliet, TN
Mercury by Method 7470A	WG2030406	1	03/30/23 09:59	03/31/23 11:40	SRT	Mt. Juliet, TN
Mercury by Method 7470A	WG2030412	1	03/29/23 09:46	03/30/23 10:25	SRT	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2030563	1	03/27/23 15:03	03/28/23 09:35	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2030613	1	03/30/23 11:29	03/30/23 15:29	SPL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029744	1	03/27/23 15:15	03/28/23 20:26	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2030687	1	03/27/23 15:05	03/27/23 22:58	LD	Mt. Juliet, TN

MW-141 L1598054-02 GW

Collected by: SU / HMI Team
Collected date/time: 03/23/23 08:50
Received date/time: 03/24/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2030626	1	03/27/23 17:22	03/27/23 22:55	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029708	10	03/25/23 04:35	03/25/23 04:35	LBR	Mt. Juliet, TN
Mercury by Method 7470A	WG2030406	1	03/30/23 09:59	03/31/23 11:42	SRT	Mt. Juliet, TN
Mercury by Method 7470A	WG2030412	1	03/29/23 09:46	03/30/23 10:27	SRT	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2030563	1	03/27/23 15:03	03/28/23 10:19	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2030613	1	03/30/23 11:29	03/30/23 15:39	SPL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029744	1	03/27/23 15:15	03/28/23 20:29	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2031061	1	03/28/23 11:34	03/29/23 01:56	SJM	Mt. Juliet, TN

MW-142 L1598054-03 GW

Collected by: SU / HMI Team
Collected date/time: 03/23/23 10:25
Received date/time: 03/24/23 09:00

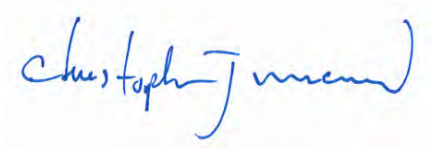
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2030626	1	03/27/23 17:22	03/27/23 22:55	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029708	10	03/25/23 05:14	03/25/23 05:14	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029708	100	03/25/23 10:41	03/25/23 10:41	LBR	Mt. Juliet, TN
Mercury by Method 7470A	WG2030406	1	03/30/23 09:59	03/31/23 11:44	SRT	Mt. Juliet, TN
Mercury by Method 7470A	WG2030412	1	03/29/23 09:46	03/30/23 10:29	SRT	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2030563	1	03/27/23 15:03	03/28/23 10:21	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2030613	1	03/30/23 11:29	03/30/23 15:42	SPL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029744	1	03/27/23 15:15	03/28/23 20:32	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2030687	1	03/27/23 15:05	03/27/23 23:08	LD	Mt. Juliet, TN

MW-143 L1598054-04 GW

Collected by: SU / HMI Team
Collected date/time: 03/23/23 09:50
Received date/time: 03/24/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2031466	1	03/28/23 20:51	03/29/23 07:10	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029708	10	03/25/23 05:27	03/25/23 05:27	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2029708	100	03/25/23 10:54	03/25/23 10:54	LBR	Mt. Juliet, TN
Mercury by Method 7470A	WG2030406	1	03/30/23 09:59	03/31/23 11:46	SRT	Mt. Juliet, TN
Mercury by Method 7470A	WG2030412	1	03/29/23 09:46	03/30/23 10:31	SRT	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2030563	1	03/27/23 15:03	03/28/23 10:24	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2030613	1	03/30/23 11:29	03/30/23 15:45	SPL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2029744	1	03/27/23 15:15	03/28/23 20:43	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2030687	1	03/27/23 15:05	03/27/23 23:11	LD	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 mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3320		50.0	1	03/27/2023 22:55	WG2030626

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	243		3.79	10.0	10	03/25/2023 04:22	WG2029708
Fluoride	1.48	J	0.640	1.50	10	03/25/2023 04:22	WG2029708
Nitrate	7.69	B	0.480	1.00	10	03/25/2023 04:22	WG2029708
Nitrite	U		0.420	1.00	10	03/25/2023 04:22	WG2029708
Sulfate	1730		5.94	50.0	10	03/25/2023 04:22	WG2029708

Sample Narrative:

L1598054-01 WG2029708: Dilution due to matrix.

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	03/31/2023 11:40	WG2030406
Mercury,Dissolved	U		0.000100	0.000200	1	03/30/2023 10:25	WG2030412

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	0.524		0.0200	0.200	1	03/30/2023 15:29	WG2030613
Boron,Dissolved	0.561		0.0200	0.200	1	03/28/2023 09:35	WG2030563

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00358		0.000180	0.00200	1	03/27/2023 22:58	WG2030687
Arsenic,Dissolved	0.00335		0.000180	0.00200	1	03/28/2023 20:26	WG2029744
Barium	0.0118		0.000381	0.00200	1	03/27/2023 22:58	WG2030687
Barium,Dissolved	0.0126		0.000381	0.00200	1	03/28/2023 20:26	WG2029744
Cadmium	U		0.000150	0.00100	1	03/27/2023 22:58	WG2030687
Cadmium,Dissolved	U		0.000150	0.00100	1	03/28/2023 20:26	WG2029744
Calcium	507		0.0936	1.00	1	03/27/2023 22:58	WG2030687
Chromium	U		0.00124	0.00200	1	03/27/2023 22:58	WG2030687
Chromium,Dissolved	0.00132	J	0.00124	0.00200	1	03/28/2023 20:26	WG2029744
Cobalt	0.000187	J	0.0000596	0.00200	1	03/27/2023 22:58	WG2030687
Cobalt,Dissolved	0.000179	J	0.0000596	0.00200	1	03/28/2023 20:26	WG2029744
Iron	U		0.0281	0.100	1	03/27/2023 22:58	WG2030687
Iron,Dissolved	U		0.0281	0.100	1	03/28/2023 20:26	WG2029744
Lead	U		0.000849	0.00200	1	03/27/2023 22:58	WG2030687
Lead,Dissolved	U		0.000849	0.00200	1	03/28/2023 20:26	WG2029744
Manganese	0.0479		0.000704	0.00500	1	03/27/2023 22:58	WG2030687
Manganese,Dissolved	0.0186		0.000704	0.00500	1	03/28/2023 20:26	WG2029744
Nickel	0.00435		0.000816	0.00200	1	03/27/2023 22:58	WG2030687
Nickel,Dissolved	0.00698		0.000816	0.00200	1	03/28/2023 20:26	WG2029744
Potassium	36.7		0.108	2.00	1	03/27/2023 22:58	WG2030687
Selenium	0.00541		0.000300	0.00200	1	03/27/2023 22:58	WG2030687
Selenium,Dissolved	0.00541		0.000300	0.00200	1	03/28/2023 20:26	WG2029744
Sodium	198		0.376	2.00	1	03/27/2023 22:58	WG2030687
Uranium	0.0357		0.0000789	0.00100	1	03/27/2023 22:58	WG2030687
Uranium,Dissolved	0.0403		0.0000789	0.00100	1	03/28/2023 20:26	WG2029744

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Vanadium	0.0148		0.000664	0.00500	1	03/27/2023 22:58	WG2030687
Vanadium,Dissolved	0.0148		0.000664	0.00500	1	03/28/2023 20:26	WG2029744

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	03/27/2023 22:55	WG2030626

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	216		3.79	10.0	10	03/25/2023 04:35	WG2029708
Fluoride	1.27	J	0.640	1.50	10	03/25/2023 04:35	WG2029708
Nitrate	5.45	B	0.480	1.00	10	03/25/2023 04:35	WG2029708
Nitrite	U		0.420	1.00	10	03/25/2023 04:35	WG2029708
Sulfate	1430		5.94	50.0	10	03/25/2023 04:35	WG2029708

Sample Narrative:

L1598054-02 WG2029708: Dilution due to matrix.

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	0.000129	J	0.000100	0.000200	1	03/31/2023 11:42	WG2030406
Mercury,Dissolved	U		0.000100	0.000200	1	03/30/2023 10:27	WG2030412

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	0.203	B	0.0200	0.200	1	03/30/2023 15:39	WG2030613
Boron,Dissolved	0.217		0.0200	0.200	1	03/28/2023 10:19	WG2030563

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00219		0.000180	0.00200	1	03/29/2023 01:56	WG2031061
Arsenic,Dissolved	0.00246		0.000180	0.00200	1	03/28/2023 20:29	WG2029744
Barium	0.0112		0.000381	0.00200	1	03/29/2023 01:56	WG2031061
Barium,Dissolved	0.0107		0.000381	0.00200	1	03/28/2023 20:29	WG2029744
Cadmium	U		0.000150	0.00100	1	03/29/2023 01:56	WG2031061
Cadmium,Dissolved	U		0.000150	0.00100	1	03/28/2023 20:29	WG2029744
Calcium	506		0.0936	1.00	1	03/29/2023 01:56	WG2031061
Chromium	U		0.00124	0.00200	1	03/29/2023 01:56	WG2031061
Chromium,Dissolved	U		0.00124	0.00200	1	03/28/2023 20:29	WG2029744
Cobalt	0.000386	J	0.0000596	0.00200	1	03/29/2023 01:56	WG2031061
Cobalt,Dissolved	0.000332	J	0.0000596	0.00200	1	03/28/2023 20:29	WG2029744
Iron	0.0496	B J	0.0281	0.100	1	03/29/2023 01:56	WG2031061
Iron,Dissolved	U		0.0281	0.100	1	03/28/2023 20:29	WG2029744
Lead	U		0.000849	0.00200	1	03/29/2023 01:56	WG2031061
Lead,Dissolved	U		0.000849	0.00200	1	03/28/2023 20:29	WG2029744
Manganese	0.00765		0.000704	0.00500	1	03/29/2023 01:56	WG2031061
Manganese,Dissolved	0.00247	J	0.000704	0.00500	1	03/28/2023 20:29	WG2029744
Nickel	0.00123	J	0.000816	0.00200	1	03/29/2023 01:56	WG2031061
Nickel,Dissolved	0.00141	J	0.000816	0.00200	1	03/28/2023 20:29	WG2029744
Potassium	2.09		0.108	2.00	1	03/29/2023 01:56	WG2031061
Selenium	0.00368		0.000300	0.00200	1	03/29/2023 01:56	WG2031061
Selenium,Dissolved	0.00337		0.000300	0.00200	1	03/28/2023 20:29	WG2029744
Sodium	51.6		0.376	2.00	1	03/29/2023 01:56	WG2031061
Uranium	0.0224		0.0000789	0.00100	1	03/29/2023 01:56	WG2031061
Uranium,Dissolved	0.0240		0.0000789	0.00100	1	03/28/2023 20:29	WG2029744

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L1598054

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Vanadium	0.0127		0.000664	0.00500	1	03/29/2023 01:56	WG2031061
Vanadium,Dissolved	0.0134		0.000664	0.00500	1	03/28/2023 20:29	WG2029744

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4680		50.0	1	03/27/2023 22:55	WG2030626

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	262		3.79	10.0	10	03/25/2023 05:14	WG2029708
Fluoride	1.81		0.640	1.50	10	03/25/2023 05:14	WG2029708
Nitrate	U		0.480	1.00	10	03/25/2023 05:14	WG2029708
Nitrite	U		0.420	1.00	10	03/25/2023 05:14	WG2029708
Sulfate	2100		59.4	500	100	03/25/2023 10:41	WG2029708

Sample Narrative:

L1598054-03 WG2029708: Dilution due to matrix.

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	03/31/2023 11:44	WG2030406
Mercury,Dissolved	U		0.000100	0.000200	1	03/30/2023 10:29	WG2030412

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	0.435	B	0.0200	0.200	1	03/30/2023 15:42	WG2030613
Boron,Dissolved	0.450		0.0200	0.200	1	03/28/2023 10:21	WG2030563

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00394		0.000180	0.00200	1	03/27/2023 23:08	WG2030687
Arsenic,Dissolved	0.00380		0.000180	0.00200	1	03/28/2023 20:32	WG2029744
Barium	0.00917		0.000381	0.00200	1	03/27/2023 23:08	WG2030687
Barium,Dissolved	0.00958		0.000381	0.00200	1	03/28/2023 20:32	WG2029744
Cadmium	U		0.000150	0.00100	1	03/27/2023 23:08	WG2030687
Cadmium,Dissolved	U		0.000150	0.00100	1	03/28/2023 20:32	WG2029744
Calcium	576		0.0936	1.00	1	03/27/2023 23:08	WG2030687
Chromium	U		0.00124	0.00200	1	03/27/2023 23:08	WG2030687
Chromium,Dissolved	U		0.00124	0.00200	1	03/28/2023 20:32	WG2029744
Cobalt	0.000264	J	0.0000596	0.00200	1	03/27/2023 23:08	WG2030687
Cobalt,Dissolved	0.000136	J	0.0000596	0.00200	1	03/28/2023 20:32	WG2029744
Iron	U		0.0281	0.100	1	03/27/2023 23:08	WG2030687
Iron,Dissolved	U		0.0281	0.100	1	03/28/2023 20:32	WG2029744
Lead	U		0.000849	0.00200	1	03/27/2023 23:08	WG2030687
Lead,Dissolved	U		0.000849	0.00200	1	03/28/2023 20:32	WG2029744
Manganese	0.0209		0.000704	0.00500	1	03/27/2023 23:08	WG2030687
Manganese,Dissolved	0.0209		0.000704	0.00500	1	03/28/2023 20:32	WG2029744
Nickel	0.00306		0.000816	0.00200	1	03/27/2023 23:08	WG2030687
Nickel,Dissolved	0.00286		0.000816	0.00200	1	03/28/2023 20:32	WG2029744
Potassium	0.992	J	0.108	2.00	1	03/27/2023 23:08	WG2030687
Selenium	0.00503		0.000300	0.00200	1	03/27/2023 23:08	WG2030687
Selenium,Dissolved	0.00500		0.000300	0.00200	1	03/28/2023 20:32	WG2029744
Sodium	170		0.376	2.00	1	03/27/2023 23:08	WG2030687
Uranium	0.0436		0.0000789	0.00100	1	03/27/2023 23:08	WG2030687
Uranium,Dissolved	0.0460		0.0000789	0.00100	1	03/28/2023 20:32	WG2029744

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L1598054

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Vanadium	0.0206		0.000664	0.00500	1	03/27/2023 23:08	WG2030687
Vanadium,Dissolved	0.0209		0.000664	0.00500	1	03/28/2023 20:32	WG2029744

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	03/29/2023 07:10	WG2031466

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	228		3.79	10.0	10	03/25/2023 05:27	WG2029708
Fluoride	1.62		0.640	1.50	10	03/25/2023 05:27	WG2029708
Nitrate	U		0.480	1.00	10	03/25/2023 05:27	WG2029708
Nitrite	U		0.420	1.00	10	03/25/2023 05:27	WG2029708
Sulfate	2370		59.4	500	100	03/25/2023 10:54	WG2029708

Sample Narrative:

L1598054-04 WG2029708: Dilution due to matrix.

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	03/31/2023 11:46	WG2030406
Mercury,Dissolved	U		0.000100	0.000200	1	03/30/2023 10:31	WG2030412

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	0.778		0.0200	0.200	1	03/30/2023 15:45	WG2030613
Boron,Dissolved	0.847		0.0200	0.200	1	03/28/2023 10:24	WG2030563

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00420		0.000180	0.00200	1	03/27/2023 23:11	WG2030687
Arsenic,Dissolved	0.00391		0.000180	0.00200	1	03/28/2023 20:43	WG2029744
Barium	0.00810		0.000381	0.00200	1	03/27/2023 23:11	WG2030687
Barium,Dissolved	0.00826		0.000381	0.00200	1	03/28/2023 20:43	WG2029744
Cadmium	U		0.000150	0.00100	1	03/27/2023 23:11	WG2030687
Cadmium,Dissolved	U		0.000150	0.00100	1	03/28/2023 20:43	WG2029744
Calcium	510		0.0936	1.00	1	03/27/2023 23:11	WG2030687
Chromium	U		0.00124	0.00200	1	03/27/2023 23:11	WG2030687
Chromium,Dissolved	U		0.00124	0.00200	1	03/28/2023 20:43	WG2029744
Cobalt	0.000959	J	0.0000596	0.00200	1	03/27/2023 23:11	WG2030687
Cobalt,Dissolved	0.000654	J	0.0000596	0.00200	1	03/28/2023 20:43	WG2029744
Iron	0.0332	J	0.0281	0.100	1	03/27/2023 23:11	WG2030687
Iron,Dissolved	U		0.0281	0.100	1	03/28/2023 20:43	WG2029744
Lead	U		0.000849	0.00200	1	03/27/2023 23:11	WG2030687
Lead,Dissolved	U		0.000849	0.00200	1	03/28/2023 20:43	WG2029744
Manganese	0.0409		0.000704	0.00500	1	03/27/2023 23:11	WG2030687
Manganese,Dissolved	0.0225		0.000704	0.00500	1	03/28/2023 20:43	WG2029744
Nickel	0.00675		0.000816	0.00200	1	03/27/2023 23:11	WG2030687
Nickel,Dissolved	0.00371		0.000816	0.00200	1	03/28/2023 20:43	WG2029744
Potassium	0.725	J	0.108	2.00	1	03/27/2023 23:11	WG2030687
Selenium	0.00121	J	0.000300	0.00200	1	03/27/2023 23:11	WG2030687
Selenium,Dissolved	0.00133	J	0.000300	0.00200	1	03/28/2023 20:43	WG2029744
Sodium	198		0.376	2.00	1	03/27/2023 23:11	WG2030687
Uranium	0.0482		0.0000789	0.00100	1	03/27/2023 23:11	WG2030687
Uranium,Dissolved	0.0490		0.0000789	0.00100	1	03/28/2023 20:43	WG2029744

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L1598054

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Vanadium	0.0236		0.000664	0.00500	1	03/27/2023 23:11	WG2030687
Vanadium,Dissolved	0.0224		0.000664	0.00500	1	03/28/2023 20:43	WG2029744

Method Blank (MB)

(MB) R3907005-1 03/27/23 22:55

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1598018-15 Original Sample (OS) • Duplicate (DUP)

(OS) L1598018-15 03/27/23 22:55 • (DUP) R3907005-3 03/27/23 22:55

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	1150	1050	1	9.12	J3	5

L1598018-16 Original Sample (OS) • Duplicate (DUP)

(OS) L1598018-16 03/27/23 22:55 • (DUP) R3907005-4 03/27/23 22:55

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	775	815	1	5.03	J3	5

Laboratory Control Sample (LCS)

(LCS) R3907005-2 03/27/23 22:55

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8160	92.7	77.3-123	

Method Blank (MB)

(MB) R3907494-1 03/29/23 07:10

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1598098-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1598098-09 03/29/23 07:10 • (DUP) R3907494-3 03/29/23 07:10

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	687	705	1	2.68		5

L1598098-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1598098-10 03/29/23 07:10 • (DUP) R3907494-4 03/29/23 07:10

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	729	761	1	4.29		5

Laboratory Control Sample (LCS)

(LCS) R3907494-2 03/29/23 07:10

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	7340	83.4	77.3-123	

Method Blank (MB)

(MB) R3908051-1 03/25/23 00:04

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	0.468	J	0.379	1.00
Fluoride	U		0.0640	0.150
Nitrate	0.0772	J	0.0480	0.100
Nitrite	U		0.0420	0.100
Sulfate	U		0.594	5.00

L1598018-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1598018-09 03/25/23 01:48 • (DUP) R3908051-3 03/25/23 06:57

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	122	122	1	0.108		15
Fluoride	0.800	0.823	1	2.82		15
Nitrate	7.10	7.09	1	0.171		15
Nitrite	U	U	1	0.000		15
Sulfate	53.1	53.0	1	0.0880		15

L1598018-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1598018-11 03/25/23 02:39 • (DUP) R3908051-5 03/25/23 08:02

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	82.6	82.7	1	0.152		15
Fluoride	0.690	0.673	1	2.57		15
Nitrate	0.0687	U	1	200	P1	15
Nitrite	U	U	1	0.000		15
Sulfate	6.12	6.09	1	0.487		15

Laboratory Control Sample (LCS)

(LCS) R3908051-2 03/25/23 00:17

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	39.4	98.4	80.0-120	
Fluoride	8.00	8.26	103	80.0-120	
Nitrate	8.00	7.78	97.2	80.0-120	
Nitrite	8.00	8.25	103	80.0-120	

Laboratory Control Sample (LCS)

(LCS) R3908051-2 03/25/23 00:17

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Sulfate	40.0	39.3	98.3	80.0-120	

L1598018-09 Original Sample (OS) • Matrix Spike (MS)

(OS) L1598018-09 03/25/23 01:48 • (MS) R3908051-4 03/25/23 07:10

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	122	166	87.8	1	80.0-120	
Fluoride	5.00	0.800	6.12	106	1	80.0-120	
Nitrate	5.00	7.10	11.8	94.3	1	80.0-120	
Nitrite	5.00	U	5.06	101	1	80.0-120	
Sulfate	50.0	53.1	99.5	92.9	1	80.0-120	

L1598018-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1598018-11 03/25/23 02:39 • (MS) R3908051-6 03/25/23 08:14 • (MSD) R3908051-7 03/25/23 08:27

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 %
Chloride	50.0	82.6	128	128	90.5	91.7	1	80.0-120			0.458	15
Fluoride	5.00	0.690	5.79	5.78	102	102	1	80.0-120			0.292	15
Nitrate	5.00	0.0687	4.55	4.56	89.6	89.9	1	80.0-120			0.263	15
Nitrite	5.00	U	4.95	4.94	99.1	98.8	1	80.0-120			0.243	15
Sulfate	50.0	6.12	54.4	54.4	96.5	96.6	1	80.0-120			0.103	15

Method Blank (MB)

(MB) R3907841-1 03/31/23 10:50

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) R3907841-2 03/31/23 10:53

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.00300	0.00314	105	80.0-120	

L1597898-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597898-01 03/31/23 10:55 • (MS) R3907841-3 03/31/23 10:57 • (MSD) R3907841-4 03/31/23 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 %
Mercury	0.00300	U	0.00216	0.00296	72.1	98.7	1	75.0-125	J6	J3	31.1	20

Method Blank (MB)

(MB) R3907241-1 03/30/23 10:03

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) R3907241-2 03/30/23 10:05

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury,Dissolved	0.00300	0.00303	101	80.0-120	

L1597708-35 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597708-35 03/30/23 10:07 • (MS) R3907241-3 03/30/23 10:09 • (MSD) R3907241-4 03/30/23 10:11

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	0.00311	0.00293	104	97.6	1	75.0-125			5.89	20

Method Blank (MB)

(MB) R3906380-1 03/28/23 09:30

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) R3906380-2 03/28/23 09:33

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	

L1598054-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1598054-01 03/28/23 09:35 • (MS) R3906380-4 03/28/23 09:41 • (MSD) R3906380-5 03/28/23 09:43

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 %
Boron,Dissolved	1.00	0.561	1.57	1.59	101	103	1	75.0-125			1.13	20

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Method Blank (MB)

(MB) R3907530-1 03/30/23 15:24

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Boron	0.0464	J	0.0200	0.200

Laboratory Control Sample (LCS)

(LCS) R3907530-2 03/30/23 15:26

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron	1.00	0.880	88.0	80.0-120	

L1598054-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1598054-01 03/30/23 15:29 • (MS) R3907530-4 03/30/23 15:34 • (MSD) R3907530-5 03/30/23 15:37

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 %
Boron	1.00	0.524	1.40	1.45	88.1	92.7	1	75.0-125			3.21	20

Method Blank (MB)

(MB) R3906519-1 03/28/23 19:16

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	0.00200
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		0.0000789	0.00100
Vanadium,Dissolved	U		0.000664	0.00500

Laboratory Control Sample (LCS)

(LCS) R3906519-2 03/28/23 19:20

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic,Dissolved	0.0500	0.0484	96.8	80.0-120	
Barium,Dissolved	0.0500	0.0498	99.7	80.0-120	
Cadmium,Dissolved	0.0500	0.0508	102	80.0-120	
Chromium,Dissolved	0.0500	0.0484	96.9	80.0-120	
Cobalt,Dissolved	0.0500	0.0499	99.8	80.0-120	
Iron,Dissolved	5.00	4.91	98.2	80.0-120	
Lead,Dissolved	0.0500	0.0491	98.3	80.0-120	
Manganese,Dissolved	0.0500	0.0505	101	80.0-120	
Nickel,Dissolved	0.0500	0.0490	98.0	80.0-120	
Selenium,Dissolved	0.0500	0.0516	103	80.0-120	
Uranium,Dissolved	0.0500	0.0524	105	80.0-120	
Vanadium,Dissolved	0.0500	0.0490	98.1	80.0-120	

L1597837-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597837-10 03/28/23 19:23 • (MS) R3906519-4 03/28/23 19:30 • (MSD) R3906519-5 03/28/23 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,Dissolved	0.0500	0.00142	0.0492	0.0487	95.6	94.6	1	75.0-125			0.964	20
Barium,Dissolved	0.0500	0.00849	0.0585	0.0576	100	98.2	1	75.0-125			1.54	20
Cadmium,Dissolved	0.0500	0.000482	0.0516	0.0502	102	99.4	1	75.0-125			2.88	20

L1597837-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597837-10 03/28/23 19:23 • (MS) R3906519-4 03/28/23 19:30 • (MSD) R3906519-5 03/28/23 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 %
Chromium,Dissolved	0.0500	U	0.0486	0.0473	97.2	94.5	1	75.0-125			2.82	20
Cobalt,Dissolved	0.0500	0.000616	0.0496	0.0486	98.0	95.9	1	75.0-125			2.13	20
Iron,Dissolved	5.00	0.0340	4.75	4.81	95.0	96.3	1	75.0-125			1.31	20
Lead,Dissolved	0.0500	0.00415	0.0530	0.0516	97.8	94.9	1	75.0-125			2.73	20
Manganese,Dissolved	0.0500	0.00598	0.0551	0.0548	98.2	97.7	1	75.0-125			0.459	20
Nickel,Dissolved	0.0500	0.00124	0.0493	0.0489	96.2	95.3	1	75.0-125			0.859	20
Selenium,Dissolved	0.0500	0.000376	0.0503	0.0514	101	103	1	75.0-125			2.10	20
Uranium,Dissolved	0.0500	0.000459	0.0528	0.0509	106	102	1	75.0-125			3.73	20
Vanadium,Dissolved	0.0500	0.00297	0.0511	0.0501	96.2	94.3	1	75.0-125			1.86	20

Method Blank (MB)

(MB) R3906048-1 03/27/23 22:28

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	0.00200
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) R3906048-2 03/27/23 22:32

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	0.0500	0.0477	95.3	80.0-120	
Barium	0.0500	0.0464	92.8	80.0-120	
Cadmium	0.0500	0.0518	104	80.0-120	
Calcium	5.00	4.84	96.8	80.0-120	
Chromium	0.0500	0.0495	99.0	80.0-120	
Cobalt	0.0500	0.0500	100	80.0-120	
Iron	5.00	4.91	98.2	80.0-120	
Lead	0.0500	0.0483	96.5	80.0-120	
Manganese	0.0500	0.0499	99.8	80.0-120	
Nickel	0.0500	0.0496	99.1	80.0-120	
Potassium	5.00	4.73	94.6	80.0-120	
Selenium	0.0500	0.0515	103	80.0-120	
Sodium	5.00	5.02	100	80.0-120	
Uranium	0.0500	0.0474	94.8	80.0-120	
Vanadium	0.0500	0.0490	98.0	80.0-120	

L1598268-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1598268-01 03/27/23 22:35 • (MS) R3906048-4 03/27/23 22:41 • (MSD) R3906048-5 03/27/23 22:45

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	0.000318	0.0492	0.0486	97.7	96.7	1	75.0-125			1.06	20
Barium	0.0500	0.0500	0.0975	0.0959	95.0	91.8	1	75.0-125			1.65	20
Cadmium	0.0500	U	0.0533	0.0523	107	105	1	75.0-125			1.83	20
Calcium	5.00	74.9	79.8	79.6	98.0	93.9	1	75.0-125			0.259	20
Chromium	0.0500	U	0.0502	0.0494	100	98.9	1	75.0-125			1.51	20
Cobalt	0.0500	0.0000917	0.0493	0.0484	98.5	96.7	1	75.0-125			1.80	20
Iron	5.00	U	4.99	4.84	99.8	96.8	1	75.0-125			3.11	20
Lead	0.0500	U	0.0496	0.0484	99.1	96.8	1	75.0-125			2.40	20
Manganese	0.0500	0.162	0.251	0.298	178	272	1	75.0-125	J5	J5	17.0	20
Nickel	0.0500	0.00145	0.0494	0.0486	95.9	94.2	1	75.0-125			1.66	20
Potassium	5.00	2.79	7.58	7.46	95.8	93.5	1	75.0-125			1.52	20
Selenium	0.0500	0.000574	0.0534	0.0535	106	106	1	75.0-125			0.222	20
Sodium	5.00	171	172	173	23.9	51.7	1	75.0-125	V	V	0.805	20
Uranium	0.0500	0.000390	0.0507	0.0498	101	98.9	1	75.0-125			1.68	20
Vanadium	0.0500	U	0.0499	0.0500	99.9	99.9	1	75.0-125			0.0577	20

Method Blank (MB)

(MB) R3906628-1 03/29/23 01:27

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	0.0848	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		0.0000789	0.00100
Vanadium	U		0.000664	0.00500

Laboratory Control Sample (LCS)

(LCS) R3906628-2 03/29/23 01:30

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	0.0500	0.0473	94.7	80.0-120	
Barium	0.0500	0.0449	89.7	80.0-120	
Cadmium	0.0500	0.0483	96.5	80.0-120	
Calcium	5.00	4.64	92.7	80.0-120	
Chromium	0.0500	0.0486	97.1	80.0-120	
Cobalt	0.0500	0.0489	97.7	80.0-120	
Iron	5.00	4.86	97.1	80.0-120	
Lead	0.0500	0.0475	94.9	80.0-120	
Manganese	0.0500	0.0488	97.6	80.0-120	
Nickel	0.0500	0.0493	98.6	80.0-120	
Potassium	5.00	4.51	90.2	80.0-120	
Selenium	0.0500	0.0484	96.7	80.0-120	
Sodium	5.00	4.61	92.2	80.0-120	
Uranium	0.0500	0.0479	95.8	80.0-120	
Vanadium	0.0500	0.0473	94.6	80.0-120	

Received by OCD: 6/12/2024 3:31:05 PM

L1598671-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1598671-08 03/29/23 01:33 • (MS) R3906628-4 03/29/23 01:40 • (MSD) R3906628-5 03/29/23 01:43

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 %
Arsenic	0.0500	0.000995	0.0475	0.0500	93.1	98.1	1	75.0-125			5.11	20
Barium	0.0500	0.153	0.200	0.200	92.9	94.3	1	75.0-125			0.347	20
Cadmium	0.0500	0.000273	0.0512	0.0502	102	99.9	1	75.0-125			1.94	20
Calcium	5.00	43.8	48.3	49.1	91.1	106	1	75.0-125			1.54	20
Chromium	0.0500	U	0.0481	0.0492	96.1	98.4	1	75.0-125			2.38	20
Cobalt	0.0500	0.000498	0.0486	0.0494	96.2	97.8	1	75.0-125			1.59	20
Iron	5.00	0.295	5.02	5.18	94.6	97.6	1	75.0-125			2.98	20
Lead	0.0500	U	0.0487	0.0495	97.4	99.1	1	75.0-125			1.76	20
Manganese	0.0500	0.621	0.655	0.670	66.6	97.0	1	75.0-125	V		2.29	20
Nickel	0.0500	0.00135	0.0479	0.0490	93.2	95.3	1	75.0-125			2.20	20
Potassium	5.00	2.71	7.37	7.53	93.3	96.4	1	75.0-125			2.12	20
Selenium	0.0500	U	0.0527	0.0518	105	104	1	75.0-125			1.81	20
Sodium	5.00	12.3	17.1	17.4	95.2	101	1	75.0-125			1.59	20
Uranium	0.0500	0.000299	0.0496	0.0508	98.7	101	1	75.0-125			2.34	20
Vanadium	0.0500	0.00212	0.0493	0.0506	94.4	96.9	1	75.0-125			2.57	20

Released to Imaging: 6/28/2024 11:23:28 AM

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.
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.
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.
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.

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 Spring 2023	City/State Collected: Artesia, NM
Phone: 512-684-3170 Fax:	Client Project # Lab Project # TRCATX-ARTESIA
Collected by (print): Scott Ude/HMI Team	Site/Facility ID # (Navajo - Artesia) P.O. #
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 ___ of ___

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# 4598054
J197

Acctnum: TRCATX
Template: T206304
Prelogin: P985462
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/Diss. Short List Metals	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total /Diss. Long List Metals	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
~~TRIP BLANK-EP-03~~	Grab	GW				1	x											
Added per TRC 3/21/23																		
MW-140	Grab	GW		3-23-23	810	4					X	X	X					01
MW-141	↓	↓		↓	850	4					X	X	X					02
MW-142					1025	4					X	X	X					03
MW-143	↓	↓		↓	950	4					X	X	X					04
(note: MW-144 sampled 3/22/23)																		

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 # 6357 9918 9287

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: 3-23-23	Time: 1500	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: NS°C Bottles Received: 1.6+0.2=1.8 16	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) (12)	Date: 3/24/23 Time: 0900	Hold: Condition: NCF / OK

ANALYTICAL REPORT

January 16, 2024

Revised Report

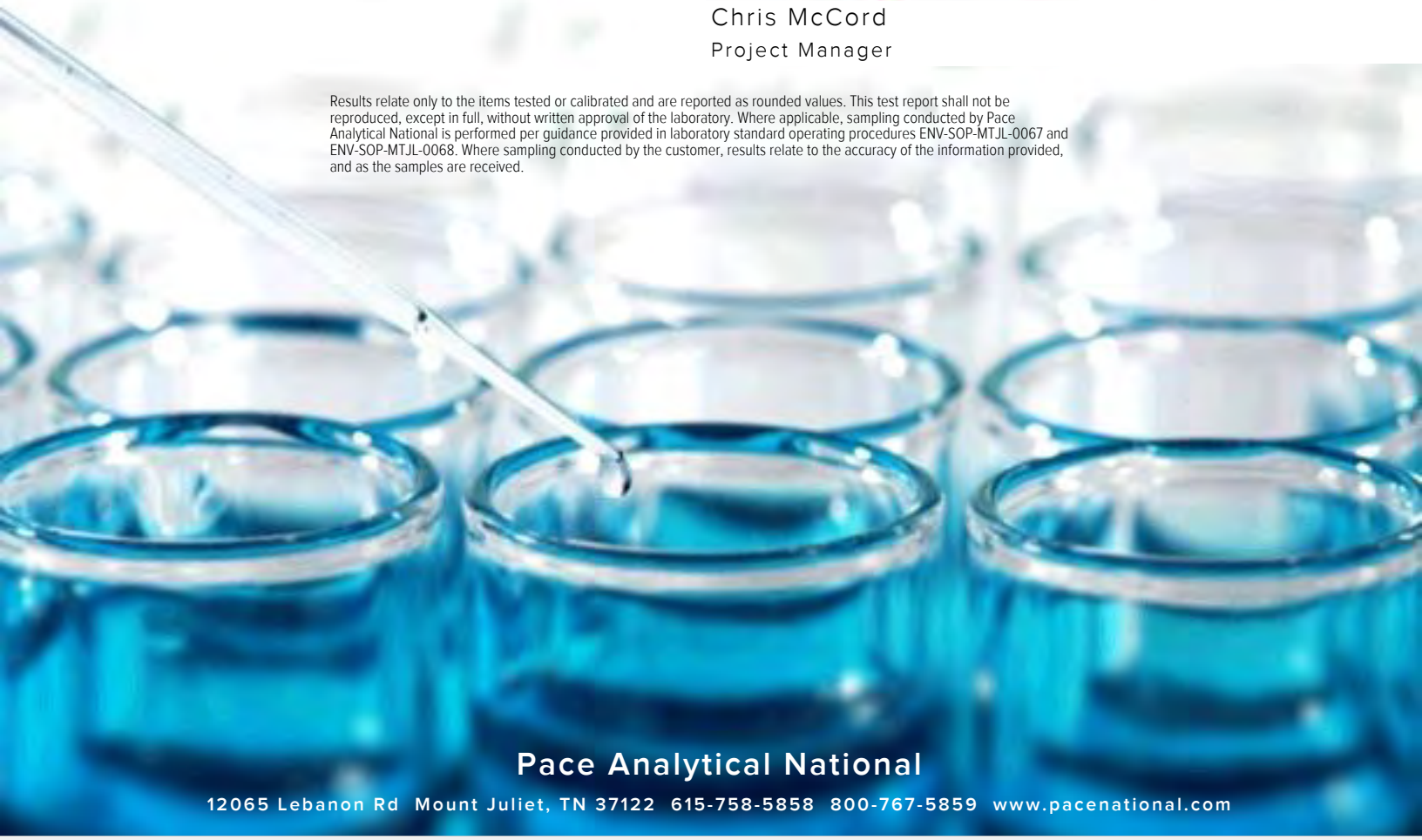
TRC Solutions - Austin, TX

Sample Delivery Group:	L1662588
Samples Received:	10/04/2023
Project Number:	
Description:	Artesia Fall 2023
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 L1662588-01 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 10/03/23 08:25 | Received date/time: 10/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2146072	1	10/05/23 23:26	10/08/23 15:59	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145066	10	10/04/23 21:43	10/04/23 21:43	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145066	100	10/05/23 08:44	10/05/23 08:44	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2145199	1	10/08/23 10:32	10/15/23 16:26	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2145199	5	10/08/23 10:32	10/16/23 14:12	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2147178	1	10/08/23 03:44	10/08/23 03:44	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2145862	1	10/05/23 21:51	10/05/23 21:51	JCP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2146458	1	10/06/23 17:35	10/06/23 17:35	TJJ	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2147877	1	10/11/23 08:02	10/11/23 18:51	DMG	Mt. Juliet, TN

MW-121 L1662588-02 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 10/03/23 09:10 | Received date/time: 10/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2146072	1	10/05/23 23:26	10/08/23 15:59	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145066	10	10/04/23 21:59	10/04/23 21:59	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145066	100	10/05/23 09:00	10/05/23 09:00	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2145199	1	10/08/23 10:32	10/15/23 16:29	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2147178	1	10/08/23 04:07	10/08/23 04:07	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2147877	1	10/11/23 08:02	10/11/23 19:12	DMG	Mt. Juliet, TN

MW-84 L1662588-03 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 10/03/23 14:00 | Received date/time: 10/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2146077	1	10/05/23 23:28	10/09/23 09:36	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145093	100	10/05/23 17:50	10/05/23 17:50	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2145199	1	10/08/23 10:32	10/16/23 14:16	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2145199	5	10/08/23 10:32	10/15/23 16:32	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2147178	1	10/08/23 04:30	10/08/23 04:30	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2147877	20	10/11/23 08:02	10/11/23 21:12	DMG	Mt. Juliet, TN

MW-122 L1662588-04 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 10/03/23 09:55 | Received date/time: 10/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2146077	1	10/05/23 23:28	10/09/23 09:36	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145066	10	10/04/23 22:15	10/04/23 22:15	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2145199	1	10/08/23 10:32	10/15/23 16:36	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2147178	1	10/08/23 04:53	10/08/23 04:53	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2147877	1	10/11/23 08:02	10/13/23 08:31	DMG	Mt. Juliet, TN

MW-79 L1662588-05 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 10/03/23 14:00 | Received date/time: 10/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2146077	1	10/05/23 23:28	10/09/23 09:36	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145093	10	10/05/23 18:02	10/05/23 18:02	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2145199	1	10/08/23 10:32	10/15/23 16:52	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2147178	1	10/08/23 07:39	10/08/23 07:39	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2147877	1	10/11/23 08:02	10/13/23 08:51	DMG	Mt. Juliet, TN

MW-74 L1662588-06 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 10/03/23 13:05 | Received date/time: 10/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2150228	1	10/12/23 16:20	10/13/23 00:00	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145093	10	10/05/23 13:18	10/05/23 13:18	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145093	100	10/05/23 21:01	10/05/23 21:01	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2145199	1	10/08/23 10:32	10/15/23 16:55	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2145199	5	10/08/23 10:32	10/16/23 14:19	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2147178	10	10/08/23 09:10	10/08/23 09:10	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2147877	5	10/11/23 08:02	10/12/23 04:04	DMG	Mt. Juliet, TN

MW-2A L1662588-07 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 10/03/23 10:40 | Received date/time: 10/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2150228	1	10/12/23 16:20	10/13/23 00:00	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145066	10	10/04/23 22:31	10/04/23 22:31	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145066	100	10/05/23 10:03	10/05/23 10:03	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2145199	1	10/08/23 10:32	10/15/23 16:59	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2145199	5	10/08/23 10:32	10/16/23 14:22	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2147178	1	10/08/23 08:02	10/08/23 08:02	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2148096	1	10/10/23 16:44	10/11/23 14:09	MAA	Mt. Juliet, TN

OCD-6 L1662588-08 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 10/03/23 11:30 | Received date/time: 10/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2146077	1	10/05/23 23:28	10/09/23 09:36	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145090	10	10/05/23 01:15	10/05/23 01:15	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145090	100	10/05/23 05:39	10/05/23 05:39	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2145199	1	10/08/23 10:32	10/15/23 17:02	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2145199	5	10/08/23 10:32	10/16/23 14:25	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2147178	1	10/08/23 08:25	10/08/23 08:25	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2148096	1	10/10/23 16:44	10/11/23 14:49	MAA	Mt. Juliet, TN

OCD-7AR L1662588-09 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 10/03/23 12:15 | Received date/time: 10/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2146077	1	10/05/23 23:28	10/09/23 09:36	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145093	10	10/05/23 11:11	10/05/23 11:11	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145093	100	10/05/23 19:19	10/05/23 19:19	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2145199	1	10/08/23 10:32	10/15/23 16:13	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2145199	5	10/08/23 10:32	10/16/23 14:09	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2150199	20	10/12/23 19:32	10/12/23 19:32	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2148096	1	10/10/23 16:44	10/11/23 15:09	MAA	Mt. Juliet, TN

EB-EP-01 L1662588-10 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 10/03/23 13:20 | Received date/time: 10/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2146077	1	10/05/23 23:28	10/09/23 09:36	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145093	1	10/05/23 16:21	10/05/23 16:21	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2145199	1	10/08/23 10:32	10/15/23 17:05	SJM	Mt. Juliet, TN

EB-EP-01 L1662588-10 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 10/03/23 13:20 | Received date/time: 10/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2147178	1	10/08/23 02:13	10/08/23 02:13	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2148096	1	10/10/23 16:44	10/11/23 15:28	MAA	Mt. Juliet, TN

EB-EP-04 L1662588-11 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 10/03/23 14:20 | Received date/time: 10/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2146077	1	10/05/23 23:28	10/09/23 09:36	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145093	1	10/05/23 18:28	10/05/23 18:28	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2145199	1	10/08/23 10:32	10/15/23 17:09	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2147178	1	10/08/23 02:36	10/08/23 02:36	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2148096	1	10/10/23 16:44	10/11/23 15:48	MAA	Mt. Juliet, TN

TRIP BLANK-EP-01 L1662588-12 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 10/03/23 00:00 | Received date/time: 10/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2145862	1	10/05/23 20:26	10/05/23 20:26	JCP	Mt. Juliet, TN

MW-76 L1662588-13 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 10/03/23 09:25 | Received date/time: 10/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2146077	1	10/05/23 23:28	10/09/23 09:36	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145066	10	10/04/23 22:46	10/04/23 22:46	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2145199	1	10/08/23 10:32	10/15/23 17:12	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2147178	1	10/08/23 08:48	10/08/23 08:48	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2148096	1	10/10/23 16:44	10/11/23 16:08	MAA	Mt. Juliet, TN

MW-75 L1662588-14 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 10/03/23 10:10 | Received date/time: 10/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2146077	1	10/05/23 23:28	10/09/23 09:36	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145066	10	10/04/23 23:02	10/04/23 23:02	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2145199	1	10/08/23 10:32	10/15/23 17:15	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2145199	5	10/08/23 10:32	10/16/23 14:29	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2147502	10	10/09/23 04:24	10/09/23 04:24	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2148096	5	10/10/23 16:44	10/11/23 19:45	MAA	Mt. Juliet, TN

MW-83 L1662588-15 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 10/03/23 10:45 | Received date/time: 10/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2146077	1	10/05/23 23:28	10/09/23 09:36	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145066	10	10/04/23 23:18	10/04/23 23:18	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145066	100	10/05/23 10:51	10/05/23 10:51	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2145199	1	10/08/23 10:32	10/15/23 17:18	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2147502	1	10/08/23 22:19	10/08/23 22:19	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2148096	10	10/10/23 16:48	10/11/23 20:05	MAA	Mt. Juliet, TN

MW-3 L1662588-16 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 10/03/23 11:20 | Received date/time: 10/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2146077	1	10/05/23 23:28	10/09/23 09:36	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145090	10	10/05/23 01:27	10/05/23 01:27	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145090	100	10/05/23 06:17	10/05/23 06:17	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2145199	1	10/08/23 10:32	10/15/23 17:22	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2145199	5	10/08/23 10:32	10/16/23 14:32	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2147502	1	10/08/23 22:41	10/08/23 22:41	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2148862	1	10/12/23 12:49	10/13/23 03:11	DMG	Mt. Juliet, TN

MW-4A L1662588-17 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 10/03/23 13:00 | Received date/time: 10/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2146077	1	10/05/23 23:28	10/09/23 09:36	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145093	10	10/05/23 12:14	10/05/23 12:14	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2145199	1	10/08/23 10:32	10/15/23 17:38	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2147502	10	10/09/23 04:47	10/09/23 04:47	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2148862	1	10/12/23 12:49	10/13/23 03:37	DMG	Mt. Juliet, TN

MW-5A L1662588-18 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 10/03/23 12:05 | Received date/time: 10/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2150228	1	10/12/23 16:20	10/13/23 00:00	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145090	10	10/05/23 01:40	10/05/23 01:40	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145090	100	10/05/23 06:30	10/05/23 06:30	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2145199	1	10/08/23 10:32	10/15/23 17:42	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2145199	5	10/08/23 10:32	10/16/23 15:01	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2147502	1	10/08/23 23:04	10/08/23 23:04	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2148862	1	10/12/23 12:49	10/13/23 04:02	DMG	Mt. Juliet, TN

DUP-EP-03 L1662588-19 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 10/03/23 10:40 | Received date/time: 10/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2146077	1	10/05/23 23:28	10/09/23 09:36	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145066	10	10/04/23 23:34	10/04/23 23:34	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145066	100	10/05/23 11:07	10/05/23 11:07	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2145199	1	10/08/23 10:32	10/15/23 17:45	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2145199	5	10/08/23 10:32	10/16/23 15:04	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2147502	1	10/08/23 23:26	10/08/23 23:26	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2148862	1	10/12/23 12:49	10/13/23 04:28	DMG	Mt. Juliet, TN

EB-EP-03 L1662588-20 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 10/03/23 12:15 | Received date/time: 10/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2150228	1	10/12/23 16:20	10/13/23 00:00	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145093	1	10/05/23 11:23	10/05/23 11:23	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2145199	1	10/08/23 10:32	10/15/23 17:48	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2147502	1	10/08/23 21:33	10/08/23 21:33	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2148862	1	10/12/23 12:49	10/13/23 04:54	DMG	Mt. Juliet, TN

OCD-1R L1662588-21 GW

Collected by	Collected date/time	Received date/time
Scott Ude/HMI Team	10/03/23 12:20	10/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2146077	1	10/05/23 23:28	10/09/23 09:36	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145093	10	10/05/23 11:36	10/05/23 11:36	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145093	100	10/05/23 19:32	10/05/23 19:32	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2145199	1	10/08/23 10:32	10/15/23 17:51	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2145199	5	10/08/23 10:32	10/16/23 15:08	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2147502	1	10/08/23 23:48	10/08/23 23:48	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2148862	1	10/12/23 12:49	10/13/23 05:19	DMG	Mt. Juliet, TN

OCD-2A L1662588-22 GW

Collected by	Collected date/time	Received date/time
Scott Ude/HMI Team	10/03/23 11:30	10/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICPMS) by Method 6020	WG2145200	1	10/08/23 10:31	10/17/23 16:28	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2147502	1	10/09/23 00:10	10/09/23 00:10	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2148862	1	10/12/23 12:49	10/13/23 05:45	DMG	Mt. Juliet, TN

OCD-3 L1662588-23 GW

Collected by	Collected date/time	Received date/time
Scott Ude/HMI Team	10/03/23 08:30	10/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICPMS) by Method 6020	WG2145200	1	10/08/23 10:31	10/17/23 16:32	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2147502	1	10/09/23 00:33	10/09/23 00:33	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2148862	1	10/12/23 12:49	10/13/23 06:11	DMG	Mt. Juliet, TN

OCD-4 L1662588-24 GW

Collected by	Collected date/time	Received date/time
Scott Ude/HMI Team	10/03/23 09:20	10/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICPMS) by Method 6020	WG2145200	1	10/08/23 10:31	10/17/23 16:35	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2147502	1	10/09/23 00:55	10/09/23 00:55	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2148862	1	10/12/23 12:49	10/13/23 06:36	DMG	Mt. Juliet, TN

MW-11A L1662588-25 GW

Collected by	Collected date/time	Received date/time
Scott Ude/HMI Team	10/03/23 10:50	10/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2146077	1	10/05/23 23:28	10/09/23 09:36	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145066	10	10/04/23 23:50	10/04/23 23:50	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145066	100	10/05/23 11:23	10/05/23 11:23	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2145200	1	10/08/23 10:31	10/17/23 16:48	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2145200	10	10/08/23 10:31	10/18/23 12:09	JPD	Mt. Juliet, TN

OCD-5 L1662588-26 GW

Collected by	Collected date/time	Received date/time
Scott Ude/HMI Team	10/03/23 10:05	10/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2146077	1	10/05/23 23:28	10/09/23 09:36	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145066	10	10/05/23 00:06	10/05/23 00:06	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145066	100	10/05/23 11:39	10/05/23 11:39	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2145200	1	10/08/23 10:31	10/17/23 16:51	JPD	Mt. Juliet, TN

OCD-5 L1662588-26 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 10/03/23 10:05 | Received date/time: 10/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICPMS) by Method 6020	WG2145200	10	10/08/23 10:31	10/18/23 12:12	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2147502	1	10/09/23 01:18	10/09/23 01:18	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2148862	1	10/12/23 12:49	10/13/23 21:31	MAA	Mt. Juliet, TN

TRIP BLANK-EP-03 L1662588-27 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 10/03/23 00:00 | Received date/time: 10/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2145862	1	10/05/23 20:47	10/05/23 20:47	JCP	Mt. Juliet, TN

MW-134 L1662588-28 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 10/03/23 13:35 | Received date/time: 10/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2146078	1	10/05/23 23:37	10/10/23 12:15	KAM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145093	10	10/05/23 16:46	10/05/23 16:46	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145093	100	10/05/23 21:39	10/05/23 21:39	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2145023	1	10/07/23 17:01	10/09/23 19:12	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2145185	1	10/10/23 09:17	10/10/23 23:11	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2145200	1	10/08/23 10:31	10/17/23 16:54	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2147502	1	10/09/23 01:41	10/09/23 01:41	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2145862	1	10/05/23 22:12	10/05/23 22:12	JCP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2146458	1	10/06/23 17:56	10/06/23 17:56	TJJ	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2148862	1	10/12/23 12:49	10/13/23 07:02	DMG	Mt. Juliet, TN

KWB-7 L1662588-29 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 10/03/23 10:10 | Received date/time: 10/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2146078	1	10/05/23 23:37	10/10/23 12:15	KAM	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG2144968	4	10/05/23 18:09	10/05/23 23:30	LDT	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145066	10	10/05/23 00:54	10/05/23 00:54	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2145023	1	10/07/23 17:01	10/09/23 19:28	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2145185	1	10/10/23 09:17	10/10/23 23:15	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2145200	1	10/08/23 10:31	10/17/23 16:58	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2145862	1	10/05/23 22:33	10/05/23 22:33	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2148862	1	10/12/23 12:49	10/13/23 07:27	DMG	Mt. Juliet, TN

NP-1 L1662588-30 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 10/03/23 12:50 | Received date/time: 10/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2145862	20	10/06/23 02:25	10/06/23 02:25	JCP	Mt. Juliet, TN

MW-21 L1662588-31 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 10/03/23 12:10 | Received date/time: 10/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2146078	1	10/05/23 23:37	10/10/23 12:15	KAM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145090	10	10/05/23 01:53	10/05/23 01:53	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145090	100	10/05/23 06:42	10/05/23 06:42	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2145200	1	10/08/23 10:31	10/17/23 16:15	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2147502	1	10/09/23 02:09	10/09/23 02:09	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2145862	5	10/06/23 02:46	10/06/23 02:46	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2148862	1	10/12/23 12:49	10/13/23 07:53	DMG	Mt. Juliet, TN

KWB-11A L1662588-32 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 10/03/23 10:50 | Received date/time: 10/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2146078	1	10/05/23 23:37	10/10/23 12:15	KAM	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG2144968	1	10/05/23 18:09	10/05/23 23:32	LDT	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145066	10	10/05/23 01:10	10/05/23 01:10	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2145023	1	10/07/23 17:01	10/09/23 19:30	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2145185	1	10/10/23 09:17	10/10/23 23:18	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2145200	1	10/08/23 10:31	10/17/23 17:01	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2147502	1	10/09/23 02:32	10/09/23 02:32	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2146342	1	10/06/23 18:17	10/06/23 18:17	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2148862	1	10/12/23 12:49	10/13/23 08:18	DMG	Mt. Juliet, TN

KWB-11B L1662588-33 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 10/03/23 11:25 | Received date/time: 10/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2146078	1	10/05/23 23:37	10/10/23 12:15	KAM	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG2144968	1	10/05/23 18:09	10/05/23 23:33	LDT	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145090	10	10/05/23 02:05	10/05/23 02:05	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2145023	1	10/07/23 17:01	10/09/23 19:33	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2145185	1	10/10/23 09:17	10/10/23 23:21	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2145200	1	10/08/23 10:31	10/17/23 17:04	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2147502	1	10/09/23 02:54	10/09/23 02:54	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2146342	1	10/06/23 18:38	10/06/23 18:38	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2148862	1	10/12/23 12:49	10/13/23 15:08	MAA	Mt. Juliet, TN

DUP-REST-03 L1662588-34 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 10/03/23 12:00 | Received date/time: 10/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2146078	1	10/05/23 23:37	10/10/23 12:15	KAM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145090	10	10/05/23 02:18	10/05/23 02:18	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145090	100	10/05/23 07:07	10/05/23 07:07	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2145200	1	10/08/23 10:31	10/17/23 17:07	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2147502	1	10/09/23 03:17	10/09/23 03:17	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2146342	1	10/06/23 18:59	10/06/23 18:59	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2148862	1	10/12/23 12:49	10/13/23 15:33	MAA	Mt. Juliet, TN

SAMPLE SUMMARY

EB-REST-03 L1662588-35 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 10/03/23 13:45 | Received date/time: 10/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2146078	1	10/05/23 23:37	10/10/23 12:15	KAM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145093	1	10/05/23 16:59	10/05/23 16:59	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2145200	1	10/08/23 10:31	10/17/23 17:10	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2147502	1	10/08/23 21:56	10/08/23 21:56	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2146342	1	10/06/23 19:20	10/06/23 19:20	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2148862	1	10/12/23 12:49	10/13/23 15:58	MAA	Mt. Juliet, TN

TRIP BLANK-REST-01 L1662588-36 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 10/03/23 00:00 | Received date/time: 10/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2146342	1	10/06/23 13:42	10/06/23 13:42	JCP	Mt. Juliet, TN

TRIP BLANK-TMD-01 L1662588-37 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 10/03/23 00:00 | Received date/time: 10/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2146342	1	10/06/23 14:03	10/06/23 14:03	JCP	Mt. Juliet, TN

MW-136 L1662588-38 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 10/03/23 12:25 | Received date/time: 10/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2146078	1	10/05/23 23:37	10/10/23 12:15	KAM	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG2144968	2	10/05/23 18:09	10/05/23 23:36	LDT	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145093	10	10/05/23 11:49	10/05/23 11:49	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2145023	1	10/07/23 17:01	10/09/23 19:35	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2145185	1	10/10/23 09:17	10/10/23 23:24	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2145200	1	10/08/23 10:31	10/17/23 17:14	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2147502	1	10/09/23 03:40	10/09/23 03:40	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2146342	1	10/06/23 19:41	10/06/23 19:41	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2148862	1	10/12/23 12:49	10/13/23 16:24	MAA	Mt. Juliet, TN

MW-126B L1662588-39 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 10/03/23 13:15 | Received date/time: 10/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2146078	1	10/05/23 23:37	10/10/23 12:15	KAM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145093	10	10/05/23 14:09	10/05/23 14:09	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145093	100	10/05/23 21:13	10/05/23 21:13	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2145200	1	10/08/23 10:31	10/17/23 17:24	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2147502	1	10/09/23 04:02	10/09/23 04:02	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2146342	1	10/06/23 20:02	10/06/23 20:02	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2148862	1	10/12/23 12:49	10/13/23 20:40	MAA	Mt. Juliet, TN

KWB-1A L1662588-40 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 10/03/23 14:10 | Received date/time: 10/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2146078	1	10/05/23 23:37	10/10/23 12:15	KAM	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG2144968	1	10/05/23 18:09	10/05/23 23:37	LDT	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145093	10	10/05/23 18:15	10/05/23 18:15	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2145023	1	10/07/23 17:01	10/09/23 19:38	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2145185	1	10/10/23 09:17	10/10/23 23:28	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2145200	1	10/08/23 10:31	10/17/23 17:27	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2146342	1	10/06/23 20:23	10/06/23 20:23	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2148862	1	10/12/23 12:49	10/13/23 21:05	MAA	Mt. Juliet, TN

KWB-12A L1662588-41 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 10/03/23 10:35 | Received date/time: 10/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2146078	1	10/05/23 23:37	10/10/23 12:15	KAM	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG2144968	2	10/05/23 18:09	10/05/23 23:42	LDT	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145066	10	10/05/23 07:09	10/05/23 07:09	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145066	100	10/05/23 12:58	10/05/23 12:58	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2145023	1	10/07/23 17:01	10/09/23 19:40	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2145185	1	10/10/23 09:17	10/10/23 23:31	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2145200	1	10/08/23 10:31	10/17/23 17:30	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2147504	1	10/08/23 23:24	10/08/23 23:24	DYW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2146342	1	10/06/23 20:44	10/06/23 20:44	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2148863	1	10/12/23 15:58	10/13/23 14:16	MAA	Mt. Juliet, TN

KWB-12B L1662588-42 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 10/03/23 11:20 | Received date/time: 10/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2146078	1	10/05/23 23:37	10/10/23 12:15	KAM	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG2144968	2	10/05/23 18:09	10/05/23 23:43	LDT	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145090	10	10/05/23 02:30	10/05/23 02:30	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145090	100	10/05/23 07:20	10/05/23 07:20	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2145023	1	10/07/23 17:01	10/09/23 19:42	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2145185	1	10/10/23 09:17	10/10/23 23:34	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2145200	1	10/08/23 10:31	10/17/23 17:33	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2147504	1	10/08/23 23:46	10/08/23 23:46	DYW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2146342	1	10/06/23 21:05	10/06/23 21:05	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2148863	1	10/12/23 15:58	10/13/23 14:36	MAA	Mt. Juliet, TN

DUP-REST-05 L1662588-43 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 10/03/23 12:00 | Received date/time: 10/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2146078	1	10/05/23 23:37	10/10/23 12:15	KAM	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG2144968	2	10/05/23 18:09	10/05/23 23:48	LDT	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145090	10	10/05/23 02:43	10/05/23 02:43	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145090	100	10/05/23 07:33	10/05/23 07:33	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2145023	1	10/07/23 17:01	10/09/23 19:45	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2145185	1	10/10/23 09:17	10/10/23 23:37	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2145200	1	10/08/23 10:31	10/17/23 17:37	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2147504	1	10/09/23 00:08	10/09/23 00:08	DYW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2146342	1	10/06/23 21:26	10/06/23 21:26	JCP	Mt. Juliet, TN

DUP-REST-05 L1662588-43 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 10/03/23 12:00 | Received date/time: 10/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2148863	1	10/12/23 15:58	10/13/23 14:56	MAA	Mt. Juliet, TN

EB-REST-05 L1662588-44 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 10/03/23 11:35 | Received date/time: 10/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2146078	1	10/05/23 23:37	10/10/23 12:15	KAM	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG2144968	1	10/05/23 18:09	10/05/23 23:49	LDT	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145090	1	10/05/23 02:56	10/05/23 02:56	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2145023	1	10/07/23 17:01	10/09/23 19:47	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2145185	1	10/10/23 09:17	10/10/23 22:31	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2145200	1	10/08/23 10:31	10/17/23 17:40	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2147504	1	10/08/23 22:40	10/08/23 22:40	DYW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2146342	1	10/06/23 21:47	10/06/23 21:47	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2148863	10	10/12/23 15:58	10/14/23 11:55	MAA	Mt. Juliet, TN

TRIP BLANK-REST-02 L1662588-45 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 10/03/23 00:00 | Received date/time: 10/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2146814	1	10/07/23 09:57	10/07/23 09:57	JCP	Mt. Juliet, TN

MW-144 L1662588-46 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 10/03/23 11:10 | Received date/time: 10/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2146078	1	10/05/23 23:37	10/10/23 12:15	KAM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145090	10	10/05/23 03:08	10/05/23 03:08	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145090	100	10/05/23 07:45	10/05/23 07:45	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2145023	1	10/07/23 17:01	10/09/23 19:50	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2145185	1	10/10/23 09:17	10/10/23 23:46	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2145200	1	10/08/23 10:31	10/17/23 17:43	JPD	Mt. Juliet, TN

MW-145 L1662588-47 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 10/03/23 10:25 | Received date/time: 10/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2146078	1	10/05/23 23:37	10/10/23 12:15	KAM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2148203	10	10/10/23 12:59	10/10/23 12:59	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2148203	100	10/10/23 13:11	10/10/23 13:11	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2145201	1	10/08/23 16:25	10/13/23 02:30	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2147504	1	10/09/23 00:30	10/09/23 00:30	DYW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2146814	1	10/07/23 13:25	10/07/23 13:25	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2148863	1	10/12/23 15:58	10/14/23 06:59	MAA	Mt. Juliet, TN

MW-146 L1662588-48 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 10/03/23 12:05 | Received date/time: 10/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2146078	1	10/05/23 23:37	10/10/23 12:15	KAM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2148203	10	10/10/23 13:24	10/10/23 13:24	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2148203	100	10/10/23 13:37	10/10/23 13:37	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2145201	1	10/08/23 16:25	10/13/23 02:33	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2147504	1	10/09/23 00:52	10/09/23 00:52	DYW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2146814	1	10/07/23 13:46	10/07/23 13:46	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2148863	1	10/12/23 15:58	10/14/23 07:19	MAA	Mt. Juliet, TN

MW-135 L1662588-49 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 10/03/23 13:00 | Received date/time: 10/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2146078	1	10/05/23 23:37	10/10/23 12:15	KAM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145093	10	10/05/23 12:27	10/05/23 12:27	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145093	100	10/05/23 20:48	10/05/23 20:48	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2145201	1	10/08/23 16:25	10/13/23 02:37	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2147504	1	10/09/23 01:14	10/09/23 01:14	DYW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2146814	1	10/07/23 14:06	10/07/23 14:06	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2148863	1	10/12/23 15:58	10/14/23 07:39	MAA	Mt. Juliet, TN

MW-147 L1662588-50 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 10/03/23 13:50 | Received date/time: 10/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2146078	1	10/05/23 23:37	10/10/23 12:15	KAM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2148203	10	10/10/23 13:50	10/10/23 13:50	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2148203	100	10/10/23 14:02	10/10/23 14:02	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2145201	1	10/08/23 16:25	10/13/23 02:47	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2147504	1	10/09/23 01:36	10/09/23 01:36	DYW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2146814	1	10/07/23 14:37	10/07/23 14:37	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2148863	1	10/12/23 15:58	10/14/23 07:59	MAA	Mt. Juliet, TN

MW-148 L1662588-51 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 10/03/23 14:40 | Received date/time: 10/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2146078	1	10/05/23 23:37	10/10/23 12:15	KAM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145562	10	10/05/23 13:17	10/05/23 13:17	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2145201	1	10/08/23 16:25	10/13/23 02:50	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2147504	1	10/09/23 01:58	10/09/23 01:58	DYW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2146814	1	10/07/23 14:57	10/07/23 14:57	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2148863	1	10/12/23 15:58	10/14/23 08:18	MAA	Mt. Juliet, TN

DUP-REST-04 L1662588-52 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 10/03/23 12:00 | Received date/time: 10/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2146080	1	10/05/23 23:39	10/10/23 01:11	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2148203	10	10/10/23 14:15	10/10/23 14:15	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2148203	100	10/10/23 14:53	10/10/23 14:53	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2145201	1	10/08/23 16:25	10/13/23 02:53	JPD	Mt. Juliet, TN

DUP-REST-04 L1662588-52 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 10/03/23 12:00 | Received date/time: 10/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2147504	1	10/09/23 02:20	10/09/23 02:20	DYW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2146814	1	10/07/23 15:18	10/07/23 15:18	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2148863	1	10/12/23 15:58	10/14/23 08:38	MAA	Mt. Juliet, TN

EB-REST-04 L1662588-53 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 10/03/23 12:15 | Received date/time: 10/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2146080	1	10/05/23 23:39	10/10/23 01:11	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2148203	1	10/10/23 15:06	10/10/23 15:06	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2145201	1	10/08/23 16:25	10/13/23 02:56	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2147504	1	10/08/23 23:02	10/08/23 23:02	DYW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2146814	1	10/07/23 15:39	10/07/23 15:39	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2148863	1	10/12/23 15:58	10/14/23 08:58	MAA	Mt. Juliet, TN

MW-101 L1662588-54 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 10/03/23 10:15 | Received date/time: 10/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2146080	1	10/05/23 23:39	10/10/23 01:11	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145066	1	10/05/23 07:24	10/05/23 07:24	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2145201	1	10/08/23 16:25	10/13/23 03:00	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2148738	1	10/11/23 14:49	10/11/23 14:49	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2147981	1	10/10/23 01:30	10/10/23 01:30	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2148863	1	10/12/23 15:58	10/14/23 09:18	MAA	Mt. Juliet, TN

MW-105 L1662588-55 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 10/03/23 09:25 | Received date/time: 10/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2146080	1	10/05/23 23:39	10/10/23 01:11	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145066	1	10/05/23 07:40	10/05/23 07:40	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2149890	5	10/13/23 21:24	10/13/23 21:24	HMM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2145201	1	10/08/23 16:25	10/13/23 03:03	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2148738	5	10/11/23 15:35	10/11/23 15:35	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2147981	5	10/10/23 02:12	10/10/23 02:12	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2148863	1	10/12/23 15:58	10/14/23 09:37	MAA	Mt. Juliet, TN

MW-61 L1662588-56 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 10/03/23 11:15 | Received date/time: 10/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2146080	1	10/05/23 23:39	10/10/23 01:11	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145090	10	10/05/23 03:46	10/05/23 03:46	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2145201	1	10/08/23 16:25	10/13/23 13:05	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2147504	10	10/09/23 04:32	10/09/23 04:32	DYW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2147981	10	10/10/23 02:32	10/10/23 02:32	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2148863	1	10/12/23 15:58	10/14/23 09:57	MAA	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG2147626	1	10/10/23 06:34	10/10/23 21:31	AED	Mt. Juliet, TN

MW-98 L1662588-58 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 10/03/23 13:25 | Received date/time: 10/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2146080	1	10/05/23 23:39	10/10/23 01:11	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145093	10	10/05/23 16:33	10/05/23 16:33	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2145201	1	10/08/23 16:25	10/13/23 13:08	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2147504	20	10/09/23 05:15	10/09/23 05:15	DYW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2147845	10	10/09/23 22:30	10/09/23 22:30	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2148863	1	10/12/23 15:58	10/14/23 10:17	MAA	Mt. Juliet, TN

TRIP BLANK-REST-04 L1662588-59 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 10/03/23 00:00 | Received date/time: 10/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2147138	1	10/08/23 03:46	10/08/23 03:46	JCP	Mt. Juliet, TN

MW-50 L1662588-60 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 10/03/23 11:55 | Received date/time: 10/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2146080	1	10/05/23 23:39	10/10/23 01:11	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145090	10	10/05/23 03:59	10/05/23 03:59	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145090	100	10/05/23 08:10	10/05/23 08:10	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2145201	1	10/08/23 16:25	10/13/23 03:16	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2147138	1	10/08/23 06:20	10/08/23 06:20	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2148863	1	10/12/23 15:58	10/14/23 10:36	MAA	Mt. Juliet, TN

MW-90 L1662588-61 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 10/03/23 10:25 | Received date/time: 10/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2146080	1	10/05/23 23:39	10/10/23 01:11	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145066	10	10/05/23 07:56	10/05/23 07:56	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2145201	1	10/08/23 16:25	10/13/23 03:26	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2151046	1	10/14/23 12:18	10/14/23 12:18	KSD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2147138	1	10/08/23 06:42	10/08/23 06:42	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2148863	1	10/12/23 15:58	10/14/23 10:56	MAA	Mt. Juliet, TN

MW-96 L1662588-62 GW

Collected by: Scott Ude/HMI Team | Collected date/time: 10/03/23 11:10 | Received date/time: 10/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2146080	1	10/05/23 23:39	10/10/23 01:11	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145090	10	10/05/23 04:11	10/05/23 04:11	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2145201	1	10/08/23 16:25	10/13/23 03:29	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2147504	10	10/09/23 04:53	10/09/23 04:53	DYW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2147138	10	10/08/23 09:59	10/08/23 09:59	JCP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2147845	1000	10/09/23 22:48	10/09/23 22:48	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2148863	1	10/12/23 15:58	10/14/23 11:16	MAA	Mt. Juliet, TN

SAMPLE SUMMARY

NCL-33 L1662588-63 GW

Collected by	Collected date/time	Received date/time
Scott Ude/HMI Team	10/03/23 10:25	10/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2146080	1	10/05/23 23:39	10/10/23 01:11	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145066	10	10/05/23 08:12	10/05/23 08:12	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2145201	1	10/08/23 16:25	10/13/23 13:12	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2147138	1	10/08/23 07:03	10/08/23 07:03	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2148863	20	10/12/23 15:58	10/14/23 12:15	MAA	Mt. Juliet, TN

NCL-44 L1662588-64 GW

Collected by	Collected date/time	Received date/time
Scott Ude/HMI Team	10/03/23 11:10	10/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2146080	1	10/05/23 23:39	10/10/23 01:11	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145090	10	10/05/23 04:24	10/05/23 04:24	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2145201	1	10/08/23 16:25	10/13/23 03:36	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2147138	1	10/08/23 07:25	10/08/23 07:25	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2148863	1	10/12/23 15:58	10/14/23 11:35	MAA	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: 10/20/23 18:25

Project Narrative

1/16/24: Revised report to exclude the data for -57. Testing was cancelled by client prior to the initial report being issued.

Sample Delivery Group (SDG) Narrative

pH outside of method requirement.

Lab Sample ID	Project Sample ID	Method
L1662588-03	MW-84	3511/8015
L1662588-06	MW-74	3511/8015
L1662588-62	MW-96	3511/8015

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	6280		200	1	10/08/2023 15:59	WG2146072

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1990		37.9	100	100	10/05/2023 08:44	WG2145066
Fluoride	2.56		0.640	1.50	10	10/04/2023 21:43	WG2145066
Nitrate	1.01		0.480	1.00	10	10/04/2023 21:43	WG2145066
Nitrite	U		0.420	1.00	10	10/04/2023 21:43	WG2145066
Sulfate	2210		59.4	500	100	10/05/2023 08:44	WG2145066

Sample Narrative:

L1662588-01 WG2145066: Dilution due to matrix.

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	10/15/2023 16:26	WG2145199
Barium	0.0121		0.000381	0.00200	1	10/15/2023 16:26	WG2145199
Calcium	608		0.0936	1.00	1	10/15/2023 16:26	WG2145199
Chromium	U		0.00124	0.00200	1	10/15/2023 16:26	WG2145199
Iron	11.6		0.0281	0.100	1	10/15/2023 16:26	WG2145199
Lead	U		0.000849	0.00200	1	10/15/2023 16:26	WG2145199
Manganese	1.28		0.000704	0.00500	1	10/15/2023 16:26	WG2145199
Potassium	3.99		0.108	2.00	1	10/15/2023 16:26	WG2145199
Selenium	0.00569		0.000300	0.00200	1	10/15/2023 16:26	WG2145199
Sodium	1300		1.88	10.0	5	10/16/2023 14:12	WG2145199

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	10/08/2023 03:44	WG2147178
(S) a,a,a-Trifluorotoluene(FID)	*91.1*			*78.0-120*		*10/08/2023 03:44*	WG2147178

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	10/05/2023 21:51	WG2145862
Benzene	U		0.0000941	0.00100	1	10/06/2023 17:35	WG2146458
Bromodichloromethane	U		0.000136	0.00100	1	10/05/2023 21:51	WG2145862
Bromoform	U		0.000129	0.00100	1	10/05/2023 21:51	WG2145862
Bromomethane	U		0.000605	0.00500	1	10/05/2023 21:51	WG2145862
n-Butylbenzene	U		0.000157	0.00100	1	10/05/2023 21:51	WG2145862
sec-Butylbenzene	U		0.000125	0.00100	1	10/05/2023 21:51	WG2145862
Carbon disulfide	U		0.0000962	0.00100	1	10/05/2023 21:51	WG2145862
Carbon tetrachloride	U		0.000128	0.00100	1	10/05/2023 21:51	WG2145862
Chlorobenzene	U		0.000116	0.00100	1	10/05/2023 21:51	WG2145862
Chlorodibromomethane	U		0.000140	0.00100	1	10/05/2023 21:51	WG2145862
Chloroethane	U		0.000192	0.00500	1	10/05/2023 21:51	WG2145862
Chloroform	U		0.000111	0.00500	1	10/05/2023 21:51	WG2145862
Chloromethane	U		0.000960	0.00250	1	10/05/2023 21:51	WG2145862
1,2-Dibromoethane	U		0.000126	0.00100	1	10/05/2023 21:51	WG2145862
1,1-Dichloroethane	U		0.000100	0.00100	1	10/05/2023 21:51	WG2145862

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	10/05/2023 21:51	WG2145862
1,1-Dichloroethene	U		0.000188	0.00100	1	10/05/2023 21:51	WG2145862
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/05/2023 21:51	WG2145862
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/05/2023 21:51	WG2145862
1,2-Dichloropropane	U		0.000149	0.00100	1	10/05/2023 21:51	WG2145862
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	10/05/2023 21:51	WG2145862
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/05/2023 21:51	WG2145862
Ethylbenzene	U		0.000137	0.00100	1	10/05/2023 21:51	WG2145862
Isopropylbenzene	U		0.000105	0.00100	1	10/05/2023 21:51	WG2145862
p-Isopropyltoluene	U		0.000120	0.00100	1	10/05/2023 21:51	WG2145862
2-Butanone (MEK)	U		0.00119	0.0100	1	10/05/2023 21:51	WG2145862
2-Hexanone	U		0.000787	0.0100	1	10/05/2023 21:51	WG2145862
Methylene Chloride	U		0.000430	0.00500	1	10/05/2023 21:51	WG2145862
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/05/2023 21:51	WG2145862
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/05/2023 21:51	WG2145862
Naphthalene	U		0.00100	0.00500	1	10/05/2023 21:51	WG2145862
n-Propylbenzene	U		0.0000993	0.00100	1	10/05/2023 21:51	WG2145862
Styrene	U		0.000118	0.00100	1	10/05/2023 21:51	WG2145862
tert-Butyl alcohol	U		0.00406	0.00500	1	10/05/2023 21:51	WG2145862
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	10/05/2023 21:51	WG2145862
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/05/2023 21:51	WG2145862
Tetrachloroethene	U		0.000300	0.00100	1	10/05/2023 21:51	WG2145862
Toluene	U		0.000278	0.00100	1	10/05/2023 21:51	WG2145862
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/05/2023 21:51	WG2145862
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/05/2023 21:51	WG2145862
Trichloroethene	U	J4	0.000190	0.00100	1	10/05/2023 21:51	WG2145862
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/05/2023 21:51	WG2145862
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/05/2023 21:51	WG2145862
Vinyl chloride	U		0.000234	0.00100	1	10/05/2023 21:51	WG2145862
o-Xylene	U		0.000174	0.00100	1	10/05/2023 21:51	WG2145862
m&p-Xylene	U		0.000430	0.00200	1	10/05/2023 21:51	WG2145862
Xylenes, Total	U		0.000174	0.00300	1	10/05/2023 21:51	WG2145862
(S) Toluene-d8	*108*			*80.0-120*		*10/05/2023 21:51*	WG2145862
(S) Toluene-d8	*106*			*80.0-120*		*10/06/2023 17:35*	WG2146458
(S) 4-Bromofluorobenzene	*118*			*77.0-126*		*10/05/2023 21:51*	WG2145862
(S) 4-Bromofluorobenzene	*82.8*			*77.0-126*		*10/06/2023 17:35*	WG2146458
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*10/05/2023 21:51*	WG2145862
(S) 1,2-Dichloroethane-d4	*128*			*70.0-130*		*10/06/2023 17:35*	WG2146458

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	0.353		0.0247	0.100	1	10/11/2023 18:51	WG2147877
(S) o-Terphenyl	*94.7*			*31.0-160*		*10/11/2023 18:51*	WG2147877

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3980		100	1	10/08/2023 15:59	WG2146072

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	888		3.79	10.0	10	10/04/2023 21:59	WG2145066
Fluoride	4.65		0.640	1.50	10	10/04/2023 21:59	WG2145066
Nitrate	1.59		0.480	1.00	10	10/04/2023 21:59	WG2145066
Nitrite	U		0.420	1.00	10	10/04/2023 21:59	WG2145066
Sulfate	2110		59.4	500	100	10/05/2023 09:00	WG2145066

Sample Narrative:

L1662588-02 WG2145066: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0343		0.000180	0.00200	1	10/15/2023 16:29	WG2145199
Barium	0.0124		0.000381	0.00200	1	10/15/2023 16:29	WG2145199
Calcium	597		0.0936	1.00	1	10/15/2023 16:29	WG2145199
Chromium	U		0.00124	0.00200	1	10/15/2023 16:29	WG2145199
Iron	0.260		0.0281	0.100	1	10/15/2023 16:29	WG2145199
Lead	U		0.000849	0.00200	1	10/15/2023 16:29	WG2145199
Manganese	1.55		0.000704	0.00500	1	10/15/2023 16:29	WG2145199
Potassium	3.60		0.108	2.00	1	10/15/2023 16:29	WG2145199
Selenium	0.00685		0.000300	0.00200	1	10/15/2023 16:29	WG2145199
Sodium	632		0.376	2.00	1	10/15/2023 16:29	WG2145199

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	10/08/2023 04:07	WG2147178
(S) a,a,a-Trifluorotoluene(FID)	*92.1*			*78.0-120*		*10/08/2023 04:07*	WG2147178

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	0.182		0.0247	0.100	1	10/11/2023 19:12	WG2147877
(S) o-Terphenyl	*86.8*			*31.0-160*		*10/11/2023 19:12*	WG2147877

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	7080		200	1	10/09/2023 09:36	WG2146077

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1210		37.9	100	100	10/05/2023 17:50	WG2145093
Fluoride	U		6.40	15.0	100	10/05/2023 17:50	WG2145093
Nitrate	7.89	J Q	4.80	10.0	100	10/05/2023 17:50	WG2145093
Nitrite	U	Q	4.20	10.0	100	10/05/2023 17:50	WG2145093
Sulfate	4100		59.4	500	100	10/05/2023 17:50	WG2145093

Sample Narrative:

L1662588-03 WG2145093: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.157		0.000180	0.00200	1	10/16/2023 14:16	WG2145199
Barium	0.0125		0.000381	0.00200	1	10/16/2023 14:16	WG2145199
Calcium	557		0.0936	1.00	1	10/16/2023 14:16	WG2145199
Chromium	0.00525		0.00124	0.00200	1	10/16/2023 14:16	WG2145199
Iron	9.11		0.0281	0.100	1	10/16/2023 14:16	WG2145199
Lead	U		0.000849	0.00200	1	10/16/2023 14:16	WG2145199
Manganese	2.69		0.000704	0.00500	1	10/16/2023 14:16	WG2145199
Potassium	5.92		0.108	2.00	1	10/16/2023 14:16	WG2145199
Selenium	0.00630		0.000300	0.00200	1	10/16/2023 14:16	WG2145199
Sodium	1280		1.88	10.0	5	10/15/2023 16:32	WG2145199

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	1.05		0.0314	0.100	1	10/08/2023 04:30	WG2147178
(S) a,a,a-Trifluorotoluene(FID)	*92.8*			*78.0-120*		*10/08/2023 04:30*	WG2147178

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	66.8		0.494	2.00	20	10/11/2023 21:12	WG2147877
(S) o-Terphenyl	*0.000*	J7		*31.0-160*		*10/11/2023 21:12*	WG2147877

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	3070		100	1	10/09/2023 09:36	WG2146077

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	1120		3.79	10.0	10	10/04/2023 22:15	WG2145066
Fluoride	1.61		0.640	1.50	10	10/04/2023 22:15	WG2145066
Nitrate	1.08		0.480	1.00	10	10/04/2023 22:15	WG2145066
Nitrite	U		0.420	1.00	10	10/04/2023 22:15	WG2145066
Sulfate	1470		5.94	50.0	10	10/04/2023 22:15	WG2145066

Sample Narrative:

L1662588-04 WG2145066: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00414		0.000180	0.00200	1	10/15/2023 16:36	WG2145199
Barium	0.0244		0.000381	0.00200	1	10/15/2023 16:36	WG2145199
Calcium	391		0.0936	1.00	1	10/15/2023 16:36	WG2145199
Chromium	U		0.00124	0.00200	1	10/15/2023 16:36	WG2145199
Iron	6.51		0.0281	0.100	1	10/15/2023 16:36	WG2145199
Lead	U		0.000849	0.00200	1	10/15/2023 16:36	WG2145199
Manganese	1.28		0.000704	0.00500	1	10/15/2023 16:36	WG2145199
Potassium	3.96		0.108	2.00	1	10/15/2023 16:36	WG2145199
Selenium	U		0.000300	0.00200	1	10/15/2023 16:36	WG2145199
Sodium	708		0.376	2.00	1	10/15/2023 16:36	WG2145199

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	10/08/2023 04:53	WG2147178
(S) a,a,a-Trifluorotoluene(FID)	*93.0*			*78.0-120*		*10/08/2023 04:53*	WG2147178

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	0.0858	J	0.0247	0.100	1	10/13/2023 08:31	WG2147877
(S) o-Terphenyl	*88.9*			*31.0-160*		*10/13/2023 08:31*	WG2147877

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4370		100	1	10/09/2023 09:36	WG2146077

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1600		3.79	10.0	10	10/05/2023 18:02	WG2145093
Fluoride	4.75		0.640	1.50	10	10/05/2023 18:02	WG2145093
Nitrate	3.50	Q	0.480	1.00	10	10/05/2023 18:02	WG2145093
Nitrite	U	Q	0.420	1.00	10	10/05/2023 18:02	WG2145093
Sulfate	1970		5.94	50.0	10	10/05/2023 18:02	WG2145093

Sample Narrative:

L1662588-05 WG2145093: Dilution due to matrix.

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	10/15/2023 16:52	WG2145199
Barium	0.0161		0.000381	0.00200	1	10/15/2023 16:52	WG2145199
Calcium	632		0.0936	1.00	1	10/15/2023 16:52	WG2145199
Chromium	U		0.00124	0.00200	1	10/15/2023 16:52	WG2145199
Iron	0.0935	J	0.0281	0.100	1	10/15/2023 16:52	WG2145199
Lead	U		0.000849	0.00200	1	10/15/2023 16:52	WG2145199
Manganese	0.891		0.000704	0.00500	1	10/15/2023 16:52	WG2145199
Potassium	7.18		0.108	2.00	1	10/15/2023 16:52	WG2145199
Selenium	0.0145		0.000300	0.00200	1	10/15/2023 16:52	WG2145199
Sodium	930		0.376	2.00	1	10/15/2023 16:52	WG2145199

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	10/08/2023 07:39	WG2147178
(S) a,a,a-Trifluorotoluene(FID)	*92.2*			*78.0-120*		*10/08/2023 07:39*	WG2147178

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	0.415		0.0247	0.100	1	10/13/2023 08:51	WG2147877
(S) o-Terphenyl	*94.7*			*31.0-160*		*10/13/2023 08:51*	WG2147877

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	858	Q	20.0	1	10/13/2023 00:00	WG2150228

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1790		3.79	10.0	10	10/05/2023 13:18	WG2145093
Fluoride	6.22		0.640	1.50	10	10/05/2023 13:18	WG2145093
Nitrate	U	Q	0.480	1.00	10	10/05/2023 13:18	WG2145093
Nitrite	U	Q	0.420	1.00	10	10/05/2023 13:18	WG2145093
Sulfate	2550		59.4	500	100	10/05/2023 21:01	WG2145093

Sample Narrative:

L1662588-06 WG2145093: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.115		0.000180	0.00200	1	10/15/2023 16:55	WG2145199
Barium	0.0147		0.000381	0.00200	1	10/15/2023 16:55	WG2145199
Calcium	553		0.0936	1.00	1	10/15/2023 16:55	WG2145199
Chromium	0.00157	J	0.00124	0.00200	1	10/15/2023 16:55	WG2145199
Iron	0.999		0.0281	0.100	1	10/15/2023 16:55	WG2145199
Lead	U		0.000849	0.00200	1	10/15/2023 16:55	WG2145199
Manganese	2.24		0.000704	0.00500	1	10/15/2023 16:55	WG2145199
Potassium	25.3		0.108	2.00	1	10/15/2023 16:55	WG2145199
Selenium	0.00773		0.000300	0.00200	1	10/15/2023 16:55	WG2145199
Sodium	1790		1.88	10.0	5	10/16/2023 14:19	WG2145199

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	2.13		0.314	1.00	10	10/08/2023 09:10	WG2147178
(S) a,a,a-Trifluorotoluene(FID)	*93.2*			*78.0-120*		*10/08/2023 09:10*	WG2147178

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	9.63		0.123	0.500	5	10/12/2023 04:04	WG2147877
(S) o-Terphenyl	*83.7*			*31.0-160*		*10/12/2023 04:04*	WG2147877

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	11100	Q	200	1	10/13/2023 00:00	WG2150228

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	3150		37.9	100	100	10/05/2023 10:03	WG2145066
Fluoride	1.47	J	0.640	1.50	10	10/04/2023 22:31	WG2145066
Nitrate	1.47		0.480	1.00	10	10/04/2023 22:31	WG2145066
Nitrite	U		0.420	1.00	10	10/04/2023 22:31	WG2145066
Sulfate	3160		59.4	500	100	10/05/2023 10:03	WG2145066

Sample Narrative:

L1662588-07 WG2145066: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00772		0.000180	0.00200	1	10/15/2023 16:59	WG2145199
Barium	0.0347		0.000381	0.00200	1	10/15/2023 16:59	WG2145199
Calcium	577		0.0936	1.00	1	10/15/2023 16:59	WG2145199
Chromium	0.280		0.00124	0.00200	1	10/15/2023 16:59	WG2145199
Iron	1.81		0.0281	0.100	1	10/15/2023 16:59	WG2145199
Lead	0.00100	J	0.000849	0.00200	1	10/15/2023 16:59	WG2145199
Manganese	2.17		0.000704	0.00500	1	10/15/2023 16:59	WG2145199
Potassium	5.14		0.108	2.00	1	10/15/2023 16:59	WG2145199
Selenium	0.00275		0.000300	0.00200	1	10/15/2023 16:59	WG2145199
Sodium	2120		1.88	10.0	5	10/16/2023 14:22	WG2145199

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	10/08/2023 08:02	WG2147178
(S) a,a,a-Trifluorotoluene(FID)	*91.9*			*78.0-120*		*10/08/2023 08:02*	WG2147178

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	0.112	B	0.0247	0.100	1	10/11/2023 14:09	WG2148096
(S) o-Terphenyl	*74.2*			*31.0-160*		*10/11/2023 14:09*	WG2148096

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	8660	J3	200	1	10/09/2023 09:36	WG2146077

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	4620		37.9	100	100	10/05/2023 05:39	WG2145090
Fluoride	2.26		0.640	1.50	10	10/05/2023 01:15	WG2145090
Nitrate	U		0.480	1.00	10	10/05/2023 01:15	WG2145090
Nitrite	U		0.420	1.00	10	10/05/2023 01:15	WG2145090
Sulfate	2670		59.4	500	100	10/05/2023 05:39	WG2145090

Sample Narrative:

L1662588-08 WG2145090: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00978		0.000180	0.00200	1	10/15/2023 17:02	WG2145199
Barium	0.0268		0.000381	0.00200	1	10/15/2023 17:02	WG2145199
Calcium	894		0.0936	1.00	1	10/15/2023 17:02	WG2145199
Chromium	U		0.00124	0.00200	1	10/15/2023 17:02	WG2145199
Iron	6.44		0.0281	0.100	1	10/15/2023 17:02	WG2145199
Lead	U		0.000849	0.00200	1	10/15/2023 17:02	WG2145199
Manganese	2.39		0.000704	0.00500	1	10/15/2023 17:02	WG2145199
Potassium	15.0		0.108	2.00	1	10/15/2023 17:02	WG2145199
Selenium	0.000737	J	0.000300	0.00200	1	10/15/2023 17:02	WG2145199
Sodium	2600		1.88	10.0	5	10/16/2023 14:25	WG2145199

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	0.350		0.0314	0.100	1	10/08/2023 08:25	WG2147178
(S) a,a,a-Trifluorotoluene(FID)	*92.0*			*78.0-120*		*10/08/2023 08:25*	WG2147178

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	0.788		0.0247	0.100	1	10/11/2023 14:49	WG2148096
(S) o-Terphenyl	*88.4*			*31.0-160*		*10/11/2023 14:49*	WG2148096

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	9240		200	1	10/09/2023 09:36	WG2146077

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	2370		37.9	100	100	10/05/2023 19:19	WG2145093
Fluoride	2.21		0.640	1.50	10	10/05/2023 11:11	WG2145093
Nitrate	U		0.480	1.00	10	10/05/2023 11:11	WG2145093
Nitrite	U		0.420	1.00	10	10/05/2023 11:11	WG2145093
Sulfate	3220		59.4	500	100	10/05/2023 19:19	WG2145093

Sample Narrative:

L1662588-09 WG2145093: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.103		0.000180	0.00200	1	10/15/2023 16:13	WG2145199
Barium	0.0152		0.000381	0.00200	1	10/15/2023 16:13	WG2145199
Calcium	627	V	0.0936	1.00	1	10/15/2023 16:13	WG2145199
Chromium	U		0.00124	0.00200	1	10/15/2023 16:13	WG2145199
Iron	11.2		0.0281	0.100	1	10/15/2023 16:13	WG2145199
Lead	U		0.000849	0.00200	1	10/15/2023 16:13	WG2145199
Manganese	2.86	V	0.000704	0.00500	1	10/15/2023 16:13	WG2145199
Potassium	6.30		0.108	2.00	1	10/15/2023 16:13	WG2145199
Selenium	0.00120	J	0.000300	0.00200	1	10/15/2023 16:13	WG2145199
Sodium	2380		1.88	10.0	5	10/16/2023 14:09	WG2145199

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	1.56	J	0.628	2.00	20	10/12/2023 19:32	WG2150199
(S) a,a,a-Trifluorotoluene(FID)	*106*			*78.0-120*		*10/12/2023 19:32*	WG2150199

Sample Narrative:

L1662588-09 WG2150199: 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	3.08		0.0247	0.100	1	10/11/2023 15:09	WG2148096
(S) o-Terphenyl	*81.6*			*31.0-160*		*10/11/2023 15:09*	WG2148096

EB-LT-01
Collected date/time: 10/03/23 13:20
L1662588

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	10/09/2023 09:36	WG2146077

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1.84		0.379	1.00	1	10/05/2023 16:21	WG2145093
Fluoride	U		0.0640	0.150	1	10/05/2023 16:21	WG2145093
Nitrate	0.138	Q	0.0480	0.100	1	10/05/2023 16:21	WG2145093
Nitrite	U	Q	0.0420	0.100	1	10/05/2023 16:21	WG2145093
Sulfate	0.699	J	0.594	5.00	1	10/05/2023 16:21	WG2145093

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	10/15/2023 17:05	WG2145199
Barium	0.000527	J	0.000381	0.00200	1	10/15/2023 17:05	WG2145199
Calcium	0.320	J	0.0936	1.00	1	10/15/2023 17:05	WG2145199
Chromium	U		0.00124	0.00200	1	10/15/2023 17:05	WG2145199
Iron	U		0.0281	0.100	1	10/15/2023 17:05	WG2145199
Lead	U		0.000849	0.00200	1	10/15/2023 17:05	WG2145199
Manganese	0.000940	J	0.000704	0.00500	1	10/15/2023 17:05	WG2145199
Potassium	U		0.108	2.00	1	10/15/2023 17:05	WG2145199
Selenium	U		0.000300	0.00200	1	10/15/2023 17:05	WG2145199
Sodium	2.16		0.376	2.00	1	10/15/2023 17:05	WG2145199

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	10/08/2023 02:13	WG2147178
(S) a,a,a-Trifluorotoluene(FID)	*92.5*			*78.0-120*		*10/08/2023 02:13*	WG2147178

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	0.0684	B J	0.0247	0.100	1	10/11/2023 15:28	WG2148096
(S) o-Terphenyl	*82.1*			*31.0-160*		*10/11/2023 15:28*	WG2148096

LB-LT-04
Collected date/time: 10/03/23 14:20
L1662588

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	10/09/2023 09:36	WG2146077

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	10/05/2023 18:28	WG2145093
Fluoride	U		0.0640	0.150	1	10/05/2023 18:28	WG2145093
Nitrate	0.0493	J Q	0.0480	0.100	1	10/05/2023 18:28	WG2145093
Nitrite	U	Q	0.0420	0.100	1	10/05/2023 18:28	WG2145093
Sulfate	U		0.594	5.00	1	10/05/2023 18:28	WG2145093

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	10/15/2023 17:09	WG2145199
Barium	U		0.000381	0.00200	1	10/15/2023 17:09	WG2145199
Calcium	U		0.0936	1.00	1	10/15/2023 17:09	WG2145199
Chromium	U		0.00124	0.00200	1	10/15/2023 17:09	WG2145199
Iron	U		0.0281	0.100	1	10/15/2023 17:09	WG2145199
Lead	U		0.000849	0.00200	1	10/15/2023 17:09	WG2145199
Manganese	U		0.000704	0.00500	1	10/15/2023 17:09	WG2145199
Potassium	U		0.108	2.00	1	10/15/2023 17:09	WG2145199
Selenium	U		0.000300	0.00200	1	10/15/2023 17:09	WG2145199
Sodium	0.588	J	0.376	2.00	1	10/15/2023 17:09	WG2145199

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	10/08/2023 02:36	WG2147178
(S) a,a,a-Trifluorotoluene(FID)	*92.1*			*78.0-120*		*10/08/2023 02:36*	WG2147178

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	0.0309	B J	0.0247	0.100	1	10/11/2023 15:48	WG2148096
(S) o-Terphenyl	*79.5*			*31.0-160*		*10/11/2023 15:48*	WG2148096

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	10/05/2023 20:26	WG2145862
Benzene	U		0.0000941	0.00100	1	10/05/2023 20:26	WG2145862
Bromodichloromethane	U		0.000136	0.00100	1	10/05/2023 20:26	WG2145862
Bromoform	U		0.000129	0.00100	1	10/05/2023 20:26	WG2145862
Bromomethane	U		0.000605	0.00500	1	10/05/2023 20:26	WG2145862
n-Butylbenzene	U		0.000157	0.00100	1	10/05/2023 20:26	WG2145862
sec-Butylbenzene	U		0.000125	0.00100	1	10/05/2023 20:26	WG2145862
Carbon disulfide	U		0.0000962	0.00100	1	10/05/2023 20:26	WG2145862
Carbon tetrachloride	U		0.000128	0.00100	1	10/05/2023 20:26	WG2145862
Chlorobenzene	U		0.000116	0.00100	1	10/05/2023 20:26	WG2145862
Chlorodibromomethane	U		0.000140	0.00100	1	10/05/2023 20:26	WG2145862
Chloroethane	U		0.000192	0.00500	1	10/05/2023 20:26	WG2145862
Chloroform	U		0.000111	0.00500	1	10/05/2023 20:26	WG2145862
Chloromethane	U		0.000960	0.00250	1	10/05/2023 20:26	WG2145862
1,2-Dibromoethane	U		0.000126	0.00100	1	10/05/2023 20:26	WG2145862
1,1-Dichloroethane	U		0.000100	0.00100	1	10/05/2023 20:26	WG2145862
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/05/2023 20:26	WG2145862
1,1-Dichloroethene	U		0.000188	0.00100	1	10/05/2023 20:26	WG2145862
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/05/2023 20:26	WG2145862
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/05/2023 20:26	WG2145862
1,2-Dichloropropane	U		0.000149	0.00100	1	10/05/2023 20:26	WG2145862
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	10/05/2023 20:26	WG2145862
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/05/2023 20:26	WG2145862
Ethylbenzene	U		0.000137	0.00100	1	10/05/2023 20:26	WG2145862
Isopropylbenzene	U		0.000105	0.00100	1	10/05/2023 20:26	WG2145862
p-Isopropyltoluene	U		0.000120	0.00100	1	10/05/2023 20:26	WG2145862
2-Butanone (MEK)	U		0.00119	0.0100	1	10/05/2023 20:26	WG2145862
2-Hexanone	U		0.000787	0.0100	1	10/05/2023 20:26	WG2145862
Methylene Chloride	U		0.000430	0.00500	1	10/05/2023 20:26	WG2145862
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/05/2023 20:26	WG2145862
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/05/2023 20:26	WG2145862
Naphthalene	U		0.00100	0.00500	1	10/05/2023 20:26	WG2145862
n-Propylbenzene	U		0.0000993	0.00100	1	10/05/2023 20:26	WG2145862
Styrene	U		0.000118	0.00100	1	10/05/2023 20:26	WG2145862
tert-Butyl alcohol	U		0.00406	0.00500	1	10/05/2023 20:26	WG2145862
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	10/05/2023 20:26	WG2145862
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/05/2023 20:26	WG2145862
Tetrachloroethene	U		0.000300	0.00100	1	10/05/2023 20:26	WG2145862
Toluene	U		0.000278	0.00100	1	10/05/2023 20:26	WG2145862
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/05/2023 20:26	WG2145862
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/05/2023 20:26	WG2145862
Trichloroethene	U	J4	0.000190	0.00100	1	10/05/2023 20:26	WG2145862
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/05/2023 20:26	WG2145862
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/05/2023 20:26	WG2145862
Vinyl chloride	U		0.000234	0.00100	1	10/05/2023 20:26	WG2145862
o-Xylene	U		0.000174	0.00100	1	10/05/2023 20:26	WG2145862
m&p-Xylene	U		0.000430	0.00200	1	10/05/2023 20:26	WG2145862
Xylenes, Total	U		0.000174	0.00300	1	10/05/2023 20:26	WG2145862
(S) Toluene-d8	*108*			*80.0-120*		*10/05/2023 20:26*	WG2145862
(S) 4-Bromofluorobenzene	*118*			*77.0-126*		*10/05/2023 20:26*	WG2145862
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*10/05/2023 20:26*	WG2145862

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3900		100	1	10/09/2023 09:36	WG2146077

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1170		3.79	10.0	10	10/04/2023 22:46	WG2145066
Fluoride	2.74		0.640	1.50	10	10/04/2023 22:46	WG2145066
Nitrate	1.43		0.480	1.00	10	10/04/2023 22:46	WG2145066
Nitrite	U		0.420	1.00	10	10/04/2023 22:46	WG2145066
Sulfate	1710		5.94	50.0	10	10/04/2023 22:46	WG2145066

Sample Narrative:

L1662588-13 WG2145066: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0226		0.000180	0.00200	1	10/15/2023 17:12	WG2145199
Barium	0.0149		0.000381	0.00200	1	10/15/2023 17:12	WG2145199
Calcium	423		0.0936	1.00	1	10/15/2023 17:12	WG2145199
Chromium	0.00126	J	0.00124	0.00200	1	10/15/2023 17:12	WG2145199
Iron	2.71		0.0281	0.100	1	10/15/2023 17:12	WG2145199
Lead	U		0.000849	0.00200	1	10/15/2023 17:12	WG2145199
Manganese	0.754		0.000704	0.00500	1	10/15/2023 17:12	WG2145199
Potassium	24.8		0.108	2.00	1	10/15/2023 17:12	WG2145199
Selenium	0.00144	J	0.000300	0.00200	1	10/15/2023 17:12	WG2145199
Sodium	836		0.376	2.00	1	10/15/2023 17:12	WG2145199

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	0.663		0.0314	0.100	1	10/08/2023 08:48	WG2147178
(S) a,a,a-Trifluorotoluene(FID)	*93.1*			*78.0-120*		*10/08/2023 08:48*	WG2147178

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	8.79		0.0247	0.100	1	10/11/2023 16:08	WG2148096
(S) o-Terphenyl	*89.5*			*31.0-160*		*10/11/2023 16:08*	WG2148096

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	10/09/2023 09:36	WG2146077

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1390		3.79	10.0	10	10/04/2023 23:02	WG2145066
Fluoride	6.99		0.640	1.50	10	10/04/2023 23:02	WG2145066
Nitrate	1.56		0.480	1.00	10	10/04/2023 23:02	WG2145066
Nitrite	U		0.420	1.00	10	10/04/2023 23:02	WG2145066
Sulfate	1830		5.94	50.0	10	10/04/2023 23:02	WG2145066

Sample Narrative:

L1662588-14 WG2145066: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.298		0.000180	0.00200	1	10/15/2023 17:15	WG2145199
Barium	0.0146		0.000381	0.00200	1	10/15/2023 17:15	WG2145199
Calcium	372		0.0936	1.00	1	10/15/2023 17:15	WG2145199
Chromium	0.00181	J	0.00124	0.00200	1	10/15/2023 17:15	WG2145199
Iron	5.04		0.0281	0.100	1	10/15/2023 17:15	WG2145199
Lead	U		0.000849	0.00200	1	10/15/2023 17:15	WG2145199
Manganese	1.07		0.000704	0.00500	1	10/15/2023 17:15	WG2145199
Potassium	18.4		0.108	2.00	1	10/15/2023 17:15	WG2145199
Selenium	0.00236		0.000300	0.00200	1	10/15/2023 17:15	WG2145199
Sodium	1260		1.88	10.0	5	10/16/2023 14:29	WG2145199

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	3.31		0.314	1.00	10	10/09/2023 04:24	WG2147502
(S) a,a,a-Trifluorotoluene(FID)	*109*			*78.0-120*		*10/09/2023 04:24*	WG2147502

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	13.7		0.123	0.500	5	10/11/2023 19:45	WG2148096
(S) o-Terphenyl	*71.6*			*31.0-160*		*10/11/2023 19:45*	WG2148096

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4680		100	1	10/09/2023 09:36	WG2146077

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	578		3.79	10.0	10	10/04/2023 23:18	WG2145066
Fluoride	5.80		0.640	1.50	10	10/04/2023 23:18	WG2145066
Nitrate	1.59		0.480	1.00	10	10/04/2023 23:18	WG2145066
Nitrite	U		0.420	1.00	10	10/04/2023 23:18	WG2145066
Sulfate	3240		59.4	500	100	10/05/2023 10:51	WG2145066

Sample Narrative:

L1662588-15 WG2145066: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0466		0.000180	0.00200	1	10/15/2023 17:18	WG2145199
Barium	0.0208		0.000381	0.00200	1	10/15/2023 17:18	WG2145199
Calcium	446		0.0936	1.00	1	10/15/2023 17:18	WG2145199
Chromium	0.00443		0.00124	0.00200	1	10/15/2023 17:18	WG2145199
Iron	4.25		0.0281	0.100	1	10/15/2023 17:18	WG2145199
Lead	U		0.000849	0.00200	1	10/15/2023 17:18	WG2145199
Manganese	0.516		0.000704	0.00500	1	10/15/2023 17:18	WG2145199
Potassium	43.2		0.108	2.00	1	10/15/2023 17:18	WG2145199
Selenium	0.00924		0.000300	0.00200	1	10/15/2023 17:18	WG2145199
Sodium	476		0.376	2.00	1	10/15/2023 17:18	WG2145199

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	0.447		0.0314	0.100	1	10/08/2023 22:19	WG2147502
(S) a,a,a-Trifluorotoluene(FID)	*108*			*78.0-120*		*10/08/2023 22:19*	WG2147502

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	12.9		0.247	1.00	10	10/11/2023 20:05	WG2148096
(S) o-Terphenyl	*80.5*			*31.0-160*		*10/11/2023 20:05*	WG2148096

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4660		100	1	10/09/2023 09:36	WG2146077

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1770		3.79	10.0	10	10/05/2023 01:27	WG2145090
Fluoride	2.06		0.640	1.50	10	10/05/2023 01:27	WG2145090
Nitrate	U		0.480	1.00	10	10/05/2023 01:27	WG2145090
Nitrite	U		0.420	1.00	10	10/05/2023 01:27	WG2145090
Sulfate	2220		59.4	500	100	10/05/2023 06:17	WG2145090

Sample Narrative:

L1662588-16 WG2145090: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0378		0.000180	0.00200	1	10/15/2023 17:22	WG2145199
Barium	0.0157		0.000381	0.00200	1	10/15/2023 17:22	WG2145199
Calcium	667		0.0936	1.00	1	10/15/2023 17:22	WG2145199
Chromium	0.00318		0.00124	0.00200	1	10/15/2023 17:22	WG2145199
Iron	0.291		0.0281	0.100	1	10/15/2023 17:22	WG2145199
Lead	U		0.000849	0.00200	1	10/15/2023 17:22	WG2145199
Manganese	1.47		0.000704	0.00500	1	10/15/2023 17:22	WG2145199
Potassium	7.04		0.108	2.00	1	10/15/2023 17:22	WG2145199
Selenium	0.00902		0.000300	0.00200	1	10/15/2023 17:22	WG2145199
Sodium	1030		1.88	10.0	5	10/16/2023 14:32	WG2145199

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	0.302		0.0314	0.100	1	10/08/2023 22:41	WG2147502
(S) a,a,a-Trifluorotoluene(FID)	*108*			*78.0-120*		*10/08/2023 22:41*	WG2147502

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	6.85		0.0247	0.100	1	10/13/2023 03:11	WG2148862
(S) o-Terphenyl	*58.4*			*31.0-160*		*10/13/2023 03:11*	WG2148862

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3840		100	1	10/09/2023 09:36	WG2146077

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1240		3.79	10.0	10	10/05/2023 12:14	WG2145093
Fluoride	2.08		0.640	1.50	10	10/05/2023 12:14	WG2145093
Nitrate	U		0.480	1.00	10	10/05/2023 12:14	WG2145093
Nitrite	U		0.420	1.00	10	10/05/2023 12:14	WG2145093
Sulfate	1620		5.94	50.0	10	10/05/2023 12:14	WG2145093

Sample Narrative:

L1662588-17 WG2145093: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.100		0.000180	0.00200	1	10/15/2023 17:38	WG2145199
Barium	0.0131		0.000381	0.00200	1	10/15/2023 17:38	WG2145199
Calcium	397		0.0936	1.00	1	10/15/2023 17:38	WG2145199
Chromium	U		0.00124	0.00200	1	10/15/2023 17:38	WG2145199
Iron	1.60		0.0281	0.100	1	10/15/2023 17:38	WG2145199
Lead	U		0.000849	0.00200	1	10/15/2023 17:38	WG2145199
Manganese	1.80		0.000704	0.00500	1	10/15/2023 17:38	WG2145199
Potassium	5.58		0.108	2.00	1	10/15/2023 17:38	WG2145199
Selenium	0.000616	J	0.000300	0.00200	1	10/15/2023 17:38	WG2145199
Sodium	898		0.376	2.00	1	10/15/2023 17:38	WG2145199

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	0.726	J	0.314	1.00	10	10/09/2023 04:47	WG2147502
(S) a,a,a-Trifluorotoluene(FID)	*109*			*78.0-120*		*10/09/2023 04:47*	WG2147502

Sample Narrative:

L1662588-17 WG2147502: 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	5.80		0.0247	0.100	1	10/13/2023 03:37	WG2148862
(S) o-Terphenyl	*59.5*			*31.0-160*		*10/13/2023 03:37*	WG2148862

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	9640	Q	200	1	10/13/2023 00:00	WG2150228

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	2140		37.9	100	100	10/05/2023 06:30	WG2145090
Fluoride	4.11		0.640	1.50	10	10/05/2023 01:40	WG2145090
Nitrate	U		0.480	1.00	10	10/05/2023 01:40	WG2145090
Nitrite	U		0.420	1.00	10	10/05/2023 01:40	WG2145090
Sulfate	3940		59.4	500	100	10/05/2023 06:30	WG2145090

Sample Narrative:

L1662588-18 WG2145090: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.212		0.000180	0.00200	1	10/15/2023 17:42	WG2145199
Barium	0.0162		0.000381	0.00200	1	10/15/2023 17:42	WG2145199
Calcium	387		0.0936	1.00	1	10/15/2023 17:42	WG2145199
Chromium	U		0.00124	0.00200	1	10/15/2023 17:42	WG2145199
Iron	6.43		0.0281	0.100	1	10/15/2023 17:42	WG2145199
Lead	U		0.000849	0.00200	1	10/15/2023 17:42	WG2145199
Manganese	0.855		0.000704	0.00500	1	10/15/2023 17:42	WG2145199
Potassium	9.29		0.108	2.00	1	10/15/2023 17:42	WG2145199
Selenium	0.000984	J	0.000300	0.00200	1	10/15/2023 17:42	WG2145199
Sodium	2010		1.88	10.0	5	10/16/2023 15:01	WG2145199

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	1.34		0.0314	0.100	1	10/08/2023 23:04	WG2147502
(S) a,a,a-Trifluorotoluene(FID)	*109*			*78.0-120*		*10/08/2023 23:04*	WG2147502

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	5.28		0.0247	0.100	1	10/13/2023 04:02	WG2148862
(S) o-Terphenyl	*55.8*			*31.0-160*		*10/13/2023 04:02*	WG2148862

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	5640		100	1	10/09/2023 09:36	WG2146077

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1760		3.79	10.0	10	10/04/2023 23:34	WG2145066
Fluoride	1.94		0.640	1.50	10	10/04/2023 23:34	WG2145066
Nitrate	1.45		0.480	1.00	10	10/04/2023 23:34	WG2145066
Nitrite	U		0.420	1.00	10	10/04/2023 23:34	WG2145066
Sulfate	2100		59.4	500	100	10/05/2023 11:07	WG2145066

Sample Narrative:

L1662588-19 WG2145066: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0360		0.000180	0.00200	1	10/15/2023 17:45	WG2145199
Barium	0.0154		0.000381	0.00200	1	10/15/2023 17:45	WG2145199
Calcium	647		0.0936	1.00	1	10/15/2023 17:45	WG2145199
Chromium	0.00284		0.00124	0.00200	1	10/15/2023 17:45	WG2145199
Iron	0.236		0.0281	0.100	1	10/15/2023 17:45	WG2145199
Lead	U		0.000849	0.00200	1	10/15/2023 17:45	WG2145199
Manganese	1.44		0.000704	0.00500	1	10/15/2023 17:45	WG2145199
Potassium	6.96		0.108	2.00	1	10/15/2023 17:45	WG2145199
Selenium	0.00878		0.000300	0.00200	1	10/15/2023 17:45	WG2145199
Sodium	1070		1.88	10.0	5	10/16/2023 15:04	WG2145199

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	0.401		0.0314	0.100	1	10/08/2023 23:26	WG2147502
(S) a,a,a-Trifluorotoluene(FID)	*107*			*78.0-120*		*10/08/2023 23:26*	WG2147502

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	7.24		0.0247	0.100	1	10/13/2023 04:28	WG2148862
(S) o-Terphenyl	*59.5*			*31.0-160*		*10/13/2023 04:28*	WG2148862

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	ND	Q	10.0	1	10/13/2023 00:00	WG2150228

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	0.536	J	0.379	1.00	1	10/05/2023 11:23	WG2145093
Fluoride	U		0.0640	0.150	1	10/05/2023 11:23	WG2145093
Nitrate	U	P1	0.0480	0.100	1	10/05/2023 11:23	WG2145093
Nitrite	U		0.0420	0.100	1	10/05/2023 11:23	WG2145093
Sulfate	U		0.594	5.00	1	10/05/2023 11:23	WG2145093

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	10/15/2023 17:48	WG2145199
Barium	U		0.000381	0.00200	1	10/15/2023 17:48	WG2145199
Calcium	0.105	J	0.0936	1.00	1	10/15/2023 17:48	WG2145199
Chromium	U		0.00124	0.00200	1	10/15/2023 17:48	WG2145199
Iron	U		0.0281	0.100	1	10/15/2023 17:48	WG2145199
Lead	U		0.000849	0.00200	1	10/15/2023 17:48	WG2145199
Manganese	U		0.000704	0.00500	1	10/15/2023 17:48	WG2145199
Potassium	U		0.108	2.00	1	10/15/2023 17:48	WG2145199
Selenium	U		0.000300	0.00200	1	10/15/2023 17:48	WG2145199
Sodium	0.756	J	0.376	2.00	1	10/15/2023 17:48	WG2145199

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	10/08/2023 21:33	WG2147502
(S) a,a,a-Trifluorotoluene(FID)	*109*			*78.0-120*		*10/08/2023 21:33*	WG2147502

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	10/13/2023 04:54	WG2148862
(S) o-Terphenyl	*58.4*			*31.0-160*		*10/13/2023 04:54*	WG2148862

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	5170		100	1	10/09/2023 09:36	WG2146077

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1840		3.79	10.0	10	10/05/2023 11:36	WG2145093
Fluoride	1.90		0.640	1.50	10	10/05/2023 11:36	WG2145093
Nitrate	U		0.480	1.00	10	10/05/2023 11:36	WG2145093
Nitrite	U		0.420	1.00	10	10/05/2023 11:36	WG2145093
Sulfate	2600		59.4	500	100	10/05/2023 19:32	WG2145093

Sample Narrative:

L1662588-21 WG2145093: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0249		0.000180	0.00200	1	10/15/2023 17:51	WG2145199
Barium	0.0306		0.000381	0.00200	1	10/15/2023 17:51	WG2145199
Calcium	710		0.0936	1.00	1	10/15/2023 17:51	WG2145199
Chromium	U		0.00124	0.00200	1	10/15/2023 17:51	WG2145199
Iron	9.76		0.0281	0.100	1	10/15/2023 17:51	WG2145199
Lead	U		0.000849	0.00200	1	10/15/2023 17:51	WG2145199
Manganese	3.16		0.000704	0.00500	1	10/15/2023 17:51	WG2145199
Potassium	4.17		0.108	2.00	1	10/15/2023 17:51	WG2145199
Selenium	U		0.000300	0.00200	1	10/15/2023 17:51	WG2145199
Sodium	1240		1.88	10.0	5	10/16/2023 15:08	WG2145199

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	0.0441	J	0.0314	0.100	1	10/08/2023 23:48	WG2147502
(S) a,a,a-Trifluorotoluene(FID)	*110*			*78.0-120*		*10/08/2023 23:48*	WG2147502

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	10/13/2023 05:19	WG2148862
(S) o-Terphenyl	*56.8*			*31.0-160*		*10/13/2023 05:19*	WG2148862

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00252		0.000180	0.00200	1	10/17/2023 16:28	WG2145200
Barium	0.0267		0.000381	0.00200	1	10/17/2023 16:28	WG2145200
Chromium	U		0.00124	0.00200	1	10/17/2023 16:28	WG2145200
Iron	5.26		0.0281	0.100	1	10/17/2023 16:28	WG2145200
Lead	U		0.000849	0.00200	1	10/17/2023 16:28	WG2145200
Manganese	1.42		0.000704	0.00500	1	10/17/2023 16:28	WG2145200
Selenium	0.000428	J	0.000300	0.00200	1	10/17/2023 16:28	WG2145200

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	10/09/2023 00:10	WG2147502
(S) a,a,a-Trifluorotoluene(FID)	*109*			*78.0-120*		*10/09/2023 00:10*	WG2147502

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	10/13/2023 05:45	WG2148862
(S) o-Terphenyl	*53.2*			*31.0-160*		*10/13/2023 05:45*	WG2148862

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00162	J	0.000180	0.00200	1	10/17/2023 16:32	WG2145200
Barium	0.0248		0.000381	0.00200	1	10/17/2023 16:32	WG2145200
Chromium	0.656		0.00124	0.00200	1	10/17/2023 16:32	WG2145200
Iron	3.29		0.0281	0.100	1	10/17/2023 16:32	WG2145200
Lead	U		0.000849	0.00200	1	10/17/2023 16:32	WG2145200
Manganese	0.968		0.000704	0.00500	1	10/17/2023 16:32	WG2145200
Selenium	U		0.000300	0.00200	1	10/17/2023 16:32	WG2145200

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	10/09/2023 00:33	WG2147502
(S) a,a,a-Trifluorotoluene(FID)	*109*			*78.0-120*		*10/09/2023 00:33*	WG2147502

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	10/13/2023 06:11	WG2148862
(S) o-Terphenyl	*53.2*			*31.0-160*		*10/13/2023 06:11*	WG2148862

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00659		0.000180	0.00200	1	10/17/2023 16:35	WG2145200
Barium	0.0244		0.000381	0.00200	1	10/17/2023 16:35	WG2145200
Chromium	U		0.00124	0.00200	1	10/17/2023 16:35	WG2145200
Iron	6.16		0.0281	0.100	1	10/17/2023 16:35	WG2145200
Lead	U		0.000849	0.00200	1	10/17/2023 16:35	WG2145200
Manganese	0.453		0.000704	0.00500	1	10/17/2023 16:35	WG2145200
Selenium	U		0.000300	0.00200	1	10/17/2023 16:35	WG2145200

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	10/09/2023 00:55	WG2147502
(S) a,a,a-Trifluorotoluene(FID)	*109*			*78.0-120*		*10/09/2023 00:55*	WG2147502

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	10/13/2023 06:36	WG2148862
(S) o-Terphenyl	*51.8*			*31.0-160*		*10/13/2023 06:36*	WG2148862

MW-11A
Collected date/time: 10/03/23 10:50
L1662588

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	15300		400	1	10/09/2023 09:36	WG2146077

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	7150		37.9	100	100	10/05/2023 11:23	WG2145066
Fluoride	0.868	J	0.640	1.50	10	10/04/2023 23:50	WG2145066
Nitrate	1.39		0.480	1.00	10	10/04/2023 23:50	WG2145066
Nitrite	U		0.420	1.00	10	10/04/2023 23:50	WG2145066
Sulfate	2870		59.4	500	100	10/05/2023 11:23	WG2145066

Sample Narrative:

L1662588-25 WG2145066: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Calcium	985		0.0936	1.00	1	10/17/2023 16:48	WG2145200
Potassium	18.5		0.108	2.00	1	10/17/2023 16:48	WG2145200
Sodium	4070		3.76	20.0	10	10/18/2023 12:09	WG2145200

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	10200		200	1	10/09/2023 09:36	WG2146077

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	4560		37.9	100	100	10/05/2023 11:39	WG2145066
Fluoride	U		0.640	1.50	10	10/05/2023 00:06	WG2145066
Nitrate	1.10		0.480	1.00	10	10/05/2023 00:06	WG2145066
Nitrite	U		0.420	1.00	10	10/05/2023 00:06	WG2145066
Sulfate	2730		59.4	500	100	10/05/2023 11:39	WG2145066

Sample Narrative:

L1662588-26 WG2145066: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0253		0.000180	0.00200	1	10/17/2023 16:51	WG2145200
Barium	0.0284		0.000381	0.00200	1	10/17/2023 16:51	WG2145200
Calcium	833		0.0936	1.00	1	10/17/2023 16:51	WG2145200
Chromium	U		0.00124	0.00200	1	10/17/2023 16:51	WG2145200
Iron	27.7		0.0281	0.100	1	10/17/2023 16:51	WG2145200
Lead	U		0.000849	0.00200	1	10/17/2023 16:51	WG2145200
Manganese	0.392		0.000704	0.00500	1	10/17/2023 16:51	WG2145200
Potassium	32.6		0.108	2.00	1	10/17/2023 16:51	WG2145200
Selenium	U		0.000300	0.00200	1	10/17/2023 16:51	WG2145200
Sodium	2690		3.76	20.0	10	10/18/2023 12:12	WG2145200

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	0.535		0.0314	0.100	1	10/09/2023 01:18	WG2147502
(S) a,a,a-Trifluorotoluene(FID)	*108*			*78.0-120*		*10/09/2023 01:18*	WG2147502

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	0.625		0.0247	0.100	1	10/13/2023 21:31	WG2148862
(S) o-Terphenyl	*72.1*			*31.0-160*		*10/13/2023 21:31*	WG2148862

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	10/05/2023 20:47	WG2145862
Benzene	U		0.0000941	0.00100	1	10/05/2023 20:47	WG2145862
Bromodichloromethane	U		0.000136	0.00100	1	10/05/2023 20:47	WG2145862
Bromoform	U		0.000129	0.00100	1	10/05/2023 20:47	WG2145862
Bromomethane	U		0.000605	0.00500	1	10/05/2023 20:47	WG2145862
n-Butylbenzene	U		0.000157	0.00100	1	10/05/2023 20:47	WG2145862
sec-Butylbenzene	U		0.000125	0.00100	1	10/05/2023 20:47	WG2145862
Carbon disulfide	U		0.0000962	0.00100	1	10/05/2023 20:47	WG2145862
Carbon tetrachloride	U		0.000128	0.00100	1	10/05/2023 20:47	WG2145862
Chlorobenzene	U		0.000116	0.00100	1	10/05/2023 20:47	WG2145862
Chlorodibromomethane	U		0.000140	0.00100	1	10/05/2023 20:47	WG2145862
Chloroethane	U		0.000192	0.00500	1	10/05/2023 20:47	WG2145862
Chloroform	U		0.000111	0.00500	1	10/05/2023 20:47	WG2145862
Chloromethane	U		0.000960	0.00250	1	10/05/2023 20:47	WG2145862
1,2-Dibromoethane	U		0.000126	0.00100	1	10/05/2023 20:47	WG2145862
1,1-Dichloroethane	U		0.000100	0.00100	1	10/05/2023 20:47	WG2145862
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/05/2023 20:47	WG2145862
1,1-Dichloroethene	U		0.000188	0.00100	1	10/05/2023 20:47	WG2145862
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/05/2023 20:47	WG2145862
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/05/2023 20:47	WG2145862
1,2-Dichloropropane	U		0.000149	0.00100	1	10/05/2023 20:47	WG2145862
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	10/05/2023 20:47	WG2145862
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/05/2023 20:47	WG2145862
Ethylbenzene	U		0.000137	0.00100	1	10/05/2023 20:47	WG2145862
Isopropylbenzene	U		0.000105	0.00100	1	10/05/2023 20:47	WG2145862
p-Isopropyltoluene	U		0.000120	0.00100	1	10/05/2023 20:47	WG2145862
2-Butanone (MEK)	U		0.00119	0.0100	1	10/05/2023 20:47	WG2145862
2-Hexanone	U		0.000787	0.0100	1	10/05/2023 20:47	WG2145862
Methylene Chloride	U		0.000430	0.00500	1	10/05/2023 20:47	WG2145862
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/05/2023 20:47	WG2145862
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/05/2023 20:47	WG2145862
Naphthalene	U		0.00100	0.00500	1	10/05/2023 20:47	WG2145862
n-Propylbenzene	U		0.0000993	0.00100	1	10/05/2023 20:47	WG2145862
Styrene	U		0.000118	0.00100	1	10/05/2023 20:47	WG2145862
tert-Butyl alcohol	U		0.00406	0.00500	1	10/05/2023 20:47	WG2145862
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	10/05/2023 20:47	WG2145862
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/05/2023 20:47	WG2145862
Tetrachloroethene	U		0.000300	0.00100	1	10/05/2023 20:47	WG2145862
Toluene	U		0.000278	0.00100	1	10/05/2023 20:47	WG2145862
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/05/2023 20:47	WG2145862
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/05/2023 20:47	WG2145862
Trichloroethene	U	J4	0.000190	0.00100	1	10/05/2023 20:47	WG2145862
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/05/2023 20:47	WG2145862
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/05/2023 20:47	WG2145862
Vinyl chloride	U		0.000234	0.00100	1	10/05/2023 20:47	WG2145862
o-Xylene	U		0.000174	0.00100	1	10/05/2023 20:47	WG2145862
m&p-Xylene	U		0.000430	0.00200	1	10/05/2023 20:47	WG2145862
Xylenes, Total	U		0.000174	0.00300	1	10/05/2023 20:47	WG2145862
(S) Toluene-d8	*107*			*80.0-120*		*10/05/2023 20:47*	WG2145862
(S) 4-Bromofluorobenzene	*118*			*77.0-126*		*10/05/2023 20:47*	WG2145862
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*10/05/2023 20:47*	WG2145862

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3520	J3	50.0	1	10/10/2023 12:15	WG2146078

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	305		3.79	10.0	10	10/05/2023 16:46	WG2145093
Fluoride	1.01	J	0.640	1.50	10	10/05/2023 16:46	WG2145093
Nitrate	2.15	Q	0.480	1.00	10	10/05/2023 16:46	WG2145093
Nitrite	U	Q	0.420	1.00	10	10/05/2023 16:46	WG2145093
Sulfate	2360		59.4	500	100	10/05/2023 21:39	WG2145093

Sample Narrative:

L1662588-28 WG2145093: Dilution due to matrix.

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	10/09/2023 19:12	WG2145023

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	0.776		0.0200	0.200	1	10/10/2023 23:11	WG2145185

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00532		0.000180	0.00200	1	10/17/2023 16:54	WG2145200
Barium	0.00989		0.000381	0.00200	1	10/17/2023 16:54	WG2145200
Cadmium	U		0.000150	0.00100	1	10/17/2023 16:54	WG2145200
Calcium	493		0.0936	1.00	1	10/17/2023 16:54	WG2145200
Chromium	U		0.00124	0.00200	1	10/17/2023 16:54	WG2145200
Cobalt	0.00108	J	0.0000596	0.00200	1	10/17/2023 16:54	WG2145200
Iron	0.195		0.0281	0.100	1	10/17/2023 16:54	WG2145200
Lead	U		0.000849	0.00200	1	10/17/2023 16:54	WG2145200
Manganese	0.111		0.000704	0.00500	1	10/17/2023 16:54	WG2145200
Nickel	0.00317		0.000816	0.00200	1	10/17/2023 16:54	WG2145200
Potassium	1.63	J	0.108	2.00	1	10/17/2023 16:54	WG2145200
Selenium	0.00362		0.000300	0.00200	1	10/17/2023 16:54	WG2145200
Sodium	237		0.376	2.00	1	10/17/2023 16:54	WG2145200
Uranium	0.0383		0.0000789	0.00100	1	10/17/2023 16:54	WG2145200
Vanadium	0.0152		0.000664	0.00500	1	10/17/2023 16:54	WG2145200

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	0.0370	J	0.0314	0.100	1	10/09/2023 01:41	WG2147502
(S) a,a,a-Trifluorotoluene(FID)	*109*			*78.0-120*		*10/09/2023 01:41*	WG2147502

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	10/05/2023 22:12	WG2145862
Benzene	U		0.0000941	0.00100	1	10/06/2023 17:56	WG2146458
Bromodichloromethane	U		0.000136	0.00100	1	10/05/2023 22:12	WG2145862
Bromoform	U		0.000129	0.00100	1	10/05/2023 22:12	WG2145862
Bromomethane	U		0.000605	0.00500	1	10/05/2023 22:12	WG2145862
n-Butylbenzene	U		0.000157	0.00100	1	10/05/2023 22:12	WG2145862
sec-Butylbenzene	U		0.000125	0.00100	1	10/05/2023 22:12	WG2145862
Carbon disulfide	U		0.0000962	0.00100	1	10/05/2023 22:12	WG2145862
Carbon tetrachloride	U		0.000128	0.00100	1	10/05/2023 22:12	WG2145862
Chlorobenzene	U		0.000116	0.00100	1	10/05/2023 22:12	WG2145862
Chlorodibromomethane	U		0.000140	0.00100	1	10/05/2023 22:12	WG2145862
Chloroethane	U		0.000192	0.00500	1	10/05/2023 22:12	WG2145862
Chloroform	U		0.000111	0.00500	1	10/05/2023 22:12	WG2145862
Chloromethane	U		0.000960	0.00250	1	10/05/2023 22:12	WG2145862
1,2-Dibromoethane	U		0.000126	0.00100	1	10/05/2023 22:12	WG2145862
1,1-Dichloroethane	U		0.000100	0.00100	1	10/05/2023 22:12	WG2145862
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/05/2023 22:12	WG2145862
1,1-Dichloroethene	U		0.000188	0.00100	1	10/05/2023 22:12	WG2145862
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/05/2023 22:12	WG2145862
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/05/2023 22:12	WG2145862
1,2-Dichloropropane	U		0.000149	0.00100	1	10/05/2023 22:12	WG2145862
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	10/05/2023 22:12	WG2145862
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/05/2023 22:12	WG2145862
Ethylbenzene	U		0.000137	0.00100	1	10/05/2023 22:12	WG2145862
Isopropylbenzene	U		0.000105	0.00100	1	10/05/2023 22:12	WG2145862
p-Isopropyltoluene	U		0.000120	0.00100	1	10/05/2023 22:12	WG2145862
2-Butanone (MEK)	U		0.00119	0.0100	1	10/05/2023 22:12	WG2145862
2-Hexanone	U		0.000787	0.0100	1	10/05/2023 22:12	WG2145862
Methylene Chloride	U		0.000430	0.00500	1	10/05/2023 22:12	WG2145862
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/05/2023 22:12	WG2145862
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/05/2023 22:12	WG2145862
Naphthalene	U		0.00100	0.00500	1	10/05/2023 22:12	WG2145862
n-Propylbenzene	U		0.0000993	0.00100	1	10/05/2023 22:12	WG2145862
Styrene	U		0.000118	0.00100	1	10/05/2023 22:12	WG2145862
tert-Butyl alcohol	U		0.00406	0.00500	1	10/05/2023 22:12	WG2145862
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	10/05/2023 22:12	WG2145862
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/05/2023 22:12	WG2145862
Tetrachloroethene	U		0.000300	0.00100	1	10/05/2023 22:12	WG2145862
Toluene	U		0.000278	0.00100	1	10/05/2023 22:12	WG2145862
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/05/2023 22:12	WG2145862
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/05/2023 22:12	WG2145862
Trichloroethene	U	J4	0.000190	0.00100	1	10/05/2023 22:12	WG2145862
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/05/2023 22:12	WG2145862
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/05/2023 22:12	WG2145862
Vinyl chloride	U		0.000234	0.00100	1	10/05/2023 22:12	WG2145862
o-Xylene	U		0.000174	0.00100	1	10/05/2023 22:12	WG2145862
m&p-Xylene	U		0.000430	0.00200	1	10/05/2023 22:12	WG2145862
Xylenes, Total	U		0.000174	0.00300	1	10/05/2023 22:12	WG2145862
(S) Toluene-d8	*108*			*80.0-120*		*10/05/2023 22:12*	WG2145862
(S) Toluene-d8	*105*			*80.0-120*		*10/06/2023 17:56*	WG2146458
(S) 4-Bromofluorobenzene	*116*			*77.0-126*		*10/05/2023 22:12*	WG2145862
(S) 4-Bromofluorobenzene	*84.9*			*77.0-126*		*10/06/2023 17:56*	WG2146458
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*10/05/2023 22:12*	WG2145862
(S) 1,2-Dichloroethane-d4	*130*			*70.0-130*		*10/06/2023 17:56*	WG2146458

MW-134
Collected date/time: 10/03/23 13:35
L1662588

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	10/13/2023 07:02	WG2148862
(S) o-Terphenyl	*51.6*			*31.0-160*		*10/13/2023 07:02*	WG2148862

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2420	J3	50.0	1	10/10/2023 12:15	WG2146078

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		0.00720	0.0200	4	10/05/2023 23:30	WG2144968

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	291		3.79	10.0	10	10/05/2023 00:54	WG2145066
Fluoride	0.655	J	0.640	1.50	10	10/05/2023 00:54	WG2145066
Nitrate	1.84		0.480	1.00	10	10/05/2023 00:54	WG2145066
Nitrite	U		0.420	1.00	10	10/05/2023 00:54	WG2145066
Sulfate	1200		5.94	50.0	10	10/05/2023 00:54	WG2145066

Sample Narrative:

L1662588-29 WG2145066: Dilution due to matrix.

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	10/09/2023 19:28	WG2145023

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	0.425		0.0200	0.200	1	10/10/2023 23:15	WG2145185

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.000292	J	0.000180	0.00200	1	10/17/2023 16:58	WG2145200
Barium	0.0449		0.000381	0.00200	1	10/17/2023 16:58	WG2145200
Cadmium	U		0.000150	0.00100	1	10/17/2023 16:58	WG2145200
Calcium	387		0.0936	1.00	1	10/17/2023 16:58	WG2145200
Chromium	0.00221		0.00124	0.00200	1	10/17/2023 16:58	WG2145200
Cobalt	0.0000963	J	0.0000596	0.00200	1	10/17/2023 16:58	WG2145200
Iron	0.105		0.0281	0.100	1	10/17/2023 16:58	WG2145200
Lead	U		0.000849	0.00200	1	10/17/2023 16:58	WG2145200
Manganese	2.35		0.000704	0.00500	1	10/17/2023 16:58	WG2145200
Nickel	0.00160	J	0.000816	0.00200	1	10/17/2023 16:58	WG2145200
Potassium	0.304	J	0.108	2.00	1	10/17/2023 16:58	WG2145200
Selenium	U		0.000300	0.00200	1	10/17/2023 16:58	WG2145200
Sodium	210		0.376	2.00	1	10/17/2023 16:58	WG2145200
Uranium	0.000433	J	0.0000789	0.00100	1	10/17/2023 16:58	WG2145200
Vanadium	0.000824	J	0.000664	0.00500	1	10/17/2023 16:58	WG2145200

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	10/05/2023 22:33	WG2145862
Benzene	0.000223	J	0.0000941	0.00100	1	10/05/2023 22:33	WG2145862
Bromodichloromethane	U		0.000136	0.00100	1	10/05/2023 22:33	WG2145862
Bromoform	U		0.000129	0.00100	1	10/05/2023 22:33	WG2145862
Bromomethane	U		0.000605	0.00500	1	10/05/2023 22:33	WG2145862
n-Butylbenzene	U		0.000157	0.00100	1	10/05/2023 22:33	WG2145862
sec-Butylbenzene	0.0153		0.000125	0.00100	1	10/05/2023 22:33	WG2145862
Carbon disulfide	0.000106	J	0.0000962	0.00100	1	10/05/2023 22:33	WG2145862
Carbon tetrachloride	U		0.000128	0.00100	1	10/05/2023 22:33	WG2145862
Chlorobenzene	U		0.000116	0.00100	1	10/05/2023 22:33	WG2145862
Chlorodibromomethane	U		0.000140	0.00100	1	10/05/2023 22:33	WG2145862
Chloroethane	U		0.000192	0.00500	1	10/05/2023 22:33	WG2145862
Chloroform	U		0.000111	0.00500	1	10/05/2023 22:33	WG2145862
Chloromethane	U		0.000960	0.00250	1	10/05/2023 22:33	WG2145862
1,2-Dibromoethane	U		0.000126	0.00100	1	10/05/2023 22:33	WG2145862
1,1-Dichloroethane	U		0.000100	0.00100	1	10/05/2023 22:33	WG2145862
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/05/2023 22:33	WG2145862
1,1-Dichloroethene	U		0.000188	0.00100	1	10/05/2023 22:33	WG2145862
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/05/2023 22:33	WG2145862
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/05/2023 22:33	WG2145862
1,2-Dichloropropane	U		0.000149	0.00100	1	10/05/2023 22:33	WG2145862
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	10/05/2023 22:33	WG2145862
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/05/2023 22:33	WG2145862
Ethylbenzene	0.000345	J	0.000137	0.00100	1	10/05/2023 22:33	WG2145862
Isopropylbenzene	0.0310		0.000105	0.00100	1	10/05/2023 22:33	WG2145862
p-Isopropyltoluene	U		0.000120	0.00100	1	10/05/2023 22:33	WG2145862
2-Butanone (MEK)	U		0.00119	0.0100	1	10/05/2023 22:33	WG2145862
2-Hexanone	U		0.000787	0.0100	1	10/05/2023 22:33	WG2145862
Methylene Chloride	U		0.000430	0.00500	1	10/05/2023 22:33	WG2145862
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/05/2023 22:33	WG2145862
Methyl tert-butyl ether	0.00353		0.000101	0.00100	1	10/05/2023 22:33	WG2145862
Naphthalene	U		0.00100	0.00500	1	10/05/2023 22:33	WG2145862
n-Propylbenzene	0.0172		0.0000993	0.00100	1	10/05/2023 22:33	WG2145862
Styrene	U		0.000118	0.00100	1	10/05/2023 22:33	WG2145862
tert-Butyl alcohol	0.0126		0.00406	0.00500	1	10/05/2023 22:33	WG2145862
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	10/05/2023 22:33	WG2145862
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/05/2023 22:33	WG2145862
Tetrachloroethene	U		0.000300	0.00100	1	10/05/2023 22:33	WG2145862
Toluene	U		0.000278	0.00100	1	10/05/2023 22:33	WG2145862
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/05/2023 22:33	WG2145862
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/05/2023 22:33	WG2145862
Trichloroethene	U	J4	0.000190	0.00100	1	10/05/2023 22:33	WG2145862
1,2,4-Trimethylbenzene	0.000803	J	0.000322	0.00100	1	10/05/2023 22:33	WG2145862
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/05/2023 22:33	WG2145862
Vinyl chloride	U		0.000234	0.00100	1	10/05/2023 22:33	WG2145862
o-Xylene	U		0.000174	0.00100	1	10/05/2023 22:33	WG2145862
m&p-Xylene	U		0.000430	0.00200	1	10/05/2023 22:33	WG2145862
Xylenes, Total	U		0.000174	0.00300	1	10/05/2023 22:33	WG2145862
(S) Toluene-d8	*103*			*80.0-120*		*10/05/2023 22:33*	WG2145862
(S) 4-Bromofluorobenzene	*112*			*77.0-126*		*10/05/2023 22:33*	WG2145862
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*10/05/2023 22:33*	WG2145862

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	0.605		0.0247	0.100	1	10/13/2023 07:27	WG2148862

KWB-7
Collected date/time: 10/03/23 10:10
L1662588

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	*63.7*			*31.0-160*		*10/13/2023 07:27*	WG2148862

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	10/06/2023 02:25	WG2145862
Benzene	U		0.00188	0.0200	20	10/06/2023 02:25	WG2145862
Bromodichloromethane	U		0.00272	0.0200	20	10/06/2023 02:25	WG2145862
Bromoform	U		0.00258	0.0200	20	10/06/2023 02:25	WG2145862
Bromomethane	U		0.0121	0.100	20	10/06/2023 02:25	WG2145862
n-Butylbenzene	U		0.00314	0.0200	20	10/06/2023 02:25	WG2145862
sec-Butylbenzene	U		0.00250	0.0200	20	10/06/2023 02:25	WG2145862
Carbon disulfide	U		0.00192	0.0200	20	10/06/2023 02:25	WG2145862
Carbon tetrachloride	U		0.00256	0.0200	20	10/06/2023 02:25	WG2145862
Chlorobenzene	U		0.00232	0.0200	20	10/06/2023 02:25	WG2145862
Chlorodibromomethane	U		0.00280	0.0200	20	10/06/2023 02:25	WG2145862
Chloroethane	U		0.00384	0.100	20	10/06/2023 02:25	WG2145862
Chloroform	U		0.00222	0.100	20	10/06/2023 02:25	WG2145862
Chloromethane	U		0.0192	0.0500	20	10/06/2023 02:25	WG2145862
1,2-Dibromoethane	U		0.00252	0.0200	20	10/06/2023 02:25	WG2145862
1,1-Dichloroethane	U		0.00200	0.0200	20	10/06/2023 02:25	WG2145862
1,2-Dichloroethane	U		0.00164	0.0200	20	10/06/2023 02:25	WG2145862
1,1-Dichloroethene	U		0.00376	0.0200	20	10/06/2023 02:25	WG2145862
cis-1,2-Dichloroethene	U		0.00252	0.0200	20	10/06/2023 02:25	WG2145862
trans-1,2-Dichloroethene	U		0.00298	0.0200	20	10/06/2023 02:25	WG2145862
1,2-Dichloropropane	U		0.00298	0.0200	20	10/06/2023 02:25	WG2145862
cis-1,3-Dichloropropene	U		0.00222	0.0200	20	10/06/2023 02:25	WG2145862
trans-1,3-Dichloropropene	U		0.00236	0.0200	20	10/06/2023 02:25	WG2145862
Ethylbenzene	U		0.00274	0.0200	20	10/06/2023 02:25	WG2145862
Isopropylbenzene	U		0.00210	0.0200	20	10/06/2023 02:25	WG2145862
p-Isopropyltoluene	U		0.00240	0.0200	20	10/06/2023 02:25	WG2145862
2-Butanone (MEK)	U		0.0238	0.200	20	10/06/2023 02:25	WG2145862
2-Hexanone	U		0.0157	0.200	20	10/06/2023 02:25	WG2145862
Methylene Chloride	U		0.00860	0.100	20	10/06/2023 02:25	WG2145862
4-Methyl-2-pentanone (MIBK)	U		0.00956	0.200	20	10/06/2023 02:25	WG2145862
Methyl tert-butyl ether	0.722		0.00202	0.0200	20	10/06/2023 02:25	WG2145862
Naphthalene	U		0.0200	0.100	20	10/06/2023 02:25	WG2145862
n-Propylbenzene	U		0.00199	0.0200	20	10/06/2023 02:25	WG2145862
Styrene	U		0.00236	0.0200	20	10/06/2023 02:25	WG2145862
tert-Butyl alcohol	U		0.0812	0.100	20	10/06/2023 02:25	WG2145862
1,1,1,2-Tetrachloroethane	U		0.00294	0.0200	20	10/06/2023 02:25	WG2145862
1,1,2,2-Tetrachloroethane	U		0.00266	0.0200	20	10/06/2023 02:25	WG2145862
Tetrachloroethene	U		0.00600	0.0200	20	10/06/2023 02:25	WG2145862
Toluene	U		0.00556	0.0200	20	10/06/2023 02:25	WG2145862
1,1,1-Trichloroethane	U		0.00298	0.0200	20	10/06/2023 02:25	WG2145862
1,1,2-Trichloroethane	U		0.00316	0.0200	20	10/06/2023 02:25	WG2145862
Trichloroethene	U	J4	0.00380	0.0200	20	10/06/2023 02:25	WG2145862
1,2,4-Trimethylbenzene	U		0.00644	0.0200	20	10/06/2023 02:25	WG2145862
1,3,5-Trimethylbenzene	U		0.00208	0.0200	20	10/06/2023 02:25	WG2145862
Vinyl chloride	U		0.00468	0.0200	20	10/06/2023 02:25	WG2145862
o-Xylene	U		0.00348	0.0200	20	10/06/2023 02:25	WG2145862
m&p-Xylene	U		0.00860	0.0400	20	10/06/2023 02:25	WG2145862
Xylenes, Total	U		0.00348	0.0600	20	10/06/2023 02:25	WG2145862
(S) Toluene-d8	*110*			*80.0-120*		*10/06/2023 02:25*	WG2145862
(S) 4-Bromofluorobenzene	*117*			*77.0-126*		*10/06/2023 02:25*	WG2145862
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*10/06/2023 02:25*	WG2145862

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3170		100	1	10/10/2023 12:15	WG2146078

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	654		3.79	10.0	10	10/05/2023 01:53	WG2145090
Fluoride	1.73		0.640	1.50	10	10/05/2023 01:53	WG2145090
Nitrate	12.1		0.480	1.00	10	10/05/2023 01:53	WG2145090
Nitrite	U		0.420	1.00	10	10/05/2023 01:53	WG2145090
Sulfate	2300		59.4	500	100	10/05/2023 06:42	WG2145090

Sample Narrative:

L1662588-31 WG2145090: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00559		0.000180	0.00200	1	10/17/2023 16:15	WG2145200
Barium	0.00963		0.000381	0.00200	1	10/17/2023 16:15	WG2145200
Calcium	540		0.0936	1.00	1	10/17/2023 16:15	WG2145200
Chromium	U		0.00124	0.00200	1	10/17/2023 16:15	WG2145200
Iron	U		0.0281	0.100	1	10/17/2023 16:15	WG2145200
Lead	U		0.000849	0.00200	1	10/17/2023 16:15	WG2145200
Manganese	0.670		0.000704	0.00500	1	10/17/2023 16:15	WG2145200
Potassium	2.02		0.108	2.00	1	10/17/2023 16:15	WG2145200
Selenium	0.0502		0.000300	0.00200	1	10/17/2023 16:15	WG2145200
Sodium	404		0.376	2.00	1	10/17/2023 16:15	WG2145200

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	0.340		0.0314	0.100	1	10/09/2023 02:09	WG2147502
(S) a,a,a-Trifluorotoluene(FID)	*109*			*78.0-120*		*10/09/2023 02:09*	WG2147502

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	10/06/2023 02:46	WG2145862
Benzene	U		0.000471	0.00500	5	10/06/2023 02:46	WG2145862
Bromodichloromethane	U		0.000680	0.00500	5	10/06/2023 02:46	WG2145862
Bromoform	U		0.000645	0.00500	5	10/06/2023 02:46	WG2145862
Bromomethane	U		0.00303	0.0250	5	10/06/2023 02:46	WG2145862
n-Butylbenzene	U		0.000785	0.00500	5	10/06/2023 02:46	WG2145862
sec-Butylbenzene	U		0.000625	0.00500	5	10/06/2023 02:46	WG2145862
Carbon disulfide	U		0.000481	0.00500	5	10/06/2023 02:46	WG2145862
Carbon tetrachloride	U		0.000640	0.00500	5	10/06/2023 02:46	WG2145862
Chlorobenzene	U		0.000580	0.00500	5	10/06/2023 02:46	WG2145862
Chlorodibromomethane	U		0.000700	0.00500	5	10/06/2023 02:46	WG2145862
Chloroethane	U		0.000960	0.0250	5	10/06/2023 02:46	WG2145862
Chloroform	U		0.000555	0.0250	5	10/06/2023 02:46	WG2145862
Chloromethane	U		0.00480	0.0125	5	10/06/2023 02:46	WG2145862
1,2-Dibromoethane	U		0.000630	0.00500	5	10/06/2023 02:46	WG2145862
1,1-Dichloroethane	U		0.000500	0.00500	5	10/06/2023 02:46	WG2145862

MW-21
Collected date/time: 10/03/23 12:10
L1662588

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	10/06/2023 02:46	WG2145862
1,1-Dichloroethene	U		0.000940	0.00500	5	10/06/2023 02:46	WG2145862
cis-1,2-Dichloroethene	U		0.000630	0.00500	5	10/06/2023 02:46	WG2145862
trans-1,2-Dichloroethene	U		0.000745	0.00500	5	10/06/2023 02:46	WG2145862
1,2-Dichloropropane	U		0.000745	0.00500	5	10/06/2023 02:46	WG2145862
cis-1,3-Dichloropropene	U		0.000555	0.00500	5	10/06/2023 02:46	WG2145862
trans-1,3-Dichloropropene	U		0.000590	0.00500	5	10/06/2023 02:46	WG2145862
Ethylbenzene	U		0.000685	0.00500	5	10/06/2023 02:46	WG2145862
Isopropylbenzene	U		0.000525	0.00500	5	10/06/2023 02:46	WG2145862
p-Isopropyltoluene	U		0.000600	0.00500	5	10/06/2023 02:46	WG2145862
2-Butanone (MEK)	U		0.00595	0.0500	5	10/06/2023 02:46	WG2145862
2-Hexanone	U		0.00394	0.0500	5	10/06/2023 02:46	WG2145862
Methylene Chloride	U		0.00215	0.0250	5	10/06/2023 02:46	WG2145862
4-Methyl-2-pentanone (MIBK)	U		0.00239	0.0500	5	10/06/2023 02:46	WG2145862
Methyl tert-butyl ether	0.234		0.000505	0.00500	5	10/06/2023 02:46	WG2145862
Naphthalene	U		0.00500	0.0250	5	10/06/2023 02:46	WG2145862
n-Propylbenzene	U		0.000497	0.00500	5	10/06/2023 02:46	WG2145862
Styrene	U		0.000590	0.00500	5	10/06/2023 02:46	WG2145862
tert-Butyl alcohol	U		0.0203	0.0250	5	10/06/2023 02:46	WG2145862
1,1,1,2-Tetrachloroethane	U		0.000735	0.00500	5	10/06/2023 02:46	WG2145862
1,1,2,2-Tetrachloroethane	U		0.000665	0.00500	5	10/06/2023 02:46	WG2145862
Tetrachloroethene	U		0.00150	0.00500	5	10/06/2023 02:46	WG2145862
Toluene	U		0.00139	0.00500	5	10/06/2023 02:46	WG2145862
1,1,1-Trichloroethane	U		0.000745	0.00500	5	10/06/2023 02:46	WG2145862
1,1,2-Trichloroethane	U		0.000790	0.00500	5	10/06/2023 02:46	WG2145862
Trichloroethene	U	J4	0.000950	0.00500	5	10/06/2023 02:46	WG2145862
1,2,4-Trimethylbenzene	U		0.00161	0.00500	5	10/06/2023 02:46	WG2145862
1,3,5-Trimethylbenzene	U		0.000520	0.00500	5	10/06/2023 02:46	WG2145862
Vinyl chloride	U		0.00117	0.00500	5	10/06/2023 02:46	WG2145862
o-Xylene	U		0.000870	0.00500	5	10/06/2023 02:46	WG2145862
m&p-Xylene	U		0.00215	0.0100	5	10/06/2023 02:46	WG2145862
Xylenes, Total	U		0.000870	0.0150	5	10/06/2023 02:46	WG2145862
(S) Toluene-d8	*109*			*80.0-120*		*10/06/2023 02:46*	WG2145862
(S) 4-Bromofluorobenzene	*118*			*77.0-126*		*10/06/2023 02:46*	WG2145862
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*10/06/2023 02:46*	WG2145862

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	10/13/2023 07:53	WG2148862
(S) o-Terphenyl	*51.2*			*31.0-160*		*10/13/2023 07:53*	WG2148862

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	10/10/2023 12:15	WG2146078

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	10/05/2023 23:32	WG2144968

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	340		3.79	10.0	10	10/05/2023 01:10	WG2145066
Fluoride	U		0.640	1.50	10	10/05/2023 01:10	WG2145066
Nitrate	1.15		0.480	1.00	10	10/05/2023 01:10	WG2145066
Nitrite	U		0.420	1.00	10	10/05/2023 01:10	WG2145066
Sulfate	1300		5.94	50.0	10	10/05/2023 01:10	WG2145066

Sample Narrative:

L1662588-32 WG2145066: Dilution due to matrix.

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	10/09/2023 19:30	WG2145023

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	0.363		0.0200	0.200	1	10/10/2023 23:18	WG2145185

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00224		0.000180	0.00200	1	10/17/2023 17:01	WG2145200
Barium	0.0168		0.000381	0.00200	1	10/17/2023 17:01	WG2145200
Cadmium	U		0.000150	0.00100	1	10/17/2023 17:01	WG2145200
Calcium	408		0.0936	1.00	1	10/17/2023 17:01	WG2145200
Chromium	U		0.00124	0.00200	1	10/17/2023 17:01	WG2145200
Cobalt	0.000694	J	0.0000596	0.00200	1	10/17/2023 17:01	WG2145200
Iron	0.390		0.0281	0.100	1	10/17/2023 17:01	WG2145200
Lead	U		0.000849	0.00200	1	10/17/2023 17:01	WG2145200
Manganese	0.314		0.000704	0.00500	1	10/17/2023 17:01	WG2145200
Nickel	0.00326		0.000816	0.00200	1	10/17/2023 17:01	WG2145200
Potassium	0.851	J	0.108	2.00	1	10/17/2023 17:01	WG2145200
Selenium	U		0.000300	0.00200	1	10/17/2023 17:01	WG2145200
Sodium	244		0.376	2.00	1	10/17/2023 17:01	WG2145200
Uranium	0.0136		0.0000789	0.00100	1	10/17/2023 17:01	WG2145200
Vanadium	0.00942		0.000664	0.00500	1	10/17/2023 17:01	WG2145200

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	0.0683	J	0.0314	0.100	1	10/09/2023 02:32	WG2147502

Received by OCD: 6/12/2024 3:31:05 PM

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)	*109*			*78.0-120*		*10/09/2023 02:32*	WG2147502

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	10/06/2023 18:17	WG2146342
Benzene	U		0.0000941	0.00100	1	10/06/2023 18:17	WG2146342
Bromodichloromethane	U		0.000136	0.00100	1	10/06/2023 18:17	WG2146342
Bromoform	U		0.000129	0.00100	1	10/06/2023 18:17	WG2146342
Bromomethane	U		0.000605	0.00500	1	10/06/2023 18:17	WG2146342
n-Butylbenzene	U		0.000157	0.00100	1	10/06/2023 18:17	WG2146342
sec-Butylbenzene	0.000462	J	0.000125	0.00100	1	10/06/2023 18:17	WG2146342
Carbon disulfide	U		0.0000962	0.00100	1	10/06/2023 18:17	WG2146342
Carbon tetrachloride	U		0.000128	0.00100	1	10/06/2023 18:17	WG2146342
Chlorobenzene	U		0.000116	0.00100	1	10/06/2023 18:17	WG2146342
Chlorodibromomethane	U		0.000140	0.00100	1	10/06/2023 18:17	WG2146342
Chloroethane	U		0.000192	0.00500	1	10/06/2023 18:17	WG2146342
Chloroform	U		0.000111	0.00500	1	10/06/2023 18:17	WG2146342
Chloromethane	U		0.000960	0.00250	1	10/06/2023 18:17	WG2146342
1,2-Dibromoethane	U		0.000126	0.00100	1	10/06/2023 18:17	WG2146342
1,1-Dichloroethane	U		0.000100	0.00100	1	10/06/2023 18:17	WG2146342
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/06/2023 18:17	WG2146342
1,1-Dichloroethene	U		0.000188	0.00100	1	10/06/2023 18:17	WG2146342
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/06/2023 18:17	WG2146342
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/06/2023 18:17	WG2146342
1,2-Dichloropropane	U		0.000149	0.00100	1	10/06/2023 18:17	WG2146342
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	10/06/2023 18:17	WG2146342
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/06/2023 18:17	WG2146342
Ethylbenzene	U		0.000137	0.00100	1	10/06/2023 18:17	WG2146342
Isopropylbenzene	0.000585	J	0.000105	0.00100	1	10/06/2023 18:17	WG2146342
p-Isopropyltoluene	U		0.000120	0.00100	1	10/06/2023 18:17	WG2146342
2-Butanone (MEK)	U		0.00119	0.0100	1	10/06/2023 18:17	WG2146342
2-Hexanone	U		0.000787	0.0100	1	10/06/2023 18:17	WG2146342
Methylene Chloride	U		0.000430	0.00500	1	10/06/2023 18:17	WG2146342
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/06/2023 18:17	WG2146342
Methyl tert-butyl ether	0.00147		0.000101	0.00100	1	10/06/2023 18:17	WG2146342
Naphthalene	U		0.00100	0.00500	1	10/06/2023 18:17	WG2146342
n-Propylbenzene	U		0.0000993	0.00100	1	10/06/2023 18:17	WG2146342
Styrene	U		0.000118	0.00100	1	10/06/2023 18:17	WG2146342
tert-Butyl alcohol	U		0.00406	0.00500	1	10/06/2023 18:17	WG2146342
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	10/06/2023 18:17	WG2146342
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/06/2023 18:17	WG2146342
Tetrachloroethene	U		0.000300	0.00100	1	10/06/2023 18:17	WG2146342
Toluene	U		0.000278	0.00100	1	10/06/2023 18:17	WG2146342
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/06/2023 18:17	WG2146342
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/06/2023 18:17	WG2146342
Trichloroethene	U		0.000190	0.00100	1	10/06/2023 18:17	WG2146342
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/06/2023 18:17	WG2146342
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/06/2023 18:17	WG2146342
Vinyl chloride	U		0.000234	0.00100	1	10/06/2023 18:17	WG2146342
o-Xylene	U		0.000174	0.00100	1	10/06/2023 18:17	WG2146342
m&p-Xylene	U		0.000430	0.00200	1	10/06/2023 18:17	WG2146342
Xylenes, Total	U		0.000174	0.00300	1	10/06/2023 18:17	WG2146342
(S) Toluene-d8	*108*			*80.0-120*		*10/06/2023 18:17*	WG2146342
(S) 4-Bromofluorobenzene	*117*			*77.0-126*		*10/06/2023 18:17*	WG2146342

Released to Imaging: 6/28/2024 11:23:28 AM

KWB-1A
Collected date/time: 10/03/23 10:50
L1662588

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*		*10/06/2023 18:17*	WG2146342

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	10/13/2023 08:18	WG2148862
(S) o-Terphenyl	*51.6*			*31.0-160*		*10/13/2023 08:18*	WG2148862

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2450		50.0	1	10/10/2023 12:15	WG2146078

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	10/05/2023 23:33	WG2144968

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	342		3.79	10.0	10	10/05/2023 02:05	WG2145090
Fluoride	U		0.640	1.50	10	10/05/2023 02:05	WG2145090
Nitrate	2.17		0.480	1.00	10	10/05/2023 02:05	WG2145090
Nitrite	U		0.420	1.00	10	10/05/2023 02:05	WG2145090
Sulfate	1430		5.94	50.0	10	10/05/2023 02:05	WG2145090

Sample Narrative:

L1662588-33 WG2145090: Dilution due to matrix.

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	10/09/2023 19:33	WG2145023

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	0.128	J	0.0200	0.200	1	10/10/2023 23:21	WG2145185

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	10/17/2023 17:04	WG2145200
Barium	0.0141		0.000381	0.00200	1	10/17/2023 17:04	WG2145200
Cadmium	U		0.000150	0.00100	1	10/17/2023 17:04	WG2145200
Calcium	501		0.0936	1.00	1	10/17/2023 17:04	WG2145200
Chromium	U		0.00124	0.00200	1	10/17/2023 17:04	WG2145200
Cobalt	U		0.0000596	0.00200	1	10/17/2023 17:04	WG2145200
Iron	U		0.0281	0.100	1	10/17/2023 17:04	WG2145200
Lead	U		0.000849	0.00200	1	10/17/2023 17:04	WG2145200
Manganese	0.00194	J	0.000704	0.00500	1	10/17/2023 17:04	WG2145200
Nickel	U		0.000816	0.00200	1	10/17/2023 17:04	WG2145200
Potassium	2.28		0.108	2.00	1	10/17/2023 17:04	WG2145200
Selenium	0.00540		0.000300	0.00200	1	10/17/2023 17:04	WG2145200
Sodium	109		0.376	2.00	1	10/17/2023 17:04	WG2145200
Uranium	0.0144		0.0000789	0.00100	1	10/17/2023 17:04	WG2145200
Vanadium	0.00906		0.000664	0.00500	1	10/17/2023 17:04	WG2145200

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	10/09/2023 02:54	WG2147502

Received by OCD: 6/12/2024 3:31:05 PM

KWD-1B
Collected date/time: 10/03/23 11:25
L1662588

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)	*110*			*78.0-120*		*10/09/2023 02:54*	WG2147502

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	10/06/2023 18:38	WG2146342
Benzene	U		0.0000941	0.00100	1	10/06/2023 18:38	WG2146342
Bromodichloromethane	U		0.000136	0.00100	1	10/06/2023 18:38	WG2146342
Bromoform	U		0.000129	0.00100	1	10/06/2023 18:38	WG2146342
Bromomethane	U		0.000605	0.00500	1	10/06/2023 18:38	WG2146342
n-Butylbenzene	U		0.000157	0.00100	1	10/06/2023 18:38	WG2146342
sec-Butylbenzene	U		0.000125	0.00100	1	10/06/2023 18:38	WG2146342
Carbon disulfide	U		0.0000962	0.00100	1	10/06/2023 18:38	WG2146342
Carbon tetrachloride	U		0.000128	0.00100	1	10/06/2023 18:38	WG2146342
Chlorobenzene	U		0.000116	0.00100	1	10/06/2023 18:38	WG2146342
Chlorodibromomethane	U		0.000140	0.00100	1	10/06/2023 18:38	WG2146342
Chloroethane	U		0.000192	0.00500	1	10/06/2023 18:38	WG2146342
Chloroform	U		0.000111	0.00500	1	10/06/2023 18:38	WG2146342
Chloromethane	U		0.000960	0.00250	1	10/06/2023 18:38	WG2146342
1,2-Dibromoethane	U		0.000126	0.00100	1	10/06/2023 18:38	WG2146342
1,1-Dichloroethane	U		0.000100	0.00100	1	10/06/2023 18:38	WG2146342
1,2-Dichloroethane	0.000325	J	0.0000819	0.00100	1	10/06/2023 18:38	WG2146342
1,1-Dichloroethene	U		0.000188	0.00100	1	10/06/2023 18:38	WG2146342
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/06/2023 18:38	WG2146342
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/06/2023 18:38	WG2146342
1,2-Dichloropropane	U		0.000149	0.00100	1	10/06/2023 18:38	WG2146342
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	10/06/2023 18:38	WG2146342
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/06/2023 18:38	WG2146342
Ethylbenzene	U		0.000137	0.00100	1	10/06/2023 18:38	WG2146342
Isopropylbenzene	U		0.000105	0.00100	1	10/06/2023 18:38	WG2146342
p-Isopropyltoluene	U		0.000120	0.00100	1	10/06/2023 18:38	WG2146342
2-Butanone (MEK)	U		0.00119	0.0100	1	10/06/2023 18:38	WG2146342
2-Hexanone	U		0.000787	0.0100	1	10/06/2023 18:38	WG2146342
Methylene Chloride	U		0.000430	0.00500	1	10/06/2023 18:38	WG2146342
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/06/2023 18:38	WG2146342
Methyl tert-butyl ether	0.00150		0.000101	0.00100	1	10/06/2023 18:38	WG2146342
Naphthalene	U		0.00100	0.00500	1	10/06/2023 18:38	WG2146342
n-Propylbenzene	U		0.0000993	0.00100	1	10/06/2023 18:38	WG2146342
Styrene	U		0.000118	0.00100	1	10/06/2023 18:38	WG2146342
tert-Butyl alcohol	0.00488	J	0.00406	0.00500	1	10/06/2023 18:38	WG2146342
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	10/06/2023 18:38	WG2146342
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/06/2023 18:38	WG2146342
Tetrachloroethene	U		0.000300	0.00100	1	10/06/2023 18:38	WG2146342
Toluene	U		0.000278	0.00100	1	10/06/2023 18:38	WG2146342
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/06/2023 18:38	WG2146342
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/06/2023 18:38	WG2146342
Trichloroethene	U		0.000190	0.00100	1	10/06/2023 18:38	WG2146342
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/06/2023 18:38	WG2146342
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/06/2023 18:38	WG2146342
Vinyl chloride	U		0.000234	0.00100	1	10/06/2023 18:38	WG2146342
o-Xylene	U		0.000174	0.00100	1	10/06/2023 18:38	WG2146342
m&p-Xylene	U		0.000430	0.00200	1	10/06/2023 18:38	WG2146342
Xylenes, Total	U		0.000174	0.00300	1	10/06/2023 18:38	WG2146342
(S) Toluene-d8	*107*			*80.0-120*		*10/06/2023 18:38*	WG2146342
(S) 4-Bromofluorobenzene	*117*			*77.0-126*		*10/06/2023 18:38*	WG2146342

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Released to Imaging: 6/28/2024 11:23:28 AM

KWB-1B
Collected date/time: 10/03/23 11:25
L1662588

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	*105*			*70.0-130*		*10/06/2023 18:38*	WG2146342

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	10/13/2023 15:08	WG2148862
(S) o-Terphenyl	*47.8*			*31.0-160*		*10/13/2023 15:08*	WG2148862

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3910		50.0	1	10/10/2023 12:15	WG2146078

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	297		3.79	10.0	10	10/05/2023 02:18	WG2145090
Fluoride	1.19	J	0.640	1.50	10	10/05/2023 02:18	WG2145090
Nitrate	2.74		0.480	1.00	10	10/05/2023 02:18	WG2145090
Nitrite	U		0.420	1.00	10	10/05/2023 02:18	WG2145090
Sulfate	2300		59.4	500	100	10/05/2023 07:07	WG2145090

Sample Narrative:

L1662588-34 WG2145090: Dilution due to matrix.

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	10/17/2023 17:07	WG2145200
Barium	0.0105		0.000381	0.00200	1	10/17/2023 17:07	WG2145200
Calcium	490		0.0936	1.00	1	10/17/2023 17:07	WG2145200
Chromium	U		0.00124	0.00200	1	10/17/2023 17:07	WG2145200
Iron	0.237		0.0281	0.100	1	10/17/2023 17:07	WG2145200
Lead	U		0.000849	0.00200	1	10/17/2023 17:07	WG2145200
Manganese	0.114		0.000704	0.00500	1	10/17/2023 17:07	WG2145200
Potassium	1.53	J	0.108	2.00	1	10/17/2023 17:07	WG2145200
Selenium	0.00428		0.000300	0.00200	1	10/17/2023 17:07	WG2145200
Sodium	232		0.376	2.00	1	10/17/2023 17:07	WG2145200

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	10/09/2023 03:17	WG2147502
(S) a,a,a-Trifluorotoluene(FID)	*110*			*78.0-120*		*10/09/2023 03:17*	WG2147502

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	10/06/2023 18:59	WG2146342
Benzene	U		0.0000941	0.00100	1	10/06/2023 18:59	WG2146342
Bromodichloromethane	U		0.000136	0.00100	1	10/06/2023 18:59	WG2146342
Bromoform	U		0.000129	0.00100	1	10/06/2023 18:59	WG2146342
Bromomethane	U		0.000605	0.00500	1	10/06/2023 18:59	WG2146342
n-Butylbenzene	U		0.000157	0.00100	1	10/06/2023 18:59	WG2146342
sec-Butylbenzene	U		0.000125	0.00100	1	10/06/2023 18:59	WG2146342
Carbon disulfide	U		0.0000962	0.00100	1	10/06/2023 18:59	WG2146342
Carbon tetrachloride	U		0.000128	0.00100	1	10/06/2023 18:59	WG2146342
Chlorobenzene	U		0.000116	0.00100	1	10/06/2023 18:59	WG2146342
Chlorodibromomethane	U		0.000140	0.00100	1	10/06/2023 18:59	WG2146342
Chloroethane	U		0.000192	0.00500	1	10/06/2023 18:59	WG2146342
Chloroform	U		0.000111	0.00500	1	10/06/2023 18:59	WG2146342
Chloromethane	U		0.000960	0.00250	1	10/06/2023 18:59	WG2146342
1,2-Dibromoethane	U		0.000126	0.00100	1	10/06/2023 18:59	WG2146342
1,1-Dichloroethane	U		0.000100	0.00100	1	10/06/2023 18:59	WG2146342

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	10/06/2023 18:59	WG2146342
1,1-Dichloroethene	U		0.000188	0.00100	1	10/06/2023 18:59	WG2146342
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/06/2023 18:59	WG2146342
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/06/2023 18:59	WG2146342
1,2-Dichloropropane	U		0.000149	0.00100	1	10/06/2023 18:59	WG2146342
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	10/06/2023 18:59	WG2146342
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/06/2023 18:59	WG2146342
Ethylbenzene	U		0.000137	0.00100	1	10/06/2023 18:59	WG2146342
Isopropylbenzene	U		0.000105	0.00100	1	10/06/2023 18:59	WG2146342
p-Isopropyltoluene	U		0.000120	0.00100	1	10/06/2023 18:59	WG2146342
2-Butanone (MEK)	U		0.00119	0.0100	1	10/06/2023 18:59	WG2146342
2-Hexanone	U		0.000787	0.0100	1	10/06/2023 18:59	WG2146342
Methylene Chloride	U		0.000430	0.00500	1	10/06/2023 18:59	WG2146342
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/06/2023 18:59	WG2146342
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/06/2023 18:59	WG2146342
Naphthalene	U		0.00100	0.00500	1	10/06/2023 18:59	WG2146342
n-Propylbenzene	U		0.0000993	0.00100	1	10/06/2023 18:59	WG2146342
Styrene	U		0.000118	0.00100	1	10/06/2023 18:59	WG2146342
tert-Butyl alcohol	U		0.00406	0.00500	1	10/06/2023 18:59	WG2146342
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	10/06/2023 18:59	WG2146342
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/06/2023 18:59	WG2146342
Tetrachloroethene	U		0.000300	0.00100	1	10/06/2023 18:59	WG2146342
Toluene	U		0.000278	0.00100	1	10/06/2023 18:59	WG2146342
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/06/2023 18:59	WG2146342
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/06/2023 18:59	WG2146342
Trichloroethene	U		0.000190	0.00100	1	10/06/2023 18:59	WG2146342
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/06/2023 18:59	WG2146342
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/06/2023 18:59	WG2146342
Vinyl chloride	U		0.000234	0.00100	1	10/06/2023 18:59	WG2146342
o-Xylene	U		0.000174	0.00100	1	10/06/2023 18:59	WG2146342
m&p-Xylene	U		0.000430	0.00200	1	10/06/2023 18:59	WG2146342
Xylenes, Total	U		0.000174	0.00300	1	10/06/2023 18:59	WG2146342
(S) Toluene-d8	*108*			*80.0-120*		*10/06/2023 18:59*	WG2146342
(S) 4-Bromofluorobenzene	*117*			*77.0-126*		*10/06/2023 18:59*	WG2146342
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*10/06/2023 18:59*	WG2146342

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	10/13/2023 15:33	WG2148862
(S) o-Terphenyl	*48.8*			*31.0-160*		*10/13/2023 15:33*	WG2148862

Received by OCD: 6/12/2024 3:31:05 PM

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	10/10/2023 12:15	WG2146078

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	10/05/2023 16:59	WG2145093
Fluoride	U		0.0640	0.150	1	10/05/2023 16:59	WG2145093
Nitrate	0.0526	J Q	0.0480	0.100	1	10/05/2023 16:59	WG2145093
Nitrite	U	Q	0.0420	0.100	1	10/05/2023 16:59	WG2145093
Sulfate	0.791	J	0.594	5.00	1	10/05/2023 16:59	WG2145093

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	10/17/2023 17:10	WG2145200
Barium	U		0.000381	0.00200	1	10/17/2023 17:10	WG2145200
Calcium	0.388	J	0.0936	1.00	1	10/17/2023 17:10	WG2145200
Chromium	U		0.00124	0.00200	1	10/17/2023 17:10	WG2145200
Iron	U		0.0281	0.100	1	10/17/2023 17:10	WG2145200
Lead	U		0.000849	0.00200	1	10/17/2023 17:10	WG2145200
Manganese	U		0.000704	0.00500	1	10/17/2023 17:10	WG2145200
Potassium	U		0.108	2.00	1	10/17/2023 17:10	WG2145200
Selenium	U		0.000300	0.00200	1	10/17/2023 17:10	WG2145200
Sodium	0.403	J	0.376	2.00	1	10/17/2023 17:10	WG2145200

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	10/08/2023 21:56	WG2147502
(S) a,a,a-Trifluorotoluene(FID)	*109*			*78.0-120*		*10/08/2023 21:56*	WG2147502

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	10/06/2023 19:20	WG2146342
Benzene	U		0.0000941	0.00100	1	10/06/2023 19:20	WG2146342
Bromodichloromethane	U		0.000136	0.00100	1	10/06/2023 19:20	WG2146342
Bromoform	U		0.000129	0.00100	1	10/06/2023 19:20	WG2146342
Bromomethane	U		0.000605	0.00500	1	10/06/2023 19:20	WG2146342
n-Butylbenzene	U		0.000157	0.00100	1	10/06/2023 19:20	WG2146342
sec-Butylbenzene	U		0.000125	0.00100	1	10/06/2023 19:20	WG2146342
Carbon disulfide	U		0.0000962	0.00100	1	10/06/2023 19:20	WG2146342
Carbon tetrachloride	U		0.000128	0.00100	1	10/06/2023 19:20	WG2146342
Chlorobenzene	U		0.000116	0.00100	1	10/06/2023 19:20	WG2146342
Chlorodibromomethane	U		0.000140	0.00100	1	10/06/2023 19:20	WG2146342
Chloroethane	U		0.000192	0.00500	1	10/06/2023 19:20	WG2146342
Chloroform	0.000413	J	0.000111	0.00500	1	10/06/2023 19:20	WG2146342
Chloromethane	U		0.000960	0.00250	1	10/06/2023 19:20	WG2146342
1,2-Dibromoethane	U		0.000126	0.00100	1	10/06/2023 19:20	WG2146342
1,1-Dichloroethane	U		0.000100	0.00100	1	10/06/2023 19:20	WG2146342
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/06/2023 19:20	WG2146342
1,1-Dichloroethene	U		0.000188	0.00100	1	10/06/2023 19:20	WG2146342
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/06/2023 19:20	WG2146342

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Released to Imaging: 6/28/2024 11:23:28 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
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/06/2023 19:20	WG2146342
1,2-Dichloropropane	U		0.000149	0.00100	1	10/06/2023 19:20	WG2146342
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	10/06/2023 19:20	WG2146342
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/06/2023 19:20	WG2146342
Ethylbenzene	U		0.000137	0.00100	1	10/06/2023 19:20	WG2146342
Isopropylbenzene	U		0.000105	0.00100	1	10/06/2023 19:20	WG2146342
p-Isopropyltoluene	U		0.000120	0.00100	1	10/06/2023 19:20	WG2146342
2-Butanone (MEK)	U		0.00119	0.0100	1	10/06/2023 19:20	WG2146342
2-Hexanone	U		0.000787	0.0100	1	10/06/2023 19:20	WG2146342
Methylene Chloride	U		0.000430	0.00500	1	10/06/2023 19:20	WG2146342
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/06/2023 19:20	WG2146342
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/06/2023 19:20	WG2146342
Naphthalene	U		0.00100	0.00500	1	10/06/2023 19:20	WG2146342
n-Propylbenzene	U		0.0000993	0.00100	1	10/06/2023 19:20	WG2146342
Styrene	U		0.000118	0.00100	1	10/06/2023 19:20	WG2146342
tert-Butyl alcohol	U		0.00406	0.00500	1	10/06/2023 19:20	WG2146342
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	10/06/2023 19:20	WG2146342
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/06/2023 19:20	WG2146342
Tetrachloroethene	U		0.000300	0.00100	1	10/06/2023 19:20	WG2146342
Toluene	U		0.000278	0.00100	1	10/06/2023 19:20	WG2146342
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/06/2023 19:20	WG2146342
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/06/2023 19:20	WG2146342
Trichloroethene	U		0.000190	0.00100	1	10/06/2023 19:20	WG2146342
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/06/2023 19:20	WG2146342
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/06/2023 19:20	WG2146342
Vinyl chloride	U		0.000234	0.00100	1	10/06/2023 19:20	WG2146342
o-Xylene	U		0.000174	0.00100	1	10/06/2023 19:20	WG2146342
m&p-Xylene	U		0.000430	0.00200	1	10/06/2023 19:20	WG2146342
Xylenes, Total	U		0.000174	0.00300	1	10/06/2023 19:20	WG2146342
(S) Toluene-d8	*108*			*80.0-120*		*10/06/2023 19:20*	WG2146342
(S) 4-Bromofluorobenzene	*116*			*77.0-126*		*10/06/2023 19:20*	WG2146342
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*10/06/2023 19:20*	WG2146342

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	10/13/2023 15:58	WG2148862
(S) o-Terphenyl	*50.5*			*31.0-160*		*10/13/2023 15:58*	WG2148862

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	10/06/2023 13:42	WG2146342
Benzene	U		0.0000941	0.00100	1	10/06/2023 13:42	WG2146342
Bromodichloromethane	U		0.000136	0.00100	1	10/06/2023 13:42	WG2146342
Bromoform	U		0.000129	0.00100	1	10/06/2023 13:42	WG2146342
Bromomethane	U		0.000605	0.00500	1	10/06/2023 13:42	WG2146342
n-Butylbenzene	U		0.000157	0.00100	1	10/06/2023 13:42	WG2146342
sec-Butylbenzene	U		0.000125	0.00100	1	10/06/2023 13:42	WG2146342
Carbon disulfide	U		0.0000962	0.00100	1	10/06/2023 13:42	WG2146342
Carbon tetrachloride	U		0.000128	0.00100	1	10/06/2023 13:42	WG2146342
Chlorobenzene	U		0.000116	0.00100	1	10/06/2023 13:42	WG2146342
Chlorodibromomethane	U		0.000140	0.00100	1	10/06/2023 13:42	WG2146342
Chloroethane	U		0.000192	0.00500	1	10/06/2023 13:42	WG2146342
Chloroform	U		0.000111	0.00500	1	10/06/2023 13:42	WG2146342
Chloromethane	U		0.000960	0.00250	1	10/06/2023 13:42	WG2146342
1,2-Dibromoethane	U		0.000126	0.00100	1	10/06/2023 13:42	WG2146342
1,1-Dichloroethane	U		0.000100	0.00100	1	10/06/2023 13:42	WG2146342
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/06/2023 13:42	WG2146342
1,1-Dichloroethene	U		0.000188	0.00100	1	10/06/2023 13:42	WG2146342
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/06/2023 13:42	WG2146342
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/06/2023 13:42	WG2146342
1,2-Dichloropropane	U		0.000149	0.00100	1	10/06/2023 13:42	WG2146342
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	10/06/2023 13:42	WG2146342
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/06/2023 13:42	WG2146342
Ethylbenzene	U		0.000137	0.00100	1	10/06/2023 13:42	WG2146342
Isopropylbenzene	U		0.000105	0.00100	1	10/06/2023 13:42	WG2146342
p-Isopropyltoluene	U		0.000120	0.00100	1	10/06/2023 13:42	WG2146342
2-Butanone (MEK)	U		0.00119	0.0100	1	10/06/2023 13:42	WG2146342
2-Hexanone	U		0.000787	0.0100	1	10/06/2023 13:42	WG2146342
Methylene Chloride	U		0.000430	0.00500	1	10/06/2023 13:42	WG2146342
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/06/2023 13:42	WG2146342
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/06/2023 13:42	WG2146342
Naphthalene	U		0.00100	0.00500	1	10/06/2023 13:42	WG2146342
n-Propylbenzene	U		0.0000993	0.00100	1	10/06/2023 13:42	WG2146342
Styrene	U		0.000118	0.00100	1	10/06/2023 13:42	WG2146342
tert-Butyl alcohol	U		0.00406	0.00500	1	10/06/2023 13:42	WG2146342
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	10/06/2023 13:42	WG2146342
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/06/2023 13:42	WG2146342
Tetrachloroethene	U		0.000300	0.00100	1	10/06/2023 13:42	WG2146342
Toluene	U		0.000278	0.00100	1	10/06/2023 13:42	WG2146342
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/06/2023 13:42	WG2146342
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/06/2023 13:42	WG2146342
Trichloroethene	U		0.000190	0.00100	1	10/06/2023 13:42	WG2146342
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/06/2023 13:42	WG2146342
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/06/2023 13:42	WG2146342
Vinyl chloride	U		0.000234	0.00100	1	10/06/2023 13:42	WG2146342
o-Xylene	U		0.000174	0.00100	1	10/06/2023 13:42	WG2146342
m&p-Xylene	U		0.000430	0.00200	1	10/06/2023 13:42	WG2146342
Xylenes, Total	U		0.000174	0.00300	1	10/06/2023 13:42	WG2146342
(S) Toluene-d8	*108*			*80.0-120*		*10/06/2023 13:42*	WG2146342
(S) 4-Bromofluorobenzene	*116*			*77.0-126*		*10/06/2023 13:42*	WG2146342
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*10/06/2023 13:42*	WG2146342

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	10/06/2023 14:03	WG2146342
Benzene	U		0.0000941	0.00100	1	10/06/2023 14:03	WG2146342
Bromodichloromethane	U		0.000136	0.00100	1	10/06/2023 14:03	WG2146342
Bromoform	U		0.000129	0.00100	1	10/06/2023 14:03	WG2146342
Bromomethane	U		0.000605	0.00500	1	10/06/2023 14:03	WG2146342
n-Butylbenzene	U		0.000157	0.00100	1	10/06/2023 14:03	WG2146342
sec-Butylbenzene	U		0.000125	0.00100	1	10/06/2023 14:03	WG2146342
Carbon disulfide	U		0.0000962	0.00100	1	10/06/2023 14:03	WG2146342
Carbon tetrachloride	U		0.000128	0.00100	1	10/06/2023 14:03	WG2146342
Chlorobenzene	U		0.000116	0.00100	1	10/06/2023 14:03	WG2146342
Chlorodibromomethane	U		0.000140	0.00100	1	10/06/2023 14:03	WG2146342
Chloroethane	U		0.000192	0.00500	1	10/06/2023 14:03	WG2146342
Chloroform	U		0.000111	0.00500	1	10/06/2023 14:03	WG2146342
Chloromethane	U		0.000960	0.00250	1	10/06/2023 14:03	WG2146342
1,2-Dibromoethane	U		0.000126	0.00100	1	10/06/2023 14:03	WG2146342
1,1-Dichloroethane	U		0.000100	0.00100	1	10/06/2023 14:03	WG2146342
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/06/2023 14:03	WG2146342
1,1-Dichloroethene	U		0.000188	0.00100	1	10/06/2023 14:03	WG2146342
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/06/2023 14:03	WG2146342
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/06/2023 14:03	WG2146342
1,2-Dichloropropane	U		0.000149	0.00100	1	10/06/2023 14:03	WG2146342
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	10/06/2023 14:03	WG2146342
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/06/2023 14:03	WG2146342
Ethylbenzene	U		0.000137	0.00100	1	10/06/2023 14:03	WG2146342
Isopropylbenzene	U		0.000105	0.00100	1	10/06/2023 14:03	WG2146342
p-Isopropyltoluene	U		0.000120	0.00100	1	10/06/2023 14:03	WG2146342
2-Butanone (MEK)	U		0.00119	0.0100	1	10/06/2023 14:03	WG2146342
2-Hexanone	U		0.000787	0.0100	1	10/06/2023 14:03	WG2146342
Methylene Chloride	U		0.000430	0.00500	1	10/06/2023 14:03	WG2146342
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/06/2023 14:03	WG2146342
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/06/2023 14:03	WG2146342
Naphthalene	U		0.00100	0.00500	1	10/06/2023 14:03	WG2146342
n-Propylbenzene	U		0.0000993	0.00100	1	10/06/2023 14:03	WG2146342
Styrene	U		0.000118	0.00100	1	10/06/2023 14:03	WG2146342
tert-Butyl alcohol	U		0.00406	0.00500	1	10/06/2023 14:03	WG2146342
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	10/06/2023 14:03	WG2146342
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/06/2023 14:03	WG2146342
Tetrachloroethene	U		0.000300	0.00100	1	10/06/2023 14:03	WG2146342
Toluene	U		0.000278	0.00100	1	10/06/2023 14:03	WG2146342
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/06/2023 14:03	WG2146342
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/06/2023 14:03	WG2146342
Trichloroethene	U		0.000190	0.00100	1	10/06/2023 14:03	WG2146342
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/06/2023 14:03	WG2146342
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/06/2023 14:03	WG2146342
Vinyl chloride	U		0.000234	0.00100	1	10/06/2023 14:03	WG2146342
o-Xylene	U		0.000174	0.00100	1	10/06/2023 14:03	WG2146342
m&p-Xylene	U		0.000430	0.00200	1	10/06/2023 14:03	WG2146342
Xylenes, Total	U		0.000174	0.00300	1	10/06/2023 14:03	WG2146342
(S) Toluene-d8	*109*			*80.0-120*		*10/06/2023 14:03*	WG2146342
(S) 4-Bromofluorobenzene	*117*			*77.0-126*		*10/06/2023 14:03*	WG2146342
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*10/06/2023 14:03*	WG2146342

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	2810		50.0	1	10/10/2023 12:15	WG2146078

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		0.00360	0.0100	2	10/05/2023 23:36	WG2144968

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	305		3.79	10.0	10	10/05/2023 11:49	WG2145093
Fluoride	1.25	J	0.640	1.50	10	10/05/2023 11:49	WG2145093
Nitrate	9.24		0.480	1.00	10	10/05/2023 11:49	WG2145093
Nitrite	U		0.420	1.00	10	10/05/2023 11:49	WG2145093
Sulfate	1540		5.94	50.0	10	10/05/2023 11:49	WG2145093

Sample Narrative:

L1662588-38 WG2145093: Dilution due to matrix.

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	10/09/2023 19:35	WG2145023

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	0.538		0.0200	0.200	1	10/10/2023 23:24	WG2145185

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00243		0.000180	0.00200	1	10/17/2023 17:14	WG2145200
Barium	0.0102		0.000381	0.00200	1	10/17/2023 17:14	WG2145200
Cadmium	U		0.000150	0.00100	1	10/17/2023 17:14	WG2145200
Calcium	537		0.0936	1.00	1	10/17/2023 17:14	WG2145200
Chromium	U		0.00124	0.00200	1	10/17/2023 17:14	WG2145200
Cobalt	0.000626	J	0.0000596	0.00200	1	10/17/2023 17:14	WG2145200
Iron	U		0.0281	0.100	1	10/17/2023 17:14	WG2145200
Lead	U		0.000849	0.00200	1	10/17/2023 17:14	WG2145200
Manganese	0.00636		0.000704	0.00500	1	10/17/2023 17:14	WG2145200
Nickel	0.00192	J	0.000816	0.00200	1	10/17/2023 17:14	WG2145200
Potassium	2.18		0.108	2.00	1	10/17/2023 17:14	WG2145200
Selenium	0.00689		0.000300	0.00200	1	10/17/2023 17:14	WG2145200
Sodium	87.0		0.376	2.00	1	10/17/2023 17:14	WG2145200
Uranium	0.0325		0.0000789	0.00100	1	10/17/2023 17:14	WG2145200
Vanadium	0.0143		0.000664	0.00500	1	10/17/2023 17:14	WG2145200

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	10/09/2023 03:40	WG2147502

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)	*109*			*78.0-120*		*10/09/2023 03:40*	WG2147502

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	10/06/2023 19:41	WG2146342
Benzene	U		0.0000941	0.00100	1	10/06/2023 19:41	WG2146342
Bromodichloromethane	U		0.000136	0.00100	1	10/06/2023 19:41	WG2146342
Bromoform	U		0.000129	0.00100	1	10/06/2023 19:41	WG2146342
Bromomethane	U		0.000605	0.00500	1	10/06/2023 19:41	WG2146342
n-Butylbenzene	U		0.000157	0.00100	1	10/06/2023 19:41	WG2146342
sec-Butylbenzene	U		0.000125	0.00100	1	10/06/2023 19:41	WG2146342
Carbon disulfide	U		0.0000962	0.00100	1	10/06/2023 19:41	WG2146342
Carbon tetrachloride	U		0.000128	0.00100	1	10/06/2023 19:41	WG2146342
Chlorobenzene	U		0.000116	0.00100	1	10/06/2023 19:41	WG2146342
Chlorodibromomethane	U		0.000140	0.00100	1	10/06/2023 19:41	WG2146342
Chloroethane	U		0.000192	0.00500	1	10/06/2023 19:41	WG2146342
Chloroform	U		0.000111	0.00500	1	10/06/2023 19:41	WG2146342
Chloromethane	U		0.000960	0.00250	1	10/06/2023 19:41	WG2146342
1,2-Dibromoethane	U		0.000126	0.00100	1	10/06/2023 19:41	WG2146342
1,1-Dichloroethane	U		0.000100	0.00100	1	10/06/2023 19:41	WG2146342
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/06/2023 19:41	WG2146342
1,1-Dichloroethene	U		0.000188	0.00100	1	10/06/2023 19:41	WG2146342
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/06/2023 19:41	WG2146342
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/06/2023 19:41	WG2146342
1,2-Dichloropropane	U		0.000149	0.00100	1	10/06/2023 19:41	WG2146342
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	10/06/2023 19:41	WG2146342
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/06/2023 19:41	WG2146342
Ethylbenzene	U		0.000137	0.00100	1	10/06/2023 19:41	WG2146342
Isopropylbenzene	U		0.000105	0.00100	1	10/06/2023 19:41	WG2146342
p-Isopropyltoluene	U		0.000120	0.00100	1	10/06/2023 19:41	WG2146342
2-Butanone (MEK)	U		0.00119	0.0100	1	10/06/2023 19:41	WG2146342
2-Hexanone	U		0.000787	0.0100	1	10/06/2023 19:41	WG2146342
Methylene Chloride	U		0.000430	0.00500	1	10/06/2023 19:41	WG2146342
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/06/2023 19:41	WG2146342
Methyl tert-butyl ether	0.000290	J	0.000101	0.00100	1	10/06/2023 19:41	WG2146342
Naphthalene	U		0.00100	0.00500	1	10/06/2023 19:41	WG2146342
n-Propylbenzene	U		0.0000993	0.00100	1	10/06/2023 19:41	WG2146342
Styrene	U		0.000118	0.00100	1	10/06/2023 19:41	WG2146342
tert-Butyl alcohol	U		0.00406	0.00500	1	10/06/2023 19:41	WG2146342
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	10/06/2023 19:41	WG2146342
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/06/2023 19:41	WG2146342
Tetrachloroethene	U		0.000300	0.00100	1	10/06/2023 19:41	WG2146342
Toluene	U		0.000278	0.00100	1	10/06/2023 19:41	WG2146342
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/06/2023 19:41	WG2146342
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/06/2023 19:41	WG2146342
Trichloroethene	U		0.000190	0.00100	1	10/06/2023 19:41	WG2146342
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/06/2023 19:41	WG2146342
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/06/2023 19:41	WG2146342
Vinyl chloride	U		0.000234	0.00100	1	10/06/2023 19:41	WG2146342
o-Xylene	U		0.000174	0.00100	1	10/06/2023 19:41	WG2146342
m&p-Xylene	U		0.000430	0.00200	1	10/06/2023 19:41	WG2146342
Xylenes, Total	U		0.000174	0.00300	1	10/06/2023 19:41	WG2146342
(S) Toluene-d8	*107*			*80.0-120*		*10/06/2023 19:41*	WG2146342
(S) 4-Bromofluorobenzene	*115*			*77.0-126*		*10/06/2023 19:41*	WG2146342

MW-136
Collected date/time: 10/03/23 12:25
L1662588

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	*106*			*70.0-130*		*10/06/2023 19:41*	WG2146342

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	10/13/2023 16:24	WG2148862
(S) o-Terphenyl	*51.4*			*31.0-160*		*10/13/2023 16:24*	WG2148862

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	3220		50.0	1	10/10/2023 12:15	WG2146078

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	255		3.79	10.0	10	10/05/2023 14:09	WG2145093
Fluoride	0.861	J	0.640	1.50	10	10/05/2023 14:09	WG2145093
Nitrate	1.79	Q	0.480	1.00	10	10/05/2023 14:09	WG2145093
Nitrite	U	Q	0.420	1.00	10	10/05/2023 14:09	WG2145093
Sulfate	1760		59.4	500	100	10/05/2023 21:13	WG2145093

Sample Narrative:

L1662588-39 WG2145093: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00371		0.000180	0.00200	1	10/17/2023 17:24	WG2145200
Barium	0.00887		0.000381	0.00200	1	10/17/2023 17:24	WG2145200
Calcium	522		0.0936	1.00	1	10/17/2023 17:24	WG2145200
Chromium	U		0.00124	0.00200	1	10/17/2023 17:24	WG2145200
Iron	U		0.0281	0.100	1	10/17/2023 17:24	WG2145200
Lead	U		0.000849	0.00200	1	10/17/2023 17:24	WG2145200
Manganese	0.0425		0.000704	0.00500	1	10/17/2023 17:24	WG2145200
Potassium	2.25		0.108	2.00	1	10/17/2023 17:24	WG2145200
Selenium	0.00283		0.000300	0.00200	1	10/17/2023 17:24	WG2145200
Sodium	192		0.376	2.00	1	10/17/2023 17:24	WG2145200

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	10/09/2023 04:02	WG2147502
(S) a,a,a-Trifluorotoluene(FID)	*109*			*78.0-120*		*10/09/2023 04:02*	WG2147502

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	10/06/2023 20:02	WG2146342
Benzene	U		0.0000941	0.00100	1	10/06/2023 20:02	WG2146342
Bromodichloromethane	U		0.000136	0.00100	1	10/06/2023 20:02	WG2146342
Bromoform	U		0.000129	0.00100	1	10/06/2023 20:02	WG2146342
Bromomethane	U		0.000605	0.00500	1	10/06/2023 20:02	WG2146342
n-Butylbenzene	U		0.000157	0.00100	1	10/06/2023 20:02	WG2146342
sec-Butylbenzene	U		0.000125	0.00100	1	10/06/2023 20:02	WG2146342
Carbon disulfide	U		0.0000962	0.00100	1	10/06/2023 20:02	WG2146342
Carbon tetrachloride	U		0.000128	0.00100	1	10/06/2023 20:02	WG2146342
Chlorobenzene	U		0.000116	0.00100	1	10/06/2023 20:02	WG2146342
Chlorodibromomethane	U		0.000140	0.00100	1	10/06/2023 20:02	WG2146342
Chloroethane	U		0.000192	0.00500	1	10/06/2023 20:02	WG2146342
Chloroform	U		0.000111	0.00500	1	10/06/2023 20:02	WG2146342
Chloromethane	U		0.000960	0.00250	1	10/06/2023 20:02	WG2146342
1,2-Dibromoethane	U		0.000126	0.00100	1	10/06/2023 20:02	WG2146342
1,1-Dichloroethane	U		0.000100	0.00100	1	10/06/2023 20:02	WG2146342

MW-126B
Collected date/time: 10/03/23 13:15
L1662588

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	10/06/2023 20:02	WG2146342
1,1-Dichloroethene	U		0.000188	0.00100	1	10/06/2023 20:02	WG2146342
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/06/2023 20:02	WG2146342
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/06/2023 20:02	WG2146342
1,2-Dichloropropane	U		0.000149	0.00100	1	10/06/2023 20:02	WG2146342
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	10/06/2023 20:02	WG2146342
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/06/2023 20:02	WG2146342
Ethylbenzene	U		0.000137	0.00100	1	10/06/2023 20:02	WG2146342
Isopropylbenzene	U		0.000105	0.00100	1	10/06/2023 20:02	WG2146342
p-Isopropyltoluene	U		0.000120	0.00100	1	10/06/2023 20:02	WG2146342
2-Butanone (MEK)	U		0.00119	0.0100	1	10/06/2023 20:02	WG2146342
2-Hexanone	U		0.000787	0.0100	1	10/06/2023 20:02	WG2146342
Methylene Chloride	U		0.000430	0.00500	1	10/06/2023 20:02	WG2146342
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/06/2023 20:02	WG2146342
Methyl tert-butyl ether	0.000214	J	0.000101	0.00100	1	10/06/2023 20:02	WG2146342
Naphthalene	U		0.00100	0.00500	1	10/06/2023 20:02	WG2146342
n-Propylbenzene	U		0.0000993	0.00100	1	10/06/2023 20:02	WG2146342
Styrene	U		0.000118	0.00100	1	10/06/2023 20:02	WG2146342
tert-Butyl alcohol	U		0.00406	0.00500	1	10/06/2023 20:02	WG2146342
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	10/06/2023 20:02	WG2146342
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/06/2023 20:02	WG2146342
Tetrachloroethene	U		0.000300	0.00100	1	10/06/2023 20:02	WG2146342
Toluene	U		0.000278	0.00100	1	10/06/2023 20:02	WG2146342
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/06/2023 20:02	WG2146342
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/06/2023 20:02	WG2146342
Trichloroethene	U		0.000190	0.00100	1	10/06/2023 20:02	WG2146342
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/06/2023 20:02	WG2146342
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/06/2023 20:02	WG2146342
Vinyl chloride	U		0.000234	0.00100	1	10/06/2023 20:02	WG2146342
o-Xylene	U		0.000174	0.00100	1	10/06/2023 20:02	WG2146342
m&p-Xylene	U		0.000430	0.00200	1	10/06/2023 20:02	WG2146342
Xylenes, Total	U		0.000174	0.00300	1	10/06/2023 20:02	WG2146342
(S) Toluene-d8	*107*			*80.0-120*		*10/06/2023 20:02*	WG2146342
(S) 4-Bromofluorobenzene	*116*			*77.0-126*		*10/06/2023 20:02*	WG2146342
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*10/06/2023 20:02*	WG2146342

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	10/13/2023 20:40	WG2148862
(S) o-Terphenyl	*62.6*			*31.0-160*		*10/13/2023 20:40*	WG2148862

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3100		50.0	1	10/10/2023 12:15	WG2146078

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	10/05/2023 23:37	WG2144968

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	201		3.79	10.0	10	10/05/2023 18:15	WG2145093
Fluoride	1.01	J	0.640	1.50	10	10/05/2023 18:15	WG2145093
Nitrate	U	Q	0.480	1.00	10	10/05/2023 18:15	WG2145093
Nitrite	U	Q	0.420	1.00	10	10/05/2023 18:15	WG2145093
Sulfate	1910		5.94	50.0	10	10/05/2023 18:15	WG2145093

Sample Narrative:

L1662588-40 WG2145093: Dilution due to matrix.

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	10/09/2023 19:38	WG2145023

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	0.723		0.0200	0.200	1	10/10/2023 23:28	WG2145185

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00332		0.000180	0.00200	1	10/17/2023 17:27	WG2145200
Barium	0.00888		0.000381	0.00200	1	10/17/2023 17:27	WG2145200
Cadmium	U		0.000150	0.00100	1	10/17/2023 17:27	WG2145200
Calcium	433		0.0936	1.00	1	10/17/2023 17:27	WG2145200
Chromium	U		0.00124	0.00200	1	10/17/2023 17:27	WG2145200
Cobalt	0.00590		0.0000596	0.00200	1	10/17/2023 17:27	WG2145200
Iron	0.0754	J	0.0281	0.100	1	10/17/2023 17:27	WG2145200
Lead	U		0.000849	0.00200	1	10/17/2023 17:27	WG2145200
Manganese	0.376		0.000704	0.00500	1	10/17/2023 17:27	WG2145200
Nickel	0.00718		0.000816	0.00200	1	10/17/2023 17:27	WG2145200
Potassium	0.860	J	0.108	2.00	1	10/17/2023 17:27	WG2145200
Selenium	U		0.000300	0.00200	1	10/17/2023 17:27	WG2145200
Sodium	216		0.376	2.00	1	10/17/2023 17:27	WG2145200
Uranium	0.00862		0.0000789	0.00100	1	10/17/2023 17:27	WG2145200
Vanadium	0.0173		0.000664	0.00500	1	10/17/2023 17:27	WG2145200

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	10/06/2023 20:23	WG2146342
Benzene	0.000717	J	0.0000941	0.00100	1	10/06/2023 20:23	WG2146342
Bromodichloromethane	U		0.000136	0.00100	1	10/06/2023 20:23	WG2146342
Bromoform	U		0.000129	0.00100	1	10/06/2023 20:23	WG2146342
Bromomethane	U		0.000605	0.00500	1	10/06/2023 20:23	WG2146342
n-Butylbenzene	U		0.000157	0.00100	1	10/06/2023 20:23	WG2146342
sec-Butylbenzene	0.00130		0.000125	0.00100	1	10/06/2023 20:23	WG2146342
Carbon disulfide	U		0.0000962	0.00100	1	10/06/2023 20:23	WG2146342
Carbon tetrachloride	U		0.000128	0.00100	1	10/06/2023 20:23	WG2146342
Chlorobenzene	U		0.000116	0.00100	1	10/06/2023 20:23	WG2146342
Chlorodibromomethane	U		0.000140	0.00100	1	10/06/2023 20:23	WG2146342
Chloroethane	U		0.000192	0.00500	1	10/06/2023 20:23	WG2146342
Chloroform	U		0.000111	0.00500	1	10/06/2023 20:23	WG2146342
Chloromethane	U		0.000960	0.00250	1	10/06/2023 20:23	WG2146342
1,2-Dibromoethane	U		0.000126	0.00100	1	10/06/2023 20:23	WG2146342
1,1-Dichloroethane	U		0.000100	0.00100	1	10/06/2023 20:23	WG2146342
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/06/2023 20:23	WG2146342
1,1-Dichloroethene	U		0.000188	0.00100	1	10/06/2023 20:23	WG2146342
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/06/2023 20:23	WG2146342
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/06/2023 20:23	WG2146342
1,2-Dichloropropane	U		0.000149	0.00100	1	10/06/2023 20:23	WG2146342
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	10/06/2023 20:23	WG2146342
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/06/2023 20:23	WG2146342
Ethylbenzene	0.00145		0.000137	0.00100	1	10/06/2023 20:23	WG2146342
Isopropylbenzene	0.00283		0.000105	0.00100	1	10/06/2023 20:23	WG2146342
p-Isopropyltoluene	U		0.000120	0.00100	1	10/06/2023 20:23	WG2146342
2-Butanone (MEK)	U		0.00119	0.0100	1	10/06/2023 20:23	WG2146342
2-Hexanone	U		0.000787	0.0100	1	10/06/2023 20:23	WG2146342
Methylene Chloride	U		0.000430	0.00500	1	10/06/2023 20:23	WG2146342
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/06/2023 20:23	WG2146342
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/06/2023 20:23	WG2146342
Naphthalene	0.00328	J	0.00100	0.00500	1	10/06/2023 20:23	WG2146342
n-Propylbenzene	0.00180		0.0000993	0.00100	1	10/06/2023 20:23	WG2146342
Styrene	U		0.000118	0.00100	1	10/06/2023 20:23	WG2146342
tert-Butyl alcohol	U		0.00406	0.00500	1	10/06/2023 20:23	WG2146342
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	10/06/2023 20:23	WG2146342
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/06/2023 20:23	WG2146342
Tetrachloroethene	U		0.000300	0.00100	1	10/06/2023 20:23	WG2146342
Toluene	U		0.000278	0.00100	1	10/06/2023 20:23	WG2146342
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/06/2023 20:23	WG2146342
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/06/2023 20:23	WG2146342
Trichloroethene	U		0.000190	0.00100	1	10/06/2023 20:23	WG2146342
1,2,4-Trimethylbenzene	0.0335		0.000322	0.00100	1	10/06/2023 20:23	WG2146342
1,3,5-Trimethylbenzene	0.00505		0.000104	0.00100	1	10/06/2023 20:23	WG2146342
Vinyl chloride	U		0.000234	0.00100	1	10/06/2023 20:23	WG2146342
o-Xylene	0.000468	J	0.000174	0.00100	1	10/06/2023 20:23	WG2146342
m&p-Xylene	0.0264		0.000430	0.00200	1	10/06/2023 20:23	WG2146342
Xylenes, Total	0.0269		0.000174	0.00300	1	10/06/2023 20:23	WG2146342
(S) Toluene-d8	*104*			*80.0-120*		*10/06/2023 20:23*	WG2146342
(S) 4-Bromofluorobenzene	*115*			*77.0-126*		*10/06/2023 20:23*	WG2146342
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*10/06/2023 20:23*	WG2146342

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	0.109		0.0247	0.100	1	10/13/2023 21:05	WG2148862

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	*63.7*			*31.0-160*		*10/13/2023 21:05*	WG2148862

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2990		50.0	1	10/10/2023 12:15	WG2146078

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		0.00360	0.0100	2	10/05/2023 23:42	WG2144968

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	173		3.79	10.0	10	10/05/2023 07:09	WG2145066
Fluoride	U		0.640	1.50	10	10/05/2023 07:09	WG2145066
Nitrate	6.46		0.480	1.00	10	10/05/2023 07:09	WG2145066
Nitrite	U		0.420	1.00	10	10/05/2023 07:09	WG2145066
Sulfate	1930		59.4	500	100	10/05/2023 12:58	WG2145066

Sample Narrative:

L1662588-41 WG2145066: Dilution due to matrix.

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	10/09/2023 19:40	WG2145023

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	0.512		0.0200	0.200	1	10/10/2023 23:31	WG2145185

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	10/17/2023 17:30	WG2145200
Barium	0.0163		0.000381	0.00200	1	10/17/2023 17:30	WG2145200
Cadmium	U		0.000150	0.00100	1	10/17/2023 17:30	WG2145200
Calcium	514		0.0936	1.00	1	10/17/2023 17:30	WG2145200
Chromium	U		0.00124	0.00200	1	10/17/2023 17:30	WG2145200
Cobalt	0.0000671	J	0.0000596	0.00200	1	10/17/2023 17:30	WG2145200
Iron	U		0.0281	0.100	1	10/17/2023 17:30	WG2145200
Lead	U		0.000849	0.00200	1	10/17/2023 17:30	WG2145200
Manganese	0.000943	J	0.000704	0.00500	1	10/17/2023 17:30	WG2145200
Nickel	U		0.000816	0.00200	1	10/17/2023 17:30	WG2145200
Potassium	1.09	J	0.108	2.00	1	10/17/2023 17:30	WG2145200
Selenium	0.00301		0.000300	0.00200	1	10/17/2023 17:30	WG2145200
Sodium	178		0.376	2.00	1	10/17/2023 17:30	WG2145200
Uranium	0.0229		0.0000789	0.00100	1	10/17/2023 17:30	WG2145200
Vanadium	0.0150		0.000664	0.00500	1	10/17/2023 17:30	WG2145200

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	10/08/2023 23:24	WG2147504

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)	*105*			*78.0-120*		*10/08/2023 23:24*	WG2147504

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	10/06/2023 20:44	WG2146342
Benzene	U		0.0000941	0.00100	1	10/06/2023 20:44	WG2146342
Bromodichloromethane	U		0.000136	0.00100	1	10/06/2023 20:44	WG2146342
Bromoform	U		0.000129	0.00100	1	10/06/2023 20:44	WG2146342
Bromomethane	U		0.000605	0.00500	1	10/06/2023 20:44	WG2146342
n-Butylbenzene	U		0.000157	0.00100	1	10/06/2023 20:44	WG2146342
sec-Butylbenzene	U		0.000125	0.00100	1	10/06/2023 20:44	WG2146342
Carbon disulfide	U		0.0000962	0.00100	1	10/06/2023 20:44	WG2146342
Carbon tetrachloride	U		0.000128	0.00100	1	10/06/2023 20:44	WG2146342
Chlorobenzene	U		0.000116	0.00100	1	10/06/2023 20:44	WG2146342
Chlorodibromomethane	U		0.000140	0.00100	1	10/06/2023 20:44	WG2146342
Chloroethane	U		0.000192	0.00500	1	10/06/2023 20:44	WG2146342
Chloroform	U		0.000111	0.00500	1	10/06/2023 20:44	WG2146342
Chloromethane	U		0.000960	0.00250	1	10/06/2023 20:44	WG2146342
1,2-Dibromoethane	U		0.000126	0.00100	1	10/06/2023 20:44	WG2146342
1,1-Dichloroethane	U		0.000100	0.00100	1	10/06/2023 20:44	WG2146342
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/06/2023 20:44	WG2146342
1,1-Dichloroethene	U		0.000188	0.00100	1	10/06/2023 20:44	WG2146342
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/06/2023 20:44	WG2146342
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/06/2023 20:44	WG2146342
1,2-Dichloropropane	U		0.000149	0.00100	1	10/06/2023 20:44	WG2146342
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	10/06/2023 20:44	WG2146342
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/06/2023 20:44	WG2146342
Ethylbenzene	U		0.000137	0.00100	1	10/06/2023 20:44	WG2146342
Isopropylbenzene	U		0.000105	0.00100	1	10/06/2023 20:44	WG2146342
p-Isopropyltoluene	U		0.000120	0.00100	1	10/06/2023 20:44	WG2146342
2-Butanone (MEK)	U		0.00119	0.0100	1	10/06/2023 20:44	WG2146342
2-Hexanone	U		0.000787	0.0100	1	10/06/2023 20:44	WG2146342
Methylene Chloride	U		0.000430	0.00500	1	10/06/2023 20:44	WG2146342
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/06/2023 20:44	WG2146342
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/06/2023 20:44	WG2146342
Naphthalene	U		0.00100	0.00500	1	10/06/2023 20:44	WG2146342
n-Propylbenzene	U		0.0000993	0.00100	1	10/06/2023 20:44	WG2146342
Styrene	U		0.000118	0.00100	1	10/06/2023 20:44	WG2146342
tert-Butyl alcohol	U		0.00406	0.00500	1	10/06/2023 20:44	WG2146342
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	10/06/2023 20:44	WG2146342
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/06/2023 20:44	WG2146342
Tetrachloroethene	U		0.000300	0.00100	1	10/06/2023 20:44	WG2146342
Toluene	U		0.000278	0.00100	1	10/06/2023 20:44	WG2146342
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/06/2023 20:44	WG2146342
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/06/2023 20:44	WG2146342
Trichloroethene	U		0.000190	0.00100	1	10/06/2023 20:44	WG2146342
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/06/2023 20:44	WG2146342
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/06/2023 20:44	WG2146342
Vinyl chloride	U		0.000234	0.00100	1	10/06/2023 20:44	WG2146342
o-Xylene	U		0.000174	0.00100	1	10/06/2023 20:44	WG2146342
m&p-Xylene	U		0.000430	0.00200	1	10/06/2023 20:44	WG2146342
Xylenes, Total	U		0.000174	0.00300	1	10/06/2023 20:44	WG2146342
(S) Toluene-d8	*107*			*80.0-120*		*10/06/2023 20:44*	WG2146342
(S) 4-Bromofluorobenzene	*114*			*77.0-126*		*10/06/2023 20:44*	WG2146342

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

KWB-12A
Collected date/time: 10/03/23 10:35
L1662588

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	*105*			*70.0-130*		*10/06/2023 20:44*	WG2146342

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	10/13/2023 14:16	WG2148863
(S) o-Terphenyl	*78.4*			*31.0-160*		*10/13/2023 14:16*	WG2148863

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	10/10/2023 12:15	WG2146078

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		0.00360	0.0100	2	10/05/2023 23:43	WG2144968

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	150		3.79	10.0	10	10/05/2023 02:30	WG2145090
Fluoride	0.683	J	0.640	1.50	10	10/05/2023 02:30	WG2145090
Nitrate	10.4		0.480	1.00	10	10/05/2023 02:30	WG2145090
Nitrite	U		0.420	1.00	10	10/05/2023 02:30	WG2145090
Sulfate	1980		59.4	500	100	10/05/2023 07:20	WG2145090

Sample Narrative:

L1662588-42 WG2145090: Dilution due to matrix.

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	10/09/2023 19:42	WG2145023

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	0.633		0.0200	0.200	1	10/10/2023 23:34	WG2145185

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00196	J	0.000180	0.00200	1	10/17/2023 17:33	WG2145200
Barium	0.0155		0.000381	0.00200	1	10/17/2023 17:33	WG2145200
Cadmium	U		0.000150	0.00100	1	10/17/2023 17:33	WG2145200
Calcium	520		0.0936	1.00	1	10/17/2023 17:33	WG2145200
Chromium	U		0.00124	0.00200	1	10/17/2023 17:33	WG2145200
Cobalt	U		0.0000596	0.00200	1	10/17/2023 17:33	WG2145200
Iron	U		0.0281	0.100	1	10/17/2023 17:33	WG2145200
Lead	U		0.000849	0.00200	1	10/17/2023 17:33	WG2145200
Manganese	U		0.000704	0.00500	1	10/17/2023 17:33	WG2145200
Nickel	U		0.000816	0.00200	1	10/17/2023 17:33	WG2145200
Potassium	0.613	J	0.108	2.00	1	10/17/2023 17:33	WG2145200
Selenium	0.00364		0.000300	0.00200	1	10/17/2023 17:33	WG2145200
Sodium	160		0.376	2.00	1	10/17/2023 17:33	WG2145200
Uranium	0.0277		0.0000789	0.00100	1	10/17/2023 17:33	WG2145200
Vanadium	0.0146		0.000664	0.00500	1	10/17/2023 17:33	WG2145200

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	10/08/2023 23:46	WG2147504

Received by OCD: 6/12/2024 3:31:05 PM

KWD-12B
Collected date/time: 10/03/23 11:20
L1662588

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)	*105*			*78.0-120*		*10/08/2023 23:46*	WG2147504

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	10/06/2023 21:05	WG2146342
Benzene	U		0.0000941	0.00100	1	10/06/2023 21:05	WG2146342
Bromodichloromethane	U		0.000136	0.00100	1	10/06/2023 21:05	WG2146342
Bromoform	U		0.000129	0.00100	1	10/06/2023 21:05	WG2146342
Bromomethane	U		0.000605	0.00500	1	10/06/2023 21:05	WG2146342
n-Butylbenzene	U		0.000157	0.00100	1	10/06/2023 21:05	WG2146342
sec-Butylbenzene	U		0.000125	0.00100	1	10/06/2023 21:05	WG2146342
Carbon disulfide	U		0.0000962	0.00100	1	10/06/2023 21:05	WG2146342
Carbon tetrachloride	U		0.000128	0.00100	1	10/06/2023 21:05	WG2146342
Chlorobenzene	U		0.000116	0.00100	1	10/06/2023 21:05	WG2146342
Chlorodibromomethane	U		0.000140	0.00100	1	10/06/2023 21:05	WG2146342
Chloroethane	U		0.000192	0.00500	1	10/06/2023 21:05	WG2146342
Chloroform	U		0.000111	0.00500	1	10/06/2023 21:05	WG2146342
Chloromethane	U		0.000960	0.00250	1	10/06/2023 21:05	WG2146342
1,2-Dibromoethane	U		0.000126	0.00100	1	10/06/2023 21:05	WG2146342
1,1-Dichloroethane	U		0.000100	0.00100	1	10/06/2023 21:05	WG2146342
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/06/2023 21:05	WG2146342
1,1-Dichloroethene	U		0.000188	0.00100	1	10/06/2023 21:05	WG2146342
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/06/2023 21:05	WG2146342
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/06/2023 21:05	WG2146342
1,2-Dichloropropane	U		0.000149	0.00100	1	10/06/2023 21:05	WG2146342
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	10/06/2023 21:05	WG2146342
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/06/2023 21:05	WG2146342
Ethylbenzene	U		0.000137	0.00100	1	10/06/2023 21:05	WG2146342
Isopropylbenzene	U		0.000105	0.00100	1	10/06/2023 21:05	WG2146342
p-Isopropyltoluene	U		0.000120	0.00100	1	10/06/2023 21:05	WG2146342
2-Butanone (MEK)	U		0.00119	0.0100	1	10/06/2023 21:05	WG2146342
2-Hexanone	U		0.000787	0.0100	1	10/06/2023 21:05	WG2146342
Methylene Chloride	U		0.000430	0.00500	1	10/06/2023 21:05	WG2146342
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/06/2023 21:05	WG2146342
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/06/2023 21:05	WG2146342
Naphthalene	U		0.00100	0.00500	1	10/06/2023 21:05	WG2146342
n-Propylbenzene	U		0.0000993	0.00100	1	10/06/2023 21:05	WG2146342
Styrene	U		0.000118	0.00100	1	10/06/2023 21:05	WG2146342
tert-Butyl alcohol	U		0.00406	0.00500	1	10/06/2023 21:05	WG2146342
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	10/06/2023 21:05	WG2146342
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/06/2023 21:05	WG2146342
Tetrachloroethene	U		0.000300	0.00100	1	10/06/2023 21:05	WG2146342
Toluene	U		0.000278	0.00100	1	10/06/2023 21:05	WG2146342
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/06/2023 21:05	WG2146342
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/06/2023 21:05	WG2146342
Trichloroethene	U		0.000190	0.00100	1	10/06/2023 21:05	WG2146342
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/06/2023 21:05	WG2146342
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/06/2023 21:05	WG2146342
Vinyl chloride	U		0.000234	0.00100	1	10/06/2023 21:05	WG2146342
o-Xylene	U		0.000174	0.00100	1	10/06/2023 21:05	WG2146342
m&p-Xylene	U		0.000430	0.00200	1	10/06/2023 21:05	WG2146342
Xylenes, Total	U		0.000174	0.00300	1	10/06/2023 21:05	WG2146342
(S) Toluene-d8	*107*			*80.0-120*		*10/06/2023 21:05*	WG2146342
(S) 4-Bromofluorobenzene	*116*			*77.0-126*		*10/06/2023 21:05*	WG2146342

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Released to Imaging: 6/28/2024 11:23:28 AM

KWD-12B
Collected date/time: 10/03/23 11:20
L1662588

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	*105*			*70.0-130*		*10/06/2023 21:05*	WG2146342

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	10/13/2023 14:36	WG2148863
(S) o-Terphenyl	*76.8*			*31.0-160*		*10/13/2023 14:36*	WG2148863

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3040		50.0	1	10/10/2023 12:15	WG2146078

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		0.00360	0.0100	2	10/05/2023 23:48	WG2144968

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	148		3.79	10.0	10	10/05/2023 02:43	WG2145090
Fluoride	U		0.640	1.50	10	10/05/2023 02:43	WG2145090
Nitrate	9.14		0.480	1.00	10	10/05/2023 02:43	WG2145090
Nitrite	U		0.420	1.00	10	10/05/2023 02:43	WG2145090
Sulfate	1960		59.4	500	100	10/05/2023 07:33	WG2145090

Sample Narrative:

L1662588-43 WG2145090: Dilution due to matrix.

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	10/09/2023 19:45	WG2145023

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	0.615		0.0200	0.200	1	10/10/2023 23:37	WG2145185

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00196	J	0.000180	0.00200	1	10/17/2023 17:37	WG2145200
Barium	0.0150		0.000381	0.00200	1	10/17/2023 17:37	WG2145200
Cadmium	U		0.000150	0.00100	1	10/17/2023 17:37	WG2145200
Calcium	519		0.0936	1.00	1	10/17/2023 17:37	WG2145200
Chromium	U		0.00124	0.00200	1	10/17/2023 17:37	WG2145200
Cobalt	0.0000655	J	0.0000596	0.00200	1	10/17/2023 17:37	WG2145200
Iron	U		0.0281	0.100	1	10/17/2023 17:37	WG2145200
Lead	U		0.000849	0.00200	1	10/17/2023 17:37	WG2145200
Manganese	U		0.000704	0.00500	1	10/17/2023 17:37	WG2145200
Nickel	U		0.000816	0.00200	1	10/17/2023 17:37	WG2145200
Potassium	0.596	J	0.108	2.00	1	10/17/2023 17:37	WG2145200
Selenium	0.00338		0.000300	0.00200	1	10/17/2023 17:37	WG2145200
Sodium	162		0.376	2.00	1	10/17/2023 17:37	WG2145200
Uranium	0.0279		0.0000789	0.00100	1	10/17/2023 17:37	WG2145200
Vanadium	0.0147		0.000664	0.00500	1	10/17/2023 17:37	WG2145200

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	10/09/2023 00:08	WG2147504

Received by OCD: 6/12/2024 3:31:05 PM

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)	*105*			*78.0-120*		*10/09/2023 00:08*	WG2147504

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	10/06/2023 21:26	WG2146342
Benzene	U		0.0000941	0.00100	1	10/06/2023 21:26	WG2146342
Bromodichloromethane	U		0.000136	0.00100	1	10/06/2023 21:26	WG2146342
Bromoform	U		0.000129	0.00100	1	10/06/2023 21:26	WG2146342
Bromomethane	U		0.000605	0.00500	1	10/06/2023 21:26	WG2146342
n-Butylbenzene	U		0.000157	0.00100	1	10/06/2023 21:26	WG2146342
sec-Butylbenzene	U		0.000125	0.00100	1	10/06/2023 21:26	WG2146342
Carbon disulfide	U		0.0000962	0.00100	1	10/06/2023 21:26	WG2146342
Carbon tetrachloride	U		0.000128	0.00100	1	10/06/2023 21:26	WG2146342
Chlorobenzene	U		0.000116	0.00100	1	10/06/2023 21:26	WG2146342
Chlorodibromomethane	U		0.000140	0.00100	1	10/06/2023 21:26	WG2146342
Chloroethane	U		0.000192	0.00500	1	10/06/2023 21:26	WG2146342
Chloroform	U		0.000111	0.00500	1	10/06/2023 21:26	WG2146342
Chloromethane	U		0.000960	0.00250	1	10/06/2023 21:26	WG2146342
1,2-Dibromoethane	U		0.000126	0.00100	1	10/06/2023 21:26	WG2146342
1,1-Dichloroethane	U		0.000100	0.00100	1	10/06/2023 21:26	WG2146342
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/06/2023 21:26	WG2146342
1,1-Dichloroethene	U		0.000188	0.00100	1	10/06/2023 21:26	WG2146342
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/06/2023 21:26	WG2146342
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/06/2023 21:26	WG2146342
1,2-Dichloropropane	U		0.000149	0.00100	1	10/06/2023 21:26	WG2146342
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	10/06/2023 21:26	WG2146342
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/06/2023 21:26	WG2146342
Ethylbenzene	U		0.000137	0.00100	1	10/06/2023 21:26	WG2146342
Isopropylbenzene	U		0.000105	0.00100	1	10/06/2023 21:26	WG2146342
p-Isopropyltoluene	U		0.000120	0.00100	1	10/06/2023 21:26	WG2146342
2-Butanone (MEK)	U		0.00119	0.0100	1	10/06/2023 21:26	WG2146342
2-Hexanone	U		0.000787	0.0100	1	10/06/2023 21:26	WG2146342
Methylene Chloride	U		0.000430	0.00500	1	10/06/2023 21:26	WG2146342
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/06/2023 21:26	WG2146342
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/06/2023 21:26	WG2146342
Naphthalene	U		0.00100	0.00500	1	10/06/2023 21:26	WG2146342
n-Propylbenzene	U		0.0000993	0.00100	1	10/06/2023 21:26	WG2146342
Styrene	U		0.000118	0.00100	1	10/06/2023 21:26	WG2146342
tert-Butyl alcohol	U		0.00406	0.00500	1	10/06/2023 21:26	WG2146342
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	10/06/2023 21:26	WG2146342
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/06/2023 21:26	WG2146342
Tetrachloroethene	U		0.000300	0.00100	1	10/06/2023 21:26	WG2146342
Toluene	U		0.000278	0.00100	1	10/06/2023 21:26	WG2146342
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/06/2023 21:26	WG2146342
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/06/2023 21:26	WG2146342
Trichloroethene	U		0.000190	0.00100	1	10/06/2023 21:26	WG2146342
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/06/2023 21:26	WG2146342
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/06/2023 21:26	WG2146342
Vinyl chloride	U		0.000234	0.00100	1	10/06/2023 21:26	WG2146342
o-Xylene	U		0.000174	0.00100	1	10/06/2023 21:26	WG2146342
m&p-Xylene	U		0.000430	0.00200	1	10/06/2023 21:26	WG2146342
Xylenes, Total	U		0.000174	0.00300	1	10/06/2023 21:26	WG2146342
(S) Toluene-d8	*107*			*80.0-120*		*10/06/2023 21:26*	WG2146342
(S) 4-Bromofluorobenzene	*116*			*77.0-126*		*10/06/2023 21:26*	WG2146342

1 Cp 2 Tc 3 Ss 4 Cn 5 Sr 6 Qc 7 Gl 8 Al 9 Sc

Released to Imaging: 6/28/2024 11:23:28 AM

DUP-REST-05
Collected date/time: 10/03/23 12:00
L1662588

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	*103*			*70.0-130*		*10/06/2023 21:26*	WG2146342

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	10/13/2023 14:56	WG2148863
(S) o-Terphenyl	*80.0*			*31.0-160*		*10/13/2023 14:56*	WG2148863

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	35.0		10.0	1	10/10/2023 12:15	WG2146078

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	10/05/2023 23:49	WG2144968

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	10.7		0.379	1.00	1	10/05/2023 02:56	WG2145090
Fluoride	0.201		0.0640	0.150	1	10/05/2023 02:56	WG2145090
Nitrate	0.0646	J	0.0480	0.100	1	10/05/2023 02:56	WG2145090
Nitrite	U		0.0420	0.100	1	10/05/2023 02:56	WG2145090
Sulfate	1.52	J	0.594	5.00	1	10/05/2023 02:56	WG2145090

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	10/09/2023 19:47	WG2145023

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	10/10/2023 22:31	WG2145185

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	10/17/2023 17:40	WG2145200
Barium	0.00115	J	0.000381	0.00200	1	10/17/2023 17:40	WG2145200
Cadmium	U		0.000150	0.00100	1	10/17/2023 17:40	WG2145200
Calcium	1.63		0.0936	1.00	1	10/17/2023 17:40	WG2145200
Chromium	U		0.00124	0.00200	1	10/17/2023 17:40	WG2145200
Cobalt	U		0.0000596	0.00200	1	10/17/2023 17:40	WG2145200
Iron	U		0.0281	0.100	1	10/17/2023 17:40	WG2145200
Lead	U		0.000849	0.00200	1	10/17/2023 17:40	WG2145200
Manganese	U		0.000704	0.00500	1	10/17/2023 17:40	WG2145200
Nickel	U		0.000816	0.00200	1	10/17/2023 17:40	WG2145200
Potassium	1.34	J	0.108	2.00	1	10/17/2023 17:40	WG2145200
Selenium	U		0.000300	0.00200	1	10/17/2023 17:40	WG2145200
Sodium	9.45		0.376	2.00	1	10/17/2023 17:40	WG2145200
Uranium	U		0.0000789	0.00100	1	10/17/2023 17:40	WG2145200
Vanadium	U		0.000664	0.00500	1	10/17/2023 17:40	WG2145200

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	10/08/2023 22:40	WG2147504
(S) a,a,a-Trifluorotoluene(FID)	*104*			*78.0-120*		*10/08/2023 22:40*	WG2147504

Received by OCD: 6/12/2024 3:31:05 PM

LB-REST-05 SAMPLE RESULTS - 44

Collected date/time: 10/03/23 11:35 L1662588

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	10/06/2023 21:47	WG2146342
Benzene	U		0.0000941	0.00100	1	10/06/2023 21:47	WG2146342
Bromodichloromethane	U		0.000136	0.00100	1	10/06/2023 21:47	WG2146342
Bromoform	U		0.000129	0.00100	1	10/06/2023 21:47	WG2146342
Bromomethane	U		0.000605	0.00500	1	10/06/2023 21:47	WG2146342
n-Butylbenzene	U		0.000157	0.00100	1	10/06/2023 21:47	WG2146342
sec-Butylbenzene	U		0.000125	0.00100	1	10/06/2023 21:47	WG2146342
Carbon disulfide	U		0.0000962	0.00100	1	10/06/2023 21:47	WG2146342
Carbon tetrachloride	U		0.000128	0.00100	1	10/06/2023 21:47	WG2146342
Chlorobenzene	U		0.000116	0.00100	1	10/06/2023 21:47	WG2146342
Chlorodibromomethane	U		0.000140	0.00100	1	10/06/2023 21:47	WG2146342
Chloroethane	U		0.000192	0.00500	1	10/06/2023 21:47	WG2146342
Chloroform	U		0.000111	0.00500	1	10/06/2023 21:47	WG2146342
Chloromethane	U		0.000960	0.00250	1	10/06/2023 21:47	WG2146342
1,2-Dibromoethane	U		0.000126	0.00100	1	10/06/2023 21:47	WG2146342
1,1-Dichloroethane	U		0.000100	0.00100	1	10/06/2023 21:47	WG2146342
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/06/2023 21:47	WG2146342
1,1-Dichloroethene	U		0.000188	0.00100	1	10/06/2023 21:47	WG2146342
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/06/2023 21:47	WG2146342
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/06/2023 21:47	WG2146342
1,2-Dichloropropane	U		0.000149	0.00100	1	10/06/2023 21:47	WG2146342
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	10/06/2023 21:47	WG2146342
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/06/2023 21:47	WG2146342
Ethylbenzene	U		0.000137	0.00100	1	10/06/2023 21:47	WG2146342
Isopropylbenzene	U		0.000105	0.00100	1	10/06/2023 21:47	WG2146342
p-Isopropyltoluene	U		0.000120	0.00100	1	10/06/2023 21:47	WG2146342
2-Butanone (MEK)	U		0.00119	0.0100	1	10/06/2023 21:47	WG2146342
2-Hexanone	U		0.000787	0.0100	1	10/06/2023 21:47	WG2146342
Methylene Chloride	U		0.000430	0.00500	1	10/06/2023 21:47	WG2146342
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/06/2023 21:47	WG2146342
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/06/2023 21:47	WG2146342
Naphthalene	U		0.00100	0.00500	1	10/06/2023 21:47	WG2146342
n-Propylbenzene	U		0.0000993	0.00100	1	10/06/2023 21:47	WG2146342
Styrene	U		0.000118	0.00100	1	10/06/2023 21:47	WG2146342
tert-Butyl alcohol	0.00622		0.00406	0.00500	1	10/06/2023 21:47	WG2146342
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	10/06/2023 21:47	WG2146342
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/06/2023 21:47	WG2146342
Tetrachloroethene	U		0.000300	0.00100	1	10/06/2023 21:47	WG2146342
Toluene	U		0.000278	0.00100	1	10/06/2023 21:47	WG2146342
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/06/2023 21:47	WG2146342
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/06/2023 21:47	WG2146342
Trichloroethene	U		0.000190	0.00100	1	10/06/2023 21:47	WG2146342
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/06/2023 21:47	WG2146342
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/06/2023 21:47	WG2146342
Vinyl chloride	U		0.000234	0.00100	1	10/06/2023 21:47	WG2146342
o-Xylene	U		0.000174	0.00100	1	10/06/2023 21:47	WG2146342
m&p-Xylene	U		0.000430	0.00200	1	10/06/2023 21:47	WG2146342
Xylenes, Total	U		0.000174	0.00300	1	10/06/2023 21:47	WG2146342
(S) Toluene-d8	*106*			*80.0-120*		*10/06/2023 21:47*	WG2146342
(S) 4-Bromofluorobenzene	*114*			*77.0-126*		*10/06/2023 21:47*	WG2146342
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*10/06/2023 21:47*	WG2146342

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	27.7		0.247	1.00	10	10/14/2023 11:55	WG2148863

Released to Imaging: 6/28/2024 11:23:28 AM

LB-REST-05
Collected date/time: 10/03/23 11:35
L1662588

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	*83.2*			*31.0-160*		*10/14/2023 11:55*	WG2148863

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	10/07/2023 09:57	WG2146814
Benzene	U		0.0000941	0.00100	1	10/07/2023 09:57	WG2146814
Bromodichloromethane	U		0.000136	0.00100	1	10/07/2023 09:57	WG2146814
Bromoform	U		0.000129	0.00100	1	10/07/2023 09:57	WG2146814
Bromomethane	U		0.000605	0.00500	1	10/07/2023 09:57	WG2146814
n-Butylbenzene	U		0.000157	0.00100	1	10/07/2023 09:57	WG2146814
sec-Butylbenzene	U		0.000125	0.00100	1	10/07/2023 09:57	WG2146814
Carbon disulfide	U		0.0000962	0.00100	1	10/07/2023 09:57	WG2146814
Carbon tetrachloride	U		0.000128	0.00100	1	10/07/2023 09:57	WG2146814
Chlorobenzene	U		0.000116	0.00100	1	10/07/2023 09:57	WG2146814
Chlorodibromomethane	U		0.000140	0.00100	1	10/07/2023 09:57	WG2146814
Chloroethane	U		0.000192	0.00500	1	10/07/2023 09:57	WG2146814
Chloroform	U		0.000111	0.00500	1	10/07/2023 09:57	WG2146814
Chloromethane	U		0.000960	0.00250	1	10/07/2023 09:57	WG2146814
1,2-Dibromoethane	U		0.000126	0.00100	1	10/07/2023 09:57	WG2146814
1,1-Dichloroethane	U		0.000100	0.00100	1	10/07/2023 09:57	WG2146814
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/07/2023 09:57	WG2146814
1,1-Dichloroethene	U		0.000188	0.00100	1	10/07/2023 09:57	WG2146814
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/07/2023 09:57	WG2146814
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/07/2023 09:57	WG2146814
1,2-Dichloropropane	U		0.000149	0.00100	1	10/07/2023 09:57	WG2146814
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	10/07/2023 09:57	WG2146814
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/07/2023 09:57	WG2146814
Ethylbenzene	U		0.000137	0.00100	1	10/07/2023 09:57	WG2146814
Isopropylbenzene	U		0.000105	0.00100	1	10/07/2023 09:57	WG2146814
p-Isopropyltoluene	U		0.000120	0.00100	1	10/07/2023 09:57	WG2146814
2-Butanone (MEK)	U		0.00119	0.0100	1	10/07/2023 09:57	WG2146814
2-Hexanone	U		0.000787	0.0100	1	10/07/2023 09:57	WG2146814
Methylene Chloride	U	J4	0.000430	0.00500	1	10/07/2023 09:57	WG2146814
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/07/2023 09:57	WG2146814
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/07/2023 09:57	WG2146814
Naphthalene	U	J4	0.00100	0.00500	1	10/07/2023 09:57	WG2146814
n-Propylbenzene	U		0.0000993	0.00100	1	10/07/2023 09:57	WG2146814
Styrene	U		0.000118	0.00100	1	10/07/2023 09:57	WG2146814
tert-Butyl alcohol	U		0.00406	0.00500	1	10/07/2023 09:57	WG2146814
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	10/07/2023 09:57	WG2146814
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/07/2023 09:57	WG2146814
Tetrachloroethene	U		0.000300	0.00100	1	10/07/2023 09:57	WG2146814
Toluene	U		0.000278	0.00100	1	10/07/2023 09:57	WG2146814
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/07/2023 09:57	WG2146814
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/07/2023 09:57	WG2146814
Trichloroethene	U		0.000190	0.00100	1	10/07/2023 09:57	WG2146814
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/07/2023 09:57	WG2146814
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/07/2023 09:57	WG2146814
Vinyl chloride	U		0.000234	0.00100	1	10/07/2023 09:57	WG2146814
o-Xylene	U		0.000174	0.00100	1	10/07/2023 09:57	WG2146814
m&p-Xylene	U		0.000430	0.00200	1	10/07/2023 09:57	WG2146814
Xylenes, Total	U		0.000174	0.00300	1	10/07/2023 09:57	WG2146814
(S) Toluene-d8	*108*			*80.0-120*		*10/07/2023 09:57*	WG2146814
(S) 4-Bromofluorobenzene	*92.8*			*77.0-126*		*10/07/2023 09:57*	WG2146814
(S) 1,2-Dichloroethane-d4	*97.6*			*70.0-130*		*10/07/2023 09:57*	WG2146814

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3070		100	1	10/10/2023 12:15	WG2146078

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	652		3.79	10.0	10	10/05/2023 03:08	WG2145090
Fluoride	2.39		0.640	1.50	10	10/05/2023 03:08	WG2145090
Nitrate	6.08		0.480	1.00	10	10/05/2023 03:08	WG2145090
Nitrite	U		0.420	1.00	10	10/05/2023 03:08	WG2145090
Sulfate	2170		59.4	500	100	10/05/2023 07:45	WG2145090

Sample Narrative:

L1662588-46 WG2145090: Dilution due to matrix.

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	10/09/2023 19:50	WG2145023

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	0.423		0.0200	0.200	1	10/10/2023 23:46	WG2145185

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00470		0.000180	0.00200	1	10/17/2023 17:43	WG2145200
Barium	0.0111		0.000381	0.00200	1	10/17/2023 17:43	WG2145200
Cadmium	U		0.000150	0.00100	1	10/17/2023 17:43	WG2145200
Calcium	685		0.0936	1.00	1	10/17/2023 17:43	WG2145200
Chromium	U		0.00124	0.00200	1	10/17/2023 17:43	WG2145200
Cobalt	0.000593	J	0.0000596	0.00200	1	10/17/2023 17:43	WG2145200
Iron	U		0.0281	0.100	1	10/17/2023 17:43	WG2145200
Lead	U		0.000849	0.00200	1	10/17/2023 17:43	WG2145200
Manganese	0.0181		0.000704	0.00500	1	10/17/2023 17:43	WG2145200
Nickel	0.00282		0.000816	0.00200	1	10/17/2023 17:43	WG2145200
Potassium	1.54	J	0.108	2.00	1	10/17/2023 17:43	WG2145200
Selenium	0.0118		0.000300	0.00200	1	10/17/2023 17:43	WG2145200
Sodium	210		0.376	2.00	1	10/17/2023 17:43	WG2145200
Uranium	0.0376		0.0000789	0.00100	1	10/17/2023 17:43	WG2145200
Vanadium	0.0151		0.000664	0.00500	1	10/17/2023 17:43	WG2145200

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2990		50.0	1	10/10/2023 12:15	WG2146078

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	353		3.79	10.0	10	10/10/2023 12:59	WG2148203
Fluoride	1.21	J	0.640	1.50	10	10/10/2023 12:59	WG2148203
Sulfate	2810		59.4	500	100	10/10/2023 13:11	WG2148203

Sample Narrative:

L1662588-47 WG2148203: Dilution due to matrix.

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	10/13/2023 02:30	WG2145201
Barium	0.00918		0.000381	0.00200	1	10/13/2023 02:30	WG2145201
Calcium	569		0.0936	1.00	1	10/13/2023 02:30	WG2145201
Chromium	U		0.00124	0.00200	1	10/13/2023 02:30	WG2145201
Iron	0.0333	J	0.0281	0.100	1	10/13/2023 02:30	WG2145201
Lead	U		0.000849	0.00200	1	10/13/2023 02:30	WG2145201
Manganese	0.0286		0.000704	0.00500	1	10/13/2023 02:30	WG2145201
Potassium	1.38	J	0.108	2.00	1	10/13/2023 02:30	WG2145201
Selenium	0.00216		0.000300	0.00200	1	10/13/2023 02:30	WG2145201
Sodium	239		0.376	2.00	1	10/13/2023 02:30	WG2145201

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	10/09/2023 00:30	WG2147504
(S) a,a,a-Trifluorotoluene(FID)	*105*			*78.0-120*		*10/09/2023 00:30*	WG2147504

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	10/07/2023 13:25	WG2146814
Benzene	U		0.0000941	0.00100	1	10/07/2023 13:25	WG2146814
Bromodichloromethane	U		0.000136	0.00100	1	10/07/2023 13:25	WG2146814
Bromoform	U		0.000129	0.00100	1	10/07/2023 13:25	WG2146814
Bromomethane	U		0.000605	0.00500	1	10/07/2023 13:25	WG2146814
n-Butylbenzene	U		0.000157	0.00100	1	10/07/2023 13:25	WG2146814
sec-Butylbenzene	U		0.000125	0.00100	1	10/07/2023 13:25	WG2146814
Carbon disulfide	U		0.0000962	0.00100	1	10/07/2023 13:25	WG2146814
Carbon tetrachloride	U		0.000128	0.00100	1	10/07/2023 13:25	WG2146814
Chlorobenzene	U		0.000116	0.00100	1	10/07/2023 13:25	WG2146814
Chlorodibromomethane	U		0.000140	0.00100	1	10/07/2023 13:25	WG2146814
Chloroethane	U		0.000192	0.00500	1	10/07/2023 13:25	WG2146814
Chloroform	U		0.000111	0.00500	1	10/07/2023 13:25	WG2146814
Chloromethane	U		0.000960	0.00250	1	10/07/2023 13:25	WG2146814
1,2-Dibromoethane	U		0.000126	0.00100	1	10/07/2023 13:25	WG2146814
1,1-Dichloroethane	U		0.000100	0.00100	1	10/07/2023 13:25	WG2146814
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/07/2023 13:25	WG2146814
1,1-Dichloroethene	U		0.000188	0.00100	1	10/07/2023 13:25	WG2146814

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/07/2023 13:25	WG2146814
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/07/2023 13:25	WG2146814
1,2-Dichloropropane	U		0.000149	0.00100	1	10/07/2023 13:25	WG2146814
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	10/07/2023 13:25	WG2146814
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/07/2023 13:25	WG2146814
Ethylbenzene	U		0.000137	0.00100	1	10/07/2023 13:25	WG2146814
Isopropylbenzene	U		0.000105	0.00100	1	10/07/2023 13:25	WG2146814
p-Isopropyltoluene	U		0.000120	0.00100	1	10/07/2023 13:25	WG2146814
2-Butanone (MEK)	U		0.00119	0.0100	1	10/07/2023 13:25	WG2146814
2-Hexanone	U		0.000787	0.0100	1	10/07/2023 13:25	WG2146814
Methylene Chloride	U	J4	0.000430	0.00500	1	10/07/2023 13:25	WG2146814
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/07/2023 13:25	WG2146814
Methyl tert-butyl ether	0.000971	J	0.000101	0.00100	1	10/07/2023 13:25	WG2146814
Naphthalene	U	J4	0.00100	0.00500	1	10/07/2023 13:25	WG2146814
n-Propylbenzene	U		0.0000993	0.00100	1	10/07/2023 13:25	WG2146814
Styrene	U		0.000118	0.00100	1	10/07/2023 13:25	WG2146814
tert-Butyl alcohol	U		0.00406	0.00500	1	10/07/2023 13:25	WG2146814
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	10/07/2023 13:25	WG2146814
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/07/2023 13:25	WG2146814
Tetrachloroethene	U		0.000300	0.00100	1	10/07/2023 13:25	WG2146814
Toluene	U		0.000278	0.00100	1	10/07/2023 13:25	WG2146814
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/07/2023 13:25	WG2146814
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/07/2023 13:25	WG2146814
Trichloroethene	U		0.000190	0.00100	1	10/07/2023 13:25	WG2146814
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/07/2023 13:25	WG2146814
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/07/2023 13:25	WG2146814
Vinyl chloride	U		0.000234	0.00100	1	10/07/2023 13:25	WG2146814
o-Xylene	U		0.000174	0.00100	1	10/07/2023 13:25	WG2146814
m&p-Xylene	U		0.000430	0.00200	1	10/07/2023 13:25	WG2146814
Xylenes, Total	U		0.000174	0.00300	1	10/07/2023 13:25	WG2146814
(S) Toluene-d8	*106*			*80.0-120*		*10/07/2023 13:25*	WG2146814
(S) 4-Bromofluorobenzene	*90.2*			*77.0-126*		*10/07/2023 13:25*	WG2146814
(S) 1,2-Dichloroethane-d4	*100*			*70.0-130*		*10/07/2023 13:25*	WG2146814

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	0.403		0.0247	0.100	1	10/14/2023 06:59	WG2148863
(S) o-Terphenyl	*84.2*			*31.0-160*		*10/14/2023 06:59*	WG2148863

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3270		100	1	10/10/2023 12:15	WG2146078

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	296		3.79	10.0	10	10/10/2023 13:24	WG2148203
Fluoride	1.24	J	0.640	1.50	10	10/10/2023 13:24	WG2148203
Sulfate	2940		59.4	500	100	10/10/2023 13:37	WG2148203

Sample Narrative:

L1662588-48 WG2148203: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00426		0.000180	0.00200	1	10/13/2023 02:33	WG2145201
Barium	0.00885		0.000381	0.00200	1	10/13/2023 02:33	WG2145201
Calcium	513		0.0936	1.00	1	10/13/2023 02:33	WG2145201
Chromium	U		0.00124	0.00200	1	10/13/2023 02:33	WG2145201
Iron	U		0.0281	0.100	1	10/13/2023 02:33	WG2145201
Lead	U		0.000849	0.00200	1	10/13/2023 02:33	WG2145201
Manganese	U		0.000704	0.00500	1	10/13/2023 02:33	WG2145201
Potassium	1.38	J	0.108	2.00	1	10/13/2023 02:33	WG2145201
Selenium	0.00821		0.000300	0.00200	1	10/13/2023 02:33	WG2145201
Sodium	246		0.376	2.00	1	10/13/2023 02:33	WG2145201

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	10/09/2023 00:52	WG2147504
(S) a,a,a-Trifluorotoluene(FID)	*106*			*78.0-120*		*10/09/2023 00:52*	WG2147504

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	10/07/2023 13:46	WG2146814
Benzene	U		0.0000941	0.00100	1	10/07/2023 13:46	WG2146814
Bromodichloromethane	U		0.000136	0.00100	1	10/07/2023 13:46	WG2146814
Bromoform	U		0.000129	0.00100	1	10/07/2023 13:46	WG2146814
Bromomethane	U		0.000605	0.00500	1	10/07/2023 13:46	WG2146814
n-Butylbenzene	U		0.000157	0.00100	1	10/07/2023 13:46	WG2146814
sec-Butylbenzene	U		0.000125	0.00100	1	10/07/2023 13:46	WG2146814
Carbon disulfide	U		0.0000962	0.00100	1	10/07/2023 13:46	WG2146814
Carbon tetrachloride	U		0.000128	0.00100	1	10/07/2023 13:46	WG2146814
Chlorobenzene	U		0.000116	0.00100	1	10/07/2023 13:46	WG2146814
Chlorodibromomethane	U		0.000140	0.00100	1	10/07/2023 13:46	WG2146814
Chloroethane	U		0.000192	0.00500	1	10/07/2023 13:46	WG2146814
Chloroform	U		0.000111	0.00500	1	10/07/2023 13:46	WG2146814
Chloromethane	U		0.000960	0.00250	1	10/07/2023 13:46	WG2146814
1,2-Dibromoethane	U		0.000126	0.00100	1	10/07/2023 13:46	WG2146814
1,1-Dichloroethane	U		0.000100	0.00100	1	10/07/2023 13:46	WG2146814
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/07/2023 13:46	WG2146814
1,1-Dichloroethene	U		0.000188	0.00100	1	10/07/2023 13:46	WG2146814

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/07/2023 13:46	WG2146814
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/07/2023 13:46	WG2146814
1,2-Dichloropropane	U		0.000149	0.00100	1	10/07/2023 13:46	WG2146814
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	10/07/2023 13:46	WG2146814
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/07/2023 13:46	WG2146814
Ethylbenzene	U		0.000137	0.00100	1	10/07/2023 13:46	WG2146814
Isopropylbenzene	U		0.000105	0.00100	1	10/07/2023 13:46	WG2146814
p-Isopropyltoluene	U		0.000120	0.00100	1	10/07/2023 13:46	WG2146814
2-Butanone (MEK)	U		0.00119	0.0100	1	10/07/2023 13:46	WG2146814
2-Hexanone	U		0.000787	0.0100	1	10/07/2023 13:46	WG2146814
Methylene Chloride	U	J4	0.000430	0.00500	1	10/07/2023 13:46	WG2146814
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/07/2023 13:46	WG2146814
Methyl tert-butyl ether	0.000108	J	0.000101	0.00100	1	10/07/2023 13:46	WG2146814
Naphthalene	U	J4	0.00100	0.00500	1	10/07/2023 13:46	WG2146814
n-Propylbenzene	U		0.0000993	0.00100	1	10/07/2023 13:46	WG2146814
Styrene	U		0.000118	0.00100	1	10/07/2023 13:46	WG2146814
tert-Butyl alcohol	U		0.00406	0.00500	1	10/07/2023 13:46	WG2146814
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	10/07/2023 13:46	WG2146814
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/07/2023 13:46	WG2146814
Tetrachloroethene	U		0.000300	0.00100	1	10/07/2023 13:46	WG2146814
Toluene	U		0.000278	0.00100	1	10/07/2023 13:46	WG2146814
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/07/2023 13:46	WG2146814
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/07/2023 13:46	WG2146814
Trichloroethene	U		0.000190	0.00100	1	10/07/2023 13:46	WG2146814
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/07/2023 13:46	WG2146814
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/07/2023 13:46	WG2146814
Vinyl chloride	U		0.000234	0.00100	1	10/07/2023 13:46	WG2146814
o-Xylene	U		0.000174	0.00100	1	10/07/2023 13:46	WG2146814
m&p-Xylene	U		0.000430	0.00200	1	10/07/2023 13:46	WG2146814
Xylenes, Total	U		0.000174	0.00300	1	10/07/2023 13:46	WG2146814
(S) Toluene-d8	*107*			*80.0-120*		*10/07/2023 13:46*	WG2146814
(S) 4-Bromofluorobenzene	*90.3*			*77.0-126*		*10/07/2023 13:46*	WG2146814
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*10/07/2023 13:46*	WG2146814

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	0.0247	J	0.0247	0.100	1	10/14/2023 07:19	WG2148863
(S) o-Terphenyl	*78.9*			*31.0-160*		*10/14/2023 07:19*	WG2148863

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	10/10/2023 12:15	WG2146078

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	568		3.79	10.0	10	10/05/2023 12:27	WG2145093
Fluoride	1.08	J	0.640	1.50	10	10/05/2023 12:27	WG2145093
Nitrate	8.08		0.480	1.00	10	10/05/2023 12:27	WG2145093
Nitrite	U		0.420	1.00	10	10/05/2023 12:27	WG2145093
Sulfate	2300		59.4	500	100	10/05/2023 20:48	WG2145093

Sample Narrative:

L1662588-49 WG2145093: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00328		0.000180	0.00200	1	10/13/2023 02:37	WG2145201
Barium	0.00892		0.000381	0.00200	1	10/13/2023 02:37	WG2145201
Calcium	568		0.0936	1.00	1	10/13/2023 02:37	WG2145201
Chromium	U		0.00124	0.00200	1	10/13/2023 02:37	WG2145201
Iron	0.117		0.0281	0.100	1	10/13/2023 02:37	WG2145201
Lead	U		0.000849	0.00200	1	10/13/2023 02:37	WG2145201
Manganese	0.0177		0.000704	0.00500	1	10/13/2023 02:37	WG2145201
Potassium	0.854	J	0.108	2.00	1	10/13/2023 02:37	WG2145201
Selenium	0.0229		0.000300	0.00200	1	10/13/2023 02:37	WG2145201
Sodium	568		0.376	2.00	1	10/13/2023 02:37	WG2145201

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	10/09/2023 01:14	WG2147504
(S) a,a,a-Trifluorotoluene(FID)	*105*			*78.0-120*		*10/09/2023 01:14*	WG2147504

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	10/07/2023 14:06	WG2146814
Benzene	U		0.0000941	0.00100	1	10/07/2023 14:06	WG2146814
Bromodichloromethane	U		0.000136	0.00100	1	10/07/2023 14:06	WG2146814
Bromoform	U		0.000129	0.00100	1	10/07/2023 14:06	WG2146814
Bromomethane	U		0.000605	0.00500	1	10/07/2023 14:06	WG2146814
n-Butylbenzene	U		0.000157	0.00100	1	10/07/2023 14:06	WG2146814
sec-Butylbenzene	U		0.000125	0.00100	1	10/07/2023 14:06	WG2146814
Carbon disulfide	U		0.0000962	0.00100	1	10/07/2023 14:06	WG2146814
Carbon tetrachloride	U		0.000128	0.00100	1	10/07/2023 14:06	WG2146814
Chlorobenzene	U		0.000116	0.00100	1	10/07/2023 14:06	WG2146814
Chlorodibromomethane	U		0.000140	0.00100	1	10/07/2023 14:06	WG2146814
Chloroethane	U		0.000192	0.00500	1	10/07/2023 14:06	WG2146814
Chloroform	U		0.000111	0.00500	1	10/07/2023 14:06	WG2146814
Chloromethane	U		0.000960	0.00250	1	10/07/2023 14:06	WG2146814
1,2-Dibromoethane	U		0.000126	0.00100	1	10/07/2023 14:06	WG2146814
1,1-Dichloroethane	U		0.000100	0.00100	1	10/07/2023 14:06	WG2146814

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	10/07/2023 14:06	WG2146814
1,1-Dichloroethene	U		0.000188	0.00100	1	10/07/2023 14:06	WG2146814
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/07/2023 14:06	WG2146814
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/07/2023 14:06	WG2146814
1,2-Dichloropropane	U		0.000149	0.00100	1	10/07/2023 14:06	WG2146814
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	10/07/2023 14:06	WG2146814
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/07/2023 14:06	WG2146814
Ethylbenzene	U		0.000137	0.00100	1	10/07/2023 14:06	WG2146814
Isopropylbenzene	U		0.000105	0.00100	1	10/07/2023 14:06	WG2146814
p-Isopropyltoluene	U		0.000120	0.00100	1	10/07/2023 14:06	WG2146814
2-Butanone (MEK)	U		0.00119	0.0100	1	10/07/2023 14:06	WG2146814
2-Hexanone	U		0.000787	0.0100	1	10/07/2023 14:06	WG2146814
Methylene Chloride	U	J4	0.000430	0.00500	1	10/07/2023 14:06	WG2146814
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/07/2023 14:06	WG2146814
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/07/2023 14:06	WG2146814
Naphthalene	U	J4	0.00100	0.00500	1	10/07/2023 14:06	WG2146814
n-Propylbenzene	U		0.0000993	0.00100	1	10/07/2023 14:06	WG2146814
Styrene	U		0.000118	0.00100	1	10/07/2023 14:06	WG2146814
tert-Butyl alcohol	U		0.00406	0.00500	1	10/07/2023 14:06	WG2146814
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	10/07/2023 14:06	WG2146814
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/07/2023 14:06	WG2146814
Tetrachloroethene	U		0.000300	0.00100	1	10/07/2023 14:06	WG2146814
Toluene	U		0.000278	0.00100	1	10/07/2023 14:06	WG2146814
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/07/2023 14:06	WG2146814
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/07/2023 14:06	WG2146814
Trichloroethene	U		0.000190	0.00100	1	10/07/2023 14:06	WG2146814
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/07/2023 14:06	WG2146814
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/07/2023 14:06	WG2146814
Vinyl chloride	U		0.000234	0.00100	1	10/07/2023 14:06	WG2146814
o-Xylene	U		0.000174	0.00100	1	10/07/2023 14:06	WG2146814
m&p-Xylene	U		0.000430	0.00200	1	10/07/2023 14:06	WG2146814
Xylenes, Total	U		0.000174	0.00300	1	10/07/2023 14:06	WG2146814
(S) Toluene-d8	*109*			*80.0-120*		*10/07/2023 14:06*	WG2146814
(S) 4-Bromofluorobenzene	*90.6*			*77.0-126*		*10/07/2023 14:06*	WG2146814
(S) 1,2-Dichloroethane-d4	*100*			*70.0-130*		*10/07/2023 14:06*	WG2146814

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	10/14/2023 07:39	WG2148863
(S) o-Terphenyl	*81.6*			*31.0-160*		*10/14/2023 07:39*	WG2148863

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2710		100	1	10/10/2023 12:15	WG2146078

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	404		3.79	10.0	10	10/10/2023 13:50	WG2148203
Fluoride	2.16		0.640	1.50	10	10/10/2023 13:50	WG2148203
Sulfate	2870		59.4	500	100	10/10/2023 14:02	WG2148203

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	10/13/2023 02:47	WG2145201
Barium	0.00772		0.000381	0.00200	1	10/13/2023 02:47	WG2145201
Calcium	581		0.0936	1.00	1	10/13/2023 02:47	WG2145201
Chromium	U		0.00124	0.00200	1	10/13/2023 02:47	WG2145201
Iron	0.0527	J	0.0281	0.100	1	10/13/2023 02:47	WG2145201
Lead	U		0.000849	0.00200	1	10/13/2023 02:47	WG2145201
Manganese	0.00808		0.000704	0.00500	1	10/13/2023 02:47	WG2145201
Potassium	0.589	J	0.108	2.00	1	10/13/2023 02:47	WG2145201
Selenium	0.0159		0.000300	0.00200	1	10/13/2023 02:47	WG2145201
Sodium	351		0.376	2.00	1	10/13/2023 02:47	WG2145201

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	10/09/2023 01:36	WG2147504
(S) a,a,a-Trifluorotoluene(FID)	*105*			*78.0-120*		*10/09/2023 01:36*	WG2147504

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	10/07/2023 14:37	WG2146814
Benzene	U		0.0000941	0.00100	1	10/07/2023 14:37	WG2146814
Bromodichloromethane	U		0.000136	0.00100	1	10/07/2023 14:37	WG2146814
Bromoform	U		0.000129	0.00100	1	10/07/2023 14:37	WG2146814
Bromomethane	U		0.000605	0.00500	1	10/07/2023 14:37	WG2146814
n-Butylbenzene	U		0.000157	0.00100	1	10/07/2023 14:37	WG2146814
sec-Butylbenzene	U		0.000125	0.00100	1	10/07/2023 14:37	WG2146814
Carbon disulfide	U		0.0000962	0.00100	1	10/07/2023 14:37	WG2146814
Carbon tetrachloride	U		0.000128	0.00100	1	10/07/2023 14:37	WG2146814
Chlorobenzene	U		0.000116	0.00100	1	10/07/2023 14:37	WG2146814
Chlorodibromomethane	U		0.000140	0.00100	1	10/07/2023 14:37	WG2146814
Chloroethane	U		0.000192	0.00500	1	10/07/2023 14:37	WG2146814
Chloroform	U		0.000111	0.00500	1	10/07/2023 14:37	WG2146814
Chloromethane	U		0.000960	0.00250	1	10/07/2023 14:37	WG2146814
1,2-Dibromoethane	U		0.000126	0.00100	1	10/07/2023 14:37	WG2146814
1,1-Dichloroethane	U		0.000100	0.00100	1	10/07/2023 14:37	WG2146814
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/07/2023 14:37	WG2146814
1,1-Dichloroethene	U		0.000188	0.00100	1	10/07/2023 14:37	WG2146814
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/07/2023 14:37	WG2146814
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/07/2023 14:37	WG2146814
1,2-Dichloropropane	U		0.000149	0.00100	1	10/07/2023 14:37	WG2146814

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	10/07/2023 14:37	WG2146814
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/07/2023 14:37	WG2146814
Ethylbenzene	U		0.000137	0.00100	1	10/07/2023 14:37	WG2146814
Isopropylbenzene	U		0.000105	0.00100	1	10/07/2023 14:37	WG2146814
p-Isopropyltoluene	U		0.000120	0.00100	1	10/07/2023 14:37	WG2146814
2-Butanone (MEK)	U		0.00119	0.0100	1	10/07/2023 14:37	WG2146814
2-Hexanone	U		0.000787	0.0100	1	10/07/2023 14:37	WG2146814
Methylene Chloride	U	J4	0.000430	0.00500	1	10/07/2023 14:37	WG2146814
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/07/2023 14:37	WG2146814
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/07/2023 14:37	WG2146814
Naphthalene	U	J4	0.00100	0.00500	1	10/07/2023 14:37	WG2146814
n-Propylbenzene	U		0.0000993	0.00100	1	10/07/2023 14:37	WG2146814
Styrene	U		0.000118	0.00100	1	10/07/2023 14:37	WG2146814
tert-Butyl alcohol	U		0.00406	0.00500	1	10/07/2023 14:37	WG2146814
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	10/07/2023 14:37	WG2146814
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/07/2023 14:37	WG2146814
Tetrachloroethene	U		0.000300	0.00100	1	10/07/2023 14:37	WG2146814
Toluene	U		0.000278	0.00100	1	10/07/2023 14:37	WG2146814
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/07/2023 14:37	WG2146814
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/07/2023 14:37	WG2146814
Trichloroethene	U		0.000190	0.00100	1	10/07/2023 14:37	WG2146814
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/07/2023 14:37	WG2146814
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/07/2023 14:37	WG2146814
Vinyl chloride	U		0.000234	0.00100	1	10/07/2023 14:37	WG2146814
o-Xylene	U		0.000174	0.00100	1	10/07/2023 14:37	WG2146814
m&p-Xylene	U		0.000430	0.00200	1	10/07/2023 14:37	WG2146814
Xylenes, Total	U		0.000174	0.00300	1	10/07/2023 14:37	WG2146814
(S) Toluene-d8	*107*			*80.0-120*		*10/07/2023 14:37*	WG2146814
(S) 4-Bromofluorobenzene	*90.4*			*77.0-126*		*10/07/2023 14:37*	WG2146814
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*10/07/2023 14:37*	WG2146814

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	10/14/2023 07:59	WG2148863
(S) o-Terphenyl	*78.4*			*31.0-160*		*10/14/2023 07:59*	WG2148863

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	2710		50.0	1	10/10/2023 12:15	WG2146078

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	270		3.79	10.0	10	10/05/2023 13:17	WG2145562
Fluoride	2.02		0.640	1.50	10	10/05/2023 13:17	WG2145562
Sulfate	1970		5.94	50.0	10	10/05/2023 13:17	WG2145562

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00282		0.000180	0.00200	1	10/13/2023 02:50	WG2145201
Barium	0.00996		0.000381	0.00200	1	10/13/2023 02:50	WG2145201
Calcium	573		0.0936	1.00	1	10/13/2023 02:50	WG2145201
Chromium	U		0.00124	0.00200	1	10/13/2023 02:50	WG2145201
Iron	0.0554	J	0.0281	0.100	1	10/13/2023 02:50	WG2145201
Lead	0.00151	J	0.000849	0.00200	1	10/13/2023 02:50	WG2145201
Manganese	0.0107		0.000704	0.00500	1	10/13/2023 02:50	WG2145201
Potassium	7.90		0.108	2.00	1	10/13/2023 02:50	WG2145201
Selenium	0.0111		0.000300	0.00200	1	10/13/2023 02:50	WG2145201
Sodium	180		0.376	2.00	1	10/13/2023 02:50	WG2145201

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	10/09/2023 01:58	WG2147504
(S) a,a,a-Trifluorotoluene(FID)	*105*			*78.0-120*		*10/09/2023 01:58*	WG2147504

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	10/07/2023 14:57	WG2146814
Benzene	U		0.0000941	0.00100	1	10/07/2023 14:57	WG2146814
Bromodichloromethane	U		0.000136	0.00100	1	10/07/2023 14:57	WG2146814
Bromoform	U		0.000129	0.00100	1	10/07/2023 14:57	WG2146814
Bromomethane	U		0.000605	0.00500	1	10/07/2023 14:57	WG2146814
n-Butylbenzene	U		0.000157	0.00100	1	10/07/2023 14:57	WG2146814
sec-Butylbenzene	U		0.000125	0.00100	1	10/07/2023 14:57	WG2146814
Carbon disulfide	U		0.0000962	0.00100	1	10/07/2023 14:57	WG2146814
Carbon tetrachloride	U		0.000128	0.00100	1	10/07/2023 14:57	WG2146814
Chlorobenzene	U		0.000116	0.00100	1	10/07/2023 14:57	WG2146814
Chlorodibromomethane	U		0.000140	0.00100	1	10/07/2023 14:57	WG2146814
Chloroethane	U		0.000192	0.00500	1	10/07/2023 14:57	WG2146814
Chloroform	U		0.000111	0.00500	1	10/07/2023 14:57	WG2146814
Chloromethane	U		0.000960	0.00250	1	10/07/2023 14:57	WG2146814
1,2-Dibromoethane	U		0.000126	0.00100	1	10/07/2023 14:57	WG2146814
1,1-Dichloroethane	U		0.000100	0.00100	1	10/07/2023 14:57	WG2146814
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/07/2023 14:57	WG2146814
1,1-Dichloroethene	U		0.000188	0.00100	1	10/07/2023 14:57	WG2146814
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/07/2023 14:57	WG2146814
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/07/2023 14:57	WG2146814
1,2-Dichloropropane	U		0.000149	0.00100	1	10/07/2023 14:57	WG2146814

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	10/07/2023 14:57	WG2146814
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/07/2023 14:57	WG2146814
Ethylbenzene	U		0.000137	0.00100	1	10/07/2023 14:57	WG2146814
Isopropylbenzene	U		0.000105	0.00100	1	10/07/2023 14:57	WG2146814
p-Isopropyltoluene	U		0.000120	0.00100	1	10/07/2023 14:57	WG2146814
2-Butanone (MEK)	U		0.00119	0.0100	1	10/07/2023 14:57	WG2146814
2-Hexanone	U		0.000787	0.0100	1	10/07/2023 14:57	WG2146814
Methylene Chloride	U	J4	0.000430	0.00500	1	10/07/2023 14:57	WG2146814
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/07/2023 14:57	WG2146814
Methyl tert-butyl ether	0.000171	J	0.000101	0.00100	1	10/07/2023 14:57	WG2146814
Naphthalene	U	J4	0.00100	0.00500	1	10/07/2023 14:57	WG2146814
n-Propylbenzene	U		0.0000993	0.00100	1	10/07/2023 14:57	WG2146814
Styrene	U		0.000118	0.00100	1	10/07/2023 14:57	WG2146814
tert-Butyl alcohol	U		0.00406	0.00500	1	10/07/2023 14:57	WG2146814
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	10/07/2023 14:57	WG2146814
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/07/2023 14:57	WG2146814
Tetrachloroethene	U		0.000300	0.00100	1	10/07/2023 14:57	WG2146814
Toluene	U		0.000278	0.00100	1	10/07/2023 14:57	WG2146814
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/07/2023 14:57	WG2146814
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/07/2023 14:57	WG2146814
Trichloroethene	U		0.000190	0.00100	1	10/07/2023 14:57	WG2146814
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/07/2023 14:57	WG2146814
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/07/2023 14:57	WG2146814
Vinyl chloride	U		0.000234	0.00100	1	10/07/2023 14:57	WG2146814
o-Xylene	U		0.000174	0.00100	1	10/07/2023 14:57	WG2146814
m&p-Xylene	U		0.000430	0.00200	1	10/07/2023 14:57	WG2146814
Xylenes, Total	U		0.000174	0.00300	1	10/07/2023 14:57	WG2146814
(S) Toluene-d8	*105*			*80.0-120*		*10/07/2023 14:57*	WG2146814
(S) 4-Bromofluorobenzene	*91.8*			*77.0-126*		*10/07/2023 14:57*	WG2146814
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*10/07/2023 14:57*	WG2146814

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	0.0397	J	0.0247	0.100	1	10/14/2023 08:18	WG2148863
(S) o-Terphenyl	*79.5*			*31.0-160*		*10/14/2023 08:18*	WG2148863

Received by OCD: 6/12/2024 3:31:05 PM

DUP-REST-04
Collected date/time: 10/03/23 12:00
L1662588

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4870		100	1	10/10/2023 01:11	WG2146080

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	292		3.79	10.0	10	10/10/2023 14:15	WG2148203
Fluoride	1.18	J	0.640	1.50	10	10/10/2023 14:15	WG2148203
Sulfate	2700		59.4	500	100	10/10/2023 14:53	WG2148203

Sample Narrative:

L1662588-52 WG2148203: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00428		0.000180	0.00200	1	10/13/2023 02:53	WG2145201
Barium	0.00870		0.000381	0.00200	1	10/13/2023 02:53	WG2145201
Chromium	U		0.00124	0.00200	1	10/13/2023 02:53	WG2145201
Iron	U		0.0281	0.100	1	10/13/2023 02:53	WG2145201
Lead	U		0.000849	0.00200	1	10/13/2023 02:53	WG2145201
Manganese	U		0.000704	0.00500	1	10/13/2023 02:53	WG2145201
Selenium	0.00786		0.000300	0.00200	1	10/13/2023 02:53	WG2145201

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	10/09/2023 02:20	WG2147504
(S) a,a,a-Trifluorotoluene(FID)	*105*			*78.0-120*		*10/09/2023 02:20*	WG2147504

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	10/07/2023 15:18	WG2146814
Benzene	U		0.0000941	0.00100	1	10/07/2023 15:18	WG2146814
Bromodichloromethane	U		0.000136	0.00100	1	10/07/2023 15:18	WG2146814
Bromoform	U		0.000129	0.00100	1	10/07/2023 15:18	WG2146814
Bromomethane	U		0.000605	0.00500	1	10/07/2023 15:18	WG2146814
n-Butylbenzene	U		0.000157	0.00100	1	10/07/2023 15:18	WG2146814
sec-Butylbenzene	U		0.000125	0.00100	1	10/07/2023 15:18	WG2146814
Carbon disulfide	U		0.0000962	0.00100	1	10/07/2023 15:18	WG2146814
Carbon tetrachloride	U		0.000128	0.00100	1	10/07/2023 15:18	WG2146814
Chlorobenzene	U		0.000116	0.00100	1	10/07/2023 15:18	WG2146814
Chlorodibromomethane	U		0.000140	0.00100	1	10/07/2023 15:18	WG2146814
Chloroethane	U		0.000192	0.00500	1	10/07/2023 15:18	WG2146814
Chloroform	U		0.000111	0.00500	1	10/07/2023 15:18	WG2146814
Chloromethane	U		0.000960	0.00250	1	10/07/2023 15:18	WG2146814
1,2-Dibromoethane	U		0.000126	0.00100	1	10/07/2023 15:18	WG2146814
1,1-Dichloroethane	U		0.000100	0.00100	1	10/07/2023 15:18	WG2146814
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/07/2023 15:18	WG2146814
1,1-Dichloroethene	U		0.000188	0.00100	1	10/07/2023 15:18	WG2146814
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/07/2023 15:18	WG2146814
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/07/2023 15:18	WG2146814
1,2-Dichloropropane	U		0.000149	0.00100	1	10/07/2023 15:18	WG2146814

Released to Imaging: 6/28/2024 11:23:28 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
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	10/07/2023 15:18	WG2146814
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/07/2023 15:18	WG2146814
Ethylbenzene	U		0.000137	0.00100	1	10/07/2023 15:18	WG2146814
Isopropylbenzene	U		0.000105	0.00100	1	10/07/2023 15:18	WG2146814
p-Isopropyltoluene	U		0.000120	0.00100	1	10/07/2023 15:18	WG2146814
2-Butanone (MEK)	U		0.00119	0.0100	1	10/07/2023 15:18	WG2146814
2-Hexanone	U		0.000787	0.0100	1	10/07/2023 15:18	WG2146814
Methylene Chloride	U	J4	0.000430	0.00500	1	10/07/2023 15:18	WG2146814
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/07/2023 15:18	WG2146814
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/07/2023 15:18	WG2146814
Naphthalene	U	J4	0.00100	0.00500	1	10/07/2023 15:18	WG2146814
n-Propylbenzene	U		0.0000993	0.00100	1	10/07/2023 15:18	WG2146814
Styrene	U		0.000118	0.00100	1	10/07/2023 15:18	WG2146814
tert-Butyl alcohol	U		0.00406	0.00500	1	10/07/2023 15:18	WG2146814
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	10/07/2023 15:18	WG2146814
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/07/2023 15:18	WG2146814
Tetrachloroethene	U		0.000300	0.00100	1	10/07/2023 15:18	WG2146814
Toluene	U		0.000278	0.00100	1	10/07/2023 15:18	WG2146814
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/07/2023 15:18	WG2146814
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/07/2023 15:18	WG2146814
Trichloroethene	U		0.000190	0.00100	1	10/07/2023 15:18	WG2146814
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/07/2023 15:18	WG2146814
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/07/2023 15:18	WG2146814
Vinyl chloride	U		0.000234	0.00100	1	10/07/2023 15:18	WG2146814
o-Xylene	U		0.000174	0.00100	1	10/07/2023 15:18	WG2146814
m&p-Xylene	U		0.000430	0.00200	1	10/07/2023 15:18	WG2146814
Xylenes, Total	U		0.000174	0.00300	1	10/07/2023 15:18	WG2146814
(S) Toluene-d8	*107*			*80.0-120*		*10/07/2023 15:18*	WG2146814
(S) 4-Bromofluorobenzene	*89.9*			*77.0-126*		*10/07/2023 15:18*	WG2146814
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*10/07/2023 15:18*	WG2146814

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	10/14/2023 08:38	WG2148863
(S) o-Terphenyl	*80.5*			*31.0-160*		*10/14/2023 08:38*	WG2148863

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	10/10/2023 01:11	WG2146080

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	2.23		0.379	1.00	1	10/10/2023 15:06	WG2148203
Fluoride	U		0.0640	0.150	1	10/10/2023 15:06	WG2148203
Sulfate	0.637	J	0.594	5.00	1	10/10/2023 15:06	WG2148203

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	10/13/2023 02:56	WG2145201
Barium	0.00669		0.000381	0.00200	1	10/13/2023 02:56	WG2145201
Chromium	U		0.00124	0.00200	1	10/13/2023 02:56	WG2145201
Iron	U		0.0281	0.100	1	10/13/2023 02:56	WG2145201
Lead	U		0.000849	0.00200	1	10/13/2023 02:56	WG2145201
Manganese	U		0.000704	0.00500	1	10/13/2023 02:56	WG2145201
Selenium	U		0.000300	0.00200	1	10/13/2023 02:56	WG2145201

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	10/08/2023 23:02	WG2147504
(S) a,a,a-Trifluorotoluene(FID)	*104*			*78.0-120*		*10/08/2023 23:02*	WG2147504

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	10/07/2023 15:39	WG2146814
Benzene	U		0.0000941	0.00100	1	10/07/2023 15:39	WG2146814
Bromodichloromethane	U		0.000136	0.00100	1	10/07/2023 15:39	WG2146814
Bromoform	U		0.000129	0.00100	1	10/07/2023 15:39	WG2146814
Bromomethane	U		0.000605	0.00500	1	10/07/2023 15:39	WG2146814
n-Butylbenzene	U		0.000157	0.00100	1	10/07/2023 15:39	WG2146814
sec-Butylbenzene	U		0.000125	0.00100	1	10/07/2023 15:39	WG2146814
Carbon disulfide	U		0.0000962	0.00100	1	10/07/2023 15:39	WG2146814
Carbon tetrachloride	0.000265	J	0.000128	0.00100	1	10/07/2023 15:39	WG2146814
Chlorobenzene	U		0.000116	0.00100	1	10/07/2023 15:39	WG2146814
Chlorodibromomethane	U		0.000140	0.00100	1	10/07/2023 15:39	WG2146814
Chloroethane	U		0.000192	0.00500	1	10/07/2023 15:39	WG2146814
Chloroform	U		0.000111	0.00500	1	10/07/2023 15:39	WG2146814
Chloromethane	U		0.000960	0.00250	1	10/07/2023 15:39	WG2146814
1,2-Dibromoethane	U		0.000126	0.00100	1	10/07/2023 15:39	WG2146814
1,1-Dichloroethane	U		0.000100	0.00100	1	10/07/2023 15:39	WG2146814
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/07/2023 15:39	WG2146814
1,1-Dichloroethene	U		0.000188	0.00100	1	10/07/2023 15:39	WG2146814
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/07/2023 15:39	WG2146814
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/07/2023 15:39	WG2146814
1,2-Dichloropropane	U		0.000149	0.00100	1	10/07/2023 15:39	WG2146814
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	10/07/2023 15:39	WG2146814
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/07/2023 15:39	WG2146814
Ethylbenzene	U		0.000137	0.00100	1	10/07/2023 15:39	WG2146814

Received by OCD: 6/12/2024 3:31:05 PM

LB-RES1-04
Collected date/time: 10/03/23 12:15
L1662588

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	10/07/2023 15:39	WG2146814
p-Isopropyltoluene	U		0.000120	0.00100	1	10/07/2023 15:39	WG2146814
2-Butanone (MEK)	U		0.00119	0.0100	1	10/07/2023 15:39	WG2146814
2-Hexanone	U		0.000787	0.0100	1	10/07/2023 15:39	WG2146814
Methylene Chloride	U	J4	0.000430	0.00500	1	10/07/2023 15:39	WG2146814
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/07/2023 15:39	WG2146814
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/07/2023 15:39	WG2146814
Naphthalene	U	J4	0.00100	0.00500	1	10/07/2023 15:39	WG2146814
n-Propylbenzene	U		0.0000993	0.00100	1	10/07/2023 15:39	WG2146814
Styrene	U		0.000118	0.00100	1	10/07/2023 15:39	WG2146814
tert-Butyl alcohol	U		0.00406	0.00500	1	10/07/2023 15:39	WG2146814
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	10/07/2023 15:39	WG2146814
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/07/2023 15:39	WG2146814
Tetrachloroethene	U		0.000300	0.00100	1	10/07/2023 15:39	WG2146814
Toluene	U		0.000278	0.00100	1	10/07/2023 15:39	WG2146814
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/07/2023 15:39	WG2146814
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/07/2023 15:39	WG2146814
Trichloroethene	U		0.000190	0.00100	1	10/07/2023 15:39	WG2146814
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/07/2023 15:39	WG2146814
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/07/2023 15:39	WG2146814
Vinyl chloride	U		0.000234	0.00100	1	10/07/2023 15:39	WG2146814
o-Xylene	U		0.000174	0.00100	1	10/07/2023 15:39	WG2146814
m&p-Xylene	U		0.000430	0.00200	1	10/07/2023 15:39	WG2146814
Xylenes, Total	U		0.000174	0.00300	1	10/07/2023 15:39	WG2146814
(S) Toluene-d8	*106*			*80.0-120*		*10/07/2023 15:39*	WG2146814
(S) 4-Bromofluorobenzene	*88.9*			*77.0-126*		*10/07/2023 15:39*	WG2146814
(S) 1,2-Dichloroethane-d4	*99.9*			*70.0-130*		*10/07/2023 15:39*	WG2146814

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	10/14/2023 08:58	WG2148863
(S) o-Terphenyl	*79.5*			*31.0-160*		*10/14/2023 08:58*	WG2148863

Cp
Tc
Ss
Cn
Sr
Qc
Gl
Al
Sc

Released to Imaging: 6/28/2024 11:23:28 AM

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	978		20.0	1	10/10/2023 01:11	WG2146080

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	82.4	J6	0.379	1.00	1	10/05/2023 07:24	WG2145066
Fluoride	1.07		0.0640	0.150	1	10/05/2023 07:24	WG2145066
Nitrate	0.119		0.0480	0.100	1	10/05/2023 07:24	WG2145066
Nitrite	U		0.0420	0.100	1	10/05/2023 07:24	WG2145066
Sulfate	80.4	J6	0.594	5.00	1	10/05/2023 07:24	WG2145066

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0338		0.000180	0.00200	1	10/13/2023 03:00	WG2145201
Barium	0.0685		0.000381	0.00200	1	10/13/2023 03:00	WG2145201
Calcium	126		0.0936	1.00	1	10/13/2023 03:00	WG2145201
Chromium	U		0.00124	0.00200	1	10/13/2023 03:00	WG2145201
Iron	1.17		0.0281	0.100	1	10/13/2023 03:00	WG2145201
Lead	U		0.000849	0.00200	1	10/13/2023 03:00	WG2145201
Manganese	0.735		0.000704	0.00500	1	10/13/2023 03:00	WG2145201
Potassium	0.602	J	0.108	2.00	1	10/13/2023 03:00	WG2145201
Selenium	U		0.000300	0.00200	1	10/13/2023 03:00	WG2145201
Sodium	134		0.376	2.00	1	10/13/2023 03:00	WG2145201

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	0.565		0.0314	0.100	1	10/11/2023 14:49	WG2148738
(S) a,a,a-Trifluorotoluene(FID)	*88.8*			*78.0-120*		*10/11/2023 14:49*	WG2148738

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	10/10/2023 01:30	WG2147981
Benzene	0.0178		0.0000941	0.00100	1	10/10/2023 01:30	WG2147981
Bromodichloromethane	U		0.000136	0.00100	1	10/10/2023 01:30	WG2147981
Bromoform	U		0.000129	0.00100	1	10/10/2023 01:30	WG2147981
Bromomethane	U		0.000605	0.00500	1	10/10/2023 01:30	WG2147981
n-Butylbenzene	U		0.000157	0.00100	1	10/10/2023 01:30	WG2147981
sec-Butylbenzene	0.00256		0.000125	0.00100	1	10/10/2023 01:30	WG2147981
Carbon disulfide	0.000101	J	0.0000962	0.00100	1	10/10/2023 01:30	WG2147981
Carbon tetrachloride	U		0.000128	0.00100	1	10/10/2023 01:30	WG2147981
Chlorobenzene	U		0.000116	0.00100	1	10/10/2023 01:30	WG2147981
Chlorodibromomethane	U		0.000140	0.00100	1	10/10/2023 01:30	WG2147981
Chloroethane	U		0.000192	0.00500	1	10/10/2023 01:30	WG2147981
Chloroform	U		0.000111	0.00500	1	10/10/2023 01:30	WG2147981
Chloromethane	U		0.000960	0.00250	1	10/10/2023 01:30	WG2147981
1,2-Dibromoethane	U		0.000126	0.00100	1	10/10/2023 01:30	WG2147981
1,1-Dichloroethane	U		0.000100	0.00100	1	10/10/2023 01:30	WG2147981
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/10/2023 01:30	WG2147981
1,1-Dichloroethene	U		0.000188	0.00100	1	10/10/2023 01:30	WG2147981
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/10/2023 01:30	WG2147981

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Collected date/time: 10/03/23 10:15
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Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/10/2023 01:30	WG2147981
1,2-Dichloropropane	U		0.000149	0.00100	1	10/10/2023 01:30	WG2147981
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	10/10/2023 01:30	WG2147981
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/10/2023 01:30	WG2147981
Ethylbenzene	0.00600		0.000137	0.00100	1	10/10/2023 01:30	WG2147981
Isopropylbenzene	0.00698		0.000105	0.00100	1	10/10/2023 01:30	WG2147981
p-Isopropyltoluene	0.000238	J	0.000120	0.00100	1	10/10/2023 01:30	WG2147981
2-Butanone (MEK)	U		0.00119	0.0100	1	10/10/2023 01:30	WG2147981
2-Hexanone	U		0.000787	0.0100	1	10/10/2023 01:30	WG2147981
Methylene Chloride	U		0.000430	0.00500	1	10/10/2023 01:30	WG2147981
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/10/2023 01:30	WG2147981
Methyl tert-butyl ether	0.0379		0.000101	0.00100	1	10/10/2023 01:30	WG2147981
Naphthalene	U	J4	0.00100	0.00500	1	10/10/2023 01:30	WG2147981
n-Propylbenzene	0.00552		0.0000993	0.00100	1	10/10/2023 01:30	WG2147981
Styrene	U		0.000118	0.00100	1	10/10/2023 01:30	WG2147981
tert-Butyl alcohol	0.0358		0.00406	0.00500	1	10/10/2023 01:30	WG2147981
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	10/10/2023 01:30	WG2147981
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/10/2023 01:30	WG2147981
Tetrachloroethene	U		0.000300	0.00100	1	10/10/2023 01:30	WG2147981
Toluene	U		0.000278	0.00100	1	10/10/2023 01:30	WG2147981
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/10/2023 01:30	WG2147981
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/10/2023 01:30	WG2147981
Trichloroethene	U		0.000190	0.00100	1	10/10/2023 01:30	WG2147981
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/10/2023 01:30	WG2147981
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/10/2023 01:30	WG2147981
Vinyl chloride	U		0.000234	0.00100	1	10/10/2023 01:30	WG2147981
o-Xylene	U		0.000174	0.00100	1	10/10/2023 01:30	WG2147981
m&p-Xylene	0.000966	J	0.000430	0.00200	1	10/10/2023 01:30	WG2147981
Xylenes, Total	0.000966	J	0.000174	0.00300	1	10/10/2023 01:30	WG2147981
(S) Toluene-d8	*103*			*80.0-120*		*10/10/2023 01:30*	WG2147981
(S) 4-Bromofluorobenzene	*92.3*			*77.0-126*		*10/10/2023 01:30*	WG2147981
(S) 1,2-Dichloroethane-d4	*95.3*			*70.0-130*		*10/10/2023 01:30*	WG2147981

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	3.36		0.0247	0.100	1	10/14/2023 09:18	WG2148863
(S) o-Terphenyl	*88.4*			*31.0-160*		*10/14/2023 09:18*	WG2148863

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	492		10.0	1	10/10/2023 01:11	WG2146080

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	8.77		0.379	1.00	1	10/05/2023 07:40	WG2145066
Fluoride	0.430		0.0640	0.150	1	10/05/2023 07:40	WG2145066
Nitrate	0.315		0.0480	0.100	1	10/05/2023 07:40	WG2145066
Nitrite	0.330		0.0420	0.100	1	10/05/2023 07:40	WG2145066
Sulfate	251		2.97	25.0	5	10/13/2023 21:24	WG2149890

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00546		0.000180	0.00200	1	10/13/2023 03:03	WG2145201
Barium	0.120		0.000381	0.00200	1	10/13/2023 03:03	WG2145201
Calcium	121		0.0936	1.00	1	10/13/2023 03:03	WG2145201
Chromium	0.00193	J	0.00124	0.00200	1	10/13/2023 03:03	WG2145201
Iron	0.714		0.0281	0.100	1	10/13/2023 03:03	WG2145201
Lead	0.00274		0.000849	0.00200	1	10/13/2023 03:03	WG2145201
Manganese	0.0579		0.000704	0.00500	1	10/13/2023 03:03	WG2145201
Potassium	2.67		0.108	2.00	1	10/13/2023 03:03	WG2145201
Selenium	0.00155	J	0.000300	0.00200	1	10/13/2023 03:03	WG2145201
Sodium	7.23		0.376	2.00	1	10/13/2023 03:03	WG2145201

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	4.27		0.157	0.500	5	10/11/2023 15:35	WG2148738
(S) a,a,a-Trifluorotoluene(FID)	*84.6*			*78.0-120*		*10/11/2023 15:35*	WG2148738

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	10/10/2023 02:12	WG2147981
Benzene	0.386		0.000471	0.00500	5	10/10/2023 02:12	WG2147981
Bromodichloromethane	U		0.000680	0.00500	5	10/10/2023 02:12	WG2147981
Bromoform	U		0.000645	0.00500	5	10/10/2023 02:12	WG2147981
Bromomethane	U		0.00303	0.0250	5	10/10/2023 02:12	WG2147981
n-Butylbenzene	0.00222	J	0.000785	0.00500	5	10/10/2023 02:12	WG2147981
sec-Butylbenzene	0.00579		0.000625	0.00500	5	10/10/2023 02:12	WG2147981
Carbon disulfide	0.000482	J	0.000481	0.00500	5	10/10/2023 02:12	WG2147981
Carbon tetrachloride	U		0.000640	0.00500	5	10/10/2023 02:12	WG2147981
Chlorobenzene	U		0.000580	0.00500	5	10/10/2023 02:12	WG2147981
Chlorodibromomethane	U		0.000700	0.00500	5	10/10/2023 02:12	WG2147981
Chloroethane	U		0.000960	0.0250	5	10/10/2023 02:12	WG2147981
Chloroform	U		0.000555	0.0250	5	10/10/2023 02:12	WG2147981
Chloromethane	U		0.00480	0.0125	5	10/10/2023 02:12	WG2147981
1,2-Dibromoethane	U		0.000630	0.00500	5	10/10/2023 02:12	WG2147981
1,1-Dichloroethane	U		0.000500	0.00500	5	10/10/2023 02:12	WG2147981
1,2-Dichloroethane	U		0.000409	0.00500	5	10/10/2023 02:12	WG2147981
1,1-Dichloroethene	U		0.000940	0.00500	5	10/10/2023 02:12	WG2147981
cis-1,2-Dichloroethene	U		0.000630	0.00500	5	10/10/2023 02:12	WG2147981

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Collected date/time: 10/03/23 09:25
L1662588

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
trans-1,2-Dichloroethene	U		0.000745	0.00500	5	10/10/2023 02:12	WG2147981
1,2-Dichloropropane	U		0.000745	0.00500	5	10/10/2023 02:12	WG2147981
cis-1,3-Dichloropropene	U		0.000555	0.00500	5	10/10/2023 02:12	WG2147981
trans-1,3-Dichloropropene	U		0.000590	0.00500	5	10/10/2023 02:12	WG2147981
Ethylbenzene	0.0430		0.000685	0.00500	5	10/10/2023 02:12	WG2147981
Isopropylbenzene	0.0190		0.000525	0.00500	5	10/10/2023 02:12	WG2147981
p-Isopropyltoluene	0.00320	J	0.000600	0.00500	5	10/10/2023 02:12	WG2147981
2-Butanone (MEK)	U		0.00595	0.0500	5	10/10/2023 02:12	WG2147981
2-Hexanone	U		0.00394	0.0500	5	10/10/2023 02:12	WG2147981
Methylene Chloride	U		0.00215	0.0250	5	10/10/2023 02:12	WG2147981
4-Methyl-2-pentanone (MIBK)	U		0.00239	0.0500	5	10/10/2023 02:12	WG2147981
Methyl tert-butyl ether	U		0.000505	0.00500	5	10/10/2023 02:12	WG2147981
Naphthalene	U	J4	0.00500	0.0250	5	10/10/2023 02:12	WG2147981
n-Propylbenzene	0.0218		0.000497	0.00500	5	10/10/2023 02:12	WG2147981
Styrene	U		0.000590	0.00500	5	10/10/2023 02:12	WG2147981
tert-Butyl alcohol	U		0.0203	0.0250	5	10/10/2023 02:12	WG2147981
1,1,1,2-Tetrachloroethane	U		0.000735	0.00500	5	10/10/2023 02:12	WG2147981
1,1,2,2-Tetrachloroethane	U		0.000665	0.00500	5	10/10/2023 02:12	WG2147981
Tetrachloroethene	U		0.00150	0.00500	5	10/10/2023 02:12	WG2147981
Toluene	0.00149	J	0.00139	0.00500	5	10/10/2023 02:12	WG2147981
1,1,1-Trichloroethane	U		0.000745	0.00500	5	10/10/2023 02:12	WG2147981
1,1,2-Trichloroethane	U		0.000790	0.00500	5	10/10/2023 02:12	WG2147981
Trichloroethene	U		0.000950	0.00500	5	10/10/2023 02:12	WG2147981
1,2,4-Trimethylbenzene	0.0244		0.00161	0.00500	5	10/10/2023 02:12	WG2147981
1,3,5-Trimethylbenzene	0.00336	J	0.000520	0.00500	5	10/10/2023 02:12	WG2147981
Vinyl chloride	U		0.00117	0.00500	5	10/10/2023 02:12	WG2147981
o-Xylene	0.00106	J	0.000870	0.00500	5	10/10/2023 02:12	WG2147981
m&p-Xylene	0.0697		0.00215	0.0100	5	10/10/2023 02:12	WG2147981
Xylenes, Total	0.0708		0.000870	0.0150	5	10/10/2023 02:12	WG2147981
(S) Toluene-d8	*105*			*80.0-120*		*10/10/2023 02:12*	WG2147981
(S) 4-Bromofluorobenzene	*92.8*			*77.0-126*		*10/10/2023 02:12*	WG2147981
(S) 1,2-Dichloroethane-d4	*95.4*			*70.0-130*		*10/10/2023 02:12*	WG2147981

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	1.27		0.0247	0.100	1	10/14/2023 09:37	WG2148863
(S) o-Terphenyl	*86.3*			*31.0-160*		*10/14/2023 09:37*	WG2148863

Received by OCD: 6/12/2024 3:31:05 PM

MW-01
Collected date/time: 10/03/23 11:15
L1662588

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2350		50.0	1	10/10/2023 01:11	WG2146080

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	483		3.79	10.0	10	10/05/2023 03:46	WG2145090
Fluoride	0.789	J	0.640	1.50	10	10/05/2023 03:46	WG2145090
Nitrate	U		0.480	1.00	10	10/05/2023 03:46	WG2145090
Nitrite	U		0.420	1.00	10	10/05/2023 03:46	WG2145090
Sulfate	523		5.94	50.0	10	10/05/2023 03:46	WG2145090

Sample Narrative:

L1662588-56 WG2145090: Dilution due to matrix.

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	10/13/2023 13:05	WG2145201
Barium	0.0460		0.000381	0.00200	1	10/13/2023 13:05	WG2145201
Calcium	299		0.0936	1.00	1	10/13/2023 13:05	WG2145201
Chromium	U		0.00124	0.00200	1	10/13/2023 13:05	WG2145201
Iron	0.0342	J	0.0281	0.100	1	10/13/2023 13:05	WG2145201
Lead	0.00411		0.000849	0.00200	1	10/13/2023 13:05	WG2145201
Manganese	0.0282		0.000704	0.00500	1	10/13/2023 13:05	WG2145201
Potassium	0.819	J	0.108	2.00	1	10/13/2023 13:05	WG2145201
Selenium	U		0.000300	0.00200	1	10/13/2023 13:05	WG2145201
Sodium	277		0.376	2.00	1	10/13/2023 13:05	WG2145201

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	9.33		0.314	1.00	10	10/09/2023 04:32	WG2147504
(S) a,a,a-Trifluorotoluene(FID)	*95.8*			*78.0-120*		*10/09/2023 04:32*	WG2147504

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	10/10/2023 02:32	WG2147981
Benzene	1.21		0.000941	0.0100	10	10/10/2023 02:32	WG2147981
Bromodichloromethane	U		0.00136	0.0100	10	10/10/2023 02:32	WG2147981
Bromoform	U		0.00129	0.0100	10	10/10/2023 02:32	WG2147981
Bromomethane	U		0.00605	0.0500	10	10/10/2023 02:32	WG2147981
n-Butylbenzene	U		0.00157	0.0100	10	10/10/2023 02:32	WG2147981
sec-Butylbenzene	0.0123		0.00125	0.0100	10	10/10/2023 02:32	WG2147981
Carbon disulfide	0.00469	J	0.000962	0.0100	10	10/10/2023 02:32	WG2147981
Carbon tetrachloride	U		0.00128	0.0100	10	10/10/2023 02:32	WG2147981
Chlorobenzene	U		0.00116	0.0100	10	10/10/2023 02:32	WG2147981
Chlorodibromomethane	U		0.00140	0.0100	10	10/10/2023 02:32	WG2147981
Chloroethane	U		0.00192	0.0500	10	10/10/2023 02:32	WG2147981
Chloroform	U		0.00111	0.0500	10	10/10/2023 02:32	WG2147981
Chloromethane	U		0.00960	0.0250	10	10/10/2023 02:32	WG2147981
1,2-Dibromoethane	U		0.00126	0.0100	10	10/10/2023 02:32	WG2147981
1,1-Dichloroethane	U		0.00100	0.0100	10	10/10/2023 02:32	WG2147981

Released to Imaging: 6/28/2024 11:23:28 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
1,2-Dichloroethane	U		0.000819	0.0100	10	10/10/2023 02:32	WG2147981
1,1-Dichloroethene	U		0.00188	0.0100	10	10/10/2023 02:32	WG2147981
cis-1,2-Dichloroethene	U		0.00126	0.0100	10	10/10/2023 02:32	WG2147981
trans-1,2-Dichloroethene	U		0.00149	0.0100	10	10/10/2023 02:32	WG2147981
1,2-Dichloropropane	U		0.00149	0.0100	10	10/10/2023 02:32	WG2147981
cis-1,3-Dichloropropene	U		0.00111	0.0100	10	10/10/2023 02:32	WG2147981
trans-1,3-Dichloropropene	U		0.00118	0.0100	10	10/10/2023 02:32	WG2147981
Ethylbenzene	0.0625		0.00137	0.0100	10	10/10/2023 02:32	WG2147981
Isopropylbenzene	0.106		0.00105	0.0100	10	10/10/2023 02:32	WG2147981
p-Isopropyltoluene	0.00683	J	0.00120	0.0100	10	10/10/2023 02:32	WG2147981
2-Butanone (MEK)	U		0.0119	0.100	10	10/10/2023 02:32	WG2147981
2-Hexanone	U		0.00787	0.100	10	10/10/2023 02:32	WG2147981
Methylene Chloride	U		0.00430	0.0500	10	10/10/2023 02:32	WG2147981
4-Methyl-2-pentanone (MIBK)	U		0.00478	0.100	10	10/10/2023 02:32	WG2147981
Methyl tert-butyl ether	U		0.00101	0.0100	10	10/10/2023 02:32	WG2147981
Naphthalene	0.138	J4	0.0100	0.0500	10	10/10/2023 02:32	WG2147981
n-Propylbenzene	0.136		0.000993	0.0100	10	10/10/2023 02:32	WG2147981
Styrene	U		0.00118	0.0100	10	10/10/2023 02:32	WG2147981
tert-Butyl alcohol	U		0.0406	0.0500	10	10/10/2023 02:32	WG2147981
1,1,1,2-Tetrachloroethane	U		0.00147	0.0100	10	10/10/2023 02:32	WG2147981
1,1,2,2-Tetrachloroethane	U		0.00133	0.0100	10	10/10/2023 02:32	WG2147981
Tetrachloroethene	U		0.00300	0.0100	10	10/10/2023 02:32	WG2147981
Toluene	0.153		0.00278	0.0100	10	10/10/2023 02:32	WG2147981
1,1,1-Trichloroethane	U		0.00149	0.0100	10	10/10/2023 02:32	WG2147981
1,1,2-Trichloroethane	U		0.00158	0.0100	10	10/10/2023 02:32	WG2147981
Trichloroethene	U		0.00190	0.0100	10	10/10/2023 02:32	WG2147981
1,2,4-Trimethylbenzene	0.312		0.00322	0.0100	10	10/10/2023 02:32	WG2147981
1,3,5-Trimethylbenzene	0.0351		0.00104	0.0100	10	10/10/2023 02:32	WG2147981
Vinyl chloride	U		0.00234	0.0100	10	10/10/2023 02:32	WG2147981
o-Xylene	0.00648	J	0.00174	0.0100	10	10/10/2023 02:32	WG2147981
m&p-Xylene	0.811		0.00430	0.0200	10	10/10/2023 02:32	WG2147981
Xylenes, Total	0.817		0.00174	0.0300	10	10/10/2023 02:32	WG2147981
(S) Toluene-d8	*107*			*80.0-120*		*10/10/2023 02:32*	WG2147981
(S) 4-Bromofluorobenzene	*95.5*			*77.0-126*		*10/10/2023 02:32*	WG2147981
(S) 1,2-Dichloroethane-d4	*94.8*			*70.0-130*		*10/10/2023 02:32*	WG2147981

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	4.63		0.0247	0.100	1	10/14/2023 09:57	WG2148863
(S) o-Terphenyl	*113*			*31.0-160*		*10/14/2023 09:57*	WG2148863

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	0.000625	J	0.0000886	0.00100	1	10/10/2023 21:31	WG2147626
Acenaphthylene	U		0.0000921	0.00100	1	10/10/2023 21:31	WG2147626
Acetophenone	U		0.000208	0.0100	1	10/10/2023 21:31	WG2147626
Anthracene	0.00139		0.0000804	0.00100	1	10/10/2023 21:31	WG2147626
Atrazine	U		0.000255	0.0100	1	10/10/2023 21:31	WG2147626
Benzo(a)anthracene	U		0.000199	0.00100	1	10/10/2023 21:31	WG2147626
Benzaldehyde	U	J4	0.00169	0.0100	1	10/10/2023 21:31	WG2147626
Benzo(b)fluoranthene	U		0.000130	0.00100	1	10/10/2023 21:31	WG2147626
Benzo(k)fluoranthene	U		0.000120	0.00100	1	10/10/2023 21:31	WG2147626
Benzo(g,h,i)perylene	U		0.000121	0.00100	1	10/10/2023 21:31	WG2147626

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
Benzo(a)pyrene	U		0.0000381	0.000200	1	10/10/2023 21:31	WG2147626
Biphenyl	0.00383	J	0.000790	0.0100	1	10/10/2023 21:31	WG2147626
Bis(2-chlorethoxy)methane	U		0.000116	0.0100	1	10/10/2023 21:31	WG2147626
Bis(2-chloroethyl)ether	U		0.000137	0.0100	1	10/10/2023 21:31	WG2147626
2,2-Oxybis(1-Chloropropane)	U		0.000210	0.0100	1	10/10/2023 21:31	WG2147626
4-Bromophenyl-phenylether	U		0.0000877	0.0100	1	10/10/2023 21:31	WG2147626
2-Chloronaphthalene	U		0.0000648	0.00100	1	10/10/2023 21:31	WG2147626
4-Chlorophenyl-phenylether	U		0.0000926	0.0100	1	10/10/2023 21:31	WG2147626
Caprolactam	U		0.000309	0.0100	1	10/10/2023 21:31	WG2147626
Carbazole	0.00146	J	0.000111	0.0100	1	10/10/2023 21:31	WG2147626
Chrysene	U		0.000130	0.00100	1	10/10/2023 21:31	WG2147626
Dibenz(a,h)anthracene	U		0.0000644	0.000200	1	10/10/2023 21:31	WG2147626
Dibenzofuran	0.00305	J	0.0000970	0.0100	1	10/10/2023 21:31	WG2147626
3,3-Dichlorobenzidine	U		0.000212	0.0100	1	10/10/2023 21:31	WG2147626
2,4-Dinitrotoluene	U		0.0000983	0.0100	1	10/10/2023 21:31	WG2147626
2,6-Dinitrotoluene	U		0.000250	0.0100	1	10/10/2023 21:31	WG2147626
Fluoranthene	U		0.000102	0.00100	1	10/10/2023 21:31	WG2147626
Fluorene	0.00199		0.0000844	0.00100	1	10/10/2023 21:31	WG2147626
Hexachlorobenzene	U		0.0000755	0.00100	1	10/10/2023 21:31	WG2147626
Hexachloro-1,3-butadiene	U		0.0000968	0.0100	1	10/10/2023 21:31	WG2147626
Hexachlorocyclopentadiene	U		0.0000598	0.0100	1	10/10/2023 21:31	WG2147626
Hexachloroethane	U		0.000127	0.0100	1	10/10/2023 21:31	WG2147626
Indeno(1,2,3-cd)pyrene	U		0.000279	0.00100	1	10/10/2023 21:31	WG2147626
Isophorone	U		0.000143	0.0100	1	10/10/2023 21:31	WG2147626
1-Methylnaphthalene	0.0710		0.0000790	0.00100	1	10/10/2023 21:31	WG2147626
2-Methylnaphthalene	0.0307		0.000117	0.00100	1	10/10/2023 21:31	WG2147626
Naphthalene	0.101		0.000159	0.00100	1	10/10/2023 21:31	WG2147626
Nitrobenzene	U		0.000297	0.0100	1	10/10/2023 21:31	WG2147626
n-Nitrosodiphenylamine	U		0.00237	0.0100	1	10/10/2023 21:31	WG2147626
n-Nitrosodi-n-propylamine	U		0.000261	0.0100	1	10/10/2023 21:31	WG2147626
Phenanthrene	0.00134		0.000112	0.00100	1	10/10/2023 21:31	WG2147626
Benzylbutyl phthalate	U		0.000765	0.00300	1	10/10/2023 21:31	WG2147626
Bis(2-ethylhexyl)phthalate	0.0103		0.000895	0.00300	1	10/10/2023 21:31	WG2147626
Di-n-butyl phthalate	U		0.000453	0.00300	1	10/10/2023 21:31	WG2147626
Diethyl phthalate	U		0.000287	0.00300	1	10/10/2023 21:31	WG2147626
Dimethyl phthalate	U		0.000260	0.00300	1	10/10/2023 21:31	WG2147626
Di-n-octyl phthalate	U		0.000932	0.00300	1	10/10/2023 21:31	WG2147626
Pyrene	U		0.000107	0.00100	1	10/10/2023 21:31	WG2147626
1,2,4-Trichlorobenzene	U		0.0000698	0.0100	1	10/10/2023 21:31	WG2147626
4-Chloro-3-methylphenol	U		0.000131	0.0100	1	10/10/2023 21:31	WG2147626
2-Chlorophenol	U		0.000133	0.0100	1	10/10/2023 21:31	WG2147626
2,4-Dichlorophenol	U		0.000102	0.0100	1	10/10/2023 21:31	WG2147626
2,4-Dimethylphenol	U		0.0000636	0.0100	1	10/10/2023 21:31	WG2147626
4,6-Dinitro-2-methylphenol	U		0.00112	0.0100	1	10/10/2023 21:31	WG2147626
2,4-Dinitrophenol	U		0.00593	0.0100	1	10/10/2023 21:31	WG2147626
2-Nitrophenol	U		0.000117	0.0100	1	10/10/2023 21:31	WG2147626
2-Nitroaniline	U		0.000102	0.0100	1	10/10/2023 21:31	WG2147626
2-Methylphenol	U		0.0000929	0.0100	1	10/10/2023 21:31	WG2147626
3&4-Methyl Phenol	U		0.000168	0.0100	1	10/10/2023 21:31	WG2147626
3-Nitroaniline	U		0.0000869	0.0100	1	10/10/2023 21:31	WG2147626
4-Chloroaniline	U		0.000234	0.0100	1	10/10/2023 21:31	WG2147626
4-Nitroaniline	U		0.0000910	0.0100	1	10/10/2023 21:31	WG2147626
4-Nitrophenol	U		0.000143	0.0100	1	10/10/2023 21:31	WG2147626
Pentachlorophenol	U		0.000313	0.0100	1	10/10/2023 21:31	WG2147626
Phenol	U		0.00433	0.0100	1	10/10/2023 21:31	WG2147626
2,4,5-Trichlorophenol	U		0.000109	0.0100	1	10/10/2023 21:31	WG2147626

MW-01
Collected date/time: 10/03/23 11:15
L1662588

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	
2,4,6-Trichlorophenol	U		0.000100	0.0100	1	10/10/2023 21:31	WG2147626
(S) 2-Fluorophenol	*0.000*	J2		*10.0-120*		*10/10/2023 21:31*	WG2147626
(S) Phenol-d5	*20.7*			*10.0-120*		*10/10/2023 21:31*	WG2147626
(S) Nitrobenzene-d5	*64.8*			*10.0-127*		*10/10/2023 21:31*	WG2147626
(S) 2-Fluorobiphenyl	*49.1*			*10.0-130*		*10/10/2023 21:31*	WG2147626
(S) 2,4,6-Tribromophenol	*49.4*			*10.0-155*		*10/10/2023 21:31*	WG2147626
(S) p-Terphenyl-d14	*46.7*			*10.0-128*		*10/10/2023 21:31*	WG2147626

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2790		50.0	1	10/10/2023 01:11	WG2146080

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	87.6		3.79	10.0	10	10/05/2023 16:33	WG2145093
Fluoride	2.23		0.640	1.50	10	10/05/2023 16:33	WG2145093
Nitrate	U	Q	0.480	1.00	10	10/05/2023 16:33	WG2145093
Nitrite	U	Q	0.420	1.00	10	10/05/2023 16:33	WG2145093
Sulfate	1250		5.94	50.0	10	10/05/2023 16:33	WG2145093

Sample Narrative:

L1662588-58 WG2145093: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.000878	J	0.000180	0.00200	1	10/13/2023 13:08	WG2145201
Barium	0.0169		0.000381	0.00200	1	10/13/2023 13:08	WG2145201
Calcium	527		0.0936	1.00	1	10/13/2023 13:08	WG2145201
Chromium	U		0.00124	0.00200	1	10/13/2023 13:08	WG2145201
Iron	U		0.0281	0.100	1	10/13/2023 13:08	WG2145201
Lead	0.00551		0.000849	0.00200	1	10/13/2023 13:08	WG2145201
Manganese	0.0148		0.000704	0.00500	1	10/13/2023 13:08	WG2145201
Potassium	0.333	J	0.108	2.00	1	10/13/2023 13:08	WG2145201
Selenium	0.000369	J	0.000300	0.00200	1	10/13/2023 13:08	WG2145201
Sodium	93.8		0.376	2.00	1	10/13/2023 13:08	WG2145201

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	11.8		0.628	2.00	20	10/09/2023 05:15	WG2147504
(S) a,a,a-Trifluorotoluene(FID)	*99.1*			*78.0-120*		*10/09/2023 05:15*	WG2147504

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	10/09/2023 22:30	WG2147845
Benzene	0.502		0.000941	0.0100	10	10/09/2023 22:30	WG2147845
Bromodichloromethane	U		0.00136	0.0100	10	10/09/2023 22:30	WG2147845
Bromoform	U		0.00129	0.0100	10	10/09/2023 22:30	WG2147845
Bromomethane	U		0.00605	0.0500	10	10/09/2023 22:30	WG2147845
n-Butylbenzene	U		0.00157	0.0100	10	10/09/2023 22:30	WG2147845
sec-Butylbenzene	0.0134		0.00125	0.0100	10	10/09/2023 22:30	WG2147845
Carbon disulfide	0.0215		0.000962	0.0100	10	10/09/2023 22:30	WG2147845
Carbon tetrachloride	U		0.00128	0.0100	10	10/09/2023 22:30	WG2147845
Chlorobenzene	U		0.00116	0.0100	10	10/09/2023 22:30	WG2147845
Chlorodibromomethane	U		0.00140	0.0100	10	10/09/2023 22:30	WG2147845
Chloroethane	U		0.00192	0.0500	10	10/09/2023 22:30	WG2147845
Chloroform	U		0.00111	0.0500	10	10/09/2023 22:30	WG2147845
Chloromethane	U		0.00960	0.0250	10	10/09/2023 22:30	WG2147845
1,2-Dibromoethane	U		0.00126	0.0100	10	10/09/2023 22:30	WG2147845
1,1-Dichloroethane	U		0.00100	0.0100	10	10/09/2023 22:30	WG2147845

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	10/09/2023 22:30	WG2147845
1,1-Dichloroethene	U		0.00188	0.0100	10	10/09/2023 22:30	WG2147845
cis-1,2-Dichloroethene	U		0.00126	0.0100	10	10/09/2023 22:30	WG2147845
trans-1,2-Dichloroethene	U		0.00149	0.0100	10	10/09/2023 22:30	WG2147845
1,2-Dichloropropane	U		0.00149	0.0100	10	10/09/2023 22:30	WG2147845
cis-1,3-Dichloropropene	U		0.00111	0.0100	10	10/09/2023 22:30	WG2147845
trans-1,3-Dichloropropene	U		0.00118	0.0100	10	10/09/2023 22:30	WG2147845
Ethylbenzene	0.447		0.00137	0.0100	10	10/09/2023 22:30	WG2147845
Isopropylbenzene	0.109		0.00105	0.0100	10	10/09/2023 22:30	WG2147845
p-Isopropyltoluene	0.00677	J	0.00120	0.0100	10	10/09/2023 22:30	WG2147845
2-Butanone (MEK)	U		0.0119	0.100	10	10/09/2023 22:30	WG2147845
2-Hexanone	U		0.00787	0.100	10	10/09/2023 22:30	WG2147845
Methylene Chloride	U		0.00430	0.0500	10	10/09/2023 22:30	WG2147845
4-Methyl-2-pentanone (MIBK)	U		0.00478	0.100	10	10/09/2023 22:30	WG2147845
Methyl tert-butyl ether	U		0.00101	0.0100	10	10/09/2023 22:30	WG2147845
Naphthalene	0.306		0.0100	0.0500	10	10/09/2023 22:30	WG2147845
n-Propylbenzene	0.148		0.000993	0.0100	10	10/09/2023 22:30	WG2147845
Styrene	U		0.00118	0.0100	10	10/09/2023 22:30	WG2147845
tert-Butyl alcohol	U		0.0406	0.0500	10	10/09/2023 22:30	WG2147845
1,1,1,2-Tetrachloroethane	U		0.00147	0.0100	10	10/09/2023 22:30	WG2147845
1,1,2,2-Tetrachloroethane	U		0.00133	0.0100	10	10/09/2023 22:30	WG2147845
Tetrachloroethene	U		0.00300	0.0100	10	10/09/2023 22:30	WG2147845
Toluene	0.169		0.00278	0.0100	10	10/09/2023 22:30	WG2147845
1,1,1-Trichloroethane	U		0.00149	0.0100	10	10/09/2023 22:30	WG2147845
1,1,2-Trichloroethane	U		0.00158	0.0100	10	10/09/2023 22:30	WG2147845
Trichloroethene	U		0.00190	0.0100	10	10/09/2023 22:30	WG2147845
1,2,4-Trimethylbenzene	0.561		0.00322	0.0100	10	10/09/2023 22:30	WG2147845
1,3,5-Trimethylbenzene	0.126		0.00104	0.0100	10	10/09/2023 22:30	WG2147845
Vinyl chloride	U		0.00234	0.0100	10	10/09/2023 22:30	WG2147845
o-Xylene	0.0281		0.00174	0.0100	10	10/09/2023 22:30	WG2147845
m&p-Xylene	1.35		0.00430	0.0200	10	10/09/2023 22:30	WG2147845
Xylenes, Total	1.38		0.00174	0.0300	10	10/09/2023 22:30	WG2147845
(S) Toluene-d8	*90.1*			*80.0-120*		*10/09/2023 22:30*	WG2147845
(S) 4-Bromofluorobenzene	*86.5*			*77.0-126*		*10/09/2023 22:30*	WG2147845
(S) 1,2-Dichloroethane-d4	*99.8*			*70.0-130*		*10/09/2023 22:30*	WG2147845

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	5.30		0.0247	0.100	1	10/14/2023 10:17	WG2148863
(S) o-Terphenyl	*84.7*			*31.0-160*		*10/14/2023 10:17*	WG2148863

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	10/08/2023 03:46	WG2147138
Benzene	U		0.0000941	0.00100	1	10/08/2023 03:46	WG2147138
Bromodichloromethane	U		0.000136	0.00100	1	10/08/2023 03:46	WG2147138
Bromoform	U		0.000129	0.00100	1	10/08/2023 03:46	WG2147138
Bromomethane	U		0.000605	0.00500	1	10/08/2023 03:46	WG2147138
n-Butylbenzene	U		0.000157	0.00100	1	10/08/2023 03:46	WG2147138
sec-Butylbenzene	U		0.000125	0.00100	1	10/08/2023 03:46	WG2147138
Carbon disulfide	U		0.0000962	0.00100	1	10/08/2023 03:46	WG2147138
Carbon tetrachloride	U		0.000128	0.00100	1	10/08/2023 03:46	WG2147138
Chlorobenzene	U		0.000116	0.00100	1	10/08/2023 03:46	WG2147138
Chlorodibromomethane	U		0.000140	0.00100	1	10/08/2023 03:46	WG2147138
Chloroethane	U		0.000192	0.00500	1	10/08/2023 03:46	WG2147138
Chloroform	U		0.000111	0.00500	1	10/08/2023 03:46	WG2147138
Chloromethane	U		0.000960	0.00250	1	10/08/2023 03:46	WG2147138
1,2-Dibromoethane	U		0.000126	0.00100	1	10/08/2023 03:46	WG2147138
1,1-Dichloroethane	U		0.000100	0.00100	1	10/08/2023 03:46	WG2147138
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/08/2023 03:46	WG2147138
1,1-Dichloroethene	U		0.000188	0.00100	1	10/08/2023 03:46	WG2147138
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/08/2023 03:46	WG2147138
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/08/2023 03:46	WG2147138
1,2-Dichloropropane	U		0.000149	0.00100	1	10/08/2023 03:46	WG2147138
cis-1,3-Dichloropropene	U	J4	0.000111	0.00100	1	10/08/2023 03:46	WG2147138
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/08/2023 03:46	WG2147138
Ethylbenzene	U		0.000137	0.00100	1	10/08/2023 03:46	WG2147138
Isopropylbenzene	U		0.000105	0.00100	1	10/08/2023 03:46	WG2147138
p-Isopropyltoluene	U		0.000120	0.00100	1	10/08/2023 03:46	WG2147138
2-Butanone (MEK)	U		0.00119	0.0100	1	10/08/2023 03:46	WG2147138
2-Hexanone	U		0.000787	0.0100	1	10/08/2023 03:46	WG2147138
Methylene Chloride	U		0.000430	0.00500	1	10/08/2023 03:46	WG2147138
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/08/2023 03:46	WG2147138
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/08/2023 03:46	WG2147138
Naphthalene	U		0.00100	0.00500	1	10/08/2023 03:46	WG2147138
n-Propylbenzene	U		0.0000993	0.00100	1	10/08/2023 03:46	WG2147138
Styrene	U		0.000118	0.00100	1	10/08/2023 03:46	WG2147138
tert-Butyl alcohol	U		0.00406	0.00500	1	10/08/2023 03:46	WG2147138
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	10/08/2023 03:46	WG2147138
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/08/2023 03:46	WG2147138
Tetrachloroethene	U		0.000300	0.00100	1	10/08/2023 03:46	WG2147138
Toluene	U		0.000278	0.00100	1	10/08/2023 03:46	WG2147138
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/08/2023 03:46	WG2147138
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/08/2023 03:46	WG2147138
Trichloroethene	U		0.000190	0.00100	1	10/08/2023 03:46	WG2147138
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/08/2023 03:46	WG2147138
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/08/2023 03:46	WG2147138
Vinyl chloride	U		0.000234	0.00100	1	10/08/2023 03:46	WG2147138
o-Xylene	U		0.000174	0.00100	1	10/08/2023 03:46	WG2147138
m&p-Xylene	U		0.000430	0.00200	1	10/08/2023 03:46	WG2147138
Xylenes, Total	U		0.000174	0.00300	1	10/08/2023 03:46	WG2147138
(S) Toluene-d8	*119*			*80.0-120*		*10/08/2023 03:46*	WG2147138
(S) 4-Bromofluorobenzene	*97.8*			*77.0-126*		*10/08/2023 03:46*	WG2147138
(S) 1,2-Dichloroethane-d4	*117*			*70.0-130*		*10/08/2023 03:46*	WG2147138

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4400		50.0	1	10/10/2023 01:11	WG2146080

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	166		3.79	10.0	10	10/05/2023 03:59	WG2145090
Fluoride	2.34		0.640	1.50	10	10/05/2023 03:59	WG2145090
Nitrate	18.7		0.480	1.00	10	10/05/2023 03:59	WG2145090
Nitrite	0.566	J	0.420	1.00	10	10/05/2023 03:59	WG2145090
Sulfate	2070		59.4	500	100	10/05/2023 08:10	WG2145090

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00458		0.000180	0.00200	1	10/13/2023 03:16	WG2145201
Barium	0.0148		0.000381	0.00200	1	10/13/2023 03:16	WG2145201
Calcium	427		0.0936	1.00	1	10/13/2023 03:16	WG2145201
Chromium	U		0.00124	0.00200	1	10/13/2023 03:16	WG2145201
Iron	0.627		0.0281	0.100	1	10/13/2023 03:16	WG2145201
Lead	U		0.000849	0.00200	1	10/13/2023 03:16	WG2145201
Manganese	0.663		0.000704	0.00500	1	10/13/2023 03:16	WG2145201
Potassium	5.21		0.108	2.00	1	10/13/2023 03:16	WG2145201
Selenium	0.0203		0.000300	0.00200	1	10/13/2023 03:16	WG2145201
Sodium	299		0.376	2.00	1	10/13/2023 03:16	WG2145201

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	10/08/2023 06:20	WG2147138
Benzene	U		0.0000941	0.00100	1	10/08/2023 06:20	WG2147138
Bromodichloromethane	U		0.000136	0.00100	1	10/08/2023 06:20	WG2147138
Bromoform	U		0.000129	0.00100	1	10/08/2023 06:20	WG2147138
Bromomethane	U		0.000605	0.00500	1	10/08/2023 06:20	WG2147138
n-Butylbenzene	U		0.000157	0.00100	1	10/08/2023 06:20	WG2147138
sec-Butylbenzene	U		0.000125	0.00100	1	10/08/2023 06:20	WG2147138
Carbon disulfide	U		0.0000962	0.00100	1	10/08/2023 06:20	WG2147138
Carbon tetrachloride	U		0.000128	0.00100	1	10/08/2023 06:20	WG2147138
Chlorobenzene	U		0.000116	0.00100	1	10/08/2023 06:20	WG2147138
Chlorodibromomethane	U		0.000140	0.00100	1	10/08/2023 06:20	WG2147138
Chloroethane	U		0.000192	0.00500	1	10/08/2023 06:20	WG2147138
Chloroform	U		0.000111	0.00500	1	10/08/2023 06:20	WG2147138
Chloromethane	U		0.000960	0.00250	1	10/08/2023 06:20	WG2147138
1,2-Dibromoethane	U		0.000126	0.00100	1	10/08/2023 06:20	WG2147138
1,1-Dichloroethane	U		0.000100	0.00100	1	10/08/2023 06:20	WG2147138
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/08/2023 06:20	WG2147138
1,1-Dichloroethene	U		0.000188	0.00100	1	10/08/2023 06:20	WG2147138
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/08/2023 06:20	WG2147138
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/08/2023 06:20	WG2147138
1,2-Dichloropropane	U		0.000149	0.00100	1	10/08/2023 06:20	WG2147138
cis-1,3-Dichloropropene	U	J4	0.000111	0.00100	1	10/08/2023 06:20	WG2147138
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/08/2023 06:20	WG2147138
Ethylbenzene	U		0.000137	0.00100	1	10/08/2023 06:20	WG2147138
Isopropylbenzene	U		0.000105	0.00100	1	10/08/2023 06:20	WG2147138
p-Isopropyltoluene	U		0.000120	0.00100	1	10/08/2023 06:20	WG2147138

Received by OCD: 6/12/2024 3:31:05 PM

MW-30
Collected date/time: 10/03/23 11:55
L1662588

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
2-Butanone (MEK)	U		0.00119	0.0100	1	10/08/2023 06:20	WG2147138
2-Hexanone	U		0.000787	0.0100	1	10/08/2023 06:20	WG2147138
Methylene Chloride	U		0.000430	0.00500	1	10/08/2023 06:20	WG2147138
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/08/2023 06:20	WG2147138
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/08/2023 06:20	WG2147138
Naphthalene	0.00150	J	0.00100	0.00500	1	10/08/2023 06:20	WG2147138
n-Propylbenzene	U		0.0000993	0.00100	1	10/08/2023 06:20	WG2147138
Styrene	U		0.000118	0.00100	1	10/08/2023 06:20	WG2147138
tert-Butyl alcohol	U		0.00406	0.00500	1	10/08/2023 06:20	WG2147138
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	10/08/2023 06:20	WG2147138
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/08/2023 06:20	WG2147138
Tetrachloroethene	U		0.000300	0.00100	1	10/08/2023 06:20	WG2147138
Toluene	U		0.000278	0.00100	1	10/08/2023 06:20	WG2147138
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/08/2023 06:20	WG2147138
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/08/2023 06:20	WG2147138
Trichloroethene	U		0.000190	0.00100	1	10/08/2023 06:20	WG2147138
1,2,4-Trimethylbenzene	0.000669	J	0.000322	0.00100	1	10/08/2023 06:20	WG2147138
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/08/2023 06:20	WG2147138
Vinyl chloride	U		0.000234	0.00100	1	10/08/2023 06:20	WG2147138
o-Xylene	U		0.000174	0.00100	1	10/08/2023 06:20	WG2147138
m&p-Xylene	U		0.000430	0.00200	1	10/08/2023 06:20	WG2147138
Xylenes, Total	U		0.000174	0.00300	1	10/08/2023 06:20	WG2147138
(S) Toluene-d8	*120*			*80.0-120*		*10/08/2023 06:20*	WG2147138
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*10/08/2023 06:20*	WG2147138
(S) 1,2-Dichloroethane-d4	*116*			*70.0-130*		*10/08/2023 06:20*	WG2147138

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	0.320		0.0247	0.100	1	10/14/2023 10:36	WG2148863
(S) o-Terphenyl	*80.5*			*31.0-160*		*10/14/2023 10:36*	WG2148863

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Released to Imaging: 6/28/2024 11:23:28 AM

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	3110		50.0	1	10/10/2023 01:11	WG2146080

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	294		3.79	10.0	10	10/05/2023 07:56	WG2145066
Fluoride	1.27	J	0.640	1.50	10	10/05/2023 07:56	WG2145066
Nitrate	0.767	J	0.480	1.00	10	10/05/2023 07:56	WG2145066
Nitrite	U		0.420	1.00	10	10/05/2023 07:56	WG2145066
Sulfate	1350		5.94	50.0	10	10/05/2023 07:56	WG2145066

Sample Narrative:

L1662588-61 WG2145066: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00636		0.000180	0.00200	1	10/13/2023 03:26	WG2145201
Barium	0.0188		0.000381	0.00200	1	10/13/2023 03:26	WG2145201
Calcium	329		0.0936	1.00	1	10/13/2023 03:26	WG2145201
Chromium	U		0.00124	0.00200	1	10/13/2023 03:26	WG2145201
Iron	0.704		0.0281	0.100	1	10/13/2023 03:26	WG2145201
Lead	U		0.000849	0.00200	1	10/13/2023 03:26	WG2145201
Manganese	0.151		0.000704	0.00500	1	10/13/2023 03:26	WG2145201
Potassium	1.08	J	0.108	2.00	1	10/13/2023 03:26	WG2145201
Selenium	0.000972	J	0.000300	0.00200	1	10/13/2023 03:26	WG2145201
Sodium	188		0.376	2.00	1	10/13/2023 03:26	WG2145201

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	0.278		0.0314	0.100	1	10/14/2023 12:18	WG2151046
(S) a,a,a-Trifluorotoluene(FID)	*104*			*78.0-120*		*10/14/2023 12:18*	WG2151046

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	10/08/2023 06:42	WG2147138
Benzene	0.000921	J	0.0000941	0.00100	1	10/08/2023 06:42	WG2147138
Bromodichloromethane	U		0.000136	0.00100	1	10/08/2023 06:42	WG2147138
Bromoform	U		0.000129	0.00100	1	10/08/2023 06:42	WG2147138
Bromomethane	U		0.000605	0.00500	1	10/08/2023 06:42	WG2147138
n-Butylbenzene	U		0.000157	0.00100	1	10/08/2023 06:42	WG2147138
sec-Butylbenzene	0.00634		0.000125	0.00100	1	10/08/2023 06:42	WG2147138
Carbon disulfide	0.000360	J	0.0000962	0.00100	1	10/08/2023 06:42	WG2147138
Carbon tetrachloride	U		0.000128	0.00100	1	10/08/2023 06:42	WG2147138
Chlorobenzene	U		0.000116	0.00100	1	10/08/2023 06:42	WG2147138
Chlorodibromomethane	U		0.000140	0.00100	1	10/08/2023 06:42	WG2147138
Chloroethane	U		0.000192	0.00500	1	10/08/2023 06:42	WG2147138
Chloroform	U		0.000111	0.00500	1	10/08/2023 06:42	WG2147138
Chloromethane	U		0.000960	0.00250	1	10/08/2023 06:42	WG2147138
1,2-Dibromoethane	U		0.000126	0.00100	1	10/08/2023 06:42	WG2147138
1,1-Dichloroethane	U		0.000100	0.00100	1	10/08/2023 06:42	WG2147138

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	10/08/2023 06:42	WG2147138
1,1-Dichloroethene	U		0.000188	0.00100	1	10/08/2023 06:42	WG2147138
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/08/2023 06:42	WG2147138
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/08/2023 06:42	WG2147138
1,2-Dichloropropane	U		0.000149	0.00100	1	10/08/2023 06:42	WG2147138
cis-1,3-Dichloropropene	U	J4	0.000111	0.00100	1	10/08/2023 06:42	WG2147138
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/08/2023 06:42	WG2147138
Ethylbenzene	0.000147	J	0.000137	0.00100	1	10/08/2023 06:42	WG2147138
Isopropylbenzene	0.0389		0.000105	0.00100	1	10/08/2023 06:42	WG2147138
p-Isopropyltoluene	U		0.000120	0.00100	1	10/08/2023 06:42	WG2147138
2-Butanone (MEK)	U		0.00119	0.0100	1	10/08/2023 06:42	WG2147138
2-Hexanone	U		0.000787	0.0100	1	10/08/2023 06:42	WG2147138
Methylene Chloride	U		0.000430	0.00500	1	10/08/2023 06:42	WG2147138
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/08/2023 06:42	WG2147138
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/08/2023 06:42	WG2147138
Naphthalene	U		0.00100	0.00500	1	10/08/2023 06:42	WG2147138
n-Propylbenzene	0.00285		0.0000993	0.00100	1	10/08/2023 06:42	WG2147138
Styrene	U		0.000118	0.00100	1	10/08/2023 06:42	WG2147138
tert-Butyl alcohol	U		0.00406	0.00500	1	10/08/2023 06:42	WG2147138
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	10/08/2023 06:42	WG2147138
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/08/2023 06:42	WG2147138
Tetrachloroethene	U		0.000300	0.00100	1	10/08/2023 06:42	WG2147138
Toluene	U		0.000278	0.00100	1	10/08/2023 06:42	WG2147138
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/08/2023 06:42	WG2147138
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/08/2023 06:42	WG2147138
Trichloroethene	U		0.000190	0.00100	1	10/08/2023 06:42	WG2147138
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/08/2023 06:42	WG2147138
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/08/2023 06:42	WG2147138
Vinyl chloride	U		0.000234	0.00100	1	10/08/2023 06:42	WG2147138
o-Xylene	0.000212	J	0.000174	0.00100	1	10/08/2023 06:42	WG2147138
m&p-Xylene	U		0.000430	0.00200	1	10/08/2023 06:42	WG2147138
Xylenes, Total	0.000212	J	0.000174	0.00300	1	10/08/2023 06:42	WG2147138
(S) Toluene-d8	*120*			*80.0-120*		*10/08/2023 06:42*	WG2147138
(S) 4-Bromofluorobenzene	*108*			*77.0-126*		*10/08/2023 06:42*	WG2147138
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*		*10/08/2023 06:42*	WG2147138

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	3.36		0.0247	0.100	1	10/14/2023 10:56	WG2148863
(S) o-Terphenyl	*88.9*			*31.0-160*		*10/14/2023 10:56*	WG2148863

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1410		25.0	1	10/10/2023 01:11	WG2146080

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	153		3.79	10.0	10	10/05/2023 04:11	WG2145090
Fluoride	1.04	J	0.640	1.50	10	10/05/2023 04:11	WG2145090
Nitrate	1.25		0.480	1.00	10	10/05/2023 04:11	WG2145090
Nitrite	U		0.420	1.00	10	10/05/2023 04:11	WG2145090
Sulfate	196		5.94	50.0	10	10/05/2023 04:11	WG2145090

Sample Narrative:

L1662588-62 WG2145090: Dilution due to matrix.

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	10/13/2023 03:29	WG2145201
Barium	0.242		0.000381	0.00200	1	10/13/2023 03:29	WG2145201
Calcium	159		0.0936	1.00	1	10/13/2023 03:29	WG2145201
Chromium	U		0.00124	0.00200	1	10/13/2023 03:29	WG2145201
Iron	U		0.0281	0.100	1	10/13/2023 03:29	WG2145201
Lead	U		0.000849	0.00200	1	10/13/2023 03:29	WG2145201
Manganese	0.00221	J	0.000704	0.00500	1	10/13/2023 03:29	WG2145201
Potassium	1.12	J	0.108	2.00	1	10/13/2023 03:29	WG2145201
Selenium	0.000464	J	0.000300	0.00200	1	10/13/2023 03:29	WG2145201
Sodium	207		0.376	2.00	1	10/13/2023 03:29	WG2145201

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	27.6		0.314	1.00	10	10/09/2023 04:53	WG2147504
(S) a,a,a-Trifluorotoluene(FID)	*101*			*78.0-120*		*10/09/2023 04:53*	WG2147504

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	10/08/2023 09:59	WG2147138
Benzene	U		0.000941	0.0100	10	10/08/2023 09:59	WG2147138
Bromodichloromethane	U		0.00136	0.0100	10	10/08/2023 09:59	WG2147138
Bromoform	U		0.00129	0.0100	10	10/08/2023 09:59	WG2147138
Bromomethane	U		0.00605	0.0500	10	10/08/2023 09:59	WG2147138
n-Butylbenzene	U		0.00157	0.0100	10	10/08/2023 09:59	WG2147138
sec-Butylbenzene	0.00648	J	0.00125	0.0100	10	10/08/2023 09:59	WG2147138
Carbon disulfide	U		0.000962	0.0100	10	10/08/2023 09:59	WG2147138
Carbon tetrachloride	U		0.00128	0.0100	10	10/08/2023 09:59	WG2147138
Chlorobenzene	U		0.00116	0.0100	10	10/08/2023 09:59	WG2147138
Chlorodibromomethane	U		0.00140	0.0100	10	10/08/2023 09:59	WG2147138
Chloroethane	U		0.00192	0.0500	10	10/08/2023 09:59	WG2147138
Chloroform	U		0.00111	0.0500	10	10/08/2023 09:59	WG2147138
Chloromethane	U		0.00960	0.0250	10	10/08/2023 09:59	WG2147138
1,2-Dibromoethane	U		0.00126	0.0100	10	10/08/2023 09:59	WG2147138
1,1-Dichloroethane	U		0.00100	0.0100	10	10/08/2023 09:59	WG2147138

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	10/08/2023 09:59	WG2147138
1,1-Dichloroethene	U		0.00188	0.0100	10	10/08/2023 09:59	WG2147138
cis-1,2-Dichloroethene	U		0.00126	0.0100	10	10/08/2023 09:59	WG2147138
trans-1,2-Dichloroethene	U		0.00149	0.0100	10	10/08/2023 09:59	WG2147138
1,2-Dichloropropane	U		0.00149	0.0100	10	10/08/2023 09:59	WG2147138
cis-1,3-Dichloropropene	U	J4	0.00111	0.0100	10	10/08/2023 09:59	WG2147138
trans-1,3-Dichloropropene	U		0.00118	0.0100	10	10/08/2023 09:59	WG2147138
Ethylbenzene	U		0.00137	0.0100	10	10/08/2023 09:59	WG2147138
Isopropylbenzene	0.0560		0.00105	0.0100	10	10/08/2023 09:59	WG2147138
p-Isopropyltoluene	U		0.00120	0.0100	10	10/08/2023 09:59	WG2147138
2-Butanone (MEK)	U		0.0119	0.100	10	10/08/2023 09:59	WG2147138
2-Hexanone	U		0.00787	0.100	10	10/08/2023 09:59	WG2147138
Methylene Chloride	U		0.00430	0.0500	10	10/08/2023 09:59	WG2147138
4-Methyl-2-pentanone (MIBK)	U		0.00478	0.100	10	10/08/2023 09:59	WG2147138
Methyl tert-butyl ether	36.3		0.101	1.00	1000	10/09/2023 22:48	WG2147845
Naphthalene	U		0.0100	0.0500	10	10/08/2023 09:59	WG2147138
n-Propylbenzene	0.0421		0.000993	0.0100	10	10/08/2023 09:59	WG2147138
Styrene	U		0.00118	0.0100	10	10/08/2023 09:59	WG2147138
tert-Butyl alcohol	U		0.0406	0.0500	10	10/08/2023 09:59	WG2147138
1,1,1,2-Tetrachloroethane	U		0.00147	0.0100	10	10/08/2023 09:59	WG2147138
1,1,2,2-Tetrachloroethane	U		0.00133	0.0100	10	10/08/2023 09:59	WG2147138
Tetrachloroethene	U		0.00300	0.0100	10	10/08/2023 09:59	WG2147138
Toluene	U		0.00278	0.0100	10	10/08/2023 09:59	WG2147138
1,1,1-Trichloroethane	U		0.00149	0.0100	10	10/08/2023 09:59	WG2147138
1,1,2-Trichloroethane	U		0.00158	0.0100	10	10/08/2023 09:59	WG2147138
Trichloroethene	U		0.00190	0.0100	10	10/08/2023 09:59	WG2147138
1,2,4-Trimethylbenzene	U		0.00322	0.0100	10	10/08/2023 09:59	WG2147138
1,3,5-Trimethylbenzene	U		0.00104	0.0100	10	10/08/2023 09:59	WG2147138
Vinyl chloride	U		0.00234	0.0100	10	10/08/2023 09:59	WG2147138
o-Xylene	U		0.00174	0.0100	10	10/08/2023 09:59	WG2147138
m&p-Xylene	U		0.00430	0.0200	10	10/08/2023 09:59	WG2147138
Xylenes, Total	U		0.00174	0.0300	10	10/08/2023 09:59	WG2147138
(S) Toluene-d8	*120*			*80.0-120*		*10/08/2023 09:59*	WG2147138
(S) Toluene-d8	*88.7*			*80.0-120*		*10/09/2023 22:48*	WG2147845
(S) 4-Bromofluorobenzene	*102*			*77.0-126*		*10/08/2023 09:59*	WG2147138
(S) 4-Bromofluorobenzene	*87.7*			*77.0-126*		*10/09/2023 22:48*	WG2147845
(S) 1,2-Dichloroethane-d4	*115*			*70.0-130*		*10/08/2023 09:59*	WG2147138
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*10/09/2023 22:48*	WG2147845

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	6.69		0.0247	0.100	1	10/14/2023 11:16	WG2148863
(S) o-Terphenyl	*93.7*			*31.0-160*		*10/14/2023 11:16*	WG2148863

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3460		50.0	1	10/10/2023 01:11	WG2146080

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	589		3.79	10.0	10	10/05/2023 08:12	WG2145066
Fluoride	1.45	J	0.640	1.50	10	10/05/2023 08:12	WG2145066
Nitrate	1.62		0.480	1.00	10	10/05/2023 08:12	WG2145066
Nitrite	U		0.420	1.00	10	10/05/2023 08:12	WG2145066
Sulfate	1170		5.94	50.0	10	10/05/2023 08:12	WG2145066

Sample Narrative:

L1662588-63 WG2145066: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00679		0.000180	0.00200	1	10/13/2023 13:12	WG2145201
Barium	0.0181		0.000381	0.00200	1	10/13/2023 13:12	WG2145201
Calcium	526		0.0936	1.00	1	10/13/2023 13:12	WG2145201
Chromium	U		0.00124	0.00200	1	10/13/2023 13:12	WG2145201
Iron	2.81		0.0281	0.100	1	10/13/2023 13:12	WG2145201
Lead	U		0.000849	0.00200	1	10/13/2023 13:12	WG2145201
Manganese	0.141		0.000704	0.00500	1	10/13/2023 13:12	WG2145201
Potassium	5.93		0.108	2.00	1	10/13/2023 13:12	WG2145201
Selenium	0.00121	J	0.000300	0.00200	1	10/13/2023 13:12	WG2145201
Sodium	314		0.376	2.00	1	10/13/2023 13:12	WG2145201

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	10/08/2023 07:03	WG2147138
Benzene	U		0.0000941	0.00100	1	10/08/2023 07:03	WG2147138
Bromodichloromethane	U		0.000136	0.00100	1	10/08/2023 07:03	WG2147138
Bromoform	U		0.000129	0.00100	1	10/08/2023 07:03	WG2147138
Bromomethane	U		0.000605	0.00500	1	10/08/2023 07:03	WG2147138
n-Butylbenzene	U		0.000157	0.00100	1	10/08/2023 07:03	WG2147138
sec-Butylbenzene	U		0.000125	0.00100	1	10/08/2023 07:03	WG2147138
Carbon disulfide	U		0.0000962	0.00100	1	10/08/2023 07:03	WG2147138
Carbon tetrachloride	U		0.000128	0.00100	1	10/08/2023 07:03	WG2147138
Chlorobenzene	U		0.000116	0.00100	1	10/08/2023 07:03	WG2147138
Chlorodibromomethane	U		0.000140	0.00100	1	10/08/2023 07:03	WG2147138
Chloroethane	U		0.000192	0.00500	1	10/08/2023 07:03	WG2147138
Chloroform	U		0.000111	0.00500	1	10/08/2023 07:03	WG2147138
Chloromethane	U		0.000960	0.00250	1	10/08/2023 07:03	WG2147138
1,2-Dibromoethane	U		0.000126	0.00100	1	10/08/2023 07:03	WG2147138
1,1-Dichloroethane	U		0.000100	0.00100	1	10/08/2023 07:03	WG2147138
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/08/2023 07:03	WG2147138
1,1-Dichloroethene	U		0.000188	0.00100	1	10/08/2023 07:03	WG2147138
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/08/2023 07:03	WG2147138
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/08/2023 07:03	WG2147138
1,2-Dichloropropane	U		0.000149	0.00100	1	10/08/2023 07:03	WG2147138
cis-1,3-Dichloropropene	U	J4	0.000111	0.00100	1	10/08/2023 07:03	WG2147138
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/08/2023 07:03	WG2147138

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Ethylbenzene	U		0.000137	0.00100	1	10/08/2023 07:03	WG2147138
Isopropylbenzene	U		0.000105	0.00100	1	10/08/2023 07:03	WG2147138
p-Isopropyltoluene	U		0.000120	0.00100	1	10/08/2023 07:03	WG2147138
2-Butanone (MEK)	U		0.00119	0.0100	1	10/08/2023 07:03	WG2147138
2-Hexanone	U		0.000787	0.0100	1	10/08/2023 07:03	WG2147138
Methylene Chloride	U		0.000430	0.00500	1	10/08/2023 07:03	WG2147138
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/08/2023 07:03	WG2147138
Methyl tert-butyl ether	0.000320	J	0.000101	0.00100	1	10/08/2023 07:03	WG2147138
Naphthalene	U		0.00100	0.00500	1	10/08/2023 07:03	WG2147138
n-Propylbenzene	U		0.0000993	0.00100	1	10/08/2023 07:03	WG2147138
Styrene	U		0.000118	0.00100	1	10/08/2023 07:03	WG2147138
tert-Butyl alcohol	U		0.00406	0.00500	1	10/08/2023 07:03	WG2147138
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	10/08/2023 07:03	WG2147138
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/08/2023 07:03	WG2147138
Tetrachloroethene	U		0.000300	0.00100	1	10/08/2023 07:03	WG2147138
Toluene	U		0.000278	0.00100	1	10/08/2023 07:03	WG2147138
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/08/2023 07:03	WG2147138
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/08/2023 07:03	WG2147138
Trichloroethene	U		0.000190	0.00100	1	10/08/2023 07:03	WG2147138
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/08/2023 07:03	WG2147138
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/08/2023 07:03	WG2147138
Vinyl chloride	U		0.000234	0.00100	1	10/08/2023 07:03	WG2147138
o-Xylene	U		0.000174	0.00100	1	10/08/2023 07:03	WG2147138
m&p-Xylene	U		0.000430	0.00200	1	10/08/2023 07:03	WG2147138
Xylenes, Total	U		0.000174	0.00300	1	10/08/2023 07:03	WG2147138
(S) Toluene-d8	*118*			*80.0-120*		*10/08/2023 07:03*	WG2147138
(S) 4-Bromofluorobenzene	*101*			*77.0-126*		*10/08/2023 07:03*	WG2147138
(S) 1,2-Dichloroethane-d4	*116*			*70.0-130*		*10/08/2023 07:03*	WG2147138

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	8.48		0.494	2.00	20	10/14/2023 12:15	WG2148863
(S) o-Terphenyl	*0.000*	J7		*31.0-160*		*10/14/2023 12:15*	WG2148863

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2610		50.0	1	10/10/2023 01:11	WG2146080

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	95.9		3.79	10.0	10	10/05/2023 04:24	WG2145090
Fluoride	1.66		0.640	1.50	10	10/05/2023 04:24	WG2145090
Nitrate	4.04		0.480	1.00	10	10/05/2023 04:24	WG2145090
Nitrite	U		0.420	1.00	10	10/05/2023 04:24	WG2145090
Sulfate	1380		5.94	50.0	10	10/05/2023 04:24	WG2145090

Sample Narrative:

L1662588-64 WG2145090: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00838		0.000180	0.00200	1	10/13/2023 03:36	WG2145201
Barium	0.0165		0.000381	0.00200	1	10/13/2023 03:36	WG2145201
Calcium	357		0.0936	1.00	1	10/13/2023 03:36	WG2145201
Chromium	U		0.00124	0.00200	1	10/13/2023 03:36	WG2145201
Iron	0.402		0.0281	0.100	1	10/13/2023 03:36	WG2145201
Lead	U		0.000849	0.00200	1	10/13/2023 03:36	WG2145201
Manganese	0.793		0.000704	0.00500	1	10/13/2023 03:36	WG2145201
Potassium	2.11		0.108	2.00	1	10/13/2023 03:36	WG2145201
Selenium	U		0.000300	0.00200	1	10/13/2023 03:36	WG2145201
Sodium	164		0.376	2.00	1	10/13/2023 03:36	WG2145201

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	10/08/2023 07:25	WG2147138
Benzene	U		0.0000941	0.00100	1	10/08/2023 07:25	WG2147138
Bromodichloromethane	U		0.000136	0.00100	1	10/08/2023 07:25	WG2147138
Bromoform	U		0.000129	0.00100	1	10/08/2023 07:25	WG2147138
Bromomethane	U		0.000605	0.00500	1	10/08/2023 07:25	WG2147138
n-Butylbenzene	U		0.000157	0.00100	1	10/08/2023 07:25	WG2147138
sec-Butylbenzene	U		0.000125	0.00100	1	10/08/2023 07:25	WG2147138
Carbon disulfide	U		0.0000962	0.00100	1	10/08/2023 07:25	WG2147138
Carbon tetrachloride	U		0.000128	0.00100	1	10/08/2023 07:25	WG2147138
Chlorobenzene	U		0.000116	0.00100	1	10/08/2023 07:25	WG2147138
Chlorodibromomethane	U		0.000140	0.00100	1	10/08/2023 07:25	WG2147138
Chloroethane	U		0.000192	0.00500	1	10/08/2023 07:25	WG2147138
Chloroform	U		0.000111	0.00500	1	10/08/2023 07:25	WG2147138
Chloromethane	U		0.000960	0.00250	1	10/08/2023 07:25	WG2147138
1,2-Dibromoethane	U		0.000126	0.00100	1	10/08/2023 07:25	WG2147138
1,1-Dichloroethane	U		0.000100	0.00100	1	10/08/2023 07:25	WG2147138
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/08/2023 07:25	WG2147138
1,1-Dichloroethene	U		0.000188	0.00100	1	10/08/2023 07:25	WG2147138
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/08/2023 07:25	WG2147138
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/08/2023 07:25	WG2147138
1,2-Dichloropropane	U		0.000149	0.00100	1	10/08/2023 07:25	WG2147138
cis-1,3-Dichloropropene	U	J4	0.000111	0.00100	1	10/08/2023 07:25	WG2147138
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/08/2023 07:25	WG2147138

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	10/08/2023 07:25	WG2147138
Isopropylbenzene	0.000668	J	0.000105	0.00100	1	10/08/2023 07:25	WG2147138
p-Isopropyltoluene	U		0.000120	0.00100	1	10/08/2023 07:25	WG2147138
2-Butanone (MEK)	U		0.00119	0.0100	1	10/08/2023 07:25	WG2147138
2-Hexanone	U		0.000787	0.0100	1	10/08/2023 07:25	WG2147138
Methylene Chloride	U		0.000430	0.00500	1	10/08/2023 07:25	WG2147138
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/08/2023 07:25	WG2147138
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/08/2023 07:25	WG2147138
Naphthalene	U		0.00100	0.00500	1	10/08/2023 07:25	WG2147138
n-Propylbenzene	U		0.0000993	0.00100	1	10/08/2023 07:25	WG2147138
Styrene	U		0.000118	0.00100	1	10/08/2023 07:25	WG2147138
tert-Butyl alcohol	U		0.00406	0.00500	1	10/08/2023 07:25	WG2147138
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	10/08/2023 07:25	WG2147138
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/08/2023 07:25	WG2147138
Tetrachloroethene	U		0.000300	0.00100	1	10/08/2023 07:25	WG2147138
Toluene	U		0.000278	0.00100	1	10/08/2023 07:25	WG2147138
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/08/2023 07:25	WG2147138
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/08/2023 07:25	WG2147138
Trichloroethene	U		0.000190	0.00100	1	10/08/2023 07:25	WG2147138
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/08/2023 07:25	WG2147138
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/08/2023 07:25	WG2147138
Vinyl chloride	U		0.000234	0.00100	1	10/08/2023 07:25	WG2147138
o-Xylene	U		0.000174	0.00100	1	10/08/2023 07:25	WG2147138
m&p-Xylene	U		0.000430	0.00200	1	10/08/2023 07:25	WG2147138
Xylenes, Total	U		0.000174	0.00300	1	10/08/2023 07:25	WG2147138
(S) Toluene-d8	*121*	J1		*80.0-120*		*10/08/2023 07:25*	WG2147138
(S) 4-Bromofluorobenzene	*105*			*77.0-126*		*10/08/2023 07:25*	WG2147138
(S) 1,2-Dichloroethane-d4	*119*			*70.0-130*		*10/08/2023 07:25*	WG2147138

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	4.30		0.0247	0.100	1	10/14/2023 11:35	WG2148863
(S) o-Terphenyl	*90.0*			*31.0-160*		*10/14/2023 11:35*	WG2148863

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Method Blank (MB)

(MB) R3984334-1 10/08/23 15:59

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1662394-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1662394-02 10/08/23 15:59 • (DUP) R3984334-3 10/08/23 15:59

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	1450	1480	1	2.05		5

L1662465-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1662465-02 10/08/23 15:59 • (DUP) R3984334-4 10/08/23 15:59

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	1030	1130	1	9.45	J3	5

Laboratory Control Sample (LCS)

(LCS) R3984334-2 10/08/23 15:59

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8700	98.9	77.3-123	

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Method Blank (MB)

(MB) R3984898-1 10/09/23 09:36

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1662588-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1662588-03 10/09/23 09:36 • (DUP) R3984898-3 10/09/23 09:36

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	7080	7320	1	3.33		5

L1662588-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1662588-08 10/09/23 09:36 • (DUP) R3984898-4 10/09/23 09:36

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	8660	8160	1	5.95	J3	5

Laboratory Control Sample (LCS)

(LCS) R3984898-2 10/09/23 09:36

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8690	98.8	77.3-123	

Received by OCD: 6/12/2024 3:31:05 PM

Method Blank (MB)

(MB) R3985449-1 10/10/23 12:15

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1662588-28 Original Sample (OS) • Duplicate (DUP)

(OS) L1662588-28 10/10/23 12:15 • (DUP) R3985449-3 10/10/23 12:15

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	3520	4250	1	18.8	J3	5

L1662588-29 Original Sample (OS) • Duplicate (DUP)

(OS) L1662588-29 10/10/23 12:15 • (DUP) R3985449-4 10/10/23 12:15

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	2420	2830	1	15.4	J3	5

Laboratory Control Sample (LCS)

(LCS) R3985449-2 10/10/23 12:15

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8410	95.6	77.3-123	

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Method Blank (MB)

(MB) R3985545-1 10/10/23 01:11

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1662588-54 Original Sample (OS) • Duplicate (DUP)

(OS) L1662588-54 10/10/23 01:11 • (DUP) R3985545-3 10/10/23 01:11

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	978	990	1	1.22		5

L1662637-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1662637-01 10/10/23 01:11 • (DUP) R3985545-4 10/10/23 01:11

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	248	267	1	7.38	J3	5

Laboratory Control Sample (LCS)

(LCS) R3985545-2 10/10/23 01:11

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8220	93.4	77.3-123	

Received by OCD: 6/12/2024 3:31:05 PM

Method Blank (MB)

(MB) R3986723-1 10/13/23 00:00

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1663622-14 Original Sample (OS) • Duplicate (DUP)

(OS) L1663622-14 10/13/23 00:00 • (DUP) R3986723-3 10/13/23 00:00

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	1550	1570	1	1.15		5

L1664648-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1664648-09 10/13/23 00:00 • (DUP) R3986723-4 10/13/23 00:00

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	608	609	1	0.164		5

Laboratory Control Sample (LCS)

(LCS) R3986723-2 10/13/23 00:00

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8520	96.8	77.3-123	

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Method Blank (MB)

(MB) R3982639-1 10/05/23 23:13

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Cyanide	U		0.00180	0.00500

L1662580-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1662580-02 10/05/23 23:23 • (DUP) R3982639-3 10/05/23 23:25

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	U	U	1	0.000		20

L1662588-33 Original Sample (OS) • Duplicate (DUP)

(OS) L1662588-33 10/05/23 23:33 • (DUP) R3982639-4 10/05/23 23:35

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) R3982639-2 10/05/23 23:14

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Cyanide	0.100	0.0909	90.9	87.1-120	

L1662588-40 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1662588-40 10/05/23 23:37 • (MS) R3982639-5 10/05/23 23:39 • (MSD) R3982639-6 10/05/23 23:40

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	0.0909	0.0976	90.9	97.6	1	90.0-110			7.11	20

L1662588-44 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1662588-44 10/05/23 23:49 • (MS) R3982639-7 10/05/23 23:50 • (MSD) R3982639-8 10/05/23 23:52

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 %
Cyanide	0.100	U	0.0979	0.0994	97.9	99.4	1	90.0-110			1.52	20

Method Blank (MB)

(MB) R3985581-1 10/04/23 10:40

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
Nitrate	U		0.0480	0.100
Nitrite	U		0.0420	0.100
Sulfate	U		0.594	5.00

L1662588-54 Original Sample (OS) • Duplicate (DUP)

(OS) L1662588-54 10/05/23 07:24 • (DUP) R3985581-3 10/05/23 13:14

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	82.4	82.4	1	0.0476		15
Fluoride	1.07	0.994	1	7.38		15
Nitrate	0.119	0.117	1	1.52		15
Nitrite	U	U	1	0.000		15
Sulfate	80.4	80.3	1	0.0943		15

L1662728-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1662728-02 10/05/23 08:28 • (DUP) R3985581-6 10/05/23 15:06

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	38.5	38.6	1	0.161		15
Fluoride	0.0945	0.0761	1	21.6	J P1	15
Nitrate	0.0775	0.0855	1	9.82	J	15
Nitrite	U	U	1	0.000		15
Sulfate	8.60	8.67	1	0.828		15

Laboratory Control Sample (LCS)

(LCS) R3985581-2 10/04/23 10:56

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	39.7	99.3	80.0-120	
Fluoride	8.00	8.18	102	80.0-120	
Nitrate	8.00	7.89	98.6	80.0-120	
Nitrite	8.00	8.36	104	80.0-120	

Laboratory Control Sample (LCS)

(LCS) R3985581-2 10/04/23 10:56

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Sulfate	40.0	38.5	96.4	80.0-120	

L1662588-54 Original Sample (OS) • Matrix Spike (MS)

(OS) L1662588-54 10/05/23 07:24 • (MS) R3985581-4 10/05/23 13:30

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40.0	82.4	106	58.3	1	80.0-120	J6
Fluoride	8.00	1.07	8.52	93.2	1	80.0-120	
Nitrate	8.00	0.119	7.58	93.3	1	80.0-120	
Nitrite	8.00	U	8.02	100	1	80.0-120	
Sulfate	40.0	80.4	105	60.3	1	80.0-120	J6

L1662728-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1662728-02 10/05/23 08:28 • (MS) R3985581-7 10/05/23 15:22 • (MSD) R3985581-8 10/05/23 16:09

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 %
Chloride	40.0	38.5	70.9	70.8	80.9	80.8	1	80.0-120			0.0781	15
Fluoride	8.00	0.0945	7.74	7.69	95.6	95.0	1	80.0-120			0.654	15
Nitrate	8.00	0.0775	7.71	7.70	95.5	95.2	1	80.0-120			0.236	15
Nitrite	8.00	U	8.18	8.16	102	102	1	80.0-120			0.348	15
Sulfate	40.0	8.60	45.2	44.9	91.6	90.6	1	80.0-120			0.869	15

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Method Blank (MB)

(MB) R3985303-1 10/04/23 21:48

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
Nitrate	U		0.0480	0.100
Nitrite	U		0.0420	0.100
Sulfate	U		0.594	5.00

L1662014-37 Original Sample (OS) • Duplicate (DUP)

(OS) L1662014-37 10/04/23 23:07 • (DUP) R3985303-3 10/05/23 04:36

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate	0.0889	0.0912	1	2.55	J	15
Nitrite	U	U	1	0.000		15

L1662529-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1662529-01 10/05/23 00:01 • (DUP) R3985303-6 10/05/23 05:14

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	195	196	1	0.416		15
Fluoride	5.90	5.80	1	1.77		15
Nitrate	5.38	5.41	1	0.471		15
Nitrite	0.215	0.304	1	34.2	P1	15
Sulfate	861	863	1	0.203	E	15

Laboratory Control Sample (LCS)

(LCS) R3985303-2 10/04/23 22:01

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	39.6	99.0	80.0-120	
Fluoride	8.00	7.92	99.1	80.0-120	
Nitrate	8.00	7.55	94.4	80.0-120	
Nitrite	8.00	7.74	96.7	80.0-120	
Sulfate	40.0	39.4	98.6	80.0-120	

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L1662014-37 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1662014-37 10/04/23 23:07 • (MS) R3985303-4 10/05/23 04:49 • (MSD) R3985303-5 10/05/23 05:02

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 %
Nitrate	8.00	0.0889	7.85	7.95	97.0	98.2	1	80.0-120			1.27	15
Nitrite	8.00	U	8.31	8.38	104	105	1	80.0-120			0.882	15

L1662529-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1662529-01 10/05/23 00:01 • (MS) R3985303-7 10/05/23 05:27

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40.0	195	198	6.14	1	80.0-120	V
Fluoride	8.00	5.90	13.6	96.6	1	80.0-120	
Nitrate	8.00	5.38	12.9	94.2	1	80.0-120	
Nitrite	8.00	0.215	8.70	106	1	80.0-120	
Sulfate	40.0	861	282	0.000	1	80.0-120	E V

Method Blank (MB)

(MB) R3984451-1 10/05/23 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
Nitrate	U		0.0480	0.100
Nitrite	U		0.0420	0.100
Sulfate	U		0.594	5.00

L1662588-20 Original Sample (OS) • Duplicate (DUP)

(OS) L1662588-20 10/05/23 11:23 • (DUP) R3984451-3 10/05/23 13:31

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	0.536	0.501	1	6.67	J	15
Fluoride	U	U	1	0.000		15
Nitrate	U	0.0516	1	200	J P1	15
Nitrite	U	U	1	0.000		15
Sulfate	U	U	1	0.000		15

L1662728-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1662728-09 10/05/23 18:41 • (DUP) R3984451-6 10/05/23 18:53

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	2.62	2.59	1	0.914		15
Fluoride	U	0.0704	1	200	J P1	15
Nitrate	U	U	1	0.000		15
Nitrite	U	U	1	0.000		15
Sulfate	2.36	2.35	1	0.310	J	15

Laboratory Control Sample (LCS)

(LCS) R3984451-2 10/05/23 09:41

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	39.4	98.4	80.0-120	
Fluoride	8.00	7.95	99.3	80.0-120	
Nitrate	8.00	7.79	97.4	80.0-120	
Nitrite	8.00	8.18	102	80.0-120	

Laboratory Control Sample (LCS)

(LCS) R3984451-2 10/05/23 09:41

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Sulfate	40.0	39.2	98.0	80.0-120	

L1662588-20 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1662588-20 10/05/23 11:23 • (MS) R3984451-4 10/05/23 13:44 • (MSD) R3984451-5 10/05/23 13:56

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	40.0	0.536	39.8	40.0	98.2	98.6	1	80.0-120			0.437	15
Fluoride	8.00	U	8.02	8.10	100	101	1	80.0-120			0.894	15
Nitrate	8.00	U	7.94	7.96	99.3	99.5	1	80.0-120			0.246	15
Nitrite	8.00	U	8.21	8.27	103	103	1	80.0-120			0.671	15
Sulfate	40.0	U	39.2	39.5	98.1	98.8	1	80.0-120			0.704	15

L1662728-09 Original Sample (OS) • Matrix Spike (MS)

(OS) L1662728-09 10/05/23 18:41 • (MS) R3984451-7 10/05/23 19:06

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40.0	2.62	41.7	97.8	1	80.0-120	
Fluoride	8.00	U	8.06	101	1	80.0-120	
Nitrate	8.00	U	7.66	95.8	1	80.0-120	
Nitrite	8.00	U	8.16	102	1	80.0-120	
Sulfate	40.0	2.36	40.5	95.3	1	80.0-120	

Method Blank (MB)

(MB) R3983783-1 10/05/23 09:36

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

L1662487-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1662487-01 10/05/23 23:42 • (DUP) R3983783-3 10/05/23 18:04

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	322	322	1	0.0428	E	15
Fluoride	0.854	0.858	1	0.479		15
Sulfate	3.25	3.20	1	1.39	J	15

L1662057-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1662057-10 10/05/23 20:36 • (DUP) R3983783-6 10/05/23 20:53

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	4.13	4.15	1	0.254		15
Fluoride	0.159	0.163	1	2.74		15
Sulfate	13.0	13.0	1	0.192		15

Laboratory Control Sample (LCS)

(LCS) R3983783-2 10/05/23 09:52

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	39.7	99.2	80.0-120	
Fluoride	8.00	8.18	102	80.0-120	
Sulfate	40.0	38.9	97.3	80.0-120	

L1662487-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1662487-01 10/05/23 23:42 • (MS) R3983783-4 10/05/23 18:21 • (MSD) R3983783-5 10/05/23 19:12

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	40.0	322	298	298	0.000	0.000	1	80.0-120	E V	E V	0.0915	15
Fluoride	8.00	0.854	8.58	8.72	96.6	98.4	1	80.0-120			1.63	15
Sulfate	40.0	3.25	40.3	41.0	92.6	94.3	1	80.0-120			1.67	15

L1662057-10 Original Sample (OS) • Matrix Spike (MS)

(OS) L1662057-10 10/05/23 20:36 • (MS) R3983783-7 10/05/23 21:10

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40.0	4.13	43.8	99.3	1	80.0-120	
Fluoride	8.00	0.159	8.14	99.8	1	80.0-120	
Sulfate	40.0	13.0	50.0	92.6	1	80.0-120	

Method Blank (MB)

(MB) R3984710-1 10/10/23 09:12

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

L1662728-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1662728-03 10/10/23 15:19 • (DUP) R3984710-3 10/10/23 15:32

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	1.85	1.84	1	0.427		15
Fluoride	0.161	0.159	1	1.00		15
Sulfate	85.2	85.4	1	0.248		15

L1662974-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1662974-01 10/10/23 18:17 • (DUP) R3984710-6 10/10/23 18:30

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	10.7	10.5	1	1.65		15
Sulfate	83.5	82.0	1	1.85		15

Sample Narrative:

OS: Dilution due to matrix.

Laboratory Control Sample (LCS)

(LCS) R3984710-2 10/10/23 09:25

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	39.8	99.5	80.0-120	
Fluoride	8.00	8.07	101	80.0-120	
Sulfate	40.0	39.7	99.3	80.0-120	

L1662728-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1662728-03 10/10/23 15:19 • (MS) R3984710-4 10/10/23 15:44 • (MSD) R3984710-5 10/10/23 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 %
Chloride	40.0	1.85	41.2	41.1	98.4	98.0	1	80.0-120			0.300	15
Fluoride	8.00	0.161	8.07	8.04	98.8	98.5	1	80.0-120			0.363	15
Sulfate	40.0	85.2	109	109	59.7	59.3	1	80.0-120	J6	J6	0.122	15

L1662974-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1662974-01 10/10/23 18:17 • (MS) R3984710-7 10/10/23 18:43

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40.0	10.7	50.6	99.9	1	80.0-120	
Sulfate	40.0	83.5	108	60.5	1	80.0-120	J6

Sample Narrative:

OS: Dilution due to matrix.

Method Blank (MB)

(MB) R3986690-1 10/13/23 09:10

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Sulfate	U		0.594	5.00

L1664045-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1664045-01 10/13/23 22:47 • (DUP) R3986690-3 10/13/23 23:00

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Sulfate	1.57	1.55	1	0.931	J	15

L1664052-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1664052-03 10/14/23 03:21 • (DUP) R3986690-6 10/14/23 03:35

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Sulfate	4.13	4.06	1	1.61	J	15

Laboratory Control Sample (LCS)

(LCS) R3986690-2 10/13/23 09:23

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Sulfate	40.0	38.9	97.3	80.0-120	

L1664045-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1664045-01 10/13/23 22:47 • (MS) R3986690-4 10/13/23 23:14 • (MSD) R3986690-5 10/13/23 23:55

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 %
Sulfate	40.0	1.57	40.0	40.0	96.0	96.1	1	80.0-120			0.0831	15

L1664052-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L1664052-03 10/14/23 03:21 • (MS) R3986690-7 10/14/23 03:48

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Sulfate	40.0	4.13	43.1	97.6	1	80.0-120	

Method Blank (MB)

(MB) R3984127-1 10/09/23 18:57

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) R3984127-2 10/09/23 19:00

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.00300	0.00329	110	80.0-120	

L1662669-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1662669-09 10/09/23 19:02 • (MS) R3984127-3 10/09/23 19:05 • (MSD) R3984127-4 10/09/23 19:07

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	0.00298	0.00302	99.2	101	1	75.0-125			1.59	20

Method Blank (MB)

(MB) R3984595-1 10/10/23 22:26

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) R3984595-2 10/10/23 22:28

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron	1.00	0.988	98.8	80.0-120	

L1662588-44 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1662588-44 10/10/23 22:31 • (MS) R3984595-4 10/10/23 22:37 • (MSD) R3984595-5 10/10/23 22:39

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 %
Boron	1.00	U	1.03	1.03	103	103	1	75.0-125			0.166	20

Method Blank (MB)

(MB) R3986530-1 10/15/23 16:06

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	0.00200
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) R3986530-2 10/15/23 16:09

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	0.0500	0.0514	103	80.0-120	
Barium	0.0500	0.0495	98.9	80.0-120	
Calcium	5.00	5.01	100	80.0-120	
Chromium	0.0500	0.0525	105	80.0-120	
Iron	1.00	1.01	101	80.0-120	
Lead	0.0500	0.0497	99.4	80.0-120	
Manganese	0.0500	0.0525	105	80.0-120	
Potassium	5.00	5.04	101	80.0-120	
Selenium	0.0500	0.0531	106	80.0-120	
Sodium	5.00	5.17	103	80.0-120	

L1662588-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1662588-09 10/15/23 16:13 • (MS) R3986530-4 10/15/23 16:19 • (MSD) R3986530-5 10/15/23 16:23

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	0.103	0.155	0.152	103	97.9	1	75.0-125			1.65	20
Barium	0.0500	0.0152	0.0686	0.0658	107	101	1	75.0-125			4.22	20
Calcium	5.00	627	655	671	556	870	1	75.0-125	V	V	2.37	20
Chromium	0.0500	U	0.0512	0.0490	102	98.0	1	75.0-125			4.35	20
Iron	1.00	11.2	12.3	12.2	103	98.1	1	75.0-125			0.426	20
Lead	0.0500	U	0.0513	0.0492	103	98.5	1	75.0-125			4.12	20
Manganese	0.0500	2.86	2.90	2.89	84.4	58.6	1	75.0-125		V	0.446	20

L1662588-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1662588-09 10/15/23 16:13 • (MS) R3986530-4 10/15/23 16:19 • (MSD) R3986530-5 10/15/23 16:23

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 %
Potassium	5.00	6.30	11.3	10.8	99.7	90.1	1	75.0-125			4.32	20
Selenium	0.0500	0.00120	0.0592	0.0581	116	114	1	75.0-125			1.86	20
Sodium	5.00	2530	2390	2420	0.000	0.000	1	75.0-125	E V	E V	1.19	20

Method Blank (MB)

(MB) R3987616-1 10/17/23 16:09

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) R3987616-2 10/17/23 16:12

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	0.0500	0.0532	106	80.0-120	
Barium	0.0500	0.0492	98.4	80.0-120	
Cadmium	0.0500	0.0535	107	80.0-120	
Calcium	5.00	5.10	102	80.0-120	
Chromium	0.0500	0.0529	106	80.0-120	
Cobalt	0.0500	0.0529	106	80.0-120	
Iron	1.00	1.06	106	80.0-120	
Lead	0.0500	0.0499	99.7	80.0-120	
Manganese	0.0500	0.0530	106	80.0-120	
Nickel	0.0500	0.0523	105	80.0-120	
Potassium	5.00	4.98	99.6	80.0-120	
Selenium	0.0500	0.0583	117	80.0-120	
Sodium	5.00	5.15	103	80.0-120	
Uranium	0.0500	0.0508	102	80.0-120	
Vanadium	0.0500	0.0527	105	80.0-120	

QUALITY CONTROL SUMMARY

Metals (ICPMS) by Method 6020

L1662588-22,23,24,25,26,28,29,31,32,33,34,35,38,39,40,41,42,43,44,46

L1662588-31 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1662588-31 10/17/23 16:15 • (MS) R3987616-4 10/17/23 16:22 • (MSD) R3987616-5 10/17/23 16:25

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	0.00559	0.0568	0.0559	102	101	1	75.0-125			1.49	20
Barium	0.0500	0.00963	0.0608	0.0593	102	99.4	1	75.0-125			2.49	20
Cadmium	0.0500	U	0.0522	0.0520	104	104	1	75.0-125			0.300	20
Calcium	5.00	540	538	535	0.000	0.000	1	75.0-125	V	V	0.440	20
Chromium	0.0500	U	0.0494	0.0478	98.7	95.6	1	75.0-125			3.26	20
Cobalt	0.0500	0.000489	0.0488	0.0481	96.6	95.1	1	75.0-125			1.50	20
Iron	1.00	U	0.990	0.964	99.0	96.4	1	75.0-125			2.65	20
Lead	0.0500	U	0.0483	0.0471	96.6	94.2	1	75.0-125			2.49	20
Manganese	0.0500	0.670	0.716	0.704	93.7	68.2	1	75.0-125		V	1.80	20
Nickel	0.0500	0.00690	0.0538	0.0536	93.8	93.5	1	75.0-125			0.294	20
Potassium	5.00	2.02	6.79	6.72	95.4	94.1	1	75.0-125			0.993	20
Selenium	0.0500	0.0502	0.108	0.107	116	114	1	75.0-125			0.747	20
Sodium	5.00	404	409	400	97.8	0.000	1	75.0-125		V	2.12	20
Uranium	0.0500	0.0651	0.115	0.114	101	97.3	1	75.0-125			1.46	20
Vanadium	0.0500	0.0409	0.0909	0.0901	100	98.4	1	75.0-125			0.890	20

Method Blank (MB)

(MB) R3985767-1 10/13/23 02:07

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) R3985767-2 10/13/23 02:10

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	0.0500	0.0498	99.6	80.0-120	
Barium	0.0500	0.0485	97.1	80.0-120	
Calcium	5.00	4.93	98.5	80.0-120	
Chromium	0.0500	0.0499	99.8	80.0-120	
Iron	1.00	0.983	98.3	80.0-120	
Lead	0.0500	0.0513	103	80.0-120	
Manganese	0.0500	0.0498	99.5	80.0-120	
Potassium	5.00	4.86	97.2	80.0-120	
Selenium	0.0500	0.0500	100	80.0-120	
Sodium	5.00	4.89	97.8	80.0-120	

L1661547-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1661547-01 10/13/23 02:14 • (MS) R3985767-4 10/13/23 02:20 • (MSD) R3985767-5 10/13/23 02:24

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 %
Arsenic	0.0500	0.0397	0.0913	0.0925	103	106	1	75.0-125			1.40	20
Barium	0.0500	0.0539	0.109	0.111	111	114	1	75.0-125			1.49	20
Calcium	5.00	139	143	142	76.1	72.7	1	75.0-125		V	0.121	20
Chromium	0.0500	0.0361	0.0875	0.0881	103	104	1	75.0-125			0.743	20
Iron	1.00	0.262	1.28	1.28	102	102	1	75.0-125			0.196	20
Lead	0.0500	0.00106	0.0519	0.0508	102	99.4	1	75.0-125			2.28	20
Manganese	0.0500	1.83	1.89	1.92	127	185	1	75.0-125	V	V	1.53	20

L1661547-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1661547-01 10/13/23 02:14 • (MS) R3985767-4 10/13/23 02:20 • (MSD) R3985767-5 10/13/23 02:24

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 %
Potassium	5.00	875	899	889	466	265	1	75.0-125	V	V	1.12	20
Selenium	0.0500	0.00631	0.0584	0.0583	104	104	1	75.0-125			0.327	20
Sodium	5.00	1780	1700	1730	0.000	0.000	1	75.0-125	E V	E V	1.56	20

Method Blank (MB)

(MB) R3985377-3 10/07/23 23:16

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)	*92.5*			*78.0-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3985377-1 10/07/23 22:08 • (LCSD) R3985377-2 10/07/23 22:31

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 %
TPH (GC/FID) Low Fraction	5.50	4.20	4.63	76.4	84.2	72.0-127			9.74	20
(S) a,a,a-Trifluorotoluene(FID)				*96.4*	*97.4*	*78.0-120*				

L1662484-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1662484-03 10/08/23 02:58 • (MS) R3985377-4 10/08/23 10:19 • (MSD) R3985377-5 10/08/23 10:42

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	U	6.56	5.61	119	102	1	10.0-160			15.6	22
(S) a,a,a-Trifluorotoluene(FID)					*102*	*100*		*78.0-120*				

Method Blank (MB)

(MB) R3986839-2 10/08/23 21:11

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)	*109*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R3986839-1 10/08/23 20:03

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.34	97.1	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*113*	*78.0-120*	

Method Blank (MB)

(MB) R3984479-1 10/08/23 20:50

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)	*104*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R3984479-2 10/08/23 20:07

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.91	107	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*106*	*78.0-120*	

Received by OCD: 6/12/2024 3:31:05 PM

Method Blank (MB)

(MB) R3985975-3 10/11/23 11:29

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)	*88.9*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R3985975-1 10/11/23 09:36

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.87	107	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*100*	*78.0-120*	

Released to Imaging: 6/28/2024 11:23:28 AM

Method Blank (MB)

(MB) R3985787-3 10/12/23 18:43

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)	*107*			*78.0-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3985787-1 10/12/23 17:24 • (LCSD) R3985787-2 10/12/23 17:46

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) Low Fraction	5.50	5.78	5.83	105	106	72.0-127			0.861	20
(S) a,a,a-Trifluorotoluene(FID)				*113*	*113*	*78.0-120*				

Method Blank (MB)

(MB) R3987139-2 10/14/23 11:39

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)	*107*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R3987139-1 10/14/23 10:14

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	6.01	109	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*114*	*78.0-120*	

Received by OCD: 6/12/2024 3:31:05 PM

Method Blank (MB)

(MB) R3982860-2 10/05/23 19:28

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
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
2-Hexanone	U		0.000787	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
tert-Butyl alcohol	U		0.00406	0.00500
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

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Method Blank (MB)

(MB) R3982860-2 10/05/23 19:28

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,1,2-Trichloroethane	U		0.000158	0.00100
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
o-Xylene	U		0.000174	0.00100
m&p-Xylene	U		0.000430	0.00200
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	*107*			*80.0-120*
(S) 4-Bromofluorobenzene	*116*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3982860-1 10/05/23 18:45

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.0250	0.0353	141	19.0-160	
Benzene	0.00500	0.00538	108	70.0-123	
Bromodichloromethane	0.00500	0.00509	102	75.0-120	
Bromoform	0.00500	0.00572	114	68.0-132	
Bromomethane	0.00500	0.00281	56.2	10.0-160	
n-Butylbenzene	0.00500	0.00447	89.4	73.0-125	
sec-Butylbenzene	0.00500	0.00449	89.8	75.0-125	
Carbon disulfide	0.00500	0.00523	105	61.0-128	
Carbon tetrachloride	0.00500	0.00574	115	68.0-126	
Chlorobenzene	0.00500	0.00547	109	80.0-121	
Chlorodibromomethane	0.00500	0.00522	104	77.0-125	
Chloroethane	0.00500	0.00356	71.2	47.0-150	
Chloroform	0.00500	0.00534	107	73.0-120	
Chloromethane	0.00500	0.00526	105	41.0-142	
1,2-Dibromoethane	0.00500	0.00540	108	80.0-122	
1,1-Dichloroethane	0.00500	0.00580	116	70.0-126	
1,2-Dichloroethane	0.00500	0.00571	114	70.0-128	
1,1-Dichloroethene	0.00500	0.00576	115	71.0-124	
cis-1,2-Dichloroethene	0.00500	0.00522	104	73.0-120	
trans-1,2-Dichloroethene	0.00500	0.00537	107	73.0-120	
1,2-Dichloropropane	0.00500	0.00570	114	77.0-125	
cis-1,3-Dichloropropene	0.00500	0.00506	101	80.0-123	

Laboratory Control Sample (LCS)

(LCS) R3982860-1 10/05/23 18:45

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
trans-1,3-Dichloropropene	0.00500	0.00498	99.6	78.0-124	
Ethylbenzene	0.00500	0.00516	103	79.0-123	
Isopropylbenzene	0.00500	0.00530	106	76.0-127	
p-Isopropyltoluene	0.00500	0.00448	89.6	76.0-125	
2-Butanone (MEK)	0.0250	0.0341	136	44.0-160	
2-Hexanone	0.0250	0.0341	136	67.0-149	
Methylene Chloride	0.00500	0.00546	109	67.0-120	
4-Methyl-2-pentanone (MIBK)	0.0250	0.0325	130	68.0-142	
Methyl tert-butyl ether	0.00500	0.00607	121	68.0-125	
Naphthalene	0.00500	0.00535	107	54.0-135	
n-Propylbenzene	0.00500	0.00436	87.2	77.0-124	
Styrene	0.00500	0.00487	97.4	73.0-130	
tert-Butyl alcohol	0.0250	0.0365	146	27.0-160	
1,1,1,2-Tetrachloroethane	0.00500	0.00546	109	75.0-125	
1,1,2,2-Tetrachloroethane	0.00500	0.00431	86.2	65.0-130	
Tetrachloroethene	0.00500	0.00627	125	72.0-132	
Toluene	0.00500	0.00512	102	79.0-120	
1,1,1-Trichloroethane	0.00500	0.00560	112	73.0-124	
1,1,2-Trichloroethane	0.00500	0.00532	106	80.0-120	
Trichloroethene	0.00500	0.00632	126	78.0-124	J4
1,2,4-Trimethylbenzene	0.00500	0.00443	88.6	76.0-121	
1,3,5-Trimethylbenzene	0.00500	0.00430	86.0	76.0-122	
Vinyl chloride	0.00500	0.00505	101	67.0-131	
o-Xylene	0.00500	0.00520	104	80.0-122	
m&p-Xylene	0.0100	0.0104	104	80.0-122	
Xylenes, Total	0.0150	0.0156	104	79.0-123	
(S) Toluene-d8			*103*	*80.0-120*	
(S) 4-Bromofluorobenzene			*113*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*106*	*70.0-130*	

Method Blank (MB)

(MB) R3983355-3 10/06/23 13:21

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
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
2-Hexanone	U		0.000787	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
tert-Butyl alcohol	U		0.00406	0.00500
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

Method Blank (MB)

(MB) R3983355-3 10/06/23 13:21

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,1,2-Trichloroethane	U		0.000158	0.00100
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
o-Xylene	U		0.000174	0.00100
m&p-Xylene	U		0.000430	0.00200
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	*107*			*80.0-120*
(S) 4-Bromofluorobenzene	*116*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3983355-1 10/06/23 12:17 • (LCSD) R3983355-2 10/06/23 12:38

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 %
Acetone	0.0250	0.0364	0.0344	146	138	19.0-160			5.65	27
Benzene	0.00500	0.00507	0.00514	101	103	70.0-123			1.37	20
Bromodichloromethane	0.00500	0.00495	0.00492	99.0	98.4	75.0-120			0.608	20
Bromoform	0.00500	0.00527	0.00544	105	109	68.0-132			3.17	20
Bromomethane	0.00500	0.00185	0.00207	37.0	41.4	10.0-160			11.2	25
n-Butylbenzene	0.00500	0.00432	0.00435	86.4	87.0	73.0-125			0.692	20
sec-Butylbenzene	0.00500	0.00454	0.00449	90.8	89.8	75.0-125			1.11	20
Carbon disulfide	0.00500	0.00490	0.00477	98.0	95.4	61.0-128			2.69	20
Carbon tetrachloride	0.00500	0.00546	0.00544	109	109	68.0-126			0.367	20
Chlorobenzene	0.00500	0.00511	0.00512	102	102	80.0-121			0.196	20
Chlorodibromomethane	0.00500	0.00492	0.00491	98.4	98.2	77.0-125			0.203	20
Chloroethane	0.00500	0.00343	0.00337	68.6	67.4	47.0-150			1.76	20
Chloroform	0.00500	0.00532	0.00530	106	106	73.0-120			0.377	20
Chloromethane	0.00500	0.00497	0.00500	99.4	100	41.0-142			0.602	20
1,2-Dibromoethane	0.00500	0.00521	0.00519	104	104	80.0-122			0.385	20
1,1-Dichloroethane	0.00500	0.00573	0.00567	115	113	70.0-126			1.05	20
1,2-Dichloroethane	0.00500	0.00533	0.00529	107	106	70.0-128			0.753	20
1,1-Dichloroethene	0.00500	0.00563	0.00561	113	112	71.0-124			0.356	20
cis-1,2-Dichloroethene	0.00500	0.00516	0.00518	103	104	73.0-120			0.387	20
trans-1,2-Dichloroethene	0.00500	0.00530	0.00532	106	106	73.0-120			0.377	20
1,2-Dichloropropane	0.00500	0.00543	0.00548	109	110	77.0-125			0.917	20
cis-1,3-Dichloropropene	0.00500	0.00498	0.00489	99.6	97.8	80.0-123			1.82	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3983355-1 10/06/23 12:17 • (LCSD) R3983355-2 10/06/23 12:38

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 %
trans-1,3-Dichloropropene	0.00500	0.00471	0.00473	94.2	94.6	78.0-124			0.424	20
Ethylbenzene	0.00500	0.00495	0.00510	99.0	102	79.0-123			2.99	20
Isopropylbenzene	0.00500	0.00516	0.00514	103	103	76.0-127			0.388	20
p-Isopropyltoluene	0.00500	0.00433	0.00441	86.6	88.2	76.0-125			1.83	20
2-Butanone (MEK)	0.0250	0.0344	0.0338	138	135	44.0-160			1.76	20
2-Hexanone	0.0250	0.0332	0.0334	133	134	67.0-149			0.601	20
Methylene Chloride	0.00500	0.00505	0.00499	101	99.8	67.0-120			1.20	20
4-Methyl-2-pentanone (MIBK)	0.0250	0.0315	0.0313	126	125	68.0-142			0.637	20
Methyl tert-butyl ether	0.00500	0.00587	0.00580	117	116	68.0-125			1.20	20
Naphthalene	0.00500	0.00502	0.00522	100	104	54.0-135			3.91	20
n-Propylbenzene	0.00500	0.00431	0.00432	86.2	86.4	77.0-124			0.232	20
Styrene	0.00500	0.00471	0.00473	94.2	94.6	73.0-130			0.424	20
tert-Butyl alcohol	0.0250	0.0387	0.0367	155	147	27.0-160			5.31	30
1,1,1,2-Tetrachloroethane	0.00500	0.00520	0.00527	104	105	75.0-125			1.34	20
1,1,2,2-Tetrachloroethane	0.00500	0.00437	0.00429	87.4	85.8	65.0-130			1.85	20
Tetrachloroethene	0.00500	0.00591	0.00605	118	121	72.0-132			2.34	20
Toluene	0.00500	0.00492	0.00492	98.4	98.4	79.0-120			0.000	20
1,1,1-Trichloroethane	0.00500	0.00554	0.00541	111	108	73.0-124			2.37	20
1,1,2-Trichloroethane	0.00500	0.00513	0.00504	103	101	80.0-120			1.77	20
Trichloroethene	0.00500	0.00580	0.00589	116	118	78.0-124			1.54	20
1,2,4-Trimethylbenzene	0.00500	0.00431	0.00441	86.2	88.2	76.0-121			2.29	20
1,3,5-Trimethylbenzene	0.00500	0.00435	0.00435	87.0	87.0	76.0-122			0.000	20
Vinyl chloride	0.00500	0.00496	0.00492	99.2	98.4	67.0-131			0.810	20
o-Xylene	0.00500	0.00494	0.00496	98.8	99.2	80.0-122			0.404	20
m&p-Xylene	0.0100	0.0100	0.0103	100	103	80.0-122			2.96	20
Xylenes, Total	0.0150	0.0149	0.0153	99.3	102	79.0-123			2.65	20
(S) Toluene-d8				*104*	*105*	*80.0-120*				
(S) 4-Bromofluorobenzene				*112*	*114*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*106*	*107*	*70.0-130*				

Method Blank (MB)

(MB) R3983350-3 10/06/23 15:48

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.0000941	0.00100
(S) Toluene-d8	*106*			*80.0-120*
(S) 4-Bromofluorobenzene	*82.8*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*122*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3983350-1 10/06/23 14:13 • (LCSD) R3983350-2 10/06/23 14:34

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	0.00556	0.00559	111	112	70.0-123			0.538	20
(S) Toluene-d8				*103*	*102*	*80.0-120*				
(S) 4-Bromofluorobenzene				*86.1*	*86.1*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*119*	*121*	*70.0-130*				

Received by OCD: 6/12/2024 3:31:05 PM

Method Blank (MB)

(MB) R3983856-3 10/07/23 09:37

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
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
2-Hexanone	U		0.000787	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
tert-Butyl alcohol	U		0.00406	0.00500
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

Released to Imaging: 6/28/2024 11:23:28 AM

Method Blank (MB)

(MB) R3983856-3 10/07/23 09:37

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,1,2-Trichloroethane	U		0.000158	0.00100
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
o-Xylene	U		0.000174	0.00100
m&p-Xylene	U		0.000430	0.00200
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	*109*			*80.0-120*
(S) 4-Bromofluorobenzene	*91.6*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*96.8*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3983856-1 10/07/23 08:14 • (LCSD) R3983856-2 10/07/23 08:35

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 %
Acetone	0.0250	0.0292	0.0286	117	114	19.0-160			2.08	27
Benzene	0.00500	0.00441	0.00444	88.2	88.8	70.0-123			0.678	20
Bromodichloromethane	0.00500	0.00441	0.00457	88.2	91.4	75.0-120			3.56	20
Bromoform	0.00500	0.00502	0.00519	100	104	68.0-132			3.33	20
Bromomethane	0.00500	0.00598	0.00528	120	106	10.0-160			12.4	25
n-Butylbenzene	0.00500	0.00413	0.00434	82.6	86.8	73.0-125			4.96	20
sec-Butylbenzene	0.00500	0.00439	0.00457	87.8	91.4	75.0-125			4.02	20
Carbon disulfide	0.00500	0.00365	0.00371	73.0	74.2	61.0-128			1.63	20
Carbon tetrachloride	0.00500	0.00466	0.00460	93.2	92.0	68.0-126			1.30	20
Chlorobenzene	0.00500	0.00501	0.00498	100	99.6	80.0-121			0.601	20
Chlorodibromomethane	0.00500	0.00518	0.00529	104	106	77.0-125			2.10	20
Chloroethane	0.00500	0.00579	0.00587	116	117	47.0-150			1.37	20
Chloroform	0.00500	0.00465	0.00472	93.0	94.4	73.0-120			1.49	20
Chloromethane	0.00500	0.00431	0.00417	86.2	83.4	41.0-142			3.30	20
1,2-Dibromoethane	0.00500	0.00512	0.00513	102	103	80.0-122			0.195	20
1,1-Dichloroethane	0.00500	0.00448	0.00456	89.6	91.2	70.0-126			1.77	20
1,2-Dichloroethane	0.00500	0.00454	0.00466	90.8	93.2	70.0-128			2.61	20
1,1-Dichloroethene	0.00500	0.00424	0.00418	84.8	83.6	71.0-124			1.43	20
cis-1,2-Dichloroethene	0.00500	0.00446	0.00459	89.2	91.8	73.0-120			2.87	20
trans-1,2-Dichloroethene	0.00500	0.00426	0.00420	85.2	84.0	73.0-120			1.42	20
1,2-Dichloropropane	0.00500	0.00463	0.00482	92.6	96.4	77.0-125			4.02	20
cis-1,3-Dichloropropene	0.00500	0.00412	0.00413	82.4	82.6	80.0-123			0.242	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3983856-1 10/07/23 08:14 • (LCSD) R3983856-2 10/07/23 08:35

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 %
trans-1,3-Dichloropropene	0.00500	0.00485	0.00494	97.0	98.8	78.0-124			1.84	20
Ethylbenzene	0.00500	0.00502	0.00495	100	99.0	79.0-123			1.40	20
Isopropylbenzene	0.00500	0.00455	0.00464	91.0	92.8	76.0-127			1.96	20
p-Isopropyltoluene	0.00500	0.00443	0.00458	88.6	91.6	76.0-125			3.33	20
2-Butanone (MEK)	0.0250	0.0224	0.0234	89.6	93.6	44.0-160			4.37	20
2-Hexanone	0.0250	0.0236	0.0241	94.4	96.4	67.0-149			2.10	20
Methylene Chloride	0.00500	0.00334	0.00343	66.8	68.6	67.0-120	J4		2.66	20
4-Methyl-2-pentanone (MIBK)	0.0250	0.0253	0.0257	101	103	68.0-142			1.57	20
Methyl tert-butyl ether	0.00500	0.00468	0.00478	93.6	95.6	68.0-125			2.11	20
Naphthalene	0.00500	0.00213	0.00229	42.6	45.8	54.0-135	J4	J4	7.24	20
n-Propylbenzene	0.00500	0.00443	0.00460	88.6	92.0	77.0-124			3.77	20
Styrene	0.00500	0.00450	0.00448	90.0	89.6	73.0-130			0.445	20
tert-Butyl alcohol	0.0250	0.0231	0.0242	92.4	96.8	27.0-160			4.65	30
1,1,1,2-Tetrachloroethane	0.00500	0.00525	0.00514	105	103	75.0-125			2.12	20
1,1,2,2-Tetrachloroethane	0.00500	0.00409	0.00432	81.8	86.4	65.0-130			5.47	20
Tetrachloroethene	0.00500	0.00513	0.00503	103	101	72.0-132			1.97	20
Toluene	0.00500	0.00465	0.00474	93.0	94.8	79.0-120			1.92	20
1,1,1-Trichloroethane	0.00500	0.00460	0.00460	92.0	92.0	73.0-124			0.000	20
1,1,2-Trichloroethane	0.00500	0.00510	0.00514	102	103	80.0-120			0.781	20
Trichloroethene	0.00500	0.00501	0.00509	100	102	78.0-124			1.58	20
1,2,4-Trimethylbenzene	0.00500	0.00439	0.00467	87.8	93.4	76.0-121			6.18	20
1,3,5-Trimethylbenzene	0.00500	0.00452	0.00463	90.4	92.6	76.0-122			2.40	20
Vinyl chloride	0.00500	0.00463	0.00464	92.6	92.8	67.0-131			0.216	20
o-Xylene	0.00500	0.00474	0.00474	94.8	94.8	80.0-122			0.000	20
m&p-Xylene	0.0100	0.00990	0.00995	99.0	99.5	80.0-122			0.504	20
Xylenes, Total	0.0150	0.0146	0.0147	97.3	98.0	79.0-123			0.683	20
(S) Toluene-d8				*106*	*104*	*80.0-120*				
(S) 4-Bromofluorobenzene				*92.8*	*91.2*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*96.3*	*96.8*	*70.0-130*				

Method Blank (MB)

(MB) R3983714-3 10/08/23 03:24

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
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
2-Hexanone	U		0.000787	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
tert-Butyl alcohol	U		0.00406	0.00500
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

Method Blank (MB)

(MB) R3983714-3 10/08/23 03:24

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,1,2-Trichloroethane	U		0.000158	0.00100
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
o-Xylene	U		0.000174	0.00100
m&p-Xylene	U		0.000430	0.00200
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	*117*			*80.0-120*
(S) 4-Bromofluorobenzene	*103*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*119*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3983714-1 10/08/23 02:19 • (LCSD) R3983714-2 10/08/23 02:41

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 %
Acetone	0.0250	0.0203	0.0229	81.2	91.6	19.0-160			12.0	27
Benzene	0.00500	0.00444	0.00468	88.8	93.6	70.0-123			5.26	20
Bromodichloromethane	0.00500	0.00437	0.00440	87.4	88.0	75.0-120			0.684	20
Bromoform	0.00500	0.00407	0.00447	81.4	89.4	68.0-132			9.37	20
Bromomethane	0.00500	0.00438	0.00469	87.6	93.8	10.0-160			6.84	25
n-Butylbenzene	0.00500	0.00476	0.00498	95.2	99.6	73.0-125			4.52	20
sec-Butylbenzene	0.00500	0.00488	0.00546	97.6	109	75.0-125			11.2	20
Carbon disulfide	0.00500	0.00403	0.00409	80.6	81.8	61.0-128			1.48	20
Carbon tetrachloride	0.00500	0.00472	0.00504	94.4	101	68.0-126			6.56	20
Chlorobenzene	0.00500	0.00503	0.00538	101	108	80.0-121			6.72	20
Chlorodibromomethane	0.00500	0.00468	0.00487	93.6	97.4	77.0-125			3.98	20
Chloroethane	0.00500	0.00524	0.00568	105	114	47.0-150			8.06	20
Chloroform	0.00500	0.00413	0.00497	82.6	99.4	73.0-120			18.5	20
Chloromethane	0.00500	0.00351	0.00365	70.2	73.0	41.0-142			3.91	20
1,2-Dibromoethane	0.00500	0.00470	0.00496	94.0	99.2	80.0-122			5.38	20
1,1-Dichloroethane	0.00500	0.00452	0.00469	90.4	93.8	70.0-126			3.69	20
1,2-Dichloroethane	0.00500	0.00514	0.00540	103	108	70.0-128			4.93	20
1,1-Dichloroethene	0.00500	0.00449	0.00452	89.8	90.4	71.0-124			0.666	20
cis-1,2-Dichloroethene	0.00500	0.00475	0.00478	95.0	95.6	73.0-120			0.630	20
trans-1,2-Dichloroethene	0.00500	0.00475	0.00479	95.0	95.8	73.0-120			0.839	20
1,2-Dichloropropane	0.00500	0.00449	0.00478	89.8	95.6	77.0-125			6.26	20
cis-1,3-Dichloropropene	0.00500	0.00391	0.00412	78.2	82.4	80.0-123	J4		5.23	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3983714-1 10/08/23 02:19 • (LCSD) R3983714-2 10/08/23 02:41

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 %
trans-1,3-Dichloropropene	0.00500	0.00409	0.00419	81.8	83.8	78.0-124			2.42	20
Ethylbenzene	0.00500	0.00473	0.00525	94.6	105	79.0-123			10.4	20
Isopropylbenzene	0.00500	0.00492	0.00530	98.4	106	76.0-127			7.44	20
p-Isopropyltoluene	0.00500	0.00499	0.00534	99.8	107	76.0-125			6.78	20
2-Butanone (MEK)	0.0250	0.0224	0.0247	89.6	98.8	44.0-160			9.77	20
2-Hexanone	0.0250	0.0246	0.0262	98.4	105	67.0-149			6.30	20
Methylene Chloride	0.00500	0.00434	0.00467	86.8	93.4	67.0-120			7.33	20
4-Methyl-2-pentanone (MIBK)	0.0250	0.0227	0.0242	90.8	96.8	68.0-142			6.40	20
Methyl tert-butyl ether	0.00500	0.00442	0.00478	88.4	95.6	68.0-125			7.83	20
Naphthalene	0.00500	0.00468	0.00523	93.6	105	54.0-135			11.1	20
n-Propylbenzene	0.00500	0.00521	0.00578	104	116	77.0-124			10.4	20
Styrene	0.00500	0.00394	0.00449	78.8	89.8	73.0-130			13.0	20
tert-Butyl alcohol	0.0250	0.0196	0.0222	78.4	88.8	27.0-160			12.4	30
1,1,1,2-Tetrachloroethane	0.00500	0.00480	0.00502	96.0	100	75.0-125			4.48	20
1,1,2,2-Tetrachloroethane	0.00500	0.00480	0.00506	96.0	101	65.0-130			5.27	20
Tetrachloroethene	0.00500	0.00511	0.00508	102	102	72.0-132			0.589	20
Toluene	0.00500	0.00528	0.00538	106	108	79.0-120			1.88	20
1,1,1-Trichloroethane	0.00500	0.00483	0.00504	96.6	101	73.0-124			4.26	20
1,1,2-Trichloroethane	0.00500	0.00512	0.00541	102	108	80.0-120			5.51	20
Trichloroethene	0.00500	0.00465	0.00488	93.0	97.6	78.0-124			4.83	20
1,2,4-Trimethylbenzene	0.00500	0.00508	0.00553	102	111	76.0-121			8.48	20
1,3,5-Trimethylbenzene	0.00500	0.00520	0.00561	104	112	76.0-122			7.59	20
Vinyl chloride	0.00500	0.00464	0.00459	92.8	91.8	67.0-131			1.08	20
o-Xylene	0.00500	0.00476	0.00520	95.2	104	80.0-122			8.84	20
m&p-Xylene	0.0100	0.00992	0.0102	99.2	102	80.0-122			2.78	20
Xylenes, Total	0.0150	0.0147	0.0154	98.0	103	79.0-123			4.65	20
(S) Toluene-d8				*116*	*117*	*80.0-120*				
(S) 4-Bromofluorobenzene				*103*	*101*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*120*	*117*	*70.0-130*				

Method Blank (MB)

(MB) R3984075-3 10/09/23 14:34

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
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
2-Hexanone	U		0.000787	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
tert-Butyl alcohol	U		0.00406	0.00500
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

Method Blank (MB)

(MB) R3984075-3 10/09/23 14:34

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,1,2-Trichloroethane	U		0.000158	0.00100
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
o-Xylene	U		0.000174	0.00100
m&p-Xylene	U		0.000430	0.00200
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	*90.6*			*80.0-120*
(S) 4-Bromofluorobenzene	*84.1*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*98.3*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3984075-1 10/09/23 13:37 • (LCSD) R3984075-2 10/09/23 13:56

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	0.0348	0.0301	139	120	19.0-160			14.5	27
Benzene	0.00500	0.00539	0.00522	108	104	70.0-123			3.20	20
Bromodichloromethane	0.00500	0.00475	0.00492	95.0	98.4	75.0-120			3.52	20
Bromoform	0.00500	0.00450	0.00457	90.0	91.4	68.0-132			1.54	20
Bromomethane	0.00500	0.00420	0.00369	84.0	73.8	10.0-160			12.9	25
n-Butylbenzene	0.00500	0.00410	0.00423	82.0	84.6	73.0-125			3.12	20
sec-Butylbenzene	0.00500	0.00519	0.00552	104	110	75.0-125			6.16	20
Carbon disulfide	0.00500	0.00605	0.00533	121	107	61.0-128			12.7	20
Carbon tetrachloride	0.00500	0.00629	0.00565	126	113	68.0-126			10.7	20
Chlorobenzene	0.00500	0.00467	0.00478	93.4	95.6	80.0-121			2.33	20
Chlorodibromomethane	0.00500	0.00483	0.00479	96.6	95.8	77.0-125			0.832	20
Chloroethane	0.00500	0.00448	0.00415	89.6	83.0	47.0-150			7.65	20
Chloroform	0.00500	0.00532	0.00498	106	99.6	73.0-120			6.60	20
Chloromethane	0.00500	0.00436	0.00410	87.2	82.0	41.0-142			6.15	20
1,2-Dibromoethane	0.00500	0.00473	0.00485	94.6	97.0	80.0-122			2.51	20
1,1-Dichloroethane	0.00500	0.00611	0.00575	122	115	70.0-126			6.07	20
1,2-Dichloroethane	0.00500	0.00553	0.00563	111	113	70.0-128			1.79	20
1,1-Dichloroethene	0.00500	0.00560	0.00506	112	101	71.0-124			10.1	20
cis-1,2-Dichloroethene	0.00500	0.00541	0.00503	108	101	73.0-120			7.28	20
trans-1,2-Dichloroethene	0.00500	0.00530	0.00480	106	96.0	73.0-120			9.90	20
1,2-Dichloropropane	0.00500	0.00546	0.00575	109	115	77.0-125			5.17	20
cis-1,3-Dichloropropene	0.00500	0.00439	0.00482	87.8	96.4	80.0-123			9.34	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3984075-1 10/09/23 13:37 • (LCSD) R3984075-2 10/09/23 13:56

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	0.00439	0.00468	87.8	93.6	78.0-124			6.39	20
Ethylbenzene	0.00500	0.00474	0.00478	94.8	95.6	79.0-123			0.840	20
Isopropylbenzene	0.00500	0.00497	0.00510	99.4	102	76.0-127			2.58	20
p-Isopropyltoluene	0.00500	0.00462	0.00485	92.4	97.0	76.0-125			4.86	20
2-Butanone (MEK)	0.0250	0.0294	0.0303	118	121	44.0-160			3.02	20
2-Hexanone	0.0250	0.0273	0.0288	109	115	67.0-149			5.35	20
Methylene Chloride	0.00500	0.00485	0.00445	97.0	89.0	67.0-120			8.60	20
4-Methyl-2-pentanone (MIBK)	0.0250	0.0307	0.0309	123	124	68.0-142			0.649	20
Methyl tert-butyl ether	0.00500	0.00551	0.00527	110	105	68.0-125			4.45	20
Naphthalene	0.00500	0.00364	0.00378	72.8	75.6	54.0-135			3.77	20
n-Propylbenzene	0.00500	0.00560	0.00569	112	114	77.0-124			1.59	20
Styrene	0.00500	0.00450	0.00470	90.0	94.0	73.0-130			4.35	20
tert-Butyl alcohol	0.0250	0.0220	0.0231	88.0	92.4	27.0-160			4.88	30
1,1,1,2-Tetrachloroethane	0.00500	0.00484	0.00473	96.8	94.6	75.0-125			2.30	20
1,1,2,2-Tetrachloroethane	0.00500	0.00516	0.00563	103	113	65.0-130			8.71	20
Tetrachloroethene	0.00500	0.00490	0.00483	98.0	96.6	72.0-132			1.44	20
Toluene	0.00500	0.00526	0.00519	105	104	79.0-120			1.34	20
1,1,1-Trichloroethane	0.00500	0.00613	0.00555	123	111	73.0-124			9.93	20
1,1,2-Trichloroethane	0.00500	0.00478	0.00489	95.6	97.8	80.0-120			2.28	20
Trichloroethene	0.00500	0.00524	0.00468	105	93.6	78.0-124			11.3	20
1,2,4-Trimethylbenzene	0.00500	0.00473	0.00519	94.6	104	76.0-121			9.27	20
1,3,5-Trimethylbenzene	0.00500	0.00511	0.00547	102	109	76.0-122			6.81	20
Vinyl chloride	0.00500	0.00560	0.00503	112	101	67.0-131			10.7	20
o-Xylene	0.00500	0.00471	0.00476	94.2	95.2	80.0-122			1.06	20
m&p-Xylene	0.0100	0.00956	0.00976	95.6	97.6	80.0-122			2.07	20
Xylenes, Total	0.0150	0.0143	0.0145	95.3	96.7	79.0-123			1.39	20
(S) Toluene-d8				*90.8*	*88.9*	*80.0-120*				
(S) 4-Bromofluorobenzene				*84.1*	*84.9*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*101*	*98.4*	*70.0-130*				

Method Blank (MB)

(MB) R3984844-4 10/10/23 00:55

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
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
2-Hexanone	U		0.000787	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
tert-Butyl alcohol	U		0.00406	0.00500
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

Method Blank (MB)

(MB) R3984844-4 10/10/23 00:55

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,1,2-Trichloroethane	U		0.000158	0.00100
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
o-Xylene	U		0.000174	0.00100
m&p-Xylene	U		0.000430	0.00200
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	*107*			*80.0-120*
(S) 4-Bromofluorobenzene	*90.3*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*99.2*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3984844-1 10/09/23 23:11 • (LCSD) R3984844-2 10/09/23 23:32

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 %
Acetone	0.0250	0.0299	0.0317	120	127	19.0-160			5.84	27
Benzene	0.00500	0.00450	0.00439	90.0	87.8	70.0-123			2.47	20
Bromodichloromethane	0.00500	0.00456	0.00453	91.2	90.6	75.0-120			0.660	20
Bromoform	0.00500	0.00527	0.00514	105	103	68.0-132			2.50	20
Bromomethane	0.00500	0.00257	0.00274	51.4	54.8	10.0-160			6.40	25
n-Butylbenzene	0.00500	0.00421	0.00413	84.2	82.6	73.0-125			1.92	20
sec-Butylbenzene	0.00500	0.00454	0.00439	90.8	87.8	75.0-125			3.36	20
Carbon disulfide	0.00500	0.00399	0.00380	79.8	76.0	61.0-128			4.88	20
Carbon tetrachloride	0.00500	0.00478	0.00452	95.6	90.4	68.0-126			5.59	20
Chlorobenzene	0.00500	0.00520	0.00494	104	98.8	80.0-121			5.13	20
Chlorodibromomethane	0.00500	0.00548	0.00536	110	107	77.0-125			2.21	20
Chloroethane	0.00500	0.00504	0.00484	101	96.8	47.0-150			4.05	20
Chloroform	0.00500	0.00472	0.00469	94.4	93.8	73.0-120			0.638	20
Chloromethane	0.00500	0.00464	0.00457	92.8	91.4	41.0-142			1.52	20
1,2-Dibromoethane	0.00500	0.00526	0.00522	105	104	80.0-122			0.763	20
1,1-Dichloroethane	0.00500	0.00475	0.00463	95.0	92.6	70.0-126			2.56	20
1,2-Dichloroethane	0.00500	0.00468	0.00477	93.6	95.4	70.0-128			1.90	20
1,1-Dichloroethene	0.00500	0.00435	0.00429	87.0	85.8	71.0-124			1.39	20
cis-1,2-Dichloroethene	0.00500	0.00453	0.00457	90.6	91.4	73.0-120			0.879	20
trans-1,2-Dichloroethene	0.00500	0.00436	0.00429	87.2	85.8	73.0-120			1.62	20
1,2-Dichloropropane	0.00500	0.00484	0.00483	96.8	96.6	77.0-125			0.207	20
cis-1,3-Dichloropropene	0.00500	0.00432	0.00441	86.4	88.2	80.0-123			2.06	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3984844-1 10/09/23 23:11 • (LCSD) R3984844-2 10/09/23 23:32

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 %
trans-1,3-Dichloropropene	0.00500	0.00506	0.00495	101	99.0	78.0-124			2.20	20
Ethylbenzene	0.00500	0.00503	0.00484	101	96.8	79.0-123			3.85	20
Isopropylbenzene	0.00500	0.00450	0.00436	90.0	87.2	76.0-127			3.16	20
p-Isopropyltoluene	0.00500	0.00453	0.00447	90.6	89.4	76.0-125			1.33	20
2-Butanone (MEK)	0.0250	0.0244	0.0256	97.6	102	44.0-160			4.80	20
2-Hexanone	0.0250	0.0243	0.0247	97.2	98.8	67.0-149			1.63	20
Methylene Chloride	0.00500	0.00353	0.00343	70.6	68.6	67.0-120			2.87	20
4-Methyl-2-pentanone (MIBK)	0.0250	0.0272	0.0273	109	109	68.0-142			0.367	20
Methyl tert-butyl ether	0.00500	0.00477	0.00478	95.4	95.6	68.0-125			0.209	20
Naphthalene	0.00500	0.00214	0.00214	42.8	42.8	54.0-135	J4	J4	0.000	20
n-Propylbenzene	0.00500	0.00451	0.00448	90.2	89.6	77.0-124			0.667	20
Styrene	0.00500	0.00436	0.00436	87.2	87.2	73.0-130			0.000	20
tert-Butyl alcohol	0.0250	0.0221	0.0240	88.4	96.0	27.0-160			8.24	30
1,1,1,2-Tetrachloroethane	0.00500	0.00526	0.00528	105	106	75.0-125			0.380	20
1,1,2,2-Tetrachloroethane	0.00500	0.00470	0.00476	94.0	95.2	65.0-130			1.27	20
Tetrachloroethene	0.00500	0.00516	0.00506	103	101	72.0-132			1.96	20
Toluene	0.00500	0.00468	0.00455	93.6	91.0	79.0-120			2.82	20
1,1,1-Trichloroethane	0.00500	0.00458	0.00447	91.6	89.4	73.0-124			2.43	20
1,1,2-Trichloroethane	0.00500	0.00531	0.00541	106	108	80.0-120			1.87	20
Trichloroethene	0.00500	0.00493	0.00474	98.6	94.8	78.0-124			3.93	20
1,2,4-Trimethylbenzene	0.00500	0.00446	0.00450	89.2	90.0	76.0-121			0.893	20
1,3,5-Trimethylbenzene	0.00500	0.00456	0.00450	91.2	90.0	76.0-122			1.32	20
Vinyl chloride	0.00500	0.00495	0.00469	99.0	93.8	67.0-131			5.39	20
o-Xylene	0.00500	0.00464	0.00453	92.8	90.6	80.0-122			2.40	20
m&p-Xylene	0.0100	0.00992	0.00962	99.2	96.2	80.0-122			3.07	20
Xylenes, Total	0.0150	0.0146	0.0141	97.3	94.0	79.0-123			3.48	20
(S) Toluene-d8				*106*	*104*	*80.0-120*				
(S) 4-Bromofluorobenzene				*91.4*	*91.4*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*97.6*	*98.3*	*70.0-130*				

Received by OCD: 6/12/2024 3:31:05 PM

Method Blank (MB)

(MB) R3984988-1 10/11/23 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	*75.0*			*31.0-160*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3984988-2 10/11/23 15:23 • (LCSD) R3984988-3 10/11/23 15:43

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	1.34	1.47	89.3	98.0	50.0-150			9.25	20
(S) o-Terphenyl				*86.0*	*82.5*	*31.0-160*				

Released to Imaging: 6/28/2024 11:23:28 AM

Method Blank (MB)

(MB) R3984803-1 10/11/23 08:48

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) High Fraction	0.0402	J	0.0247	0.100
(S) o-Terphenyl	*111*			*31.0-160*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3984803-2 10/11/23 09:20 • (LCSD) R3984803-3 10/11/23 09:39

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	1.69	1.61	113	107	50.0-150			4.85	20
(S) o-Terphenyl				*80.5*	*79.0*	*31.0-160*				

Semi-Volatile Organic Compounds (GC) by Method 3511/8015 L1662588-16,17,18,19,20,21,22,23,24,26,28,29,31,32,33,34,35,38,39,40

Method Blank (MB)

(MB) R3985842-1 10/13/23 01:58

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	*71.5*			*31.0-160*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3985842-2 10/13/23 02:20 • (LCSD) R3985842-3 10/13/23 02:46

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	1.53	1.56	102	104	50.0-150			1.94	20
(S) o-Terphenyl				*73.0*	*74.0*	*31.0-160*				

Semi-Volatile Organic Compounds (GC) by Method 3511/8015 L1662588-41,42,43,44,47,48,49,50,51,52,53,54,55,56,58,60,61,62,63,64

Method Blank (MB)

(MB) R3986613-1 10/13/23 13:16

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) R3986613-2 10/13/23 13:36 • (LCSD) R3986613-3 10/13/23 13:56

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	1.63	1.66	109	111	50.0-150			1.82	20
(S) o-Terphenyl				*82.5*	*81.5*	*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) R3984881-3 10/10/23 20:48

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
Benzo(a)anthracene	U		0.000199	0.00100
Benzaldehyde	U		0.00169	0.0100
Benzo(b)fluoranthene	0.000212	J	0.000130	0.00100
Benzo(k)fluoranthene	0.000192	J	0.000120	0.00100
Benzo(g,h,i)perylene	0.000165	J	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
2-Chloronaphthalene	U		0.0000648	0.00100
4-Chlorophenyl-phenylether	U		0.0000926	0.0100
Caprolactam	U		0.000309	0.0100
Carbazole	U		0.000111	0.0100
Chrysene	0.000183	J	0.000130	0.00100
Dibenz(a,h)anthracene	0.000371		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	0.000174	J	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	0.000412	J	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
Nitrobenzene	U		0.000297	0.0100
n-Nitrosodiphenylamine	U		0.00237	0.0100
n-Nitrosodi-n-propylamine	U		0.000261	0.0100

Method Blank (MB)

(MB) R3984881-3 10/10/23 20:48

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
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	0.000148	J	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
2,4-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
2-Nitroaniline	U		0.000102	0.0100
2-Methylphenol	U		0.0000929	0.0100
3&4-Methyl Phenol	U		0.000168	0.0100
3-Nitroaniline	U		0.0000869	0.0100
4-Chloroaniline	U		0.000234	0.0100
4-Nitroaniline	U		0.0000910	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) 2-Fluorophenol	*42.8*			*10.0-120*
(S) Phenol-d5	*26.8*			*10.0-120*
(S) Nitrobenzene-d5	*64.4*			*10.0-127*
(S) 2-Fluorobiphenyl	*54.9*			*10.0-130*
(S) 2,4,6-Tribromophenol	*61.0*			*10.0-155*
(S) p-Terphenyl-d14	*63.0*			*10.0-128*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3984881-1 10/10/23 20:05 • (LCSD) R3984881-2 10/10/23 20:26

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 %
Acenaphthene	0.0500	0.0350	0.0320	70.0	64.0	41.0-120			8.96	22
Acenaphthylene	0.0500	0.0341	0.0314	68.2	62.8	43.0-120			8.24	22
Acetophenone	0.0500	0.0374	0.0333	74.8	66.6	29.0-120			11.6	28
Anthracene	0.0500	0.0355	0.0325	71.0	65.0	45.0-120			8.82	20
Atrazine	0.0500	0.0389	0.0362	77.8	72.4	39.0-141			7.19	20
Benzo(a)anthracene	0.0500	0.0373	0.0316	74.6	63.2	47.0-120			16.5	20
Benzaldehyde	0.0500	0.0866	0.0771	173	154	10.0-160	J4		11.6	40
Benzo(b)fluoranthene	0.0500	0.0365	0.0322	73.0	64.4	46.0-120			12.5	20
Benzo(k)fluoranthene	0.0500	0.0365	0.0316	73.0	63.2	46.0-120			14.4	21
Benzo(g,h,i)perylene	0.0500	0.0412	0.0354	82.4	70.8	48.0-121			15.1	20
Benzo(a)pyrene	0.0500	0.0339	0.0294	67.8	58.8	47.0-120			14.2	20
Biphenyl	0.0500	0.0333	0.0309	66.6	61.8	38.0-120			7.48	27
Bis(2-chlorethoxy)methane	0.0500	0.0300	0.0290	60.0	58.0	33.0-120			3.39	24
Bis(2-chloroethyl)ether	0.0500	0.0339	0.0302	67.8	60.4	23.0-120			11.5	33
2,2-Oxybis(1-Chloropropane)	0.0500	0.0318	0.0295	63.6	59.0	28.0-120			7.50	31
4-Bromophenyl-phenylether	0.0500	0.0307	0.0289	61.4	57.8	45.0-120			6.04	20
2-Chloronaphthalene	0.0500	0.0317	0.0293	63.4	58.6	37.0-120			7.87	25
4-Chlorophenyl-phenylether	0.0500	0.0333	0.0300	66.6	60.0	44.0-120			10.4	20
Caprolactam	0.0500	0.0128	0.0120	25.6	24.0	10.0-120			6.45	26
Carbazole	0.0500	0.0367	0.0335	73.4	67.0	51.0-122			9.12	20
Chrysene	0.0500	0.0370	0.0322	74.0	64.4	48.0-120			13.9	20
Dibenz(a,h)anthracene	0.0500	0.0339	0.0291	67.8	58.2	47.0-120			15.2	20
Dibenzofuran	0.0500	0.0339	0.0314	67.8	62.8	44.0-120			7.66	22
3,3-Dichlorobenzidine	0.100	0.0805	0.0679	80.5	67.9	44.0-120			17.0	20
2,4-Dinitrotoluene	0.0500	0.0378	0.0345	75.6	69.0	49.0-124			9.13	20
2,6-Dinitrotoluene	0.0500	0.0350	0.0316	70.0	63.2	46.0-120			10.2	21
Fluoranthene	0.0500	0.0397	0.0348	79.4	69.6	51.0-120			13.2	20
Fluorene	0.0500	0.0340	0.0312	68.0	62.4	47.0-120			8.59	20
Hexachlorobenzene	0.0500	0.0277	0.0268	55.4	53.6	44.0-120			3.30	20
Hexachloro-1,3-butadiene	0.0500	0.0278	0.0266	55.6	53.2	19.0-120			4.41	32
Hexachlorocyclopentadiene	0.0500	0.0112	0.00854	22.4	17.1	15.0-120			27.0	31
Hexachloroethane	0.0500	0.0328	0.0289	65.6	57.8	15.0-120			12.6	37
Indeno(1,2,3-cd)pyrene	0.0500	0.0320	0.0283	64.0	56.6	49.0-122			12.3	20
Isophorone	0.0500	0.0337	0.0316	67.4	63.2	36.0-120			6.43	23
1-Methylnaphthalene	0.0500	0.0284	0.0271	56.8	54.2	33.0-120			4.68	24
2-Methylnaphthalene	0.0500	0.0296	0.0278	59.2	55.6	33.0-120			6.27	25
Naphthalene	0.0500	0.0274	0.0260	54.8	52.0	27.0-120			5.24	27
Nitrobenzene	0.0500	0.0328	0.0314	65.6	62.8	27.0-120			4.36	29
n-Nitrosodiphenylamine	0.0500	0.0318	0.0300	63.6	60.0	47.0-120			5.83	20
n-Nitrosodi-n-propylamine	0.0500	0.0399	0.0348	79.8	69.6	31.0-120			13.7	28

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3984881-1 10/10/23 20:05 • (LCSD) R3984881-2 10/10/23 20:26

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 %
Phenanthrene	0.0500	0.0341	0.0319	68.2	63.8	46.0-120			6.67	20
Benzylbutyl phthalate	0.0500	0.0387	0.0345	77.4	69.0	43.0-121			11.5	20
Bis(2-ethylhexyl)phthalate	0.0500	0.0387	0.0332	77.4	66.4	43.0-122			15.3	20
Di-n-butyl phthalate	0.0500	0.0395	0.0353	79.0	70.6	49.0-121			11.2	20
Diethyl phthalate	0.0500	0.0381	0.0356	76.2	71.2	48.0-122			6.78	20
Dimethyl phthalate	0.0500	0.0368	0.0336	73.6	67.2	48.0-120			9.09	20
Di-n-octyl phthalate	0.0500	0.0406	0.0355	81.2	71.0	42.0-125			13.4	20
Pyrene	0.0500	0.0372	0.0332	74.4	66.4	47.0-120			11.4	20
1,2,4-Trichlorobenzene	0.0500	0.0270	0.0269	54.0	53.8	24.0-120			0.371	29
4-Chloro-3-methylphenol	0.0500	0.0299	0.0280	59.8	56.0	40.0-120			6.56	21
2-Chlorophenol	0.0500	0.0256	0.0233	51.2	46.6	25.0-120			9.41	35
2,4-Dichlorophenol	0.0500	0.0276	0.0257	55.2	51.4	36.0-120			7.13	26
2,4-Dimethylphenol	0.0500	0.0332	0.0309	66.4	61.8	33.0-120			7.18	26
4,6-Dinitro-2-methylphenol	0.0500	0.0359	0.0341	71.8	68.2	38.0-138			5.14	25
2,4-Dinitrophenol	0.0500	0.0339	0.0308	67.8	61.6	10.0-120			9.58	39
2-Nitrophenol	0.0500	0.0297	0.0267	59.4	53.4	31.0-120			10.6	29
2-Nitroaniline	0.0500	0.0364	0.0330	72.8	66.0	43.0-120			9.80	22
2-Methylphenol	0.0500	0.0256	0.0229	51.2	45.8	28.0-120			11.1	29
3&4-Methyl Phenol	0.0500	0.0281	0.0248	56.2	49.6	31.0-120			12.5	30
3-Nitroaniline	0.0500	0.0328	0.0310	65.6	62.0	38.0-120			5.64	21
4-Chloroaniline	0.0500	0.0313	0.0295	62.6	59.0	25.0-120			5.92	25
4-Nitroaniline	0.0500	0.0366	0.0321	73.2	64.2	18.0-160			13.1	21
4-Nitrophenol	0.0500	0.0150	0.0122	30.0	24.4	10.0-120			20.6	33
Pentachlorophenol	0.0500	0.0291	0.0265	58.2	53.0	23.0-120			9.35	25
Phenol	0.0500	0.0156	0.0131	31.2	26.2	10.0-120			17.4	36
2,4,5-Trichlorophenol	0.0500	0.0319	0.0290	63.8	58.0	44.0-120			9.52	22
2,4,6-Trichlorophenol	0.0500	0.0309	0.0293	61.8	58.6	42.0-120			5.32	23
(S) 2-Fluorophenol				*42.3*	*35.0*	*10.0-120*				
(S) Phenol-d5				*28.2*	*25.0*	*10.0-120*				
(S) Nitrobenzene-d5				*65.0*	*63.5*	*10.0-127*				
(S) 2-Fluorobiphenyl				*61.1*	*57.2*	*10.0-130*				
(S) 2,4,6-Tribromophenol				*64.0*	*61.5*	*10.0-155*				
(S) p-Terphenyl-d14				*64.3*	*56.5*	*10.0-128*				

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.
J2	Surrogate recovery limits have been exceeded; values are outside lower 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.
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.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.

GLOSSARY OF TERMS

Qualifier	Description
Q	Sample was prepared and/or analyzed past holding time as defined in the method. Concentrations should be considered minimum values.
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.

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 2023
City/State Collected: Artesia, NM

Phone: 512-684-3170
Fax:
Client Project #
Lab Project # TRCATX-ARTESIA

Collected by (print): Scott Ude/HMI Team
Site/Facility ID # (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 #

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	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
~~MW-85~~	Grab	GW				10	x	x	x	x	x	x		NOT	SAMPLED;	LNAPL		
~~MW-86~~	Grab	GW				11	x	x	x		x	x	x	x	NOT SAMPLED;	LNAPL		
MW-120	Grab	GW		10/3/23	825	10	x	x	x	x	x	x						-01
MW-121	Grab	GW		10/3/23	910	7		x	x	x	x	x						-02
MW-84	Grab	GW		10/3/23	1400	7		x	x	x	x	x						-03
MW-122	Grab	GW		10/3/23	955	7		x	x	x	x	x						-04
MW-79	Grab	GW		10/3/23	1400	7		x	x	x	x	x						-05
MW-74	Grab	GW		10/3/23	1305	7		x	x	x	x	x						-06
MW-2A	Grab	GW		10/3/23	1040	7		x	x	x	x	x						-07
OCD-6	Grab	GW		10/3/23	1130	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.

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier

Tracking # SHIPMENT 1

Chain of Custody Page 1 of 20

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# ULd02588
B022
Table #
Acctnum: TRCATX
Template: T238036
Prelogin: P1024949
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

Trip Blank Received: (Yes) / No
HCl / MeoH
TBR
6

Temp: °C Bottles Received: 488

If preservation required by Login: Date/Time

Hold: Conditions: 04

	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	10/3/23	1600	
Relinquished by : (Signature)			Received by: (Signature)
Relinquished by : (Signature)			Received for lab by: (Signature)

Date: 10.4.23 Time: 7:00

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 2023

City/State Collected: Artesia, NM

Phone: 512-684-3170
Fax:

Client Project #

Lab Project #
TRCATX-ARTESIA

Collected by (print): Scott Ude/HMI Team

Site/Facility ID #
(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

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	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
OCD-7AR	Grab	GW		10/3/23	1215	7		x	x	x	x	x						-09
~~MW-48~~	~~Grab~~	~~GW~~				10	x	x	x	x	x	x	NOT SAMPLED; LNAPL					
MW-130	Grab	GW				10	x	x	x	x	x	x						
~~KWB-4~~	~~Grab~~	~~GW~~				8	x	x		x	x	x	NOT SAMPLED; LNAPL					
EB-EP-01	Grab	GW		10/3/23	1320	7		x	x	x	x	x						-10
EB-EP-04	Grab	GW		10/3/23	1420	7		x	x	x	x	x						-11
TRIP BLANK-EP-01	Grab	GW		10/3/23	—	1	x											-12

* 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 # SHIPMENT 1

Relinquished by : (Signature) — Date: 10/3/23 Time: 1600 — Received by: (Signature)

Relinquished by : (Signature) — Date: — Time: — Received by: (Signature)

Relinquished by : (Signature) — Date: — Time: — Received for lab by: (Signature) 10

Trip Blank Received: Yes / No HCL / MeoH TBR

Temp: °C Bottles Received:

Date: 10-4-23 Time: 9:00

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

If preservation required by Login: Date/Time

Hold: Condition:

Chain of Custody Page 2 of 20

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# L1162588

Table #

Acctnum: TRCATX

Template: T238036

Prelogin: P1024949

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 2023

City/State Collected: Artesia, NM

Phone: 512-684-3170
Fax:

Client Project #

Lab Project #
TRCATX-ARTESIA

Collected by (print): Scott Ude/HMI Team

Site/Facility ID #
(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	V8260OXY - 40mlAmb HCl	DROLVI- 40mlAmb-HCl-BT	GRO - 40mlAmb HCl	Total Short List Metals 250mlHDPE-HNO3	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
MW-76	Grab	GW		10/3/23	925	7		x	x	x	x	x						-13
MW-75	Grab	GW		10/3/23	1010	7		x	x	x	x	x						-14
MW-83	Grab	GW		10/3/23	1045	7		x	x	x	x	x						-15
MW-3	Grab	GW		10/3/23	1120	7		x	x	x	x	x						-16
MW-88	Grab	GW				5		x	x	x							No Cations	
MW-22A	Grab	GW				7		x	x	x	x	x						
MW-10	Grab	GW				7		x	x	x	x	x						
MW-123	Grab	GW				7		x	x	x	x	x						
MW-4A	Grab	GW		10/3/23	1300	7		x	x	x	x	x						
MW-5A	Grab	GW		10/3/23	1205	7		x	x	x	x	x						-17 -18

Analysis / Container / Preservative

Chain of Custody Page 3 of 20

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# L1662588
Table #
Acctnum: TRCATX
Template: T238053
Prelogin: P1024995
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 # SHIPMENT 1

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
	10/3/23	1600			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10.4.23 Time: 9:00	Hold: Condition:

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 2023
City/State Collected: Artesia, NM

Phone: 512-684-3170
Fax:

Client Project #
Lab Project # TRCATX-ARTESIA

Collected by (print): Scott Ude/HMI Team
Site/Facility ID # (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

Pres Chk | | | | <2 | | | <2 | RCV >12 | | | |

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	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
MW-7A	Grab	GW				10	x	x	x	x	x	x						
OCD-8A	Grab	GW				8		x	x		x	x	x	x				
DUP-EP-01	Grab	GW				10	x	x	x	x	x	x						
DUP-EP-02	Grab	GW				7		x	x	x	x	x						
DUP-EP-03	Grab	GW		10/3/23	1040	7		x	x	x	x	x						-19
EB-EP-03	Grab	GW		10/3/23	1215	7		x	x	x	x	x						-20
TRIP BLANK-EP-02	Grab	GW				1	x											

Chain of Custody Page 4 of 20

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# L1162588
Table #
Acctnum: TRCATX
Template: T238053
Prelogin: P1024995
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 # SHIPMENT 1

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)	10/3/23	1600	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) 2 10	Date: 10.4.23 Time: 9:00

If preservation required by Login: Date/Time
Hold: Condition:

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 2023

City/State Collected: Artesia, NM

Phone: 512-684-3170
Fax:

Client Project #

Lab Project #
TRCATX-ARTESIA

Collected by (print): Scott Ude/HMI Team

Site/Facility ID #
(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

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	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
OCD-1R	Grab	GW		10/3/23	1220	7		x	x	x	x	x						-21
OCD-2A	Grab	GW		10/3/23	1130	5		x	x	x							No Cations	-22
OCD-3	Grab	GW		10/3/23	830	5		x	x	x							No Cations	-23
OCD-4	Grab	GW		10/3/23	920	5		x	x	x							No Cations	-24
MW-11A	Grab	GW		10/3/23	1050	3				x	x	x					Only Cats.	-25
OCD-5	Grab	GW		10/3/23	1005	7		x	x	x	x	x						-26
MW-87	Grab	GW				5		x	x	x							No Cations	
MW-18A	Grab	GW				6		x			x	x	x	x				
MW-70	Grab	GW				5		x	x	x							No Cations	
MW-124	Grab	GW				7		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 # SHIPMENT 1

Chain of Custody Page 5 of 20

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 # L1162588

Table #

Acctnum: TRCATX

Template: T238057

Prelogin: P1024997

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

	Date:	Time:		
Relinquished by: (Signature)	10/3/23	1600	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: / If preservation required by Login: Date/Time
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10.4.23 Time: 9:00 / Hold: / Condition:

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 2023
City/State Collected: Artesia, NM

Phone: 512-684-3170
Fax:
Client Project #
Lab Project # TRCATX-ARTESIA

Collected by (print): Scott Ude/HMI Team
Site/Facility ID # (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

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	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
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						
MW-140	Grab	GW				3					x	x	x					
MW-141	Grab	GW				3					x	x	x					
EB-EP-02	Grab	GW				7		x	x	x	x	x						-27
TRIP BLANK-EP-03	Grab	GW		10/3/23	—	1	x											

Chain of Custody Page 6 of 20

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# L1607588
Table #
Acctnum: TRCATX
Template: T238057
Prelogin: P1024997
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 # SHIPMENT 1

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: 10/3/23 | Time: 1600 | Received by: (Signature) | Trip Blank Received: Yes / No HCL / MeoH TBR
Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Temp: °C Bottles Received: | If preservation required by Login: Date/Time
Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) 4 10 | Date: 10-4-23 Time: 9:00 | Hold: | Condition:

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 2023

City/State Collected: Artesia, NM

Phone: 512-684-3170
Fax:

Client Project #

Lab Project #
TRCATX-ARTESIA

Collected by (print): Scott Ude/HMI Team

Site/Facility ID #
(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 20

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: T238067
Prelogin: P1024998
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	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
MW-113	Grab	GW				10	x	x	x	x	x	x						
~~KWB-8~~	~~Grab~~	~~GW~~				~~9~~	x	x			x	x	x	x	NOT	SAMPLED;	LVHPL	
~~MW-133~~	~~Grab~~	~~GW~~		~~10/3/23~~		~~10~~	x	x	x	x	x	x			NOT	Sampled;	LVHPL	
MW-134	Grab	GW		10/3/23	1335	10	x	x	x		x	x	x					-28
RA-4196	Grab	GW				11	x			x	x	x			x	x	Only Cats.	
KWB-7	Grab	GW		10/3/23	1010	9	x	x			x	x	x	x				-29
~~MW-135~~	~~Grab~~	~~GW~~				~~10~~	x	x	x	x	x	x						
NP-1	Grab	GW		10/3/23	1250	3	x											-30
MW-21	Grab	GW		10/3/23	1210	10	x	x	x	x	x	x						-31
KWB-11A	Grab	GW		10/3/23	1050	11	x	x	x		x	x	x	x				-32

* 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 # SHIPMENT 1

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
	10/3/23	1600		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:
				10.4.23

If preservation required by Login: Date/Time

Hold: Condition: 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 2023
City/State Collected: Artesia, NM

Phone: 512-684-3170
Fax:
Client Project #
Lab Project # TRCATX-ARTESIA

Collected by (print): Scott Ude/HMI Team
Site/Facility ID # (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 20

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# LL662588
Table #
Acctnum: TRCATX
Template: T238067
Prelogin: P1024998
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	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
KWB-11B	Grab	GW		10/3/23	1125	11	x	x	x		x	x	x	x				-33
MW-115	Grab	GW				10	x	x	x		x	x	x					
MW-114	Grab	GW				10	x	x	x		x	x	x					
MW-125	Grab	GW				10	x	x	x		x	x	x					
DUP-REST-01	Grab	GW				10	x	x	x	x	x	x						
EB-REST-01	Grab	GW				10	x	x	x	x	x	x						
DUP-REST-03	Grab	GW		10/3/23	1200	10	x	x	x	x	x	x						-34
EB-REST-03	Grab	GW		10/3/23	1345	10	x	x	x	x	x	x						-35
TRIP BLANK-REST-01	Grab	GW		10/3/23	—	1	x											-36
TRIP BLANK-TMD-01	Grab	GW		10/3/23	—	1	x											-37

* 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 # SHIPMENT 1

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
	10/3/23	1600		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10.4.23 Time: 9.00

If preservation required by Login: Date/Time
Hold: Condition: NCF

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 2023
City/State Collected: Artesia, NM

Phone: 512-684-3170
Fax:
Client Project #
Lab Project # TRCATX-ARTESIA

Collected by (print): Scott Ude/HMI Team
Site/Facility ID # (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

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	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
MW-117	Grab	GW				10	X	X	X		X	X	X					
MW-118	Grab	GW				10	X	X	X		X	X	X					
MW-119	Grab	GW				10	X	X	X		X	X	X					
MW-136	Grab	GW		10/3/23	1225	11	X	X	X		X	X	X	X				-38
~~MW-126A~~	~~Grab~~	~~GW~~				~~10~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~		NOT SAMPLED; LNAPL				
MW-126B	Grab	GW		10/3/23	1315	10	X	X	X	X	X	X						-39
~~MW-127~~	~~Grab~~	~~GW~~				~~15~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~			~~X~~	~~X~~	NOT SAMPLED, LNAPL	
KWB-1A	Grab	GW		10/3/23	1410	9	X	X			X	X	X	X				-40
~~KWB-10R~~	~~Grab~~	~~GW~~				~~10~~	~~X~~	~~X~~		~~X~~	~~X~~	~~X~~				~~X~~	NOT SAMPLED; LNAPL	
~~MW-131~~	~~Grab~~	~~GW~~				~~10~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~		NOT SAMPLED; LNAPL				

* 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 # SHIPMENT 1

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	10/3/23	1600	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			10

Trip Blank Received: Yes / No HCL / MeoH TBR
Temp: °C Bottles Received:
Date: 10.4.23 Time: 9:00

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

If preservation required by Login: Date/Time
Hold: Condition: CH

Chain of Custody Page 9 of 20

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# L1662588
Table #
Acctnum: TRCATX
Template: T238178
Prelogin: P1025442
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

Report to: Julie Speer
Email To: jspeer@trccompanies.com

Project Description: Artesia Fall 2023
City/State Collected: Artesia, NM

Phone: 512-684-3170
Fax:
Client Project #
Lab Project # TRCATX-ARTESIA

Collected by (print): Scott Ude/HMI Team
Site/Facility ID #: (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 10 of 20

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# L1162568
Table #
Acctnum: TRCATX
Template: T238178
Prelogin: P1025442
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	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
~~KWB-5~~	~~Grab~~	~~GW~~				8	X	X		X	X	X		NOT SAMPLED; LVMPL				
~~MW-111~~	~~Grab~~	~~GW~~				15	X	X	X	X	X	X			X	X	NOT SAMPLED; LVMPL	
KWB-6	Grab	GW				13	X	X		X	X	X			X	X		
~~MW-112~~	~~Grab~~	~~GW~~				10	X	X	X	X	X	X		NOT SAMPLED; LVMPL				
MW-132	Grab	GW				10	X	X	X	X	X	X						
~~MW-57~~	~~Grab~~	~~GW~~				10	X	X	X	X	X	X		NOT SAMPLED; LVMPL				
KWB-12A	Grab	GW		10/3/23	1035	11	X	X	X		X	X	X	X				-41
KWB-12B	Grab	GW		10/3/23	1120	11	X	X	X		X	X	X	X				-42
KWB-2R	Grab	GW				10	X	X		X	X	X				X		
MW-58	Grab	GW				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 # SHIPMENT 1

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)	10/3/23	1600	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10-4-23 Time: 9:00

If preservation required by Login: Date/Time
Hold: Condition: 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 2023
City/State Collected: Artesia, NM

Phone: 512-684-3170
Fax:
Client Project #
Lab Project # TRCATX-ARTESIA

Collected by (print): Scott Ude/HMI Team
Site/Facility ID # (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 #

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	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
MW-149	Grab	GW				8	X	X		X	X	X						
MW-150	Grab	GW				8	X	X		X	X	X						
MW-142	Grab	GW				3					X	X	X					
MW-143	Grab	GW				3					X	X	X					
DUP-REST-05	Grab	GW		10/3/23	1200	11	X	X	X		X	X	X	X				-43
EB-REST-05	Grab	GW		10/3/23	1135	11	X	X	X		X	X	X	X				-44
TRIP BLANK-REST-02	Grab	GW		10/3/23	—	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 # SHIPMENT 1

Relinquished by : (Signature) Date: 10/3/23 Time: 1600 Received by: (Signature)
Relinquished by : (Signature) Date: Time: Received by: (Signature)
Relinquished by : (Signature) Date: Time: Received for lab by: (Signature) 10

Trip Blank Received: Yes / No
HCL / MeoH
TBR
Temp: °C Bottles Received:
Date: 10.4.23 Time: 9:00

If preservation required by Login: Date/Time
Hold: Condition:

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 11 of 20

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# LIL62588
Table #
Acctnum: TRCATX
Template: T238178
Prelogin: P1025442
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

Report to: Julie Speer
Email To: jspeer@trccompanies.com

Project Description: Artesia Fall 2023
City/State Collected: Artesia, NM

Phone: 512-684-3170
Fax:
Client Project #
Lab Project #: TRCATX-ARTESIA

Collected by (print): Scott Ude/HMI Team
Site/Facility ID #: (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

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	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
MW-104	Grab	GW				10	X	X	X	X	X	X						
MW-64	Grab	GW				10	X	X	X	X	X	X						
MW-65	Grab	GW				10	X	X	X	X	X	X						
MW-102	Grab	GW				10	X	X	X	X	X	X						
~~MW-99~~	~~Grab~~	~~GW~~				~~10~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	NOT SAMPLED				LWHPL	
MW-66	Grab	GW				11	X	X	X		X	X	X	X				
~~MW-28~~	~~Grab~~	~~GW~~				~~13~~	~~X~~	~~X~~	~~X~~		~~X~~	~~X~~	~~X~~	~~X~~		~~X~~	NOT Sampled, LWHPL	
~~MW-60~~	~~Grab~~	~~GW~~				~~16~~	~~X~~	~~X~~	~~X~~		~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	NOT Sampled, LWHPL	
~~MW-128~~	~~Grab~~	~~GW~~				~~12~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~				~~X~~	NOT Sampled, LWHPL	
MW-116	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:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier _____

Tracking # SHIPMENT 1

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
	10/3/23	1600		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10.4.23 Time 0900

If preservation required by Login: Date/Time
Hold: Condition: OK

Chain of Custody Page 12 of 20

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# L1207588
Table #
Acctnum: TRCATX
Template: T238183
Prelogin: P1025448
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

Report to: Julie Speer
Email To: jspeer@trccompanies.com

Project Description: Artesia Fall 2023
City/State Collected: Artesia, NM

Phone: 512-684-3170
Fax:
Client Project #
Lab Project # TRCATX-ARTESIA

Collected by (print): Scott Ude/HMI Team
Site/Facility ID #: (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 #

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	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	Cl, F, SO4 - 125mlHDPE-NoPres		Remarks	Sample # (lab only)
MW-46R	Grab	GW				8	X	X		X	X	X						-46
MW-144	Grab	GW		10/3/23	1110	3					X	X	X					-47
MW-145	Grab	GW		10/3/23	1025	10	X	X	X	X	X				X			-48
MW-146	Grab	GW		10/3/23	1205	10	X	X	X	X	X				X			-49
MW-135	Grab	GW		10/3/23	1300	10	X	X	X	X	X	X						-50
MW-147	Grab	GW		10/3/23	1350	10	X	X	X	X	X				X			-51
MW-148	Grab	GW		10/3/23	1440	10	X	X	X	X	X				X			
DUP-REST-02	Grab	GW				10	X	X	X	X	X	X						
EB-REST-02	Grab	GW				10	X	X	X	X	X	X						
DUP-REST-04	Grab	GW		10/3/23	1200	10	X	X	X	X	X				X		No Cations	-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 # SHIPMENT 1

Chain of Custody Page 13 of 20

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# L1162588
Table #
Acctnum: TRCATX
Template: T238183
Prelogin: P1025448
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

Trip Blank Received: Yes / No
HCL / MeoH
TBR

Temp: °C Bottles Received:

If preservation required by Login: Date/Time

Hold: Condition: OK

	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	10/3/23	1600	
Relinquished by : (Signature)			Received by: (Signature)
Relinquished by : (Signature)			Received for lab by: (Signature)

Date: 10.4.23 Time: 9:00

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 2023
City/State Collected: Artesia, NM

Phone: 512-684-3170
Fax:
Client Project #
Lab Project # TRCATX-ARTESIA

Collected by (print): Scott Ude/HMI Team
Site/Facility ID # (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 #

Chain of Custody Page 14 of 20

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# LL6025588
Table #
Acctnum: TRCATX
Template: T238183
Prelogin: P1025448
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	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	Cl, F, SO4 - 125mlHDPE-NoPres	Remarks	Sample # (lab only)
EB-REST-04	Grab	GW		10/3/23	1215	10	X	X	X	X	X				X	No Cations	-53
TRIP BLANK-REST-03	Grab	GW				1	X										

Analysis / Container / Preservative
Pres Chk
L2 L2

* 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 # SHIPMENT 1

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)
	10/3/23	1600	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			10

Trip Blank Received: Yes / No
HCL / MeoH
TBR
Temp: °C Bottles Received:
Date: Time:
10-4-23 9:00

If preservation required by Login: Date/Time
Hold: Condition: 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 2023
City/State Collected: Artesia, NM

Phone: 512-684-3170
Fax:
Client Project #
Lab Project # TRCATX-ARTESIA

Collected by (print): Scott Ude/HMI Team
Site/Facility ID # (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 #

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	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	8270DIOXANE-100ml Amb-NoPres	SVOCs -100ml Amb-NoPres	Remarks	Sample # (lab only)
MW-101	Grab	GW		10/3/23	1015	10	X	X	X	X	X	X						-54
MW-105	Grab	GW		10/3/23	925	10	X	X	X	X	X	X						-55
RW-2	Grab	GW				2										X		
MW-61	Grab	GW		10/3/23	1115	12	X	X	X	X	X	X				X		-56
~~MW-62~~	~~Grab~~	~~GW~~		~~10/3/23~~		~~12~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~				~~X~~	NOT Sampled, LNAPL	
MW-62R	Grab	GW		10/3/23	1235	10	X	X	X	X	X	X						-57
MW-93	Grab	GW				2										X		
~~MW-43~~	~~Grab~~	~~GW~~				~~15~~	~~X~~	~~X~~	~~X~~		~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	NOT Sampled, LNAPL	
MW-137	Grab	GW				13	X	X	X		X	X	X	X		X		
~~MW-137A~~	~~Grab~~	~~GW~~				~~11~~	~~X~~	~~X~~	~~X~~		~~X~~	~~X~~	~~X~~	~~X~~		~~X~~	NOT Sampled; LNAPL	

* 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 # SHIPMENT 1

Relinquished by: (Signature) — Date: 10/3/23 — Time: 1600 — Received by: (Signature)
Relinquished by: (Signature) — Date: — Time: — Received by: (Signature)
Relinquished by: (Signature) — Date: — Time: — Received for lab by: (Signature) — 10

Trip Blank Received: Yes / No
HCL / MeoH
TBR
Temp: °C Bottles Received:
Date: 10.4.23 Time: 700

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

If preservation required by Login: Date/Time
Hold: Condition: OH

Chain of Custody Page 15 of 20

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# LL602588
Table #
Acctnum: TRCATX
Template: T238187
Prelogin: P1025452
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

Report to: Julie Speer

Email To: jspeer@trccompanies.com

Project Description: Artesia Fall 2023

City/State Collected: Artesia, NM

Phone: 512-684-3170
Fax:

Client Project #

Lab Project #
TRCATX-ARTESIA

Collected by (print): Scott Ude/HMI Team

Site/Facility ID #
(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

Pres Chk

Chain of Custody Page 16 of 20

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# L1602588

Table #

Acctnum: TRCATX

Template: T238187

Prelogin: P1025452

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	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	8270DIOXANE-100ml Amb-NoPres	SVOCs -100ml Amb-NoPres	Remarks	Sample # (lab only)
MW-138	Grab	GW				15	X	X	X		X	X	X	X	X	X		
MW-138A	Grab	GW				11	X	X	X		X	X	X	X				
~~MW-23~~	~~Grab~~	~~GW~~				~~14~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~			~~X~~	~~X~~	NOT sampled; LWHL	
TEL-4	Grab	GW				10	X	X	X	X	X	X						
TEL-3	Grab	GW				10	X	X	X	X	X	X						
TEL-2	Grab	GW				10	X	X	X	X	X	X						
TEL-1	Grab	GW				10	X	X	X	X	X	X						
~~MW-39~~	~~Grab~~	~~GW~~				~~12~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~			~~X~~	NOT Sampled; LWHP		
MW-98	Grab	GW		10/3/23	1325	10	X	X	X	X	X	X						58
MW-29	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:

pH _____ Temp _____

Flow _____ Other _____

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

Tracking # SHIPMENT 1

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	
	10/3/23	1600			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:	If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10.4.23 Time: 9:00	Hold: Condition:
			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

Project Description: Artesia Fall 2023

City/State Collected: Artesia, NM

Phone: 512-684-3170
Fax:

Client Project #

Lab Project #
TRCATX-ARTESIA

Collected by (print): Scott Ude/HMI Team

Site/Facility ID #
(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

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	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	8270DIOXANE - 100ml Amb-NoPres	SVOCs -100ml Amb-NoPres	Remarks	Sample # (lab only)
MW-49	Grab	GW				11	X	X	X		X	X	X	X				
MW-106	Grab	GW				12	X	X	X	X	X	X			X			
MW-45	Grab	GW				9	X	X		X	X	X	X	X				
DUP-TEL-01	Grab	GW				10	X	X	X	X	X	X						
EB-TEL-01	Grab	GW				10	X	X	X	X	X	X						
TRIP BLANK-REST-04				10/3/23	—	1	X											-59
TRIP BLANK-TEL-01						1	X											

Chain of Custody Page 17 of 20

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 # LL625880
Table #
Acctnum: TRCATX
Template: T238187
Prelogin: P1025452
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 # SHIPMENT 1

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
	10/3/23	1600		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10.4.23 Time: 9:00

If preservation required by Login: Date/Time

Hold: Condition: 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 2023

City/State Collected: Artesia, NM

Phone: 512-684-3170
Fax:

Client Project #

Lab Project #
TRCATX-ARTESIA

Collected by (print): Scott Ude/HMI Team

Site/Facility ID #
(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

JC

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	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	8270DIOXANE-100mlAmb-NoPres	SVOCs-100mlAmb-NoPres	Remarks	Sample # (lab only)
MW-139	Grab	GW				10	x	x	x	x	x	x						
MW-50	Grab	GW		10/3/23	1155	8	x	x		x	x	x						-60
MW-97	Grab	GW				12	x	x	x	x	x	x				x		
MW-92	Grab	GW				12	x	x	x	x	x	x			x			
MW-91	Grab	GW				12	x	x	x	x	x	x			x			
MW-90	Grab	GW		10/3/23	1025	10	x	x	x	x	x	x						-61
MW-96	Grab	GW		10/3/23	1110	10	x	x	x	x	x	x						-62
MW-94	Grab	GW				12	x	x	x	x	x	x			x			
MW-67	Grab	GW				13	x	x	x		x	x	x	x	x			
NCL-34A	Grab	GW				8	x	x		x	x	x						

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater

Remarks: SHIPMENT 1

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

10/3/23 1600

OK

9 10 10.4.23 9.00

Chain of Custody Page 18 of 20

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: T238189
Prelogin: P1025453
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

Report to: Julie Speer

Email To: jspeer@trccompanies.com

Project Description: Artesia Fall 2023

City/State Collected: Artesia, NM

Phone: 512-684-3170
Fax:

Client Project #

Lab Project #
TRCATX-ARTESIA

Collected by (print): Scott Ude/HMI Team

Site/Facility ID #
(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 19 of 20

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# LL605588

Table #

Acctnum: TRCATX
Template: T238189
Prelogin: P1025453
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	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	8270DIOXANE-100mlAmb-NoPres	SVOCs-100mlAmb-NoPres	Remarks	Sample # (lab only)
NCL-33	Grab	GW		10/3/23	1025	8	X	X		X	X	X						-63
NCL-44	Grab	GW		10/3/23	1110	8	X	X		X	X	X						-64
NCL-32	Grab	GW				8	X	X		X	X	X						
MW-108	Grab	GW				8	X	X		X	X	X						
NCL-31	Grab	GW				8	X	X		X	X	X						
MW-55	Grab	GW				11	X	X	X		X	X	X	X				
MW-54A	Grab	GW				8	X	X		X	X	X						
NCL-49	Grab	GW				8	X	X		X	X	X						
DUP-NCL-01	Grab	GW				8	X	X		X	X	X						
EB-NCL-01	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:

pH _____ Temp _____

Flow _____ Other _____

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

Tracking # SHIPMENT 1

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
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10.4.23 Time: 9.00	Hold: Condition: 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 2023
City/State Collected: Artesia, NM

Phone: 512-684-3170
Fax:
Client Project #
Lab Project # TRCATX-ARTESIA

Collected by (print): Scott Ude/HMI Team
Site/Facility ID #: (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	V8260OXY - 40mlAmb HCl	DROLVI- 40mlAmb-HCl-BT	GRO - 40mlAmb HCl	Total Short List Metals 250mlHDPE-HNO3	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	8270DIOXANE - 100ml Amb-NoPres	SVOCs-100mlAmb-NoPres	Remarks	Sample # (lab only)
TRIP BLANK-NCL-01	Grab	GW				1	X											

Analysis / Container / Preservative
Pres Chk

Chain of Custody Page 20 of 20

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# L1602588
Table #
Acctnum: TRCATX
Template: T238189
Prelogin: P1025453
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 # SHIPMENT 1

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)
	10/3/23	1600	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			10

Trip Blank Received: Yes / No
HCL / MeoH
TBR

Temp: °C Bottles Received:

Date: 10.4.23 Time: 9.00

If preservation required by Login: Date/Time

Hold: Condition:

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LL602588

Tracking Numbers		Temperature
6357 9918 0679		CCA8 0.1 to = 0.1
6357 9918 9849		CCA8 2.6 to = 2.6
7019 5688 7956		CCA8 0.1 to = 0.1
7019 5688 6180		CCA8 0.1 to = 0.1
6053 3811 8049		CCA8 0.1 to = 0.1
7019 5687 9465		CCA8 0.8 to = 0.8
6643 4304 7382		CCA8 1.4 to = 1.4
7019 5688 5931		CCA8 5.7 to = 5.7
6643 4304 7350		CCA8 2.0 to = 2.0

Name

Date

Received by OCD: 6/12/2024 3:31:05 PM

Released to Imaging: 6/28/2024 11:23:28 AM

From: Helbert, Dana
To: Chris McCord
Cc: Morin, Kristen; Speer, Julie
Subject: RE: [EXTERNAL] Pace Analytical National Login for Artesia Fall 2023 L1663141
Date: Monday, October 09, 2023 2:41:21 PM

CAUTION: This email originated from outside Pace Analytical. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi Chris, please see below for minor changes to both logins for Artesia:

ln01L1662588:
MW-62R: Remove all analyses (my mistake, should have not been on bottle order)

ln01L1663141:
MW-116: Change short list metals to long list metals
RW-2: Remove all analyses (my mistake, should have not been on bottle order)

Thanks! Please let me know if you have any questions!

Dana Helbert, P.G. (TX, NC)
Geologist, Assistant Project Manager

505 E. Huntland Drive, Suite 250, Austin, TX 78752
Direct (Preferred): 713.306.9550 | Office: 512.202.6823 |
dhelbert@trccompanies.com
LinkedIn | Twitter | Blog | TRCcompanies.com

-----Original Message-----
From: Chris McCord <chris.mccord@pacelabs.com>
Sent: Sunday, October 8, 2023 2:10 AM
To: Helbert, Dana <dhelbert@trccompanies.com>; Morin, Kristen <kmorin@trccompanies.com>; Speer, Julie <jspeer@trccompanies.com>
Subject: [EXTERNAL] Pace Analytical National Login for Artesia Fall 2023 L1663141

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Chris McCord
Technical Service Representative
615-773-3281

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ANALYTICAL REPORT

October 31, 2023

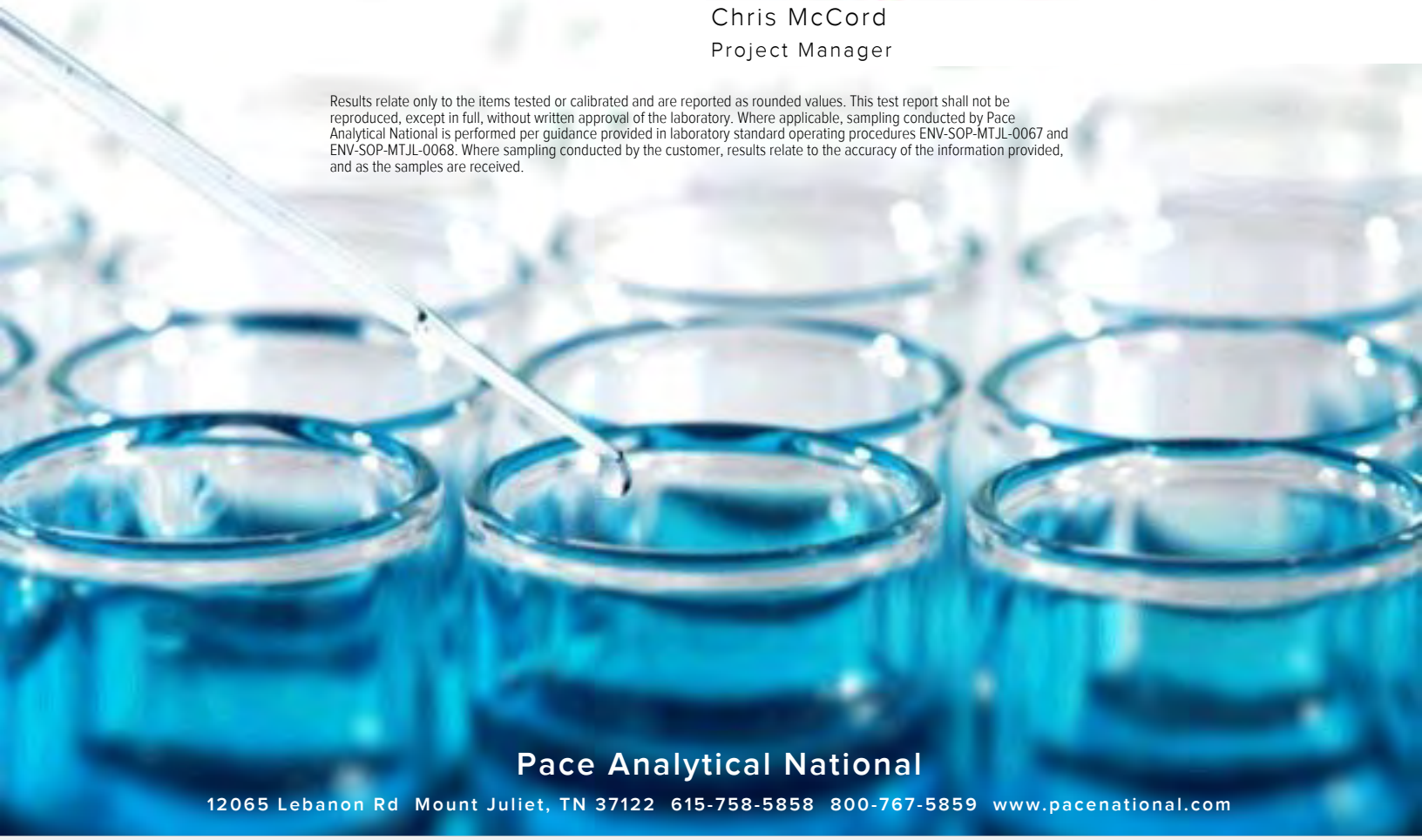
TRC Solutions - Austin, TX

Sample Delivery Group:	L1663141
Samples Received:	10/05/2023
Project Number:	
Description:	Artesia Fall 2023
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-130 L1663141-01 GW

Collected by: Scott Ude / HMI Team | Collected date/time: 10/04/23 11:10 | Received date/time: 10/05/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2147682	1	10/09/23 09:14	10/09/23 15:31	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145803	1	10/06/23 02:49	10/06/23 02:49	ASM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145803	10	10/06/23 11:00	10/06/23 11:00	ASM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2146870	1	10/11/23 11:42	10/19/23 15:59	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2147534	1	10/10/23 00:56	10/10/23 00:56	DYW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2147150	1	10/08/23 21:23	10/08/23 21:23	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2148883	1	10/11/23 15:45	10/13/23 02:53	MAA	Mt. Juliet, TN

MW-88 L1663141-02 GW

Collected by: Scott Ude / HMI Team | Collected date/time: 10/04/23 08:30 | Received date/time: 10/05/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICPMS) by Method 6020	WG2146870	5	10/11/23 11:42	10/19/23 15:46	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2147534	1	10/10/23 01:18	10/10/23 01:18	DYW	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2160092	1	10/29/23 07:10	10/30/23 03:05	MAA	Mt. Juliet, TN

MW-22A L1663141-03 GW

Collected by: Scott Ude / HMI Team | Collected date/time: 10/04/23 10:40 | Received date/time: 10/06/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2148182	1	10/10/23 09:28	10/10/23 13:19	KAM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2148428	10	10/11/23 09:26	10/11/23 09:26	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2146874	1	10/11/23 11:17	10/19/23 14:04	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2146874	5	10/11/23 11:17	10/19/23 15:15	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2149400	1	10/11/23 16:28	10/11/23 16:28	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2149785	1	10/12/23 16:11	10/13/23 07:18	DMG	Mt. Juliet, TN

MW-10 L1663141-04 GW

Collected by: Scott Ude / HMI Team | Collected date/time: 10/04/23 09:10 | Received date/time: 10/06/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2150228	1	10/12/23 16:23	10/13/23 00:00	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2148428	10	10/11/23 09:52	10/11/23 09:52	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2146874	1	10/11/23 11:17	10/19/23 14:07	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2149400	1	10/11/23 16:51	10/11/23 16:51	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2149785	1	10/12/23 16:11	10/13/23 07:58	DMG	Mt. Juliet, TN

MW-123 L1663141-05 GW

Collected by: Scott Ude / HMI Team | Collected date/time: 10/04/23 09:55 | Received date/time: 10/06/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2150228	1	10/12/23 16:23	10/13/23 00:00	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2148968	10	10/11/23 18:39	10/11/23 18:39	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2146874	1	10/11/23 11:17	10/19/23 14:10	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2146874	5	10/11/23 11:17	10/19/23 15:19	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2149400	1	10/11/23 17:13	10/11/23 17:13	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2149785	1	10/12/23 16:11	10/13/23 07:38	DMG	Mt. Juliet, TN

MW-7A L1663141-06 GW

Collected by: Scott Ude / HMI Team
Collected date/time: 10/04/23 11:40
Received date/time: 10/06/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2148182	1	10/10/23 09:28	10/10/23 13:19	KAM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2148968	10	10/11/23 19:06	10/11/23 19:06	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2148968	100	10/11/23 19:19	10/11/23 19:19	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2146874	1	10/11/23 11:17	10/19/23 14:14	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2146874	5	10/11/23 11:17	10/19/23 15:22	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2149400	1	10/11/23 17:36	10/11/23 17:36	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2147457	1	10/09/23 14:42	10/09/23 14:42	DYW	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2149785	1	10/12/23 16:11	10/13/23 08:18	DMG	Mt. Juliet, TN

OCD-8A L1663141-07 GW

Collected by: Scott Ude / HMI Team
Collected date/time: 10/04/23 11:50
Received date/time: 10/05/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2147682	1	10/09/23 09:14	10/09/23 15:31	JAC	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG2145820	1	10/09/23 10:31	10/09/23 18:11	UNP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145803	10	10/06/23 03:06	10/06/23 03:06	ASM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145803	100	10/06/23 11:17	10/06/23 11:17	ASM	Mt. Juliet, TN
Mercury by Method 7470A	WG2146007	1	10/07/23 19:59	10/10/23 13:39	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2146855	1	10/11/23 10:26	10/11/23 22:22	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2146870	5	10/11/23 11:42	10/19/23 16:03	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2147534	1	10/10/23 01:40	10/10/23 01:40	DYW	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2148883	1	10/11/23 15:45	10/13/23 03:13	MAA	Mt. Juliet, TN

DUP-EP-01 L1663141-08 GW

Collected by: Scott Ude / HMI Team
Collected date/time: 10/04/23 11:00
Received date/time: 10/06/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2148182	1	10/10/23 09:28	10/10/23 13:19	KAM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2148968	10	10/11/23 19:32	10/11/23 19:32	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2148968	100	10/11/23 20:11	10/11/23 20:11	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2146874	1	10/11/23 11:17	10/19/23 14:26	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2146874	5	10/11/23 11:17	10/19/23 15:25	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2149400	1	10/11/23 17:59	10/11/23 17:59	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2147457	1	10/09/23 15:04	10/09/23 15:04	DYW	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2150506	1	10/14/23 08:14	10/14/23 23:24	MAA	Mt. Juliet, TN

DUP-EP-02 L1663141-09 GW

Collected by: Scott Ude / HMI Team
Collected date/time: 10/04/23 11:00
Received date/time: 10/06/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2150228	1	10/12/23 16:23	10/13/23 00:00	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2148968	10	10/11/23 20:24	10/11/23 20:24	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2146874	1	10/11/23 11:17	10/19/23 14:29	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2146874	5	10/11/23 11:17	10/19/23 15:28	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2149400	1	10/11/23 18:21	10/11/23 18:21	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2150506	1	10/14/23 08:14	10/14/23 23:44	MAA	Mt. Juliet, TN

TRIP BLANK-EP-02 L1663141-10 GW

Collected by: Scott Ude / HMI Team | Collected date/time: 10/04/23 00:00 | Received date/time: 10/05/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2147193	1	10/09/23 06:25	10/09/23 06:25	JCP	Mt. Juliet, TN

MW-87 L1663141-11 GW

Collected by: Scott Ude / HMI Team | Collected date/time: 10/04/23 08:20 | Received date/time: 10/05/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICPMS) by Method 6020	WG2146870	5	10/11/23 11:42	10/19/23 16:06	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2147534	1	10/10/23 02:02	10/10/23 02:02	DYW	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2148883	1	10/11/23 15:45	10/13/23 03:34	MAA	Mt. Juliet, TN

MW-18A L1663141-12 GW

Collected by: Scott Ude / HMI Team | Collected date/time: 10/04/23 09:05 | Received date/time: 10/05/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2147682	1	10/09/23 09:14	10/09/23 15:31	JAC	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG2145820	1	10/09/23 10:31	10/09/23 18:13	UNP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145919	10	10/05/23 20:39	10/05/23 20:39	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145919	100	10/06/23 04:07	10/06/23 04:07	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2146007	1	10/07/23 19:59	10/10/23 13:41	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2146855	1	10/11/23 10:26	10/11/23 22:25	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2146870	5	10/11/23 11:42	10/19/23 16:09	JPD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2148883	1	10/11/23 15:45	10/13/23 03:54	MAA	Mt. Juliet, TN

MW-70 L1663141-13 GW

Collected by: Scott Ude / HMI Team | Collected date/time: 10/04/23 10:00 | Received date/time: 10/05/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICPMS) by Method 6020	WG2146870	1	10/11/23 11:42	10/19/23 16:19	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2147534	10	10/10/23 03:07	10/10/23 03:07	DYW	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2148883	1	10/11/23 15:45	10/13/23 04:14	MAA	Mt. Juliet, TN

MW-124 L1663141-14 GW

Collected by: Scott Ude / HMI Team | Collected date/time: 10/04/23 10:50 | Received date/time: 10/05/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2146109	1	10/09/23 10:29	10/09/23 19:53	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145803	10	10/06/23 03:23	10/06/23 03:23	ASM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145803	100	10/06/23 11:34	10/06/23 11:34	ASM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2146870	5	10/11/23 11:42	10/19/23 16:22	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2147534	1	10/10/23 02:23	10/10/23 02:23	DYW	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2149782	1	10/13/23 10:11	10/14/23 01:17	MAA	Mt. Juliet, TN

MW-52 L1663141-15 GW

Collected by: Scott Ude / HMI Team | Collected date/time: 10/04/23 10:35 | Received date/time: 10/05/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2147745	1	10/09/23 10:38	10/10/23 00:37	KAM	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG2145820	1	10/09/23 10:31	10/09/23 18:17	UNP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145803	1	10/06/23 04:14	10/06/23 04:14	ASM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145803	10	10/06/23 11:51	10/06/23 11:51	ASM	Mt. Juliet, TN

MW-52 L1663141-15 GW

Collected by: Scott Ude / HMI Team
Collected date/time: 10/04/23 10:35
Received date/time: 10/05/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Mercury by Method 7470A	WG2146007	1	10/07/23 19:59	10/10/23 13:43	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2146855	1	10/11/23 10:26	10/11/23 22:28	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2146870	1	10/11/23 11:42	10/19/23 16:25	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2147534	1	10/10/23 02:45	10/10/23 02:45	DYW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2147193	1	10/09/23 08:51	10/09/23 08:51	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2149782	1	10/13/23 10:11	10/14/23 01:38	MAA	Mt. Juliet, TN

MW-109 L1663141-16 GW

Collected by: Scott Ude / HMI Team
Collected date/time: 10/04/23 09:25
Received date/time: 10/05/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2147745	1	10/09/23 10:38	10/10/23 00:37	KAM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145919	10	10/05/23 20:54	10/05/23 20:54	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2146870	1	10/11/23 11:42	10/19/23 16:29	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2148109	10	10/10/23 07:00	10/10/23 07:00	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2147193	25	10/09/23 11:36	10/09/23 11:36	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2149782	1	10/13/23 10:11	10/14/23 01:58	MAA	Mt. Juliet, TN

MW-110 L1663141-17 GW

Collected by: Scott Ude / HMI Team
Collected date/time: 10/04/23 09:55
Received date/time: 10/05/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2146109	1	10/09/23 10:29	10/09/23 19:53	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145919	10	10/05/23 21:42	10/05/23 21:42	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2146870	1	10/11/23 11:42	10/19/23 16:32	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2148109	1	10/10/23 02:28	10/10/23 02:28	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2147193	1	10/09/23 09:11	10/09/23 09:11	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2149782	1	10/13/23 10:11	10/14/23 02:18	MAA	Mt. Juliet, TN

MW-140 L1663141-18 GW

Collected by: Scott Ude / HMI Team
Collected date/time: 10/04/23 09:50
Received date/time: 10/05/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2147745	1	10/09/23 10:38	10/10/23 00:37	KAM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145919	10	10/05/23 21:58	10/05/23 21:58	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2146007	1	10/07/23 19:59	10/10/23 13:46	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2146855	1	10/11/23 10:26	10/11/23 22:32	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2146870	1	10/11/23 11:42	10/19/23 16:35	JPD	Mt. Juliet, TN

MW-141 L1663141-19 GW

Collected by: Scott Ude / HMI Team
Collected date/time: 10/04/23 08:55
Received date/time: 10/05/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2150228	1	10/12/23 16:23	10/13/23 00:00	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145919	10	10/05/23 22:14	10/05/23 22:14	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2146007	1	10/07/23 19:59	10/10/23 13:48	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2146855	1	10/11/23 10:26	10/11/23 22:35	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2146870	1	10/11/23 11:42	10/19/23 16:38	JPD	Mt. Juliet, TN

EB-EP-02 L1663141-20 GW

Collected by: Scott Ude / HMI Team | Collected date/time: 10/04/23 11:10 | Received date/time: 10/05/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2147682	1	10/09/23 09:14	10/09/23 15:31	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145803	1	10/06/23 04:31	10/06/23 04:31	ASM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2146870	1	10/11/23 11:42	10/19/23 16:42	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2148109	1	10/09/23 23:51	10/09/23 23:51	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2149782	1	10/13/23 10:11	10/14/23 02:38	MAA	Mt. Juliet, TN

MW-113 L1663141-21 GW

Collected by: Scott Ude / HMI Team | Collected date/time: 10/04/23 08:35 | Received date/time: 10/05/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2147703	1	10/09/23 09:32	10/09/23 12:14	KAM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145919	10	10/05/23 22:30	10/05/23 22:30	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2146870	1	10/11/23 11:42	10/19/23 16:45	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2146870	5	10/11/23 11:42	10/20/23 10:00	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2148109	20	10/10/23 07:22	10/10/23 07:22	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2149272	50	10/11/23 15:40	10/11/23 15:40	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2149782	1	10/13/23 10:11	10/14/23 02:59	MAA	Mt. Juliet, TN

RA-4196 L1663141-22 GW

Collected by: Scott Ude / HMI Team | Collected date/time: 10/04/23 08:20 | Received date/time: 10/05/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2146109	1	10/09/23 10:29	10/09/23 19:53	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145919	10	10/05/23 22:46	10/05/23 22:46	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2146870	1	10/11/23 11:42	10/19/23 16:48	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2147193	1	10/09/23 09:32	10/09/23 09:32	JCP	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG2148935	1.03	10/11/23 12:40	10/12/23 01:25	DLH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod	WG2145905	1	10/06/23 06:02	10/06/23 16:16	AED	Mt. Juliet, TN

MW-115 L1663141-23 GW

Collected by: Scott Ude / HMI Team | Collected date/time: 10/04/23 11:35 | Received date/time: 10/05/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2147656	1	10/09/23 08:54	10/09/23 12:57	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145803	10	10/06/23 04:48	10/06/23 04:48	ASM	Mt. Juliet, TN
Mercury by Method 7470A	WG2146007	1	10/07/23 19:59	10/10/23 13:50	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2146855	1	10/11/23 10:26	10/11/23 22:38	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2146870	1	10/11/23 11:42	10/19/23 16:58	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2148109	1	10/10/23 02:51	10/10/23 02:51	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2147193	1	10/09/23 09:53	10/09/23 09:53	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2149782	1	10/13/23 10:11	10/14/23 03:19	MAA	Mt. Juliet, TN

MW-114 L1663141-24 GW

Collected by: Scott Ude / HMI Team | Collected date/time: 10/04/23 12:20 | Received date/time: 10/05/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2147703	1	10/09/23 09:32	10/09/23 12:14	KAM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145796	10	10/06/23 03:21	10/06/23 03:21	ASM	Mt. Juliet, TN
Mercury by Method 7470A	WG2146007	1	10/07/23 19:59	10/10/23 13:53	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2146855	1	10/11/23 10:26	10/11/23 22:42	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2146870	1	10/11/23 11:42	10/19/23 17:01	JPD	Mt. Juliet, TN

MW-114 L1663141-24 GW

Collected by: Scott Ude / HMI Team | Collected date/time: 10/04/23 12:20 | Received date/time: 10/05/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2148109	1	10/10/23 03:13	10/10/23 03:13	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2147193	1	10/09/23 10:14	10/09/23 10:14	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2149782	1	10/13/23 10:11	10/14/23 10:26	ICD	Mt. Juliet, TN

MW-125 L1663141-25 GW

Collected by: Scott Ude / HMI Team | Collected date/time: 10/04/23 13:15 | Received date/time: 10/05/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2147682	1	10/09/23 09:14	10/09/23 15:31	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145796	10	10/06/23 03:47	10/06/23 03:47	ASM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145796	100	10/06/23 03:59	10/06/23 03:59	ASM	Mt. Juliet, TN
Mercury by Method 7470A	WG2146007	1	10/07/23 19:59	10/10/23 14:00	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2146855	1	10/11/23 10:26	10/11/23 22:45	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2146870	1	10/11/23 11:42	10/19/23 17:04	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2148109	1	10/10/23 04:44	10/10/23 04:44	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2147193	1	10/09/23 10:34	10/09/23 10:34	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2149782	1	10/13/23 10:11	10/14/23 10:46	ICD	Mt. Juliet, TN

DUP-REST-01 L1663141-26 GW

Collected by: Scott Ude / HMI Team | Collected date/time: 10/04/23 09:20 | Received date/time: 10/05/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2147682	1	10/09/23 09:14	10/09/23 15:31	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145919	10	10/05/23 23:06	10/05/23 23:06	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2146870	1	10/11/23 11:42	10/19/23 17:08	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2146870	5	10/11/23 11:42	10/20/23 10:03	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2148109	20	10/10/23 07:45	10/10/23 07:45	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2149272	50	10/11/23 16:01	10/11/23 16:01	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2149782	1	10/13/23 10:11	10/14/23 11:06	ICD	Mt. Juliet, TN

EB-REST-01 L1663141-27 GW

Collected by: Scott Ude / HMI Team | Collected date/time: 10/04/23 08:50 | Received date/time: 10/05/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2146109	1	10/09/23 10:29	10/09/23 19:53	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145919	1	10/05/23 23:21	10/05/23 23:21	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2146870	1	10/11/23 11:42	10/19/23 17:11	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2148109	1	10/10/23 00:13	10/10/23 00:13	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2147193	1	10/09/23 07:49	10/09/23 07:49	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2149782	1	10/13/23 10:11	10/14/23 11:27	ICD	Mt. Juliet, TN

MW-117 L1663141-28 GW

Collected by: Scott Ude / HMI Team | Collected date/time: 10/04/23 13:55 | Received date/time: 10/05/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2147656	1	10/09/23 08:54	10/09/23 12:57	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145796	10	10/06/23 04:12	10/06/23 04:12	ASM	Mt. Juliet, TN
Mercury by Method 7470A	WG2146007	1	10/07/23 19:59	10/10/23 14:02	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2146855	1	10/11/23 10:26	10/11/23 22:48	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2146871	1	10/10/23 10:38	10/18/23 20:08	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2148109	1	10/10/23 05:07	10/10/23 05:07	JAH	Mt. Juliet, TN

MW-117 L1663141-28 GW

Collected by	Collected date/time	Received date/time
Scott Ude / HMI Team	10/04/23 13:55	10/05/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2147193	1	10/09/23 10:55	10/09/23 10:55	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2149782	1	10/13/23 10:11	10/14/23 11:47	ICD	Mt. Juliet, TN

MW-118 L1663141-29 GW

Collected by	Collected date/time	Received date/time
Scott Ude / HMI Team	10/04/23 13:25	10/05/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2147745	1	10/09/23 10:38	10/10/23 00:37	KAM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145796	10	10/06/23 04:37	10/06/23 04:37	ASM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145796	100	10/06/23 05:15	10/06/23 05:15	ASM	Mt. Juliet, TN
Mercury by Method 7470A	WG2146007	1	10/07/23 19:59	10/10/23 14:04	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2146855	1	10/11/23 10:26	10/11/23 22:52	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2146871	1	10/10/23 10:38	10/18/23 20:11	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2148109	1	10/10/23 05:29	10/10/23 05:29	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2147194	1	10/08/23 04:07	10/08/23 04:07	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2149782	1	10/13/23 10:11	10/14/23 12:07	ICD	Mt. Juliet, TN

MW-119 L1663141-30 GW

Collected by	Collected date/time	Received date/time
Scott Ude / HMI Team	10/04/23 13:40	10/05/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2147656	1	10/09/23 08:54	10/09/23 12:57	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145796	10	10/06/23 05:27	10/06/23 05:27	ASM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145796	100	10/06/23 05:40	10/06/23 05:40	ASM	Mt. Juliet, TN
Mercury by Method 7470A	WG2146007	1	10/07/23 19:59	10/10/23 14:07	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2146855	1	10/11/23 10:26	10/11/23 23:01	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2146871	1	10/10/23 10:38	10/18/23 20:14	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2148109	1	10/10/23 05:51	10/10/23 05:51	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2147194	1	10/08/23 04:29	10/08/23 04:29	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2149782	1	10/13/23 10:11	10/14/23 12:27	ICD	Mt. Juliet, TN

KWB-2R L1663141-31 GW

Collected by	Collected date/time	Received date/time
Scott Ude / HMI Team	10/04/23 12:00	10/05/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2147682	1	10/09/23 09:14	10/09/23 15:31	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145803	10	10/06/23 05:05	10/06/23 05:05	ASM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2146871	1	10/10/23 10:38	10/18/23 19:54	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2147194	5	10/08/23 07:01	10/08/23 07:01	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2149782	1	10/13/23 10:11	10/14/23 12:47	ICD	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod	WG2145905	1	10/06/23 06:02	10/06/23 16:36	AED	Mt. Juliet, TN

MW-149 L1663141-32 GW

Collected by	Collected date/time	Received date/time
Scott Ude / HMI Team	10/04/23 08:45	10/05/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2147682	1	10/09/23 09:14	10/09/23 15:31	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145919	10	10/05/23 23:37	10/05/23 23:37	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145919	100	10/06/23 06:15	10/06/23 06:15	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2146871	1	10/10/23 10:38	10/18/23 20:17	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2147194	1	10/08/23 04:51	10/08/23 04:51	JCP	Mt. Juliet, TN

MW-149 L1663141-32 GW

Collected by: Scott Ude / HMI Team
Collected date/time: 10/04/23 08:45
Received date/time: 10/05/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2149782	1	10/13/23 10:11	10/14/23 13:08	ICD	Mt. Juliet, TN

MW-150 L1663141-33 GW

Collected by: Scott Ude / HMI Team
Collected date/time: 10/04/23 09:35
Received date/time: 10/05/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2147656	1	10/09/23 08:54	10/09/23 12:57	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145919	10	10/05/23 23:53	10/05/23 23:53	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145919	100	10/06/23 06:31	10/06/23 06:31	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2146871	1	10/10/23 10:38	10/18/23 20:27	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2147194	1	10/08/23 05:12	10/08/23 05:12	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2149782	1	10/13/23 10:11	10/14/23 13:28	ICD	Mt. Juliet, TN

MW-142 L1663141-34 GW

Collected by: Scott Ude / HMI Team
Collected date/time: 10/04/23 10:30
Received date/time: 10/05/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2147682	1	10/09/23 09:14	10/09/23 15:31	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145803	10	10/06/23 05:22	10/06/23 05:22	ASM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145803	100	10/06/23 12:41	10/06/23 12:41	ASM	Mt. Juliet, TN
Mercury by Method 7470A	WG2146007	1	10/07/23 19:59	10/10/23 14:09	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2146855	1	10/11/23 10:26	10/11/23 23:05	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2146871	1	10/10/23 10:38	10/18/23 20:30	JPD	Mt. Juliet, TN

MW-143 L1663141-35 GW

Collected by: Scott Ude / HMI Team
Collected date/time: 10/04/23 11:10
Received date/time: 10/05/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2147682	1	10/09/23 09:14	10/09/23 15:31	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145803	10	10/06/23 05:38	10/06/23 05:38	ASM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145803	100	10/06/23 12:58	10/06/23 12:58	ASM	Mt. Juliet, TN
Mercury by Method 7470A	WG2146007	1	10/07/23 19:59	10/10/23 14:11	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2146855	1	10/11/23 10:26	10/11/23 23:08	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2146871	1	10/10/23 10:38	10/18/23 20:34	JPD	Mt. Juliet, TN

MW-104 L1663141-36 GW

Collected by: Scott Ude / HMI Team
Collected date/time: 10/04/23 12:25
Received date/time: 10/05/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2147682	1	10/09/23 09:14	10/09/23 15:31	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145796	1	10/06/23 05:52	10/06/23 05:52	ASM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2146871	1	10/10/23 10:38	10/18/23 20:37	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2148109	1	10/10/23 06:14	10/10/23 06:14	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2147194	1	10/08/23 05:34	10/08/23 05:34	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2149782	1	10/13/23 10:11	10/14/23 13:48	ICD	Mt. Juliet, TN

MW-64 L1663141-37 GW

Collected by: Scott Ude / HMI Team
Collected date/time: 10/04/23 11:15
Received date/time: 10/05/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2147682	1	10/09/23 09:14	10/09/23 15:31	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145803	1	10/06/23 05:55	10/06/23 05:55	ASM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145803	10	10/06/23 13:15	10/06/23 13:15	ASM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2146871	1	10/10/23 10:38	10/18/23 20:40	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2146871	10	10/10/23 10:38	10/19/23 10:32	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2148109	25	10/10/23 08:08	10/10/23 08:08	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2147194	100	10/08/23 07:23	10/08/23 07:23	JCP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2148759	1000	10/11/23 01:15	10/11/23 01:15	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2149782	1	10/13/23 10:11	10/14/23 14:08	ICD	Mt. Juliet, TN

MW-65 L1663141-38 GW

Collected by: Scott Ude / HMI Team
Collected date/time: 10/04/23 12:50
Received date/time: 10/05/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2147682	1	10/09/23 09:14	10/09/23 15:31	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145796	1	10/06/23 06:18	10/06/23 06:18	ASM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2151765	5	10/16/23 06:30	10/16/23 06:30	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2146871	1	10/10/23 10:38	10/18/23 20:43	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2146871	10	10/10/23 10:38	10/19/23 10:35	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2148109	1	10/10/23 06:37	10/10/23 06:37	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2147194	25	10/08/23 07:45	10/08/23 07:45	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2149782	1	10/13/23 10:11	10/14/23 14:28	ICD	Mt. Juliet, TN

MW-102 L1663141-39 GW

Collected by: Scott Ude / HMI Team
Collected date/time: 10/04/23 09:55
Received date/time: 10/05/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2147745	1	10/09/23 10:38	10/10/23 00:37	KAM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145919	10	10/06/23 00:09	10/06/23 00:09	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2146871	1	10/10/23 10:38	10/18/23 20:46	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2146871	5	10/10/23 10:38	10/19/23 10:39	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2152351	50	10/17/23 16:09	10/17/23 16:09	NCD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2147194	1	10/08/23 05:56	10/08/23 05:56	JCP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2148759	20	10/11/23 01:35	10/11/23 01:35	JCP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2149477	500	10/11/23 19:04	10/11/23 19:04	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2149783	1	10/12/23 16:13	10/13/23 21:57	MAA	Mt. Juliet, TN

MW-46R L1663141-41 GW

Collected by: Scott Ude / HMI Team
Collected date/time: 10/04/23 09:00
Received date/time: 10/05/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2146109	1	10/09/23 10:29	10/09/23 19:53	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145919	10	10/06/23 01:12	10/06/23 01:12	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2146871	1	10/10/23 10:38	10/18/23 20:50	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2147194	1	10/08/23 06:40	10/08/23 06:40	JCP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2148759	1	10/11/23 00:54	10/11/23 00:54	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2149783	1	10/12/23 16:13	10/13/23 22:48	MAA	Mt. Juliet, TN

DUP-REST-02 L1663141-42 GW

Collected by: Scott Ude / HMI Team
Collected date/time: 10/04/23 10:00
Received date/time: 10/05/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2146109	1	10/09/23 10:29	10/09/23 19:53	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145803	10	10/06/23 06:12	10/06/23 06:12	ASM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2146871	1	10/10/23 10:38	10/18/23 20:53	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2146871	5	10/10/23 10:38	10/19/23 10:42	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2148221	50	10/10/23 17:05	10/10/23 17:05	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2147194	250	10/08/23 08:06	10/08/23 08:06	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2149783	1	10/12/23 16:13	10/13/23 23:13	MAA	Mt. Juliet, TN

EB-REST-02 L1663141-43 GW

Collected by: Scott Ude / HMI Team
Collected date/time: 10/04/23 10:10
Received date/time: 10/05/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2147703	1	10/09/23 09:32	10/09/23 12:14	KAM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145803	1	10/06/23 06:29	10/06/23 06:29	ASM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2146871	1	10/10/23 10:38	10/18/23 20:56	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2148221	1	10/10/23 12:56	10/10/23 12:56	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2147194	1	10/08/23 03:45	10/08/23 03:45	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2149783	1	10/12/23 16:13	10/13/23 23:39	MAA	Mt. Juliet, TN

TRIP BLANK-REST-03 L1663141-44 GW

Collected by: Scott Ude / HMI Team
Collected date/time: 10/04/23 00:00
Received date/time: 10/05/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2147194	1	10/08/23 03:23	10/08/23 03:23	JCP	Mt. Juliet, TN

TEL-4 L1663141-46 GW

Collected by: Scott Ude / HMI Team
Collected date/time: 10/04/23 12:25
Received date/time: 10/06/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2148182	1	10/10/23 09:28	10/10/23 13:19	KAM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2148968	1	10/11/23 20:49	10/11/23 20:49	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2148968	10	10/11/23 21:02	10/11/23 21:02	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2146874	1	10/11/23 11:17	10/19/23 14:32	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2149400	1	10/11/23 18:44	10/11/23 18:44	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2147457	1	10/09/23 15:25	10/09/23 15:25	DYW	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2150506	1	10/14/23 08:14	10/15/23 00:05	MAA	Mt. Juliet, TN

MW-29 L1663141-47 GW

Collected by: Scott Ude / HMI Team
Collected date/time: 10/04/23 10:15
Received date/time: 10/06/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2148182	1	10/10/23 09:28	10/10/23 13:19	KAM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2149864	10	10/13/23 15:17	10/13/23 15:17	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2147169	1	10/10/23 11:39	10/10/23 16:12	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2146858	1	10/12/23 04:22	10/14/23 00:36	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2146874	1	10/11/23 11:17	10/19/23 14:36	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2149400	1	10/11/23 19:06	10/11/23 19:06	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2147457	1	10/09/23 15:47	10/09/23 15:47	DYW	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2150506	1	10/14/23 08:14	10/15/23 00:26	MAA	Mt. Juliet, TN

MW-49 L1663141-48 GW

Collected by: Scott Ude / HMI Team
Collected date/time: 10/04/23 08:25
Received date/time: 10/06/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2148179	1	10/10/23 09:19	10/10/23 12:55	KAM	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG2146824	40	10/08/23 19:15	10/09/23 11:29	UNP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2149864	1	10/13/23 15:42	10/13/23 15:42	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2149864	10	10/13/23 15:55	10/13/23 15:55	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2147169	1	10/10/23 11:39	10/10/23 16:14	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2146858	1	10/12/23 04:22	10/14/23 00:39	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2146874	1	10/11/23 11:17	10/19/23 14:39	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2149400	5	10/11/23 23:38	10/11/23 23:38	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2147457	10	10/09/23 19:26	10/09/23 19:26	DYW	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2150506	1	10/14/23 08:14	10/15/23 00:47	MAA	Mt. Juliet, TN

MW-106 L1663141-49 GW

Collected by: Scott Ude / HMI Team
Collected date/time: 10/04/23 09:20
Received date/time: 10/06/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2148182	1	10/10/23 09:28	10/10/23 13:19	KAM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2149864	1	10/13/23 17:24	10/13/23 17:24	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2149864	5	10/13/23 17:37	10/13/23 17:37	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2146874	1	10/11/23 11:17	10/19/23 14:42	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2149400	1	10/11/23 19:29	10/11/23 19:29	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2147457	10	10/09/23 19:47	10/09/23 19:47	DYW	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2150506	1	10/14/23 08:14	10/15/23 01:07	MAA	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270 C-mod	WG2147633	1	10/11/23 07:48	10/19/23 17:05	AMG	Mt. Juliet, TN

MW-45 L1663141-50 GW

Collected by: Scott Ude / HMI Team
Collected date/time: 10/04/23 13:35
Received date/time: 10/05/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2146109	1	10/09/23 10:29	10/09/23 19:53	JAC	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG2145820	1	10/09/23 10:33	10/09/23 18:19	UNP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145796	10	10/06/23 06:30	10/06/23 06:30	ASM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145796	100	10/06/23 06:43	10/06/23 06:43	ASM	Mt. Juliet, TN
Mercury by Method 7470A	WG2146007	1	10/07/23 19:59	10/10/23 14:14	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2146855	1	10/11/23 10:26	10/11/23 23:11	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2146871	1	10/10/23 10:38	10/18/23 21:06	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2147386	1	10/08/23 14:21	10/08/23 14:21	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2149783	1	10/12/23 16:13	10/14/23 00:05	MAA	Mt. Juliet, TN

DUP-TEL-01 L1663141-51 GW

Collected by: Scott Ude / HMI Team
Collected date/time: 10/04/23 11:00
Received date/time: 10/06/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2148182	1	10/10/23 09:28	10/10/23 13:19	KAM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2149864	1	10/13/23 17:50	10/13/23 17:50	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2149864	10	10/13/23 18:02	10/13/23 18:02	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2146874	1	10/11/23 11:17	10/19/23 14:45	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2149400	1	10/11/23 19:52	10/11/23 19:52	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2147457	1	10/09/23 16:09	10/09/23 16:09	DYW	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2150506	1	10/14/23 08:14	10/15/23 01:28	MAA	Mt. Juliet, TN

EB-TEL-01 L1663141-52 GW

Collected by: Scott Ude / HMI Team | Collected date/time: 10/04/23 12:40 | Received date/time: 10/05/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2147745	1	10/09/23 10:38	10/10/23 00:37	KAM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145796	1	10/06/23 06:55	10/06/23 06:55	ASM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2146871	1	10/10/23 10:38	10/18/23 21:09	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2148221	1	10/10/23 13:18	10/10/23 13:18	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2147386	1	10/08/23 13:15	10/08/23 13:15	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2149783	1	10/12/23 16:13	10/14/23 00:30	MAA	Mt. Juliet, TN

TRIP BLANK-TEL-01 L1663141-53 GW

Collected by: Scott Ude / HMI Team | Collected date/time: 10/04/23 00:00 | Received date/time: 10/06/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2147457	1	10/09/23 13:58	10/09/23 13:58	DYW	Mt. Juliet, TN

MW-139 L1663141-54 GW

Collected by: Scott Ude / HMI Team | Collected date/time: 10/04/23 10:35 | Received date/time: 10/05/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2147745	1	10/09/23 10:38	10/10/23 00:37	KAM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145803	10	10/06/23 06:46	10/06/23 06:46	ASM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2146871	1	10/10/23 10:38	10/18/23 21:13	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2148221	1	10/10/23 14:48	10/10/23 14:48	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2147386	1	10/08/23 14:43	10/08/23 14:43	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2149783	1	10/12/23 16:13	10/14/23 00:56	MAA	Mt. Juliet, TN

NCL-32 L1663141-55 GW

Collected by: Scott Ude / HMI Team | Collected date/time: 10/04/23 13:20 | Received date/time: 10/05/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2147745	1	10/09/23 10:38	10/10/23 00:37	KAM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145796	10	10/06/23 07:08	10/06/23 07:08	ASM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2146871	1	10/10/23 10:38	10/18/23 21:16	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2147386	1	10/08/23 15:05	10/08/23 15:05	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2149783	20	10/12/23 16:13	10/17/23 09:08	DMG	Mt. Juliet, TN

MW-108 L1663141-56 GW

Collected by: Scott Ude / HMI Team | Collected date/time: 10/04/23 09:55 | Received date/time: 10/05/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2147682	1	10/09/23 09:14	10/09/23 15:31	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145919	10	10/06/23 01:28	10/06/23 01:28	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2146874	1	10/11/23 11:17	10/19/23 14:48	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2147386	1	10/08/23 15:27	10/08/23 15:27	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2149783	1	10/12/23 16:13	10/14/23 01:22	MAA	Mt. Juliet, TN

NCL-31 L1663141-57 GW

Collected by: Scott Ude / HMI Team
Collected date/time: 10/04/23 10:40
Received date/time: 10/05/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2147656	1	10/09/23 08:54	10/09/23 12:57	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145803	1	10/06/23 07:37	10/06/23 07:37	ASM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145803	10	10/06/23 14:40	10/06/23 14:40	ASM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2146874	1	10/11/23 11:17	10/19/23 13:51	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2147386	1	10/08/23 15:49	10/08/23 15:49	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2149783	1	10/12/23 16:13	10/14/23 01:47	MAA	Mt. Juliet, TN

MW-55 L1663141-58 GW

Collected by: Scott Ude / HMI Team
Collected date/time: 10/04/23 11:10
Received date/time: 10/05/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2147656	1	10/09/23 08:54	10/09/23 12:57	JAC	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG2145820	1	10/09/23 10:33	10/09/23 18:20	UNP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145803	1	10/06/23 07:54	10/06/23 07:54	ASM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145803	10	10/06/23 14:57	10/06/23 14:57	ASM	Mt. Juliet, TN
Mercury by Method 7470A	WG2146007	1	10/07/23 19:59	10/10/23 14:16	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2146855	1	10/11/23 10:26	10/11/23 23:14	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2146874	1	10/11/23 11:17	10/19/23 14:52	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2148221	1	10/10/23 15:11	10/10/23 15:11	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2147386	10	10/08/23 18:22	10/08/23 18:22	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2149783	1	10/12/23 16:13	10/14/23 02:13	MAA	Mt. Juliet, TN

MW-54A L1663141-59 GW

Collected by: Scott Ude / HMI Team
Collected date/time: 10/04/23 13:50
Received date/time: 10/05/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2147682	1	10/09/23 09:14	10/09/23 15:31	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145796	10	10/06/23 07:58	10/06/23 07:58	ASM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2146874	1	10/11/23 11:17	10/19/23 15:02	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2147386	1	10/08/23 16:10	10/08/23 16:10	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2149783	1	10/12/23 16:13	10/14/23 08:15	DMG	Mt. Juliet, TN

NCL-49 L1663141-60 GW

Collected by: Scott Ude / HMI Team
Collected date/time: 10/04/23 12:50
Received date/time: 10/05/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2147656	1	10/09/23 08:54	10/09/23 12:57	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145796	10	10/06/23 08:24	10/06/23 08:24	ASM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145796	100	10/06/23 08:40	10/06/23 08:40	ASM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2146874	1	10/11/23 11:17	10/19/23 15:06	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2147386	1	10/08/23 16:32	10/08/23 16:32	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2149783	1	10/12/23 16:13	10/14/23 06:08	DMG	Mt. Juliet, TN

DUP-NCL-01 L1663141-61 GW

Collected by: Scott Ude / HMI Team
Collected date/time: 10/04/23 12:00
Received date/time: 10/05/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2146109	1	10/09/23 10:29	10/09/23 19:53	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145796	10	10/06/23 08:53	10/06/23 08:53	ASM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145796	100	10/06/23 09:07	10/06/23 09:07	ASM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2146874	1	10/11/23 11:17	10/19/23 15:09	JPD	Mt. Juliet, TN

DUP-NCL-01 L1663141-61 GW

Collected by: Scott Ude / HMI Team
Collected date/time: 10/04/23 12:00
Received date/time: 10/05/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2147386	1	10/08/23 16:54	10/08/23 16:54	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2149783	1	10/12/23 16:13	10/14/23 06:33	DMG	Mt. Juliet, TN

EB-NCL-01 L1663141-62 GW

Collected by: Scott Ude / HMI Team
Collected date/time: 10/04/23 13:10
Received date/time: 10/05/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2147656	1	10/09/23 08:54	10/09/23 12:57	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2145796	1	10/06/23 09:21	10/06/23 09:21	ASM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2146874	1	10/11/23 11:17	10/19/23 15:12	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2147386	1	10/08/23 13:37	10/08/23 13:37	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG2149783	1	10/12/23 16:13	10/14/23 06:59	DMG	Mt. Juliet, TN

TRIP BLANK-NCL-01 L1663141-63 GW

Collected by: Scott Ude / HMI Team
Collected date/time: 10/04/23 00:00
Received date/time: 10/05/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2147386	1	10/08/23 13:59	10/08/23 13:59	JCP	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
L1663141-08	DUP-EP-01	3511/8015
L1663141-09	DUP-EP-02	3511/8015
L1663141-39	MW-102	3511/8015
L1663141-46	TEL-4	3511/8015
L1663141-47	MW-29	3511/8015
L1663141-48	MW-49	3511/8015

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1890		50.0	1	10/09/2023 15:31	WG2147682

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	150		0.379	1.00	1	10/06/2023 02:49	WG2145803
Fluoride	0.732		0.0640	0.150	1	10/06/2023 02:49	WG2145803
Nitrate	0.711		0.0480	0.100	1	10/06/2023 02:49	WG2145803
Nitrite	0.0697	J	0.0420	0.100	1	10/06/2023 02:49	WG2145803
Sulfate	679		5.94	50.0	10	10/06/2023 11:00	WG2145803

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00360		0.000180	0.00200	1	10/19/2023 15:59	WG2146870
Barium	0.0172		0.000381	0.00200	1	10/19/2023 15:59	WG2146870
Calcium	229		0.0936	1.00	1	10/19/2023 15:59	WG2146870
Chromium	0.00130	J	0.00124	0.00200	1	10/19/2023 15:59	WG2146870
Iron	0.245	B	0.0281	0.100	1	10/19/2023 15:59	WG2146870
Lead	0.00151	J	0.000849	0.00200	1	10/19/2023 15:59	WG2146870
Manganese	0.0944		0.000704	0.00500	1	10/19/2023 15:59	WG2146870
Potassium	0.674	J	0.108	2.00	1	10/19/2023 15:59	WG2146870
Selenium	0.00181	J	0.000300	0.00200	1	10/19/2023 15:59	WG2146870
Sodium	269		0.376	2.00	1	10/19/2023 15:59	WG2146870

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	10/10/2023 00:56	WG2147534
(S) a,a,a-Trifluorotoluene(FID)	*104*			*78.0-120*		*10/10/2023 00:56*	WG2147534

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	10/08/2023 21:23	WG2147150
Benzene	U		0.0000941	0.00100	1	10/08/2023 21:23	WG2147150
Bromodichloromethane	U		0.000136	0.00100	1	10/08/2023 21:23	WG2147150
Bromoform	U		0.000129	0.00100	1	10/08/2023 21:23	WG2147150
Bromomethane	U		0.000605	0.00500	1	10/08/2023 21:23	WG2147150
n-Butylbenzene	U		0.000157	0.00100	1	10/08/2023 21:23	WG2147150
sec-Butylbenzene	U		0.000125	0.00100	1	10/08/2023 21:23	WG2147150
Carbon disulfide	U		0.0000962	0.00100	1	10/08/2023 21:23	WG2147150
Carbon tetrachloride	U		0.000128	0.00100	1	10/08/2023 21:23	WG2147150
Chlorobenzene	U		0.000116	0.00100	1	10/08/2023 21:23	WG2147150
Chlorodibromomethane	U		0.000140	0.00100	1	10/08/2023 21:23	WG2147150
Chloroethane	U		0.000192	0.00500	1	10/08/2023 21:23	WG2147150
Chloroform	U		0.000111	0.00500	1	10/08/2023 21:23	WG2147150
Chloromethane	U		0.000960	0.00250	1	10/08/2023 21:23	WG2147150
1,2-Dibromoethane	U		0.000126	0.00100	1	10/08/2023 21:23	WG2147150
1,1-Dichloroethane	U		0.000100	0.00100	1	10/08/2023 21:23	WG2147150
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/08/2023 21:23	WG2147150
1,1-Dichloroethene	U		0.000188	0.00100	1	10/08/2023 21:23	WG2147150
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/08/2023 21:23	WG2147150

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/08/2023 21:23	WG2147150
1,2-Dichloropropane	U		0.000149	0.00100	1	10/08/2023 21:23	WG2147150
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	10/08/2023 21:23	WG2147150
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/08/2023 21:23	WG2147150
Ethylbenzene	U		0.000137	0.00100	1	10/08/2023 21:23	WG2147150
Isopropylbenzene	U		0.000105	0.00100	1	10/08/2023 21:23	WG2147150
p-Isopropyltoluene	U		0.000120	0.00100	1	10/08/2023 21:23	WG2147150
2-Butanone (MEK)	U		0.00119	0.0100	1	10/08/2023 21:23	WG2147150
2-Hexanone	U		0.000787	0.0100	1	10/08/2023 21:23	WG2147150
Methylene Chloride	U		0.000430	0.00500	1	10/08/2023 21:23	WG2147150
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/08/2023 21:23	WG2147150
Methyl tert-butyl ether	0.00236		0.000101	0.00100	1	10/08/2023 21:23	WG2147150
Naphthalene	0.00133	J	0.00100	0.00500	1	10/08/2023 21:23	WG2147150
n-Propylbenzene	U		0.0000993	0.00100	1	10/08/2023 21:23	WG2147150
Styrene	U		0.000118	0.00100	1	10/08/2023 21:23	WG2147150
tert-Butyl alcohol	U		0.00406	0.00500	1	10/08/2023 21:23	WG2147150
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	10/08/2023 21:23	WG2147150
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/08/2023 21:23	WG2147150
Tetrachloroethene	U		0.000300	0.00100	1	10/08/2023 21:23	WG2147150
Toluene	U		0.000278	0.00100	1	10/08/2023 21:23	WG2147150
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/08/2023 21:23	WG2147150
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/08/2023 21:23	WG2147150
Trichloroethene	U		0.000190	0.00100	1	10/08/2023 21:23	WG2147150
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/08/2023 21:23	WG2147150
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/08/2023 21:23	WG2147150
Vinyl chloride	U		0.000234	0.00100	1	10/08/2023 21:23	WG2147150
o-Xylene	U		0.000174	0.00100	1	10/08/2023 21:23	WG2147150
m&p-Xylene	U		0.000430	0.00200	1	10/08/2023 21:23	WG2147150
Xylenes, Total	U		0.000174	0.00300	1	10/08/2023 21:23	WG2147150
(S) Toluene-d8	*111*			*80.0-120*		*10/08/2023 21:23*	WG2147150
(S) 4-Bromofluorobenzene	*113*			*77.0-126*		*10/08/2023 21:23*	WG2147150
(S) 1,2-Dichloroethane-d4	*92.9*			*70.0-130*		*10/08/2023 21:23*	WG2147150

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	0.713		0.0247	0.100	1	10/13/2023 02:53	WG2148883
(S) o-Terphenyl	*85.0*			*31.0-160*		*10/13/2023 02:53*	WG2148883

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00839	J	0.000900	0.0100	5	10/19/2023 15:46	WG2146870
Barium	0.0120		0.00190	0.0100	5	10/19/2023 15:46	WG2146870
Calcium	389		0.468	5.00	5	10/19/2023 15:46	WG2146870
Chromium	U		0.00620	0.0100	5	10/19/2023 15:46	WG2146870
Iron	U		0.140	0.500	5	10/19/2023 15:46	WG2146870
Lead	U		0.00424	0.0100	5	10/19/2023 15:46	WG2146870
Manganese	0.935		0.00352	0.0250	5	10/19/2023 15:46	WG2146870
Potassium	2.87	J	0.540	10.0	5	10/19/2023 15:46	WG2146870
Selenium	U		0.00150	0.0100	5	10/19/2023 15:46	WG2146870
Sodium	1480		1.88	10.0	5	10/19/2023 15:46	WG2146870

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	0.109		0.0314	0.100	1	10/10/2023 01:18	WG2147534
(S) a,a,a-Trifluorotoluene(FID)	*106*			*78.0-120*		*10/10/2023 01:18*	WG2147534

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	0.292	Q	0.0247	0.100	1	10/30/2023 03:05	WG2160092
(S) o-Terphenyl	*69.5*			*31.0-160*		*10/30/2023 03:05*	WG2160092

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4020		100	1	10/10/2023 13:19	WG2148182

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1800	T8	3.79	10.0	10	10/11/2023 09:26	WG2148428
Fluoride	0.863	J T8	0.640	1.50	10	10/11/2023 09:26	WG2148428
Nitrate	U	T8	0.480	1.00	10	10/11/2023 09:26	WG2148428
Nitrite	U	T8	0.420	1.00	10	10/11/2023 09:26	WG2148428
Sulfate	1920	T8	5.94	50.0	10	10/11/2023 09:26	WG2148428

Sample Narrative:

L1663141-03 WG2148428: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0240		0.000180	0.00200	1	10/19/2023 14:04	WG2146874
Barium	0.0160		0.000381	0.00200	1	10/19/2023 14:04	WG2146874
Calcium	397		0.0936	1.00	1	10/19/2023 14:04	WG2146874
Chromium	U		0.00124	0.00200	1	10/19/2023 14:04	WG2146874
Iron	0.283		0.0281	0.100	1	10/19/2023 14:04	WG2146874
Lead	U		0.000849	0.00200	1	10/19/2023 14:04	WG2146874
Manganese	5.87		0.000704	0.00500	1	10/19/2023 14:04	WG2146874
Potassium	3.19		0.108	2.00	1	10/19/2023 14:04	WG2146874
Selenium	0.00153	J	0.000300	0.00200	1	10/19/2023 14:04	WG2146874
Sodium	1440		1.88	10.0	5	10/19/2023 15:15	WG2146874

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	2.11		0.0314	0.100	1	10/11/2023 16:28	WG2149400
(S) a,a,a-Trifluorotoluene(FID)	*109*			*78.0-120*		*10/11/2023 16:28*	WG2149400

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	4.34		0.0247	0.100	1	10/13/2023 07:18	WG2149785
(S) o-Terphenyl	*100*			*31.0-160*		*10/13/2023 07:18*	WG2149785

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4450	Q	100	1	10/13/2023 00:00	WG2150228

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1340	T8	3.79	10.0	10	10/11/2023 09:52	WG2148428
Fluoride	0.860	J T8	0.640	1.50	10	10/11/2023 09:52	WG2148428
Nitrate	U	T8	0.480	1.00	10	10/11/2023 09:52	WG2148428
Nitrite	U	T8	0.420	1.00	10	10/11/2023 09:52	WG2148428
Sulfate	1670	T8	5.94	50.0	10	10/11/2023 09:52	WG2148428

Sample Narrative:

L1663141-04 WG2148428: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0124		0.000180	0.00200	1	10/19/2023 14:07	WG2146874
Barium	0.0125		0.000381	0.00200	1	10/19/2023 14:07	WG2146874
Calcium	411		0.0936	1.00	1	10/19/2023 14:07	WG2146874
Chromium	U		0.00124	0.00200	1	10/19/2023 14:07	WG2146874
Iron	0.204		0.0281	0.100	1	10/19/2023 14:07	WG2146874
Lead	U		0.000849	0.00200	1	10/19/2023 14:07	WG2146874
Manganese	2.51		0.000704	0.00500	1	10/19/2023 14:07	WG2146874
Potassium	3.23		0.108	2.00	1	10/19/2023 14:07	WG2146874
Selenium	U		0.000300	0.00200	1	10/19/2023 14:07	WG2146874
Sodium	945		0.376	2.00	1	10/19/2023 14:07	WG2146874

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	0.342		0.0314	0.100	1	10/11/2023 16:51	WG2149400
(S) a,a,a-Trifluorotoluene(FID)	*109*			*78.0-120*		*10/11/2023 16:51*	WG2149400

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	1.88		0.0247	0.100	1	10/13/2023 07:58	WG2149785
(S) o-Terphenyl	*77.0*			*31.0-160*		*10/13/2023 07:58*	WG2149785

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	5340	Q	100	1	10/13/2023 00:00	WG2150228

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1170		3.79	10.0	10	10/11/2023 18:39	WG2148968
Fluoride	1.08	J	0.640	1.50	10	10/11/2023 18:39	WG2148968
Nitrate	U	Q	0.480	1.00	10	10/11/2023 18:39	WG2148968
Nitrite	U	Q	0.420	1.00	10	10/11/2023 18:39	WG2148968
Sulfate	1640		5.94	50.0	10	10/11/2023 18:39	WG2148968

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	10/19/2023 14:10	WG2146874
Barium	0.0290		0.000381	0.00200	1	10/19/2023 14:10	WG2146874
Calcium	519		0.0936	1.00	1	10/19/2023 14:10	WG2146874
Chromium	U		0.00124	0.00200	1	10/19/2023 14:10	WG2146874
Iron	0.0377	J	0.0281	0.100	1	10/19/2023 14:10	WG2146874
Lead	U		0.000849	0.00200	1	10/19/2023 14:10	WG2146874
Manganese	3.45		0.000704	0.00500	1	10/19/2023 14:10	WG2146874
Potassium	3.54		0.108	2.00	1	10/19/2023 14:10	WG2146874
Selenium	U		0.000300	0.00200	1	10/19/2023 14:10	WG2146874
Sodium	1040		1.88	10.0	5	10/19/2023 15:19	WG2146874

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	0.536		0.0314	0.100	1	10/11/2023 17:13	WG2149400
(S) a,a,a-Trifluorotoluene(FID)	*109*			*78.0-120*		*10/11/2023 17:13*	WG2149400

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	1.60		0.0247	0.100	1	10/13/2023 07:38	WG2149785
(S) o-Terphenyl	*72.5*			*31.0-160*		*10/13/2023 07:38*	WG2149785

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	5100		100	1	10/10/2023 13:19	WG2148182

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1750		3.79	10.0	10	10/11/2023 19:06	WG2148968
Fluoride	1.49	J	0.640	1.50	10	10/11/2023 19:06	WG2148968
Nitrate	U	Q	0.480	1.00	10	10/11/2023 19:06	WG2148968
Nitrite	U	Q	0.420	1.00	10	10/11/2023 19:06	WG2148968
Sulfate	2240		59.4	500	100	10/11/2023 19:19	WG2148968

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0162		0.000180	0.00200	1	10/19/2023 14:14	WG2146874
Barium	0.0164		0.000381	0.00200	1	10/19/2023 14:14	WG2146874
Calcium	371		0.0936	1.00	1	10/19/2023 14:14	WG2146874
Chromium	U		0.00124	0.00200	1	10/19/2023 14:14	WG2146874
Iron	2.30		0.0281	0.100	1	10/19/2023 14:14	WG2146874
Lead	U		0.000849	0.00200	1	10/19/2023 14:14	WG2146874
Manganese	0.451		0.000704	0.00500	1	10/19/2023 14:14	WG2146874
Potassium	3.84		0.108	2.00	1	10/19/2023 14:14	WG2146874
Selenium	U		0.000300	0.00200	1	10/19/2023 14:14	WG2146874
Sodium	1310		1.88	10.0	5	10/19/2023 15:22	WG2146874

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	0.279		0.0314	0.100	1	10/11/2023 17:36	WG2149400
(S) a,a,a-Trifluorotoluene(FID)	*110*			*78.0-120*		*10/11/2023 17:36*	WG2149400

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	10/09/2023 14:42	WG2147457
Benzene	U		0.0000941	0.00100	1	10/09/2023 14:42	WG2147457
Bromodichloromethane	U		0.000136	0.00100	1	10/09/2023 14:42	WG2147457
Bromoform	U		0.000129	0.00100	1	10/09/2023 14:42	WG2147457
Bromomethane	U		0.000605	0.00500	1	10/09/2023 14:42	WG2147457
n-Butylbenzene	U		0.000157	0.00100	1	10/09/2023 14:42	WG2147457
sec-Butylbenzene	U		0.000125	0.00100	1	10/09/2023 14:42	WG2147457
Carbon disulfide	U		0.0000962	0.00100	1	10/09/2023 14:42	WG2147457
Carbon tetrachloride	U		0.000128	0.00100	1	10/09/2023 14:42	WG2147457
Chlorobenzene	U		0.000116	0.00100	1	10/09/2023 14:42	WG2147457
Chlorodibromomethane	U		0.000140	0.00100	1	10/09/2023 14:42	WG2147457
Chloroethane	U		0.000192	0.00500	1	10/09/2023 14:42	WG2147457
Chloroform	U		0.000111	0.00500	1	10/09/2023 14:42	WG2147457
Chloromethane	U		0.000960	0.00250	1	10/09/2023 14:42	WG2147457
1,2-Dibromoethane	U		0.000126	0.00100	1	10/09/2023 14:42	WG2147457
1,1-Dichloroethane	U		0.000100	0.00100	1	10/09/2023 14:42	WG2147457
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/09/2023 14:42	WG2147457
1,1-Dichloroethene	U		0.000188	0.00100	1	10/09/2023 14:42	WG2147457
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/09/2023 14:42	WG2147457

MW-7A
Collected date/time: 10/04/23 11:40
L1663141

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/09/2023 14:42	WG2147457
1,2-Dichloropropane	U		0.000149	0.00100	1	10/09/2023 14:42	WG2147457
cis-1,3-Dichloropropene	U	J4	0.000111	0.00100	1	10/09/2023 14:42	WG2147457
trans-1,3-Dichloropropene	0.000908	J	0.000118	0.00100	1	10/09/2023 14:42	WG2147457
Ethylbenzene	U		0.000137	0.00100	1	10/09/2023 14:42	WG2147457
Isopropylbenzene	U		0.000105	0.00100	1	10/09/2023 14:42	WG2147457
p-Isopropyltoluene	U		0.000120	0.00100	1	10/09/2023 14:42	WG2147457
2-Butanone (MEK)	U		0.00119	0.0100	1	10/09/2023 14:42	WG2147457
2-Hexanone	U		0.000787	0.0100	1	10/09/2023 14:42	WG2147457
Methylene Chloride	U		0.000430	0.00500	1	10/09/2023 14:42	WG2147457
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/09/2023 14:42	WG2147457
Methyl tert-butyl ether	0.000854	J	0.000101	0.00100	1	10/09/2023 14:42	WG2147457
Naphthalene	U		0.00100	0.00500	1	10/09/2023 14:42	WG2147457
n-Propylbenzene	U		0.0000993	0.00100	1	10/09/2023 14:42	WG2147457
Styrene	U		0.000118	0.00100	1	10/09/2023 14:42	WG2147457
tert-Butyl alcohol	U		0.00406	0.00500	1	10/09/2023 14:42	WG2147457
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	10/09/2023 14:42	WG2147457
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/09/2023 14:42	WG2147457
Tetrachloroethene	U		0.000300	0.00100	1	10/09/2023 14:42	WG2147457
Toluene	U		0.000278	0.00100	1	10/09/2023 14:42	WG2147457
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/09/2023 14:42	WG2147457
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/09/2023 14:42	WG2147457
Trichloroethene	U		0.000190	0.00100	1	10/09/2023 14:42	WG2147457
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/09/2023 14:42	WG2147457
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/09/2023 14:42	WG2147457
Vinyl chloride	U		0.000234	0.00100	1	10/09/2023 14:42	WG2147457
o-Xylene	U		0.000174	0.00100	1	10/09/2023 14:42	WG2147457
m&p-Xylene	U		0.000430	0.00200	1	10/09/2023 14:42	WG2147457
Xylenes, Total	U		0.000174	0.00300	1	10/09/2023 14:42	WG2147457
(S) Toluene-d8	*119*			*80.0-120*		*10/09/2023 14:42*	WG2147457
(S) 4-Bromofluorobenzene	*100*			*77.0-126*		*10/09/2023 14:42*	WG2147457
(S) 1,2-Dichloroethane-d4	*115*			*70.0-130*		*10/09/2023 14:42*	WG2147457

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	0.904		0.0247	0.100	1	10/13/2023 08:18	WG2149785
(S) o-Terphenyl	*57.0*			*31.0-160*		*10/13/2023 08:18*	WG2149785

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	11200		200	1	10/09/2023 15:31	WG2147682

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	10/09/2023 18:11	WG2145820

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	3500		37.9	100	100	10/06/2023 11:17	WG2145803
Fluoride	2.71		0.640	1.50	10	10/06/2023 03:06	WG2145803
Nitrate	U		0.480	1.00	10	10/06/2023 03:06	WG2145803
Nitrite	U		0.420	1.00	10	10/06/2023 03:06	WG2145803
Sulfate	3710		59.4	500	100	10/06/2023 11:17	WG2145803

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	10/10/2023 13:39	WG2146007

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	1.02		0.0200	0.200	1	10/11/2023 22:22	WG2146855

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0644		0.000900	0.0100	5	10/19/2023 16:03	WG2146870
Barium	0.0166		0.00190	0.0100	5	10/19/2023 16:03	WG2146870
Cadmium	U		0.000750	0.00500	5	10/19/2023 16:03	WG2146870
Calcium	659		0.468	5.00	5	10/19/2023 16:03	WG2146870
Chromium	U		0.00620	0.0100	5	10/19/2023 16:03	WG2146870
Cobalt	0.00143	J	0.000298	0.0100	5	10/19/2023 16:03	WG2146870
Iron	3.60		0.140	0.500	5	10/19/2023 16:03	WG2146870
Lead	U		0.00424	0.0100	5	10/19/2023 16:03	WG2146870
Manganese	2.61		0.00352	0.0250	5	10/19/2023 16:03	WG2146870
Nickel	0.0209		0.00408	0.0100	5	10/19/2023 16:03	WG2146870
Potassium	9.15	J	0.540	10.0	5	10/19/2023 16:03	WG2146870
Selenium	U		0.00150	0.0100	5	10/19/2023 16:03	WG2146870
Sodium	2530		1.88	10.0	5	10/19/2023 16:03	WG2146870
Uranium	0.00302	J	0.000394	0.00500	5	10/19/2023 16:03	WG2146870
Vanadium	U		0.00332	0.0250	5	10/19/2023 16:03	WG2146870

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	1.40		0.0314	0.100	1	10/10/2023 01:40	WG2147534
(S) a,a,a-Trifluorotoluene(FID)	*108*			*78.0-120*		*10/10/2023 01:40*	WG2147534

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	2.60		0.0247	0.100	1	10/13/2023 03:13	WG2148883
(S) o-Terphenyl	*81.0*			*31.0-160*		*10/13/2023 03:13*	WG2148883

Received by OCD: 6/12/2024 3:31:05 PM

DUP-LI-01
Collected date/time: 10/04/23 11:00
L1663141

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4490		100	1	10/10/2023 13:19	WG2148182

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1710		3.79	10.0	10	10/11/2023 19:32	WG2148968
Fluoride	1.47	J	0.640	1.50	10	10/11/2023 19:32	WG2148968
Nitrate	U	Q	0.480	1.00	10	10/11/2023 19:32	WG2148968
Nitrite	U	Q	0.420	1.00	10	10/11/2023 19:32	WG2148968
Sulfate	2100		59.4	500	100	10/11/2023 20:11	WG2148968

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0159		0.000180	0.00200	1	10/19/2023 14:26	WG2146874
Barium	0.0167		0.000381	0.00200	1	10/19/2023 14:26	WG2146874
Calcium	365		0.0936	1.00	1	10/19/2023 14:26	WG2146874
Chromium	U		0.00124	0.00200	1	10/19/2023 14:26	WG2146874
Iron	2.23		0.0281	0.100	1	10/19/2023 14:26	WG2146874
Lead	U		0.000849	0.00200	1	10/19/2023 14:26	WG2146874
Manganese	0.443		0.000704	0.00500	1	10/19/2023 14:26	WG2146874
Potassium	3.85		0.108	2.00	1	10/19/2023 14:26	WG2146874
Selenium	U		0.000300	0.00200	1	10/19/2023 14:26	WG2146874
Sodium	1330		1.88	10.0	5	10/19/2023 15:25	WG2146874

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	10/11/2023 17:59	WG2149400
(S) a,a,a-Trifluorotoluene(FID)	*108*			*78.0-120*		*10/11/2023 17:59*	WG2149400

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	10/09/2023 15:04	WG2147457
Benzene	U		0.0000941	0.00100	1	10/09/2023 15:04	WG2147457
Bromodichloromethane	U		0.000136	0.00100	1	10/09/2023 15:04	WG2147457
Bromoform	U		0.000129	0.00100	1	10/09/2023 15:04	WG2147457
Bromomethane	U		0.000605	0.00500	1	10/09/2023 15:04	WG2147457
n-Butylbenzene	U		0.000157	0.00100	1	10/09/2023 15:04	WG2147457
sec-Butylbenzene	U		0.000125	0.00100	1	10/09/2023 15:04	WG2147457
Carbon disulfide	U		0.0000962	0.00100	1	10/09/2023 15:04	WG2147457
Carbon tetrachloride	U		0.000128	0.00100	1	10/09/2023 15:04	WG2147457
Chlorobenzene	U		0.000116	0.00100	1	10/09/2023 15:04	WG2147457
Chlorodibromomethane	U		0.000140	0.00100	1	10/09/2023 15:04	WG2147457
Chloroethane	U		0.000192	0.00500	1	10/09/2023 15:04	WG2147457
Chloroform	U		0.000111	0.00500	1	10/09/2023 15:04	WG2147457
Chloromethane	U		0.000960	0.00250	1	10/09/2023 15:04	WG2147457
1,2-Dibromoethane	U		0.000126	0.00100	1	10/09/2023 15:04	WG2147457
1,1-Dichloroethane	U		0.000100	0.00100	1	10/09/2023 15:04	WG2147457
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/09/2023 15:04	WG2147457
1,1-Dichloroethene	U		0.000188	0.00100	1	10/09/2023 15:04	WG2147457
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/09/2023 15:04	WG2147457

Released to Imaging: 6/28/2024 11:23:28 AM

DUP-LI-01
Collected date/time: 10/04/23 11:00
L1663141

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/09/2023 15:04	WG2147457
1,2-Dichloropropane	U		0.000149	0.00100	1	10/09/2023 15:04	WG2147457
cis-1,3-Dichloropropene	U	J4	0.000111	0.00100	1	10/09/2023 15:04	WG2147457
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/09/2023 15:04	WG2147457
Ethylbenzene	U		0.000137	0.00100	1	10/09/2023 15:04	WG2147457
Isopropylbenzene	U		0.000105	0.00100	1	10/09/2023 15:04	WG2147457
p-Isopropyltoluene	U		0.000120	0.00100	1	10/09/2023 15:04	WG2147457
2-Butanone (MEK)	U		0.00119	0.0100	1	10/09/2023 15:04	WG2147457
2-Hexanone	U		0.000787	0.0100	1	10/09/2023 15:04	WG2147457
Methylene Chloride	U		0.000430	0.00500	1	10/09/2023 15:04	WG2147457
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/09/2023 15:04	WG2147457
Methyl tert-butyl ether	0.000807	J	0.000101	0.00100	1	10/09/2023 15:04	WG2147457
Naphthalene	U		0.00100	0.00500	1	10/09/2023 15:04	WG2147457
n-Propylbenzene	U		0.0000993	0.00100	1	10/09/2023 15:04	WG2147457
Styrene	U		0.000118	0.00100	1	10/09/2023 15:04	WG2147457
tert-Butyl alcohol	U		0.00406	0.00500	1	10/09/2023 15:04	WG2147457
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	10/09/2023 15:04	WG2147457
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/09/2023 15:04	WG2147457
Tetrachloroethene	U		0.000300	0.00100	1	10/09/2023 15:04	WG2147457
Toluene	U		0.000278	0.00100	1	10/09/2023 15:04	WG2147457
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/09/2023 15:04	WG2147457
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/09/2023 15:04	WG2147457
Trichloroethene	U		0.000190	0.00100	1	10/09/2023 15:04	WG2147457
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/09/2023 15:04	WG2147457
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/09/2023 15:04	WG2147457
Vinyl chloride	U		0.000234	0.00100	1	10/09/2023 15:04	WG2147457
o-Xylene	U		0.000174	0.00100	1	10/09/2023 15:04	WG2147457
m&p-Xylene	U		0.000430	0.00200	1	10/09/2023 15:04	WG2147457
Xylenes, Total	U		0.000174	0.00300	1	10/09/2023 15:04	WG2147457
(S) Toluene-d8	*119*			*80.0-120*		*10/09/2023 15:04*	WG2147457
(S) 4-Bromofluorobenzene	*104*			*77.0-126*		*10/09/2023 15:04*	WG2147457
(S) 1,2-Dichloroethane-d4	*114*			*70.0-130*		*10/09/2023 15:04*	WG2147457

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	0.735		0.0247	0.100	1	10/14/2023 23:24	WG2150506
(S) o-Terphenyl	*98.4*			*31.0-160*		*10/14/2023 23:24*	WG2150506

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	5620	Q	100	1	10/13/2023 00:00	WG2150228

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1560		3.79	10.0	10	10/11/2023 20:24	WG2148968
Fluoride	1.08	J	0.640	1.50	10	10/11/2023 20:24	WG2148968
Nitrate	U	Q	0.480	1.00	10	10/11/2023 20:24	WG2148968
Nitrite	U	Q	0.420	1.00	10	10/11/2023 20:24	WG2148968
Sulfate	1680		5.94	50.0	10	10/11/2023 20:24	WG2148968

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0233		0.000180	0.00200	1	10/19/2023 14:29	WG2146874
Barium	0.0156		0.000381	0.00200	1	10/19/2023 14:29	WG2146874
Calcium	387		0.0936	1.00	1	10/19/2023 14:29	WG2146874
Chromium	U		0.00124	0.00200	1	10/19/2023 14:29	WG2146874
Iron	0.284		0.0281	0.100	1	10/19/2023 14:29	WG2146874
Lead	U		0.000849	0.00200	1	10/19/2023 14:29	WG2146874
Manganese	5.77		0.000704	0.00500	1	10/19/2023 14:29	WG2146874
Potassium	3.12		0.108	2.00	1	10/19/2023 14:29	WG2146874
Selenium	0.00138	J	0.000300	0.00200	1	10/19/2023 14:29	WG2146874
Sodium	1300		1.88	10.0	5	10/19/2023 15:28	WG2146874

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	2.13		0.0314	0.100	1	10/11/2023 18:21	WG2149400
(S) a,a,a-Trifluorotoluene(FID)	*109*			*78.0-120*		*10/11/2023 18:21*	WG2149400

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	3.99		0.0247	0.100	1	10/14/2023 23:44	WG2150506
(S) o-Terphenyl	*97.9*			*31.0-160*		*10/14/2023 23:44*	WG2150506

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	10/09/2023 06:25	WG2147193
Benzene	U		0.0000941	0.00100	1	10/09/2023 06:25	WG2147193
Bromodichloromethane	U		0.000136	0.00100	1	10/09/2023 06:25	WG2147193
Bromoform	U		0.000129	0.00100	1	10/09/2023 06:25	WG2147193
Bromomethane	0.00238	B J	0.000605	0.00500	1	10/09/2023 06:25	WG2147193
n-Butylbenzene	U		0.000157	0.00100	1	10/09/2023 06:25	WG2147193
sec-Butylbenzene	U		0.000125	0.00100	1	10/09/2023 06:25	WG2147193
Carbon disulfide	U		0.0000962	0.00100	1	10/09/2023 06:25	WG2147193
Carbon tetrachloride	U		0.000128	0.00100	1	10/09/2023 06:25	WG2147193
Chlorobenzene	U		0.000116	0.00100	1	10/09/2023 06:25	WG2147193
Chlorodibromomethane	U		0.000140	0.00100	1	10/09/2023 06:25	WG2147193
Chloroethane	U		0.000192	0.00500	1	10/09/2023 06:25	WG2147193
Chloroform	U		0.000111	0.00500	1	10/09/2023 06:25	WG2147193
Chloromethane	U		0.000960	0.00250	1	10/09/2023 06:25	WG2147193
1,2-Dibromoethane	U		0.000126	0.00100	1	10/09/2023 06:25	WG2147193
1,1-Dichloroethane	U		0.000100	0.00100	1	10/09/2023 06:25	WG2147193
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/09/2023 06:25	WG2147193
1,1-Dichloroethene	U		0.000188	0.00100	1	10/09/2023 06:25	WG2147193
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/09/2023 06:25	WG2147193
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/09/2023 06:25	WG2147193
1,2-Dichloropropane	U		0.000149	0.00100	1	10/09/2023 06:25	WG2147193
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	10/09/2023 06:25	WG2147193
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/09/2023 06:25	WG2147193
Ethylbenzene	U		0.000137	0.00100	1	10/09/2023 06:25	WG2147193
Isopropylbenzene	U		0.000105	0.00100	1	10/09/2023 06:25	WG2147193
p-Isopropyltoluene	U		0.000120	0.00100	1	10/09/2023 06:25	WG2147193
2-Butanone (MEK)	U		0.00119	0.0100	1	10/09/2023 06:25	WG2147193
2-Hexanone	U		0.000787	0.0100	1	10/09/2023 06:25	WG2147193
Methylene Chloride	U		0.000430	0.00500	1	10/09/2023 06:25	WG2147193
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/09/2023 06:25	WG2147193
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/09/2023 06:25	WG2147193
Naphthalene	U		0.00100	0.00500	1	10/09/2023 06:25	WG2147193
n-Propylbenzene	U		0.0000993	0.00100	1	10/09/2023 06:25	WG2147193
Styrene	U		0.000118	0.00100	1	10/09/2023 06:25	WG2147193
tert-Butyl alcohol	U		0.00406	0.00500	1	10/09/2023 06:25	WG2147193
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	10/09/2023 06:25	WG2147193
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/09/2023 06:25	WG2147193
Tetrachloroethene	U		0.000300	0.00100	1	10/09/2023 06:25	WG2147193
Toluene	U		0.000278	0.00100	1	10/09/2023 06:25	WG2147193
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/09/2023 06:25	WG2147193
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/09/2023 06:25	WG2147193
Trichloroethene	U		0.000190	0.00100	1	10/09/2023 06:25	WG2147193
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/09/2023 06:25	WG2147193
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/09/2023 06:25	WG2147193
Vinyl chloride	U		0.000234	0.00100	1	10/09/2023 06:25	WG2147193
o-Xylene	U		0.000174	0.00100	1	10/09/2023 06:25	WG2147193
m&p-Xylene	U		0.000430	0.00200	1	10/09/2023 06:25	WG2147193
Xylenes, Total	U		0.000174	0.00300	1	10/09/2023 06:25	WG2147193
(S) Toluene-d8	*94.0*			*80.0-120*		*10/09/2023 06:25*	WG2147193
(S) 4-Bromofluorobenzene	*95.4*			*77.0-126*		*10/09/2023 06:25*	WG2147193
(S) 1,2-Dichloroethane-d4	*96.5*			*70.0-130*		*10/09/2023 06:25*	WG2147193

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00499	J	0.000900	0.0100	5	10/19/2023 16:06	WG2146870
Barium	0.0169		0.00190	0.0100	5	10/19/2023 16:06	WG2146870
Chromium	U		0.00620	0.0100	5	10/19/2023 16:06	WG2146870
Iron	0.162	B J	0.140	0.500	5	10/19/2023 16:06	WG2146870
Lead	U		0.00424	0.0100	5	10/19/2023 16:06	WG2146870
Manganese	0.726		0.00352	0.0250	5	10/19/2023 16:06	WG2146870
Selenium	U		0.00150	0.0100	5	10/19/2023 16:06	WG2146870

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	0.0389	J	0.0314	0.100	1	10/10/2023 02:02	WG2147534
(S) a,a,a-Trifluorotoluene(FID)	*104*			*78.0-120*		*10/10/2023 02:02*	WG2147534

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	0.328		0.0247	0.100	1	10/13/2023 03:34	WG2148883
(S) o-Terphenyl	*88.5*			*31.0-160*		*10/13/2023 03:34*	WG2148883

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	20900		400	1	10/09/2023 15:31	WG2147682

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	10/09/2023 18:13	WG2145820

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	5570		37.9	100	100	10/06/2023 04:07	WG2145919
Fluoride	2.46		0.640	1.50	10	10/05/2023 20:39	WG2145919
Nitrate	1.18		0.480	1.00	10	10/05/2023 20:39	WG2145919
Nitrite	U		0.420	1.00	10	10/05/2023 20:39	WG2145919
Sulfate	4950		59.4	500	100	10/06/2023 04:07	WG2145919

Sample Narrative:

L1663141-12 WG2145919: Dilution due to matrix.

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	10/10/2023 13:41	WG2146007

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	2.36		0.0200	0.200	1	10/11/2023 22:25	WG2146855

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00410	J	0.000900	0.0100	5	10/19/2023 16:09	WG2146870
Barium	0.0185		0.00190	0.0100	5	10/19/2023 16:09	WG2146870
Cadmium	U		0.000750	0.00500	5	10/19/2023 16:09	WG2146870
Calcium	647		0.468	5.00	5	10/19/2023 16:09	WG2146870
Chromium	U		0.00620	0.0100	5	10/19/2023 16:09	WG2146870
Cobalt	0.000405	J	0.000298	0.0100	5	10/19/2023 16:09	WG2146870
Iron	0.500	B J	0.140	0.500	5	10/19/2023 16:09	WG2146870
Lead	U		0.00424	0.0100	5	10/19/2023 16:09	WG2146870
Manganese	1.34		0.00352	0.0250	5	10/19/2023 16:09	WG2146870
Nickel	0.00907	J	0.00408	0.0100	5	10/19/2023 16:09	WG2146870
Potassium	39.1		0.540	10.0	5	10/19/2023 16:09	WG2146870
Selenium	U		0.00150	0.0100	5	10/19/2023 16:09	WG2146870
Sodium	3480		1.88	10.0	5	10/19/2023 16:09	WG2146870
Uranium	0.0224		0.000394	0.00500	5	10/19/2023 16:09	WG2146870
Vanadium	U		0.00332	0.0250	5	10/19/2023 16:09	WG2146870

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	0.382		0.0247	0.100	1	10/13/2023 03:54	WG2148883
(S) o-Terphenyl	*88.5*			*31.0-160*		*10/13/2023 03:54*	WG2148883

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0208		0.000180	0.00200	1	10/19/2023 16:19	WG2146870
Barium	0.0169		0.000381	0.00200	1	10/19/2023 16:19	WG2146870
Chromium	U		0.00124	0.00200	1	10/19/2023 16:19	WG2146870
Iron	8.51		0.0281	0.100	1	10/19/2023 16:19	WG2146870
Lead	U		0.000849	0.00200	1	10/19/2023 16:19	WG2146870
Manganese	0.385		0.000704	0.00500	1	10/19/2023 16:19	WG2146870
Selenium	0.000476	J	0.000300	0.00200	1	10/19/2023 16:19	WG2146870

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	2.47		0.314	1.00	10	10/10/2023 03:07	WG2147534
(S) a,a,a-Trifluorotoluene(FID)	*104*			*78.0-120*		*10/10/2023 03:07*	WG2147534

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	0.857		0.0247	0.100	1	10/13/2023 04:14	WG2148883
(S) o-Terphenyl	*89.5*			*31.0-160*		*10/13/2023 04:14*	WG2148883

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	11000		200	1	10/09/2023 19:53	WG2146109

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	3140		37.9	100	100	10/06/2023 11:34	WG2145803
Fluoride	1.17	J	0.640	1.50	10	10/06/2023 03:23	WG2145803
Nitrate	1.33		0.480	1.00	10	10/06/2023 03:23	WG2145803
Nitrite	U		0.420	1.00	10	10/06/2023 03:23	WG2145803
Sulfate	3440		59.4	500	100	10/06/2023 11:34	WG2145803

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00154	J	0.000900	0.0100	5	10/19/2023 16:22	WG2146870
Barium	0.0163		0.00190	0.0100	5	10/19/2023 16:22	WG2146870
Calcium	724		0.468	5.00	5	10/19/2023 16:22	WG2146870
Chromium	U		0.00620	0.0100	5	10/19/2023 16:22	WG2146870
Iron	5.06		0.140	0.500	5	10/19/2023 16:22	WG2146870
Lead	U		0.00424	0.0100	5	10/19/2023 16:22	WG2146870
Manganese	0.435		0.00352	0.0250	5	10/19/2023 16:22	WG2146870
Potassium	6.38	J	0.540	10.0	5	10/19/2023 16:22	WG2146870
Selenium	U		0.00150	0.0100	5	10/19/2023 16:22	WG2146870
Sodium	1730		1.88	10.0	5	10/19/2023 16:22	WG2146870

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	10/10/2023 02:23	WG2147534
(S) a,a,a-Trifluorotoluene(FID)	*105*			*78.0-120*		*10/10/2023 02:23*	WG2147534

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	10/14/2023 01:17	WG2149782
(S) o-Terphenyl	*114*			*31.0-160*		*10/14/2023 01:17*	WG2149782

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2000		50.0	1	10/10/2023 00:37	WG2147745

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	10/09/2023 18:17	WG2145820

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	185		0.379	1.00	1	10/06/2023 04:14	WG2145803
Fluoride	1.70		0.0640	0.150	1	10/06/2023 04:14	WG2145803
Nitrate	1.23		0.0480	0.100	1	10/06/2023 04:14	WG2145803
Nitrite	U		0.0420	0.100	1	10/06/2023 04:14	WG2145803
Sulfate	748		5.94	50.0	10	10/06/2023 11:51	WG2145803

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	10/10/2023 13:43	WG2146007

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	0.857		0.0200	0.200	1	10/11/2023 22:28	WG2146855

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00411		0.000180	0.00200	1	10/19/2023 16:25	WG2146870
Barium	0.0115		0.000381	0.00200	1	10/19/2023 16:25	WG2146870
Cadmium	U		0.000150	0.00100	1	10/19/2023 16:25	WG2146870
Calcium	178		0.0936	1.00	1	10/19/2023 16:25	WG2146870
Chromium	U		0.00124	0.00200	1	10/19/2023 16:25	WG2146870
Cobalt	0.00103	J	0.0000596	0.00200	1	10/19/2023 16:25	WG2146870
Iron	0.0712	B J	0.0281	0.100	1	10/19/2023 16:25	WG2146870
Lead	U		0.000849	0.00200	1	10/19/2023 16:25	WG2146870
Manganese	0.0679		0.000704	0.00500	1	10/19/2023 16:25	WG2146870
Nickel	0.0325		0.000816	0.00200	1	10/19/2023 16:25	WG2146870
Potassium	0.375	J	0.108	2.00	1	10/19/2023 16:25	WG2146870
Selenium	0.00158	J	0.000300	0.00200	1	10/19/2023 16:25	WG2146870
Sodium	326		0.376	2.00	1	10/19/2023 16:25	WG2146870
Uranium	0.00999		0.0000789	0.00100	1	10/19/2023 16:25	WG2146870
Vanadium	0.0255		0.000664	0.00500	1	10/19/2023 16:25	WG2146870

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	0.0739	J	0.0314	0.100	1	10/10/2023 02:45	WG2147534
(S) a,a,a-Trifluorotoluene(FID)	*104*			*78.0-120*		*10/10/2023 02:45*	WG2147534

Received by OCD: 6/12/2024 3:31:05 PM

MW-32
Collected date/time: 10/04/23 10:35
L1663141

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	10/09/2023 08:51	WG2147193
Benzene	0.00958		0.0000941	0.00100	1	10/09/2023 08:51	WG2147193
Bromodichloromethane	U		0.000136	0.00100	1	10/09/2023 08:51	WG2147193
Bromoform	U		0.000129	0.00100	1	10/09/2023 08:51	WG2147193
Bromomethane	U		0.000605	0.00500	1	10/09/2023 08:51	WG2147193
n-Butylbenzene	U		0.000157	0.00100	1	10/09/2023 08:51	WG2147193
sec-Butylbenzene	U		0.000125	0.00100	1	10/09/2023 08:51	WG2147193
Carbon disulfide	U		0.0000962	0.00100	1	10/09/2023 08:51	WG2147193
Carbon tetrachloride	U		0.000128	0.00100	1	10/09/2023 08:51	WG2147193
Chlorobenzene	U		0.000116	0.00100	1	10/09/2023 08:51	WG2147193
Chlorodibromomethane	U		0.000140	0.00100	1	10/09/2023 08:51	WG2147193
Chloroethane	U		0.000192	0.00500	1	10/09/2023 08:51	WG2147193
Chloroform	U		0.000111	0.00500	1	10/09/2023 08:51	WG2147193
Chloromethane	U		0.000960	0.00250	1	10/09/2023 08:51	WG2147193
1,2-Dibromoethane	U		0.000126	0.00100	1	10/09/2023 08:51	WG2147193
1,1-Dichloroethane	U		0.000100	0.00100	1	10/09/2023 08:51	WG2147193
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/09/2023 08:51	WG2147193
1,1-Dichloroethene	U		0.000188	0.00100	1	10/09/2023 08:51	WG2147193
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/09/2023 08:51	WG2147193
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/09/2023 08:51	WG2147193
1,2-Dichloropropane	U		0.000149	0.00100	1	10/09/2023 08:51	WG2147193
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	10/09/2023 08:51	WG2147193
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/09/2023 08:51	WG2147193
Ethylbenzene	0.00477		0.000137	0.00100	1	10/09/2023 08:51	WG2147193
Isopropylbenzene	0.000253	J	0.000105	0.00100	1	10/09/2023 08:51	WG2147193
p-Isopropyltoluene	U		0.000120	0.00100	1	10/09/2023 08:51	WG2147193
2-Butanone (MEK)	U		0.00119	0.0100	1	10/09/2023 08:51	WG2147193
2-Hexanone	U		0.000787	0.0100	1	10/09/2023 08:51	WG2147193
Methylene Chloride	U		0.000430	0.00500	1	10/09/2023 08:51	WG2147193
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/09/2023 08:51	WG2147193
Methyl tert-butyl ether	0.000216	J	0.000101	0.00100	1	10/09/2023 08:51	WG2147193
Naphthalene	U		0.00100	0.00500	1	10/09/2023 08:51	WG2147193
n-Propylbenzene	0.000483	J	0.0000993	0.00100	1	10/09/2023 08:51	WG2147193
Styrene	U		0.000118	0.00100	1	10/09/2023 08:51	WG2147193
tert-Butyl alcohol	U		0.00406	0.00500	1	10/09/2023 08:51	WG2147193
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	10/09/2023 08:51	WG2147193
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/09/2023 08:51	WG2147193
Tetrachloroethene	U		0.000300	0.00100	1	10/09/2023 08:51	WG2147193
Toluene	U		0.000278	0.00100	1	10/09/2023 08:51	WG2147193
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/09/2023 08:51	WG2147193
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/09/2023 08:51	WG2147193
Trichloroethene	U		0.000190	0.00100	1	10/09/2023 08:51	WG2147193
1,2,4-Trimethylbenzene	0.00129		0.000322	0.00100	1	10/09/2023 08:51	WG2147193
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/09/2023 08:51	WG2147193
Vinyl chloride	U		0.000234	0.00100	1	10/09/2023 08:51	WG2147193
o-Xylene	U		0.000174	0.00100	1	10/09/2023 08:51	WG2147193
m&p-Xylene	0.00181	J	0.000430	0.00200	1	10/09/2023 08:51	WG2147193
Xylenes, Total	0.00181	J	0.000174	0.00300	1	10/09/2023 08:51	WG2147193
(S) Toluene-d8	*96.1*			*80.0-120*		*10/09/2023 08:51*	WG2147193
(S) 4-Bromofluorobenzene	*94.9*			*77.0-126*		*10/09/2023 08:51*	WG2147193
(S) 1,2-Dichloroethane-d4	*93.8*			*70.0-130*		*10/09/2023 08:51*	WG2147193

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	0.589		0.0247	0.100	1	10/14/2023 01:38	WG2149782

Released to Imaging: 6/28/2024 11:23:28 AM

MW-32
Collected date/time: 10/04/23 10:35
L1663141

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	*129*			*31.0-160*		*10/14/2023 01:38*	WG2149782

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1830		50.0	1	10/10/2023 00:37	WG2147745

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	198		3.79	10.0	10	10/05/2023 20:54	WG2145919
Fluoride	1.58		0.640	1.50	10	10/05/2023 20:54	WG2145919
Nitrate	0.490	J	0.480	1.00	10	10/05/2023 20:54	WG2145919
Nitrite	U		0.420	1.00	10	10/05/2023 20:54	WG2145919
Sulfate	257		5.94	50.0	10	10/05/2023 20:54	WG2145919

Sample Narrative:

L1663141-16 WG2145919: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00223		0.000180	0.00200	1	10/19/2023 16:29	WG2146870
Barium	0.103		0.000381	0.00200	1	10/19/2023 16:29	WG2146870
Calcium	78.1		0.0936	1.00	1	10/19/2023 16:29	WG2146870
Chromium	U		0.00124	0.00200	1	10/19/2023 16:29	WG2146870
Iron	0.0441	B J	0.0281	0.100	1	10/19/2023 16:29	WG2146870
Lead	U		0.000849	0.00200	1	10/19/2023 16:29	WG2146870
Manganese	0.0657		0.000704	0.00500	1	10/19/2023 16:29	WG2146870
Potassium	0.718	J	0.108	2.00	1	10/19/2023 16:29	WG2146870
Selenium	U		0.000300	0.00200	1	10/19/2023 16:29	WG2146870
Sodium	417		0.376	2.00	1	10/19/2023 16:29	WG2146870

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	5.34		0.314	1.00	10	10/10/2023 07:00	WG2148109
(S) a,a,a-Trifluorotoluene(FID)	*106*			*78.0-120*		*10/10/2023 07:00*	WG2148109

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	10/09/2023 11:36	WG2147193
Benzene	0.863		0.00235	0.0250	25	10/09/2023 11:36	WG2147193
Bromodichloromethane	U		0.00340	0.0250	25	10/09/2023 11:36	WG2147193
Bromoform	U		0.00322	0.0250	25	10/09/2023 11:36	WG2147193
Bromomethane	U		0.0151	0.125	25	10/09/2023 11:36	WG2147193
n-Butylbenzene	U		0.00393	0.0250	25	10/09/2023 11:36	WG2147193
sec-Butylbenzene	0.00319	J	0.00313	0.0250	25	10/09/2023 11:36	WG2147193
Carbon disulfide	U		0.00241	0.0250	25	10/09/2023 11:36	WG2147193
Carbon tetrachloride	U		0.00320	0.0250	25	10/09/2023 11:36	WG2147193
Chlorobenzene	U		0.00290	0.0250	25	10/09/2023 11:36	WG2147193
Chlorodibromomethane	U		0.00350	0.0250	25	10/09/2023 11:36	WG2147193
Chloroethane	U		0.00480	0.125	25	10/09/2023 11:36	WG2147193
Chloroform	0.00390	J	0.00278	0.125	25	10/09/2023 11:36	WG2147193
Chloromethane	U		0.0240	0.0625	25	10/09/2023 11:36	WG2147193
1,2-Dibromoethane	U		0.00315	0.0250	25	10/09/2023 11:36	WG2147193
1,1-Dichloroethane	U		0.00250	0.0250	25	10/09/2023 11:36	WG2147193

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	10/09/2023 11:36	WG2147193
1,1-Dichloroethene	U		0.00470	0.0250	25	10/09/2023 11:36	WG2147193
cis-1,2-Dichloroethene	U		0.00315	0.0250	25	10/09/2023 11:36	WG2147193
trans-1,2-Dichloroethene	U		0.00373	0.0250	25	10/09/2023 11:36	WG2147193
1,2-Dichloropropane	U		0.00373	0.0250	25	10/09/2023 11:36	WG2147193
cis-1,3-Dichloropropene	U		0.00278	0.0250	25	10/09/2023 11:36	WG2147193
trans-1,3-Dichloropropene	U		0.00295	0.0250	25	10/09/2023 11:36	WG2147193
Ethylbenzene	U		0.00343	0.0250	25	10/09/2023 11:36	WG2147193
Isopropylbenzene	0.0369		0.00263	0.0250	25	10/09/2023 11:36	WG2147193
p-Isopropyltoluene	U		0.00300	0.0250	25	10/09/2023 11:36	WG2147193
2-Butanone (MEK)	U		0.0298	0.250	25	10/09/2023 11:36	WG2147193
2-Hexanone	U		0.0197	0.250	25	10/09/2023 11:36	WG2147193
Methylene Chloride	U		0.0107	0.125	25	10/09/2023 11:36	WG2147193
4-Methyl-2-pentanone (MIBK)	U		0.0120	0.250	25	10/09/2023 11:36	WG2147193
Methyl tert-butyl ether	U		0.00253	0.0250	25	10/09/2023 11:36	WG2147193
Naphthalene	U		0.0250	0.125	25	10/09/2023 11:36	WG2147193
n-Propylbenzene	0.0371		0.00248	0.0250	25	10/09/2023 11:36	WG2147193
Styrene	U		0.00295	0.0250	25	10/09/2023 11:36	WG2147193
tert-Butyl alcohol	U		0.102	0.125	25	10/09/2023 11:36	WG2147193
1,1,1,2-Tetrachloroethane	U		0.00368	0.0250	25	10/09/2023 11:36	WG2147193
1,1,2,2-Tetrachloroethane	U		0.00333	0.0250	25	10/09/2023 11:36	WG2147193
Tetrachloroethene	U		0.00750	0.0250	25	10/09/2023 11:36	WG2147193
Toluene	0.0112	J	0.00695	0.0250	25	10/09/2023 11:36	WG2147193
1,1,1-Trichloroethane	U		0.00373	0.0250	25	10/09/2023 11:36	WG2147193
1,1,2-Trichloroethane	U		0.00395	0.0250	25	10/09/2023 11:36	WG2147193
Trichloroethene	U		0.00475	0.0250	25	10/09/2023 11:36	WG2147193
1,2,4-Trimethylbenzene	U		0.00805	0.0250	25	10/09/2023 11:36	WG2147193
1,3,5-Trimethylbenzene	U		0.00260	0.0250	25	10/09/2023 11:36	WG2147193
Vinyl chloride	U		0.00585	0.0250	25	10/09/2023 11:36	WG2147193
o-Xylene	U		0.00435	0.0250	25	10/09/2023 11:36	WG2147193
m&p-Xylene	U		0.0107	0.0500	25	10/09/2023 11:36	WG2147193
Xylenes, Total	U		0.00435	0.0750	25	10/09/2023 11:36	WG2147193
(S) Toluene-d8	*93.2*			*80.0-120*		*10/09/2023 11:36*	WG2147193
(S) 4-Bromofluorobenzene	*92.2*			*77.0-126*		*10/09/2023 11:36*	WG2147193
(S) 1,2-Dichloroethane-d4	*96.4*			*70.0-130*		*10/09/2023 11:36*	WG2147193

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	2.48		0.0247	0.100	1	10/14/2023 01:58	WG2149782
(S) o-Terphenyl	*80.0*			*31.0-160*		*10/14/2023 01:58*	WG2149782

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1380		25.0	1	10/09/2023 19:53	WG2146109

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	39.4		3.79	10.0	10	10/05/2023 21:42	WG2145919
Fluoride	0.696	J	0.640	1.50	10	10/05/2023 21:42	WG2145919
Nitrate	1.10		0.480	1.00	10	10/05/2023 21:42	WG2145919
Nitrite	U		0.420	1.00	10	10/05/2023 21:42	WG2145919
Sulfate	537		5.94	50.0	10	10/05/2023 21:42	WG2145919

Sample Narrative:

L1663141-17 WG2145919: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0281		0.000180	0.00200	1	10/19/2023 16:32	WG2146870
Barium	0.0713		0.000381	0.00200	1	10/19/2023 16:32	WG2146870
Calcium	119		0.0936	1.00	1	10/19/2023 16:32	WG2146870
Chromium	U		0.00124	0.00200	1	10/19/2023 16:32	WG2146870
Iron	0.961		0.0281	0.100	1	10/19/2023 16:32	WG2146870
Lead	U		0.000849	0.00200	1	10/19/2023 16:32	WG2146870
Manganese	2.25		0.000704	0.00500	1	10/19/2023 16:32	WG2146870
Potassium	U		0.108	2.00	1	10/19/2023 16:32	WG2146870
Selenium	U		0.000300	0.00200	1	10/19/2023 16:32	WG2146870
Sodium	259		0.376	2.00	1	10/19/2023 16:32	WG2146870

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	0.419		0.0314	0.100	1	10/10/2023 02:28	WG2148109
(S) a,a,a-Trifluorotoluene(FID)	*107*			*78.0-120*		*10/10/2023 02:28*	WG2148109

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	10/09/2023 09:11	WG2147193
Benzene	0.000103	J	0.0000941	0.00100	1	10/09/2023 09:11	WG2147193
Bromodichloromethane	U		0.000136	0.00100	1	10/09/2023 09:11	WG2147193
Bromoform	U		0.000129	0.00100	1	10/09/2023 09:11	WG2147193
Bromomethane	U		0.000605	0.00500	1	10/09/2023 09:11	WG2147193
n-Butylbenzene	U		0.000157	0.00100	1	10/09/2023 09:11	WG2147193
sec-Butylbenzene	0.00213		0.000125	0.00100	1	10/09/2023 09:11	WG2147193
Carbon disulfide	U		0.0000962	0.00100	1	10/09/2023 09:11	WG2147193
Carbon tetrachloride	U		0.000128	0.00100	1	10/09/2023 09:11	WG2147193
Chlorobenzene	U		0.000116	0.00100	1	10/09/2023 09:11	WG2147193
Chlorodibromomethane	U		0.000140	0.00100	1	10/09/2023 09:11	WG2147193
Chloroethane	U		0.000192	0.00500	1	10/09/2023 09:11	WG2147193
Chloroform	U		0.000111	0.00500	1	10/09/2023 09:11	WG2147193
Chloromethane	U		0.000960	0.00250	1	10/09/2023 09:11	WG2147193
1,2-Dibromoethane	U		0.000126	0.00100	1	10/09/2023 09:11	WG2147193
1,1-Dichloroethane	U		0.000100	0.00100	1	10/09/2023 09:11	WG2147193

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	10/09/2023 09:11	WG2147193
1,1-Dichloroethene	U		0.000188	0.00100	1	10/09/2023 09:11	WG2147193
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/09/2023 09:11	WG2147193
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/09/2023 09:11	WG2147193
1,2-Dichloropropane	U		0.000149	0.00100	1	10/09/2023 09:11	WG2147193
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	10/09/2023 09:11	WG2147193
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/09/2023 09:11	WG2147193
Ethylbenzene	0.000209	J	0.000137	0.00100	1	10/09/2023 09:11	WG2147193
Isopropylbenzene	0.00115		0.000105	0.00100	1	10/09/2023 09:11	WG2147193
p-Isopropyltoluene	U		0.000120	0.00100	1	10/09/2023 09:11	WG2147193
2-Butanone (MEK)	U		0.00119	0.0100	1	10/09/2023 09:11	WG2147193
2-Hexanone	U		0.000787	0.0100	1	10/09/2023 09:11	WG2147193
Methylene Chloride	U		0.000430	0.00500	1	10/09/2023 09:11	WG2147193
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/09/2023 09:11	WG2147193
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/09/2023 09:11	WG2147193
Naphthalene	U		0.00100	0.00500	1	10/09/2023 09:11	WG2147193
n-Propylbenzene	0.000439	J	0.0000993	0.00100	1	10/09/2023 09:11	WG2147193
Styrene	U		0.000118	0.00100	1	10/09/2023 09:11	WG2147193
tert-Butyl alcohol	0.00705		0.00406	0.00500	1	10/09/2023 09:11	WG2147193
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	10/09/2023 09:11	WG2147193
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/09/2023 09:11	WG2147193
Tetrachloroethene	U		0.000300	0.00100	1	10/09/2023 09:11	WG2147193
Toluene	U		0.000278	0.00100	1	10/09/2023 09:11	WG2147193
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/09/2023 09:11	WG2147193
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/09/2023 09:11	WG2147193
Trichloroethene	U		0.000190	0.00100	1	10/09/2023 09:11	WG2147193
1,2,4-Trimethylbenzene	0.000456	J	0.000322	0.00100	1	10/09/2023 09:11	WG2147193
1,3,5-Trimethylbenzene	0.000161	J	0.000104	0.00100	1	10/09/2023 09:11	WG2147193
Vinyl chloride	U		0.000234	0.00100	1	10/09/2023 09:11	WG2147193
o-Xylene	U		0.000174	0.00100	1	10/09/2023 09:11	WG2147193
m&p-Xylene	0.000586	J	0.000430	0.00200	1	10/09/2023 09:11	WG2147193
Xylenes, Total	0.000586	J	0.000174	0.00300	1	10/09/2023 09:11	WG2147193
(S) Toluene-d8	*85.4*			*80.0-120*		*10/09/2023 09:11*	WG2147193
(S) 4-Bromofluorobenzene	*89.3*			*77.0-126*		*10/09/2023 09:11*	WG2147193
(S) 1,2-Dichloroethane-d4	*96.1*			*70.0-130*		*10/09/2023 09:11*	WG2147193

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	0.862		0.0247	0.100	1	10/14/2023 02:18	WG2149782
(S) o-Terphenyl	*131*			*31.0-160*		*10/14/2023 02:18*	WG2149782

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	10/10/2023 00:37	WG2147745

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	224		3.79	10.0	10	10/05/2023 21:58	WG2145919
Fluoride	1.40	J	0.640	1.50	10	10/05/2023 21:58	WG2145919
Nitrate	14.3		0.480	1.00	10	10/05/2023 21:58	WG2145919
Nitrite	U		0.420	1.00	10	10/05/2023 21:58	WG2145919
Sulfate	1520		5.94	50.0	10	10/05/2023 21:58	WG2145919

Sample Narrative:

L1663141-18 WG2145919: Dilution due to matrix.

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	10/10/2023 13:46	WG2146007

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	0.663		0.0200	0.200	1	10/11/2023 22:32	WG2146855

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00327		0.000180	0.00200	1	10/19/2023 16:35	WG2146870
Barium	0.0130		0.000381	0.00200	1	10/19/2023 16:35	WG2146870
Cadmium	U		0.000150	0.00100	1	10/19/2023 16:35	WG2146870
Calcium	497		0.0936	1.00	1	10/19/2023 16:35	WG2146870
Chromium	U		0.00124	0.00200	1	10/19/2023 16:35	WG2146870
Cobalt	0.000194	J	0.0000596	0.00200	1	10/19/2023 16:35	WG2146870
Iron	U		0.0281	0.100	1	10/19/2023 16:35	WG2146870
Lead	U		0.000849	0.00200	1	10/19/2023 16:35	WG2146870
Manganese	0.0290		0.000704	0.00500	1	10/19/2023 16:35	WG2146870
Nickel	0.00192	J	0.000816	0.00200	1	10/19/2023 16:35	WG2146870
Potassium	31.2		0.108	2.00	1	10/19/2023 16:35	WG2146870
Selenium	0.00634		0.000300	0.00200	1	10/19/2023 16:35	WG2146870
Sodium	208		0.376	2.00	1	10/19/2023 16:35	WG2146870
Uranium	0.0389		0.0000789	0.00100	1	10/19/2023 16:35	WG2146870
Vanadium	0.0146		0.000664	0.00500	1	10/19/2023 16:35	WG2146870

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2590	Q	50.0	1	10/13/2023 00:00	WG2150228

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	211		3.79	10.0	10	10/05/2023 22:14	WG2145919
Fluoride	U		0.640	1.50	10	10/05/2023 22:14	WG2145919
Nitrate	5.14		0.480	1.00	10	10/05/2023 22:14	WG2145919
Nitrite	U		0.420	1.00	10	10/05/2023 22:14	WG2145919
Sulfate	1310		5.94	50.0	10	10/05/2023 22:14	WG2145919

Sample Narrative:

L1663141-19 WG2145919: Dilution due to matrix.

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	10/10/2023 13:48	WG2146007

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	0.233		0.0200	0.200	1	10/11/2023 22:35	WG2146855

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00201		0.000180	0.00200	1	10/19/2023 16:38	WG2146870
Barium	0.0104		0.000381	0.00200	1	10/19/2023 16:38	WG2146870
Cadmium	U		0.000150	0.00100	1	10/19/2023 16:38	WG2146870
Calcium	530		0.0936	1.00	1	10/19/2023 16:38	WG2146870
Chromium	U		0.00124	0.00200	1	10/19/2023 16:38	WG2146870
Cobalt	0.000342	J	0.0000596	0.00200	1	10/19/2023 16:38	WG2146870
Iron	U		0.0281	0.100	1	10/19/2023 16:38	WG2146870
Lead	U		0.000849	0.00200	1	10/19/2023 16:38	WG2146870
Manganese	0.00785		0.000704	0.00500	1	10/19/2023 16:38	WG2146870
Nickel	0.00107	J	0.000816	0.00200	1	10/19/2023 16:38	WG2146870
Potassium	0.989	J	0.108	2.00	1	10/19/2023 16:38	WG2146870
Selenium	0.00300		0.000300	0.00200	1	10/19/2023 16:38	WG2146870
Sodium	55.2		0.376	2.00	1	10/19/2023 16:38	WG2146870
Uranium	0.0233		0.0000789	0.00100	1	10/19/2023 16:38	WG2146870
Vanadium	0.0117		0.000664	0.00500	1	10/19/2023 16:38	WG2146870

EB-LT-02
Collected date/time: 10/04/23 11:10
L1663141

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	10/09/2023 15:31	WG2147682

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	10/06/2023 04:31	WG2145803
Fluoride	U		0.0640	0.150	1	10/06/2023 04:31	WG2145803
Nitrate	0.0870	J	0.0480	0.100	1	10/06/2023 04:31	WG2145803
Nitrite	U		0.0420	0.100	1	10/06/2023 04:31	WG2145803
Sulfate	0.619	J	0.594	5.00	1	10/06/2023 04:31	WG2145803

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	10/19/2023 16:42	WG2146870
Barium	U		0.000381	0.00200	1	10/19/2023 16:42	WG2146870
Calcium	0.477	J	0.0936	1.00	1	10/19/2023 16:42	WG2146870
Chromium	U		0.00124	0.00200	1	10/19/2023 16:42	WG2146870
Iron	U		0.0281	0.100	1	10/19/2023 16:42	WG2146870
Lead	U		0.000849	0.00200	1	10/19/2023 16:42	WG2146870
Manganese	U		0.000704	0.00500	1	10/19/2023 16:42	WG2146870
Potassium	U		0.108	2.00	1	10/19/2023 16:42	WG2146870
Selenium	U		0.000300	0.00200	1	10/19/2023 16:42	WG2146870
Sodium	U		0.376	2.00	1	10/19/2023 16:42	WG2146870

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	0.0476	B J	0.0314	0.100	1	10/09/2023 23:51	WG2148109
(S) a,a,a-Trifluorotoluene(FID)	*110*			*78.0-120*		*10/09/2023 23:51*	WG2148109

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	10/14/2023 02:38	WG2149782
(S) o-Terphenyl	*85.3*			*31.0-160*		*10/14/2023 02:38*	WG2149782

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1890		50.0	1	10/09/2023 12:14	WG2147703

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	343		3.79	10.0	10	10/05/2023 22:30	WG2145919
Fluoride	U		0.640	1.50	10	10/05/2023 22:30	WG2145919
Nitrate	0.503	J	0.480	1.00	10	10/05/2023 22:30	WG2145919
Nitrite	U		0.420	1.00	10	10/05/2023 22:30	WG2145919
Sulfate	38.5	J	5.94	50.0	10	10/05/2023 22:30	WG2145919

Sample Narrative:

L1663141-21 WG2145919: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00111	J	0.000180	0.00200	1	10/19/2023 16:45	WG2146870
Barium	0.333		0.00190	0.0100	5	10/20/2023 10:00	WG2146870
Calcium	198		0.0936	1.00	1	10/19/2023 16:45	WG2146870
Chromium	U		0.00124	0.00200	1	10/19/2023 16:45	WG2146870
Iron	0.0283	B J	0.0281	0.100	1	10/19/2023 16:45	WG2146870
Lead	0.00218		0.000849	0.00200	1	10/19/2023 16:45	WG2146870
Manganese	0.194		0.000704	0.00500	1	10/19/2023 16:45	WG2146870
Potassium	0.306	J	0.108	2.00	1	10/19/2023 16:45	WG2146870
Selenium	U		0.000300	0.00200	1	10/19/2023 16:45	WG2146870
Sodium	272		0.376	2.00	1	10/19/2023 16:45	WG2146870

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	25.1		0.628	2.00	20	10/10/2023 07:22	WG2148109
(S) a,a,a-Trifluorotoluene(FID)	*106*			*78.0-120*		*10/10/2023 07:22*	WG2148109

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	10/11/2023 15:40	WG2149272
Benzene	7.19		0.00471	0.0500	50	10/11/2023 15:40	WG2149272
Bromodichloromethane	U		0.00680	0.0500	50	10/11/2023 15:40	WG2149272
Bromoform	U		0.00645	0.0500	50	10/11/2023 15:40	WG2149272
Bromomethane	U		0.0303	0.250	50	10/11/2023 15:40	WG2149272
n-Butylbenzene	U		0.00785	0.0500	50	10/11/2023 15:40	WG2149272
sec-Butylbenzene	0.0326	J	0.00625	0.0500	50	10/11/2023 15:40	WG2149272
Carbon disulfide	U		0.00481	0.0500	50	10/11/2023 15:40	WG2149272
Carbon tetrachloride	U		0.00640	0.0500	50	10/11/2023 15:40	WG2149272
Chlorobenzene	U		0.00580	0.0500	50	10/11/2023 15:40	WG2149272
Chlorodibromomethane	U		0.00700	0.0500	50	10/11/2023 15:40	WG2149272
Chloroethane	U		0.00960	0.250	50	10/11/2023 15:40	WG2149272
Chloroform	U		0.00555	0.250	50	10/11/2023 15:40	WG2149272
Chloromethane	U		0.0480	0.125	50	10/11/2023 15:40	WG2149272
1,2-Dibromoethane	U		0.00630	0.0500	50	10/11/2023 15:40	WG2149272
1,1-Dichloroethane	U		0.00500	0.0500	50	10/11/2023 15:40	WG2149272

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	10/11/2023 15:40	WG2149272
1,1-Dichloroethene	U		0.00940	0.0500	50	10/11/2023 15:40	WG2149272
cis-1,2-Dichloroethene	U		0.00630	0.0500	50	10/11/2023 15:40	WG2149272
trans-1,2-Dichloroethene	U		0.00745	0.0500	50	10/11/2023 15:40	WG2149272
1,2-Dichloropropane	U		0.00745	0.0500	50	10/11/2023 15:40	WG2149272
cis-1,3-Dichloropropene	U		0.00555	0.0500	50	10/11/2023 15:40	WG2149272
trans-1,3-Dichloropropene	U		0.00590	0.0500	50	10/11/2023 15:40	WG2149272
Ethylbenzene	2.23		0.00685	0.0500	50	10/11/2023 15:40	WG2149272
Isopropylbenzene	0.139		0.00525	0.0500	50	10/11/2023 15:40	WG2149272
p-Isopropyltoluene	U		0.00600	0.0500	50	10/11/2023 15:40	WG2149272
2-Butanone (MEK)	U		0.0595	0.500	50	10/11/2023 15:40	WG2149272
2-Hexanone	U		0.0394	0.500	50	10/11/2023 15:40	WG2149272
Methylene Chloride	U		0.0215	0.250	50	10/11/2023 15:40	WG2149272
4-Methyl-2-pentanone (MIBK)	U		0.0239	0.500	50	10/11/2023 15:40	WG2149272
Methyl tert-butyl ether	0.0421	J	0.00505	0.0500	50	10/11/2023 15:40	WG2149272
Naphthalene	0.168	J J4	0.0500	0.250	50	10/11/2023 15:40	WG2149272
n-Propylbenzene	0.249		0.00497	0.0500	50	10/11/2023 15:40	WG2149272
Styrene	U		0.00590	0.0500	50	10/11/2023 15:40	WG2149272
tert-Butyl alcohol	U		0.203	0.250	50	10/11/2023 15:40	WG2149272
1,1,1,2-Tetrachloroethane	U		0.00735	0.0500	50	10/11/2023 15:40	WG2149272
1,1,2,2-Tetrachloroethane	U		0.00665	0.0500	50	10/11/2023 15:40	WG2149272
Tetrachloroethene	U		0.0150	0.0500	50	10/11/2023 15:40	WG2149272
Toluene	0.0641		0.0139	0.0500	50	10/11/2023 15:40	WG2149272
1,1,1-Trichloroethane	U		0.00745	0.0500	50	10/11/2023 15:40	WG2149272
1,1,2-Trichloroethane	U		0.00790	0.0500	50	10/11/2023 15:40	WG2149272
Trichloroethene	U		0.00950	0.0500	50	10/11/2023 15:40	WG2149272
1,2,4-Trimethylbenzene	0.699		0.0161	0.0500	50	10/11/2023 15:40	WG2149272
1,3,5-Trimethylbenzene	U		0.00520	0.0500	50	10/11/2023 15:40	WG2149272
Vinyl chloride	U		0.0117	0.0500	50	10/11/2023 15:40	WG2149272
o-Xylene	U		0.00870	0.0500	50	10/11/2023 15:40	WG2149272
m&p-Xylene	0.848		0.0215	0.100	50	10/11/2023 15:40	WG2149272
Xylenes, Total	0.848		0.00870	0.150	50	10/11/2023 15:40	WG2149272
(S) Toluene-d8	*105*			*80.0-120*		*10/11/2023 15:40*	WG2149272
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*10/11/2023 15:40*	WG2149272
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*10/11/2023 15:40*	WG2149272

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	3.81		0.0247	0.100	1	10/14/2023 02:59	WG2149782
(S) o-Terphenyl	*128*			*31.0-160*		*10/14/2023 02:59*	WG2149782

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2050		50.0	1	10/09/2023 19:53	WG2146109

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	147		3.79	10.0	10	10/05/2023 22:46	WG2145919
Fluoride	U		0.640	1.50	10	10/05/2023 22:46	WG2145919
Nitrate	2.67		0.480	1.00	10	10/05/2023 22:46	WG2145919
Nitrite	U		0.420	1.00	10	10/05/2023 22:46	WG2145919
Sulfate	1060		5.94	50.0	10	10/05/2023 22:46	WG2145919

Sample Narrative:

L1663141-22 WG2145919: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Calcium	372		0.0936	1.00	1	10/19/2023 16:48	WG2146870
Potassium	2.09		0.108	2.00	1	10/19/2023 16:48	WG2146870
Sodium	98.6		0.376	2.00	1	10/19/2023 16:48	WG2146870

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	10/09/2023 09:32	WG2147193
Benzene	U		0.0000941	0.00100	1	10/09/2023 09:32	WG2147193
Bromodichloromethane	U		0.000136	0.00100	1	10/09/2023 09:32	WG2147193
Bromoform	U		0.000129	0.00100	1	10/09/2023 09:32	WG2147193
Bromomethane	U		0.000605	0.00500	1	10/09/2023 09:32	WG2147193
n-Butylbenzene	U		0.000157	0.00100	1	10/09/2023 09:32	WG2147193
sec-Butylbenzene	U		0.000125	0.00100	1	10/09/2023 09:32	WG2147193
Carbon disulfide	U		0.0000962	0.00100	1	10/09/2023 09:32	WG2147193
Carbon tetrachloride	U		0.000128	0.00100	1	10/09/2023 09:32	WG2147193
Chlorobenzene	U		0.000116	0.00100	1	10/09/2023 09:32	WG2147193
Chlorodibromomethane	U		0.000140	0.00100	1	10/09/2023 09:32	WG2147193
Chloroethane	U		0.000192	0.00500	1	10/09/2023 09:32	WG2147193
Chloroform	U		0.000111	0.00500	1	10/09/2023 09:32	WG2147193
Chloromethane	U		0.000960	0.00250	1	10/09/2023 09:32	WG2147193
1,2-Dibromoethane	U		0.000126	0.00100	1	10/09/2023 09:32	WG2147193
1,1-Dichloroethane	U		0.000100	0.00100	1	10/09/2023 09:32	WG2147193
1,2-Dichloroethane	0.000237	J	0.0000819	0.00100	1	10/09/2023 09:32	WG2147193
1,1-Dichloroethene	U		0.000188	0.00100	1	10/09/2023 09:32	WG2147193
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/09/2023 09:32	WG2147193
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/09/2023 09:32	WG2147193
1,2-Dichloropropane	U		0.000149	0.00100	1	10/09/2023 09:32	WG2147193
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	10/09/2023 09:32	WG2147193
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/09/2023 09:32	WG2147193
Ethylbenzene	U		0.000137	0.00100	1	10/09/2023 09:32	WG2147193
Isopropylbenzene	U		0.000105	0.00100	1	10/09/2023 09:32	WG2147193
p-Isopropyltoluene	U		0.000120	0.00100	1	10/09/2023 09:32	WG2147193
2-Butanone (MEK)	U		0.00119	0.0100	1	10/09/2023 09:32	WG2147193
2-Hexanone	U		0.000787	0.0100	1	10/09/2023 09:32	WG2147193
Methylene Chloride	U		0.000430	0.00500	1	10/09/2023 09:32	WG2147193
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/09/2023 09:32	WG2147193

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	U		0.000101	0.00100	1	10/09/2023 09:32	WG2147193
Naphthalene	U		0.00100	0.00500	1	10/09/2023 09:32	WG2147193
n-Propylbenzene	U		0.0000993	0.00100	1	10/09/2023 09:32	WG2147193
Styrene	U		0.000118	0.00100	1	10/09/2023 09:32	WG2147193
tert-Butyl alcohol	U		0.00406	0.00500	1	10/09/2023 09:32	WG2147193
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	10/09/2023 09:32	WG2147193
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/09/2023 09:32	WG2147193
Tetrachloroethene	U		0.000300	0.00100	1	10/09/2023 09:32	WG2147193
Toluene	U		0.000278	0.00100	1	10/09/2023 09:32	WG2147193
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/09/2023 09:32	WG2147193
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/09/2023 09:32	WG2147193
Trichloroethene	U		0.000190	0.00100	1	10/09/2023 09:32	WG2147193
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/09/2023 09:32	WG2147193
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/09/2023 09:32	WG2147193
Vinyl chloride	U		0.000234	0.00100	1	10/09/2023 09:32	WG2147193
o-Xylene	U		0.000174	0.00100	1	10/09/2023 09:32	WG2147193
m&p-Xylene	U		0.000430	0.00200	1	10/09/2023 09:32	WG2147193
Xylenes, Total	U		0.000174	0.00300	1	10/09/2023 09:32	WG2147193
(S) Toluene-d8	*95.9*			*80.0-120*		*10/09/2023 09:32*	WG2147193
(S) 4-Bromofluorobenzene	*92.4*			*77.0-126*		*10/09/2023 09:32*	WG2147193
(S) 1,2-Dichloroethane-d4	*96.1*			*70.0-130*		*10/09/2023 09:32*	WG2147193

EDB / DBCP by Method 8011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Ethylene Dibromide	U		0.00000552	0.0000206	1.03	10/12/2023 01:25	WG2148935

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	0.000375	J	0.0000447	0.000400	1	10/06/2023 16:16	WG2145905
(S) Nitrobenzene-d5	*22.4*			*10.0-120*		*10/06/2023 16:16*	WG2145905

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3330		50.0	1	10/09/2023 12:57	WG2147656

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	293		3.79	10.0	10	10/06/2023 04:48	WG2145803
Fluoride	1.86		0.640	1.50	10	10/06/2023 04:48	WG2145803
Nitrate	0.788	J	0.480	1.00	10	10/06/2023 04:48	WG2145803
Nitrite	U		0.420	1.00	10	10/06/2023 04:48	WG2145803
Sulfate	1900		5.94	50.0	10	10/06/2023 04:48	WG2145803

Sample Narrative:

L1663141-23 WG2145803: Dilution due to matrix.

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	10/10/2023 13:50	WG2146007

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	0.821		0.0200	0.200	1	10/11/2023 22:38	WG2146855

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00524		0.000180	0.00200	1	10/19/2023 16:58	WG2146870
Barium	0.0111		0.000381	0.00200	1	10/19/2023 16:58	WG2146870
Cadmium	U		0.000150	0.00100	1	10/19/2023 16:58	WG2146870
Calcium	440		0.0936	1.00	1	10/19/2023 16:58	WG2146870
Chromium	U		0.00124	0.00200	1	10/19/2023 16:58	WG2146870
Cobalt	0.00157	J	0.0000596	0.00200	1	10/19/2023 16:58	WG2146870
Iron	0.0848	B J	0.0281	0.100	1	10/19/2023 16:58	WG2146870
Lead	U		0.000849	0.00200	1	10/19/2023 16:58	WG2146870
Manganese	0.165		0.000704	0.00500	1	10/19/2023 16:58	WG2146870
Nickel	0.00600		0.000816	0.00200	1	10/19/2023 16:58	WG2146870
Potassium	0.492	J	0.108	2.00	1	10/19/2023 16:58	WG2146870
Selenium	0.00226		0.000300	0.00200	1	10/19/2023 16:58	WG2146870
Sodium	268		0.376	2.00	1	10/19/2023 16:58	WG2146870
Uranium	0.0522		0.0000789	0.00100	1	10/19/2023 16:58	WG2146870
Vanadium	0.0268		0.000664	0.00500	1	10/19/2023 16:58	WG2146870

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	0.0609	B J	0.0314	0.100	1	10/10/2023 02:51	WG2148109
(S) a,a,a-Trifluorotoluene(FID)	*109*			*78.0-120*		*10/10/2023 02:51*	WG2148109

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	10/09/2023 09:53	WG2147193
Benzene	U		0.0000941	0.00100	1	10/09/2023 09:53	WG2147193
Bromodichloromethane	U		0.000136	0.00100	1	10/09/2023 09:53	WG2147193
Bromoform	U		0.000129	0.00100	1	10/09/2023 09:53	WG2147193
Bromomethane	U		0.000605	0.00500	1	10/09/2023 09:53	WG2147193
n-Butylbenzene	U		0.000157	0.00100	1	10/09/2023 09:53	WG2147193
sec-Butylbenzene	U		0.000125	0.00100	1	10/09/2023 09:53	WG2147193
Carbon disulfide	U		0.0000962	0.00100	1	10/09/2023 09:53	WG2147193
Carbon tetrachloride	U		0.000128	0.00100	1	10/09/2023 09:53	WG2147193
Chlorobenzene	U		0.000116	0.00100	1	10/09/2023 09:53	WG2147193
Chlorodibromomethane	U		0.000140	0.00100	1	10/09/2023 09:53	WG2147193
Chloroethane	U		0.000192	0.00500	1	10/09/2023 09:53	WG2147193
Chloroform	U		0.000111	0.00500	1	10/09/2023 09:53	WG2147193
Chloromethane	U		0.000960	0.00250	1	10/09/2023 09:53	WG2147193
1,2-Dibromoethane	U		0.000126	0.00100	1	10/09/2023 09:53	WG2147193
1,1-Dichloroethane	U		0.000100	0.00100	1	10/09/2023 09:53	WG2147193
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/09/2023 09:53	WG2147193
1,1-Dichloroethene	U		0.000188	0.00100	1	10/09/2023 09:53	WG2147193
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/09/2023 09:53	WG2147193
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/09/2023 09:53	WG2147193
1,2-Dichloropropane	U		0.000149	0.00100	1	10/09/2023 09:53	WG2147193
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	10/09/2023 09:53	WG2147193
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/09/2023 09:53	WG2147193
Ethylbenzene	U		0.000137	0.00100	1	10/09/2023 09:53	WG2147193
Isopropylbenzene	U		0.000105	0.00100	1	10/09/2023 09:53	WG2147193
p-Isopropyltoluene	U		0.000120	0.00100	1	10/09/2023 09:53	WG2147193
2-Butanone (MEK)	U		0.00119	0.0100	1	10/09/2023 09:53	WG2147193
2-Hexanone	U		0.000787	0.0100	1	10/09/2023 09:53	WG2147193
Methylene Chloride	U		0.000430	0.00500	1	10/09/2023 09:53	WG2147193
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/09/2023 09:53	WG2147193
Methyl tert-butyl ether	0.0220		0.000101	0.00100	1	10/09/2023 09:53	WG2147193
Naphthalene	U		0.00100	0.00500	1	10/09/2023 09:53	WG2147193
n-Propylbenzene	U		0.0000993	0.00100	1	10/09/2023 09:53	WG2147193
Styrene	U		0.000118	0.00100	1	10/09/2023 09:53	WG2147193
tert-Butyl alcohol	U		0.00406	0.00500	1	10/09/2023 09:53	WG2147193
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	10/09/2023 09:53	WG2147193
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/09/2023 09:53	WG2147193
Tetrachloroethene	U		0.000300	0.00100	1	10/09/2023 09:53	WG2147193
Toluene	U		0.000278	0.00100	1	10/09/2023 09:53	WG2147193
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/09/2023 09:53	WG2147193
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/09/2023 09:53	WG2147193
Trichloroethene	U		0.000190	0.00100	1	10/09/2023 09:53	WG2147193
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/09/2023 09:53	WG2147193
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/09/2023 09:53	WG2147193
Vinyl chloride	U		0.000234	0.00100	1	10/09/2023 09:53	WG2147193
o-Xylene	U		0.000174	0.00100	1	10/09/2023 09:53	WG2147193
m&p-Xylene	U		0.000430	0.00200	1	10/09/2023 09:53	WG2147193
Xylenes, Total	U		0.000174	0.00300	1	10/09/2023 09:53	WG2147193
(S) Toluene-d8	*97.1*			*80.0-120*		*10/09/2023 09:53*	WG2147193
(S) 4-Bromofluorobenzene	*94.2*			*77.0-126*		*10/09/2023 09:53*	WG2147193
(S) 1,2-Dichloroethane-d4	*94.9*			*70.0-130*		*10/09/2023 09:53*	WG2147193

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	0.811		0.0247	0.100	1	10/14/2023 03:19	WG2149782

MW-113
Collected date/time: 10/04/23 11:35
L1663141

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	*120*			*31.0-160*		*10/14/2023 03:19*	WG2149782

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2800		50.0	1	10/09/2023 12:14	WG2147703

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	300		3.79	10.0	10	10/06/2023 03:21	WG2145796
Fluoride	2.29		0.640	1.50	10	10/06/2023 03:21	WG2145796
Nitrate	U		0.480	1.00	10	10/06/2023 03:21	WG2145796
Nitrite	0.684	J	0.420	1.00	10	10/06/2023 03:21	WG2145796
Sulfate	1320		5.94	50.0	10	10/06/2023 03:21	WG2145796

Sample Narrative:

L1663141-24 WG2145796: Dilution due to matrix.

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	10/10/2023 13:53	WG2146007

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	0.138	J	0.0200	0.200	1	10/11/2023 22:42	WG2146855

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	10/19/2023 17:01	WG2146870
Barium	0.0146		0.000381	0.00200	1	10/19/2023 17:01	WG2146870
Cadmium	U		0.000150	0.00100	1	10/19/2023 17:01	WG2146870
Calcium	471		0.0936	1.00	1	10/19/2023 17:01	WG2146870
Chromium	U		0.00124	0.00200	1	10/19/2023 17:01	WG2146870
Cobalt	0.00180	J	0.0000596	0.00200	1	10/19/2023 17:01	WG2146870
Iron	U		0.0281	0.100	1	10/19/2023 17:01	WG2146870
Lead	U		0.000849	0.00200	1	10/19/2023 17:01	WG2146870
Manganese	0.358		0.000704	0.00500	1	10/19/2023 17:01	WG2146870
Nickel	0.00474		0.000816	0.00200	1	10/19/2023 17:01	WG2146870
Potassium	2.13		0.108	2.00	1	10/19/2023 17:01	WG2146870
Selenium	0.00175	J	0.000300	0.00200	1	10/19/2023 17:01	WG2146870
Sodium	169		0.376	2.00	1	10/19/2023 17:01	WG2146870
Uranium	0.00457		0.0000789	0.00100	1	10/19/2023 17:01	WG2146870
Vanadium	0.00995		0.000664	0.00500	1	10/19/2023 17:01	WG2146870

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	0.0417	B J	0.0314	0.100	1	10/10/2023 03:13	WG2148109
(S) a,a,a-Trifluorotoluene(FID)	*110*			*78.0-120*		*10/10/2023 03:13*	WG2148109

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	10/09/2023 10:14	WG2147193
Benzene	U		0.0000941	0.00100	1	10/09/2023 10:14	WG2147193
Bromodichloromethane	U		0.000136	0.00100	1	10/09/2023 10:14	WG2147193
Bromoform	U		0.000129	0.00100	1	10/09/2023 10:14	WG2147193
Bromomethane	U		0.000605	0.00500	1	10/09/2023 10:14	WG2147193
n-Butylbenzene	U		0.000157	0.00100	1	10/09/2023 10:14	WG2147193
sec-Butylbenzene	0.000448	J	0.000125	0.00100	1	10/09/2023 10:14	WG2147193
Carbon disulfide	U		0.0000962	0.00100	1	10/09/2023 10:14	WG2147193
Carbon tetrachloride	U		0.000128	0.00100	1	10/09/2023 10:14	WG2147193
Chlorobenzene	U		0.000116	0.00100	1	10/09/2023 10:14	WG2147193
Chlorodibromomethane	U		0.000140	0.00100	1	10/09/2023 10:14	WG2147193
Chloroethane	U		0.000192	0.00500	1	10/09/2023 10:14	WG2147193
Chloroform	U		0.000111	0.00500	1	10/09/2023 10:14	WG2147193
Chloromethane	U		0.000960	0.00250	1	10/09/2023 10:14	WG2147193
1,2-Dibromoethane	U		0.000126	0.00100	1	10/09/2023 10:14	WG2147193
1,1-Dichloroethane	U		0.000100	0.00100	1	10/09/2023 10:14	WG2147193
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/09/2023 10:14	WG2147193
1,1-Dichloroethene	U		0.000188	0.00100	1	10/09/2023 10:14	WG2147193
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/09/2023 10:14	WG2147193
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/09/2023 10:14	WG2147193
1,2-Dichloropropane	U		0.000149	0.00100	1	10/09/2023 10:14	WG2147193
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	10/09/2023 10:14	WG2147193
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/09/2023 10:14	WG2147193
Ethylbenzene	U		0.000137	0.00100	1	10/09/2023 10:14	WG2147193
Isopropylbenzene	U		0.000105	0.00100	1	10/09/2023 10:14	WG2147193
p-Isopropyltoluene	U		0.000120	0.00100	1	10/09/2023 10:14	WG2147193
2-Butanone (MEK)	U		0.00119	0.0100	1	10/09/2023 10:14	WG2147193
2-Hexanone	U		0.000787	0.0100	1	10/09/2023 10:14	WG2147193
Methylene Chloride	U		0.000430	0.00500	1	10/09/2023 10:14	WG2147193
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/09/2023 10:14	WG2147193
Methyl tert-butyl ether	0.0141		0.000101	0.00100	1	10/09/2023 10:14	WG2147193
Naphthalene	U		0.00100	0.00500	1	10/09/2023 10:14	WG2147193
n-Propylbenzene	U		0.0000993	0.00100	1	10/09/2023 10:14	WG2147193
Styrene	U		0.000118	0.00100	1	10/09/2023 10:14	WG2147193
tert-Butyl alcohol	U		0.00406	0.00500	1	10/09/2023 10:14	WG2147193
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	10/09/2023 10:14	WG2147193
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/09/2023 10:14	WG2147193
Tetrachloroethene	U		0.000300	0.00100	1	10/09/2023 10:14	WG2147193
Toluene	U		0.000278	0.00100	1	10/09/2023 10:14	WG2147193
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/09/2023 10:14	WG2147193
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/09/2023 10:14	WG2147193
Trichloroethene	U		0.000190	0.00100	1	10/09/2023 10:14	WG2147193
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/09/2023 10:14	WG2147193
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/09/2023 10:14	WG2147193
Vinyl chloride	U		0.000234	0.00100	1	10/09/2023 10:14	WG2147193
o-Xylene	U		0.000174	0.00100	1	10/09/2023 10:14	WG2147193
m&p-Xylene	U		0.000430	0.00200	1	10/09/2023 10:14	WG2147193
Xylenes, Total	U		0.000174	0.00300	1	10/09/2023 10:14	WG2147193
(S) Toluene-d8	*93.8*			*80.0-120*		*10/09/2023 10:14*	WG2147193
(S) 4-Bromofluorobenzene	*92.9*			*77.0-126*		*10/09/2023 10:14*	WG2147193
(S) 1,2-Dichloroethane-d4	*93.0*			*70.0-130*		*10/09/2023 10:14*	WG2147193

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	0.773		0.0247	0.100	1	10/14/2023 10:26	WG2149782

MW-114
Collected date/time: 10/04/23 12:20
L1663141

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	*133*			*31.0-160*		*10/14/2023 10:26*	WG2149782

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	10/09/2023 15:31	WG2147682

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	241		3.79	10.0	10	10/06/2023 03:47	WG2145796
Fluoride	1.14	J	0.640	1.50	10	10/06/2023 03:47	WG2145796
Nitrate	U		0.480	1.00	10	10/06/2023 03:47	WG2145796
Nitrite	0.579	J	0.420	1.00	10	10/06/2023 03:47	WG2145796
Sulfate	2150		59.4	500	100	10/06/2023 03:59	WG2145796

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	10/10/2023 14:00	WG2146007

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	0.475		0.0200	0.200	1	10/11/2023 22:45	WG2146855

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00360		0.000180	0.00200	1	10/19/2023 17:04	WG2146870
Barium	0.00958		0.000381	0.00200	1	10/19/2023 17:04	WG2146870
Cadmium	U		0.000150	0.00100	1	10/19/2023 17:04	WG2146870
Calcium	500		0.0936	1.00	1	10/19/2023 17:04	WG2146870
Chromium	U		0.00124	0.00200	1	10/19/2023 17:04	WG2146870
Cobalt	0.00872		0.0000596	0.00200	1	10/19/2023 17:04	WG2146870
Iron	0.0414	B J	0.0281	0.100	1	10/19/2023 17:04	WG2146870
Lead	U		0.000849	0.00200	1	10/19/2023 17:04	WG2146870
Manganese	0.410		0.000704	0.00500	1	10/19/2023 17:04	WG2146870
Nickel	0.00843		0.000816	0.00200	1	10/19/2023 17:04	WG2146870
Potassium	1.26	J	0.108	2.00	1	10/19/2023 17:04	WG2146870
Selenium	U		0.000300	0.00200	1	10/19/2023 17:04	WG2146870
Sodium	199		0.376	2.00	1	10/19/2023 17:04	WG2146870
Uranium	0.0336		0.0000789	0.00100	1	10/19/2023 17:04	WG2146870
Vanadium	0.0172		0.000664	0.00500	1	10/19/2023 17:04	WG2146870

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	10/10/2023 04:44	WG2148109
(S) a,a,a-Trifluorotoluene(FID)	*109*			*78.0-120*		*10/10/2023 04:44*	WG2148109

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	10/09/2023 10:34	WG2147193
Benzene	U		0.0000941	0.00100	1	10/09/2023 10:34	WG2147193
Bromodichloromethane	U		0.000136	0.00100	1	10/09/2023 10:34	WG2147193
Bromoform	U		0.000129	0.00100	1	10/09/2023 10:34	WG2147193
Bromomethane	U		0.000605	0.00500	1	10/09/2023 10:34	WG2147193
n-Butylbenzene	U		0.000157	0.00100	1	10/09/2023 10:34	WG2147193
sec-Butylbenzene	U		0.000125	0.00100	1	10/09/2023 10:34	WG2147193
Carbon disulfide	U		0.0000962	0.00100	1	10/09/2023 10:34	WG2147193
Carbon tetrachloride	U		0.000128	0.00100	1	10/09/2023 10:34	WG2147193
Chlorobenzene	U		0.000116	0.00100	1	10/09/2023 10:34	WG2147193
Chlorodibromomethane	U		0.000140	0.00100	1	10/09/2023 10:34	WG2147193
Chloroethane	U		0.000192	0.00500	1	10/09/2023 10:34	WG2147193
Chloroform	U		0.000111	0.00500	1	10/09/2023 10:34	WG2147193
Chloromethane	U		0.000960	0.00250	1	10/09/2023 10:34	WG2147193
1,2-Dibromoethane	U		0.000126	0.00100	1	10/09/2023 10:34	WG2147193
1,1-Dichloroethane	U		0.000100	0.00100	1	10/09/2023 10:34	WG2147193
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/09/2023 10:34	WG2147193
1,1-Dichloroethene	U		0.000188	0.00100	1	10/09/2023 10:34	WG2147193
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/09/2023 10:34	WG2147193
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/09/2023 10:34	WG2147193
1,2-Dichloropropane	U		0.000149	0.00100	1	10/09/2023 10:34	WG2147193
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	10/09/2023 10:34	WG2147193
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/09/2023 10:34	WG2147193
Ethylbenzene	U		0.000137	0.00100	1	10/09/2023 10:34	WG2147193
Isopropylbenzene	U		0.000105	0.00100	1	10/09/2023 10:34	WG2147193
p-Isopropyltoluene	U		0.000120	0.00100	1	10/09/2023 10:34	WG2147193
2-Butanone (MEK)	U		0.00119	0.0100	1	10/09/2023 10:34	WG2147193
2-Hexanone	U		0.000787	0.0100	1	10/09/2023 10:34	WG2147193
Methylene Chloride	U		0.000430	0.00500	1	10/09/2023 10:34	WG2147193
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/09/2023 10:34	WG2147193
Methyl tert-butyl ether	0.000124	J	0.000101	0.00100	1	10/09/2023 10:34	WG2147193
Naphthalene	U		0.00100	0.00500	1	10/09/2023 10:34	WG2147193
n-Propylbenzene	U		0.0000993	0.00100	1	10/09/2023 10:34	WG2147193
Styrene	U		0.000118	0.00100	1	10/09/2023 10:34	WG2147193
tert-Butyl alcohol	U		0.00406	0.00500	1	10/09/2023 10:34	WG2147193
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	10/09/2023 10:34	WG2147193
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/09/2023 10:34	WG2147193
Tetrachloroethene	U		0.000300	0.00100	1	10/09/2023 10:34	WG2147193
Toluene	U		0.000278	0.00100	1	10/09/2023 10:34	WG2147193
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/09/2023 10:34	WG2147193
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/09/2023 10:34	WG2147193
Trichloroethene	U		0.000190	0.00100	1	10/09/2023 10:34	WG2147193
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/09/2023 10:34	WG2147193
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/09/2023 10:34	WG2147193
Vinyl chloride	U		0.000234	0.00100	1	10/09/2023 10:34	WG2147193
o-Xylene	U		0.000174	0.00100	1	10/09/2023 10:34	WG2147193
m&p-Xylene	U		0.000430	0.00200	1	10/09/2023 10:34	WG2147193
Xylenes, Total	U		0.000174	0.00300	1	10/09/2023 10:34	WG2147193
(S) Toluene-d8	*98.8*			*80.0-120*		*10/09/2023 10:34*	WG2147193
(S) 4-Bromofluorobenzene	*96.2*			*77.0-126*		*10/09/2023 10:34*	WG2147193
(S) 1,2-Dichloroethane-d4	*96.0*			*70.0-130*		*10/09/2023 10:34*	WG2147193

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	10/14/2023 10:46	WG2149782

MW-129
Collected date/time: 10/04/23 13:15
L1663141

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	*120*			*31.0-160*		*10/14/2023 10:46*	WG2149782

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1890		50.0	1	10/09/2023 15:31	WG2147682

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	10/05/2023 23:06	WG2145919
Fluoride	U		0.640	1.50	10	10/05/2023 23:06	WG2145919
Nitrate	0.632	J	0.480	1.00	10	10/05/2023 23:06	WG2145919
Nitrite	U		0.420	1.00	10	10/05/2023 23:06	WG2145919
Sulfate	36.7	J	5.94	50.0	10	10/05/2023 23:06	WG2145919

Sample Narrative:

L1663141-26 WG2145919: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00113	J	0.000180	0.00200	1	10/19/2023 17:08	WG2146870
Barium	0.325		0.00190	0.0100	5	10/20/2023 10:03	WG2146870
Calcium	204		0.0936	1.00	1	10/19/2023 17:08	WG2146870
Chromium	U		0.00124	0.00200	1	10/19/2023 17:08	WG2146870
Iron	0.0327	B J	0.0281	0.100	1	10/19/2023 17:08	WG2146870
Lead	0.00231		0.000849	0.00200	1	10/19/2023 17:08	WG2146870
Manganese	0.200		0.000704	0.00500	1	10/19/2023 17:08	WG2146870
Potassium	0.314	J	0.108	2.00	1	10/19/2023 17:08	WG2146870
Selenium	U		0.000300	0.00200	1	10/19/2023 17:08	WG2146870
Sodium	279		0.376	2.00	1	10/19/2023 17:08	WG2146870

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	24.5		0.628	2.00	20	10/10/2023 07:45	WG2148109
(S) a,a,a-Trifluorotoluene(FID)	*105*			*78.0-120*		*10/10/2023 07:45*	WG2148109

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	10/11/2023 16:01	WG2149272
Benzene	7.02		0.00471	0.0500	50	10/11/2023 16:01	WG2149272
Bromodichloromethane	U		0.00680	0.0500	50	10/11/2023 16:01	WG2149272
Bromoform	U		0.00645	0.0500	50	10/11/2023 16:01	WG2149272
Bromomethane	U		0.0303	0.250	50	10/11/2023 16:01	WG2149272
n-Butylbenzene	U		0.00785	0.0500	50	10/11/2023 16:01	WG2149272
sec-Butylbenzene	U		0.00625	0.0500	50	10/11/2023 16:01	WG2149272
Carbon disulfide	U		0.00481	0.0500	50	10/11/2023 16:01	WG2149272
Carbon tetrachloride	U		0.00640	0.0500	50	10/11/2023 16:01	WG2149272
Chlorobenzene	U		0.00580	0.0500	50	10/11/2023 16:01	WG2149272
Chlorodibromomethane	U		0.00700	0.0500	50	10/11/2023 16:01	WG2149272
Chloroethane	U		0.00960	0.250	50	10/11/2023 16:01	WG2149272
Chloroform	U		0.00555	0.250	50	10/11/2023 16:01	WG2149272
Chloromethane	U		0.0480	0.125	50	10/11/2023 16:01	WG2149272
1,2-Dibromoethane	U		0.00630	0.0500	50	10/11/2023 16:01	WG2149272
1,1-Dichloroethane	U		0.00500	0.0500	50	10/11/2023 16:01	WG2149272

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	10/11/2023 16:01	WG2149272
1,1-Dichloroethene	U		0.00940	0.0500	50	10/11/2023 16:01	WG2149272
cis-1,2-Dichloroethene	U		0.00630	0.0500	50	10/11/2023 16:01	WG2149272
trans-1,2-Dichloroethene	U		0.00745	0.0500	50	10/11/2023 16:01	WG2149272
1,2-Dichloropropane	U		0.00745	0.0500	50	10/11/2023 16:01	WG2149272
cis-1,3-Dichloropropene	U		0.00555	0.0500	50	10/11/2023 16:01	WG2149272
trans-1,3-Dichloropropene	U		0.00590	0.0500	50	10/11/2023 16:01	WG2149272
Ethylbenzene	2.21		0.00685	0.0500	50	10/11/2023 16:01	WG2149272
Isopropylbenzene	0.138		0.00525	0.0500	50	10/11/2023 16:01	WG2149272
p-Isopropyltoluene	U		0.00600	0.0500	50	10/11/2023 16:01	WG2149272
2-Butanone (MEK)	U		0.0595	0.500	50	10/11/2023 16:01	WG2149272
2-Hexanone	U		0.0394	0.500	50	10/11/2023 16:01	WG2149272
Methylene Chloride	U		0.0215	0.250	50	10/11/2023 16:01	WG2149272
4-Methyl-2-pentanone (MIBK)	U		0.0239	0.500	50	10/11/2023 16:01	WG2149272
Methyl tert-butyl ether	0.0431	J	0.00505	0.0500	50	10/11/2023 16:01	WG2149272
Naphthalene	0.182	J J4	0.0500	0.250	50	10/11/2023 16:01	WG2149272
n-Propylbenzene	0.248		0.00497	0.0500	50	10/11/2023 16:01	WG2149272
Styrene	U		0.00590	0.0500	50	10/11/2023 16:01	WG2149272
tert-Butyl alcohol	U		0.203	0.250	50	10/11/2023 16:01	WG2149272
1,1,1,2-Tetrachloroethane	U		0.00735	0.0500	50	10/11/2023 16:01	WG2149272
1,1,2,2-Tetrachloroethane	U		0.00665	0.0500	50	10/11/2023 16:01	WG2149272
Tetrachloroethene	U		0.0150	0.0500	50	10/11/2023 16:01	WG2149272
Toluene	0.0633		0.0139	0.0500	50	10/11/2023 16:01	WG2149272
1,1,1-Trichloroethane	U		0.00745	0.0500	50	10/11/2023 16:01	WG2149272
1,1,2-Trichloroethane	U		0.00790	0.0500	50	10/11/2023 16:01	WG2149272
Trichloroethene	U		0.00950	0.0500	50	10/11/2023 16:01	WG2149272
1,2,4-Trimethylbenzene	0.691		0.0161	0.0500	50	10/11/2023 16:01	WG2149272
1,3,5-Trimethylbenzene	U		0.00520	0.0500	50	10/11/2023 16:01	WG2149272
Vinyl chloride	U		0.0117	0.0500	50	10/11/2023 16:01	WG2149272
o-Xylene	U		0.00870	0.0500	50	10/11/2023 16:01	WG2149272
m&p-Xylene	0.826		0.0215	0.100	50	10/11/2023 16:01	WG2149272
Xylenes, Total	0.826		0.00870	0.150	50	10/11/2023 16:01	WG2149272
(S) Toluene-d8	*105*			*80.0-120*		*10/11/2023 16:01*	WG2149272
(S) 4-Bromofluorobenzene	*102*			*77.0-126*		*10/11/2023 16:01*	WG2149272
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*10/11/2023 16:01*	WG2149272

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	3.88		0.0247	0.100	1	10/14/2023 11:06	WG2149782
(S) o-Terphenyl	*124*			*31.0-160*		*10/14/2023 11:06*	WG2149782

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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	10/09/2023 19:53	WG2146109

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	0.581	J	0.379	1.00	1	10/05/2023 23:21	WG2145919
Fluoride	U		0.0640	0.150	1	10/05/2023 23:21	WG2145919
Nitrate	0.0539	J	0.0480	0.100	1	10/05/2023 23:21	WG2145919
Nitrite	U		0.0420	0.100	1	10/05/2023 23:21	WG2145919
Sulfate	U		0.594	5.00	1	10/05/2023 23:21	WG2145919

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	10/19/2023 17:11	WG2146870
Barium	0.000497	J	0.000381	0.00200	1	10/19/2023 17:11	WG2146870
Calcium	0.204	J	0.0936	1.00	1	10/19/2023 17:11	WG2146870
Chromium	U		0.00124	0.00200	1	10/19/2023 17:11	WG2146870
Iron	U		0.0281	0.100	1	10/19/2023 17:11	WG2146870
Lead	U		0.000849	0.00200	1	10/19/2023 17:11	WG2146870
Manganese	U		0.000704	0.00500	1	10/19/2023 17:11	WG2146870
Potassium	U		0.108	2.00	1	10/19/2023 17:11	WG2146870
Selenium	U		0.000300	0.00200	1	10/19/2023 17:11	WG2146870
Sodium	U		0.376	2.00	1	10/19/2023 17:11	WG2146870

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	10/10/2023 00:13	WG2148109
(S) a,a,a-Trifluorotoluene(FID)	*110*			*78.0-120*		*10/10/2023 00:13*	WG2148109

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	10/09/2023 07:49	WG2147193
Benzene	U		0.0000941	0.00100	1	10/09/2023 07:49	WG2147193
Bromodichloromethane	U		0.000136	0.00100	1	10/09/2023 07:49	WG2147193
Bromoform	U		0.000129	0.00100	1	10/09/2023 07:49	WG2147193
Bromomethane	0.00236	B J	0.000605	0.00500	1	10/09/2023 07:49	WG2147193
n-Butylbenzene	U		0.000157	0.00100	1	10/09/2023 07:49	WG2147193
sec-Butylbenzene	U		0.000125	0.00100	1	10/09/2023 07:49	WG2147193
Carbon disulfide	U		0.0000962	0.00100	1	10/09/2023 07:49	WG2147193
Carbon tetrachloride	U		0.000128	0.00100	1	10/09/2023 07:49	WG2147193
Chlorobenzene	U		0.000116	0.00100	1	10/09/2023 07:49	WG2147193
Chlorodibromomethane	U		0.000140	0.00100	1	10/09/2023 07:49	WG2147193
Chloroethane	U		0.000192	0.00500	1	10/09/2023 07:49	WG2147193
Chloroform	0.000388	J	0.000111	0.00500	1	10/09/2023 07:49	WG2147193
Chloromethane	U		0.000960	0.00250	1	10/09/2023 07:49	WG2147193
1,2-Dibromoethane	U		0.000126	0.00100	1	10/09/2023 07:49	WG2147193
1,1-Dichloroethane	U		0.000100	0.00100	1	10/09/2023 07:49	WG2147193
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/09/2023 07:49	WG2147193
1,1-Dichloroethene	U		0.000188	0.00100	1	10/09/2023 07:49	WG2147193
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/09/2023 07:49	WG2147193

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Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/09/2023 07:49	WG2147193
1,2-Dichloropropane	U		0.000149	0.00100	1	10/09/2023 07:49	WG2147193
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	10/09/2023 07:49	WG2147193
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/09/2023 07:49	WG2147193
Ethylbenzene	U		0.000137	0.00100	1	10/09/2023 07:49	WG2147193
Isopropylbenzene	U		0.000105	0.00100	1	10/09/2023 07:49	WG2147193
p-Isopropyltoluene	U		0.000120	0.00100	1	10/09/2023 07:49	WG2147193
2-Butanone (MEK)	U		0.00119	0.0100	1	10/09/2023 07:49	WG2147193
2-Hexanone	U		0.000787	0.0100	1	10/09/2023 07:49	WG2147193
Methylene Chloride	U		0.000430	0.00500	1	10/09/2023 07:49	WG2147193
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/09/2023 07:49	WG2147193
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/09/2023 07:49	WG2147193
Naphthalene	U		0.00100	0.00500	1	10/09/2023 07:49	WG2147193
n-Propylbenzene	U		0.0000993	0.00100	1	10/09/2023 07:49	WG2147193
Styrene	U		0.000118	0.00100	1	10/09/2023 07:49	WG2147193
tert-Butyl alcohol	U		0.00406	0.00500	1	10/09/2023 07:49	WG2147193
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	10/09/2023 07:49	WG2147193
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/09/2023 07:49	WG2147193
Tetrachloroethene	U		0.000300	0.00100	1	10/09/2023 07:49	WG2147193
Toluene	U		0.000278	0.00100	1	10/09/2023 07:49	WG2147193
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/09/2023 07:49	WG2147193
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/09/2023 07:49	WG2147193
Trichloroethene	U		0.000190	0.00100	1	10/09/2023 07:49	WG2147193
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/09/2023 07:49	WG2147193
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/09/2023 07:49	WG2147193
Vinyl chloride	U		0.000234	0.00100	1	10/09/2023 07:49	WG2147193
o-Xylene	U		0.000174	0.00100	1	10/09/2023 07:49	WG2147193
m&p-Xylene	U		0.000430	0.00200	1	10/09/2023 07:49	WG2147193
Xylenes, Total	U		0.000174	0.00300	1	10/09/2023 07:49	WG2147193
(S) Toluene-d8	*95.1*			*80.0-120*		*10/09/2023 07:49*	WG2147193
(S) 4-Bromofluorobenzene	*95.5*			*77.0-126*		*10/09/2023 07:49*	WG2147193
(S) 1,2-Dichloroethane-d4	*96.4*			*70.0-130*		*10/09/2023 07:49*	WG2147193

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	10/14/2023 11:27	WG2149782
(S) o-Terphenyl	*123*			*31.0-160*		*10/14/2023 11:27*	WG2149782

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2990		50.0	1	10/09/2023 12:57	WG2147656

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	322		3.79	10.0	10	10/06/2023 04:12	WG2145796
Fluoride	3.09		0.640	1.50	10	10/06/2023 04:12	WG2145796
Nitrate	3.59		0.480	1.00	10	10/06/2023 04:12	WG2145796
Nitrite	0.739	J	0.420	1.00	10	10/06/2023 04:12	WG2145796
Sulfate	1660		5.94	50.0	10	10/06/2023 04:12	WG2145796

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	10/10/2023 14:02	WG2146007

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	0.421		0.0200	0.200	1	10/11/2023 22:48	WG2146855

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00289		0.000180	0.00200	1	10/18/2023 20:08	WG2146871
Barium	0.0101		0.000381	0.00200	1	10/18/2023 20:08	WG2146871
Cadmium	U		0.000150	0.00100	1	10/18/2023 20:08	WG2146871
Calcium	505		0.0936	1.00	1	10/18/2023 20:08	WG2146871
Chromium	U		0.00124	0.00200	1	10/18/2023 20:08	WG2146871
Cobalt	0.00109	J	0.0000596	0.00200	1	10/18/2023 20:08	WG2146871
Iron	U		0.0281	0.100	1	10/18/2023 20:08	WG2146871
Lead	U		0.000849	0.00200	1	10/18/2023 20:08	WG2146871
Manganese	0.00652		0.000704	0.00500	1	10/18/2023 20:08	WG2146871
Nickel	0.00367		0.000816	0.00200	1	10/18/2023 20:08	WG2146871
Potassium	5.51		0.108	2.00	1	10/18/2023 20:08	WG2146871
Selenium	0.00472		0.000300	0.00200	1	10/18/2023 20:08	WG2146871
Sodium	169		0.376	2.00	1	10/18/2023 20:08	WG2146871
Uranium	0.0115		0.0000789	0.00100	1	10/18/2023 20:08	WG2146871
Vanadium	0.0150		0.000664	0.00500	1	10/18/2023 20:08	WG2146871

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	0.0607	B J	0.0314	0.100	1	10/10/2023 05:07	WG2148109
(S) a,a,a-Trifluorotoluene(FID)	*109*			*78.0-120*		*10/10/2023 05:07*	WG2148109

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	10/09/2023 10:55	WG2147193
Benzene	U		0.0000941	0.00100	1	10/09/2023 10:55	WG2147193
Bromodichloromethane	U		0.000136	0.00100	1	10/09/2023 10:55	WG2147193
Bromoform	U		0.000129	0.00100	1	10/09/2023 10:55	WG2147193
Bromomethane	U		0.000605	0.00500	1	10/09/2023 10:55	WG2147193
n-Butylbenzene	U		0.000157	0.00100	1	10/09/2023 10:55	WG2147193
sec-Butylbenzene	U		0.000125	0.00100	1	10/09/2023 10:55	WG2147193
Carbon disulfide	U		0.0000962	0.00100	1	10/09/2023 10:55	WG2147193
Carbon tetrachloride	U		0.000128	0.00100	1	10/09/2023 10:55	WG2147193
Chlorobenzene	U		0.000116	0.00100	1	10/09/2023 10:55	WG2147193
Chlorodibromomethane	U		0.000140	0.00100	1	10/09/2023 10:55	WG2147193
Chloroethane	U		0.000192	0.00500	1	10/09/2023 10:55	WG2147193
Chloroform	U		0.000111	0.00500	1	10/09/2023 10:55	WG2147193
Chloromethane	U		0.000960	0.00250	1	10/09/2023 10:55	WG2147193
1,2-Dibromoethane	U		0.000126	0.00100	1	10/09/2023 10:55	WG2147193
1,1-Dichloroethane	U		0.000100	0.00100	1	10/09/2023 10:55	WG2147193
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/09/2023 10:55	WG2147193
1,1-Dichloroethene	U		0.000188	0.00100	1	10/09/2023 10:55	WG2147193
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/09/2023 10:55	WG2147193
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/09/2023 10:55	WG2147193
1,2-Dichloropropane	U		0.000149	0.00100	1	10/09/2023 10:55	WG2147193
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	10/09/2023 10:55	WG2147193
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/09/2023 10:55	WG2147193
Ethylbenzene	U		0.000137	0.00100	1	10/09/2023 10:55	WG2147193
Isopropylbenzene	U		0.000105	0.00100	1	10/09/2023 10:55	WG2147193
p-Isopropyltoluene	U		0.000120	0.00100	1	10/09/2023 10:55	WG2147193
2-Butanone (MEK)	U		0.00119	0.0100	1	10/09/2023 10:55	WG2147193
2-Hexanone	U		0.000787	0.0100	1	10/09/2023 10:55	WG2147193
Methylene Chloride	U		0.000430	0.00500	1	10/09/2023 10:55	WG2147193
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/09/2023 10:55	WG2147193
Methyl tert-butyl ether	0.0246		0.000101	0.00100	1	10/09/2023 10:55	WG2147193
Naphthalene	U		0.00100	0.00500	1	10/09/2023 10:55	WG2147193
n-Propylbenzene	U		0.0000993	0.00100	1	10/09/2023 10:55	WG2147193
Styrene	U		0.000118	0.00100	1	10/09/2023 10:55	WG2147193
tert-Butyl alcohol	U		0.00406	0.00500	1	10/09/2023 10:55	WG2147193
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	10/09/2023 10:55	WG2147193
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/09/2023 10:55	WG2147193
Tetrachloroethene	U		0.000300	0.00100	1	10/09/2023 10:55	WG2147193
Toluene	U		0.000278	0.00100	1	10/09/2023 10:55	WG2147193
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/09/2023 10:55	WG2147193
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/09/2023 10:55	WG2147193
Trichloroethene	U		0.000190	0.00100	1	10/09/2023 10:55	WG2147193
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/09/2023 10:55	WG2147193
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/09/2023 10:55	WG2147193
Vinyl chloride	U		0.000234	0.00100	1	10/09/2023 10:55	WG2147193
o-Xylene	U		0.000174	0.00100	1	10/09/2023 10:55	WG2147193
m&p-Xylene	U		0.000430	0.00200	1	10/09/2023 10:55	WG2147193
Xylenes, Total	U		0.000174	0.00300	1	10/09/2023 10:55	WG2147193
(S) Toluene-d8	*95.8*			*80.0-120*		*10/09/2023 10:55*	WG2147193
(S) 4-Bromofluorobenzene	*91.8*			*77.0-126*		*10/09/2023 10:55*	WG2147193
(S) 1,2-Dichloroethane-d4	*96.1*			*70.0-130*		*10/09/2023 10:55*	WG2147193

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	0.325		0.0247	0.100	1	10/14/2023 11:47	WG2149782

MW-117
Collected date/time: 10/04/23 13:55
L1663141

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	*126*			*31.0-160*		*10/14/2023 11:47*	WG2149782

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	4820		50.0	1	10/10/2023 00:37	WG2147745

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	246		3.79	10.0	10	10/06/2023 04:37	WG2145796
Fluoride	4.36		0.640	1.50	10	10/06/2023 04:37	WG2145796
Nitrate	5.72		0.480	1.00	10	10/06/2023 04:37	WG2145796
Nitrite	0.610	J	0.420	1.00	10	10/06/2023 04:37	WG2145796
Sulfate	2690		59.4	500	100	10/06/2023 05:15	WG2145796

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	10/10/2023 14:04	WG2146007

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Boron	0.776		0.0200	0.200	1	10/11/2023 22:52	WG2146855

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00587		0.000180	0.00200	1	10/18/2023 20:11	WG2146871
Barium	0.0115		0.000381	0.00200	1	10/18/2023 20:11	WG2146871
Cadmium	U		0.000150	0.00100	1	10/18/2023 20:11	WG2146871
Calcium	574		0.0936	1.00	1	10/18/2023 20:11	WG2146871
Chromium	U		0.00124	0.00200	1	10/18/2023 20:11	WG2146871
Cobalt	0.000290	J	0.0000596	0.00200	1	10/18/2023 20:11	WG2146871
Iron	0.121		0.0281	0.100	1	10/18/2023 20:11	WG2146871
Lead	U		0.000849	0.00200	1	10/18/2023 20:11	WG2146871
Manganese	0.0145		0.000704	0.00500	1	10/18/2023 20:11	WG2146871
Nickel	0.00220		0.000816	0.00200	1	10/18/2023 20:11	WG2146871
Potassium	2.18		0.108	2.00	1	10/18/2023 20:11	WG2146871
Selenium	0.0162		0.000300	0.00200	1	10/18/2023 20:11	WG2146871
Sodium	185		0.376	2.00	1	10/18/2023 20:11	WG2146871
Uranium	0.0526		0.0000789	0.00100	1	10/18/2023 20:11	WG2146871
Vanadium	0.0328		0.000664	0.00500	1	10/18/2023 20:11	WG2146871

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	10/10/2023 05:29	WG2148109
(S) a,a,a-Trifluorotoluene(FID)	*109*			*78.0-120*		*10/10/2023 05:29*	WG2148109

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	10/08/2023 04:07	WG2147194
Benzene	U		0.0000941	0.00100	1	10/08/2023 04:07	WG2147194
Bromodichloromethane	U		0.000136	0.00100	1	10/08/2023 04:07	WG2147194
Bromoform	U		0.000129	0.00100	1	10/08/2023 04:07	WG2147194
Bromomethane	U		0.000605	0.00500	1	10/08/2023 04:07	WG2147194
n-Butylbenzene	U		0.000157	0.00100	1	10/08/2023 04:07	WG2147194
sec-Butylbenzene	U		0.000125	0.00100	1	10/08/2023 04:07	WG2147194
Carbon disulfide	U		0.0000962	0.00100	1	10/08/2023 04:07	WG2147194
Carbon tetrachloride	U		0.000128	0.00100	1	10/08/2023 04:07	WG2147194
Chlorobenzene	U		0.000116	0.00100	1	10/08/2023 04:07	WG2147194
Chlorodibromomethane	U		0.000140	0.00100	1	10/08/2023 04:07	WG2147194
Chloroethane	U		0.000192	0.00500	1	10/08/2023 04:07	WG2147194
Chloroform	U		0.000111	0.00500	1	10/08/2023 04:07	WG2147194
Chloromethane	U	J4	0.000960	0.00250	1	10/08/2023 04:07	WG2147194
1,2-Dibromoethane	U		0.000126	0.00100	1	10/08/2023 04:07	WG2147194
1,1-Dichloroethane	U		0.000100	0.00100	1	10/08/2023 04:07	WG2147194
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/08/2023 04:07	WG2147194
1,1-Dichloroethene	U		0.000188	0.00100	1	10/08/2023 04:07	WG2147194
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/08/2023 04:07	WG2147194
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/08/2023 04:07	WG2147194
1,2-Dichloropropane	U		0.000149	0.00100	1	10/08/2023 04:07	WG2147194
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	10/08/2023 04:07	WG2147194
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/08/2023 04:07	WG2147194
Ethylbenzene	U		0.000137	0.00100	1	10/08/2023 04:07	WG2147194
Isopropylbenzene	U		0.000105	0.00100	1	10/08/2023 04:07	WG2147194
p-Isopropyltoluene	U		0.000120	0.00100	1	10/08/2023 04:07	WG2147194
2-Butanone (MEK)	U		0.00119	0.0100	1	10/08/2023 04:07	WG2147194
2-Hexanone	U		0.000787	0.0100	1	10/08/2023 04:07	WG2147194
Methylene Chloride	U		0.000430	0.00500	1	10/08/2023 04:07	WG2147194
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/08/2023 04:07	WG2147194
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/08/2023 04:07	WG2147194
Naphthalene	U		0.00100	0.00500	1	10/08/2023 04:07	WG2147194
n-Propylbenzene	U		0.0000993	0.00100	1	10/08/2023 04:07	WG2147194
Styrene	U		0.000118	0.00100	1	10/08/2023 04:07	WG2147194
tert-Butyl alcohol	U		0.00406	0.00500	1	10/08/2023 04:07	WG2147194
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	10/08/2023 04:07	WG2147194
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/08/2023 04:07	WG2147194
Tetrachloroethene	U		0.000300	0.00100	1	10/08/2023 04:07	WG2147194
Toluene	U		0.000278	0.00100	1	10/08/2023 04:07	WG2147194
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/08/2023 04:07	WG2147194
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/08/2023 04:07	WG2147194
Trichloroethene	U		0.000190	0.00100	1	10/08/2023 04:07	WG2147194
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/08/2023 04:07	WG2147194
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/08/2023 04:07	WG2147194
Vinyl chloride	U		0.000234	0.00100	1	10/08/2023 04:07	WG2147194
o-Xylene	U		0.000174	0.00100	1	10/08/2023 04:07	WG2147194
m&p-Xylene	U		0.000430	0.00200	1	10/08/2023 04:07	WG2147194
Xylenes, Total	U		0.000174	0.00300	1	10/08/2023 04:07	WG2147194
(S) Toluene-d8	*115*			*80.0-120*		*10/08/2023 04:07*	WG2147194
(S) 4-Bromofluorobenzene	*86.8*			*77.0-126*		*10/08/2023 04:07*	WG2147194
(S) 1,2-Dichloroethane-d4	*95.4*			*70.0-130*		*10/08/2023 04:07*	WG2147194

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	0.0313	J	0.0247	0.100	1	10/14/2023 12:07	WG2149782

MW-11S
Collected date/time: 10/04/23 13:25
L1663141

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	*124*			*31.0-160*		*10/14/2023 12:07*	WG2149782

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	4110		50.0	1	10/09/2023 12:57	WG2147656

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	270		3.79	10.0	10	10/06/2023 05:27	WG2145796
Fluoride	1.83		0.640	1.50	10	10/06/2023 05:27	WG2145796
Nitrate	U		0.480	1.00	10	10/06/2023 05:27	WG2145796
Nitrite	0.624	J	0.420	1.00	10	10/06/2023 05:27	WG2145796
Sulfate	2250		59.4	500	100	10/06/2023 05:40	WG2145796

Sample Narrative:

L1663141-30 WG2145796: Dilution due to matrix.

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	10/10/2023 14:07	WG2146007

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Boron	0.536		0.0200	0.200	1	10/11/2023 23:01	WG2146855

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00390		0.000180	0.00200	1	10/18/2023 20:14	WG2146871
Barium	0.00898		0.000381	0.00200	1	10/18/2023 20:14	WG2146871
Cadmium	U		0.000150	0.00100	1	10/18/2023 20:14	WG2146871
Calcium	555		0.0936	1.00	1	10/18/2023 20:14	WG2146871
Chromium	U		0.00124	0.00200	1	10/18/2023 20:14	WG2146871
Cobalt	0.0000829	J	0.0000596	0.00200	1	10/18/2023 20:14	WG2146871
Iron	U		0.0281	0.100	1	10/18/2023 20:14	WG2146871
Lead	U		0.000849	0.00200	1	10/18/2023 20:14	WG2146871
Manganese	0.0128		0.000704	0.00500	1	10/18/2023 20:14	WG2146871
Nickel	0.00155	J	0.000816	0.00200	1	10/18/2023 20:14	WG2146871
Potassium	0.741	J	0.108	2.00	1	10/18/2023 20:14	WG2146871
Selenium	0.00429		0.000300	0.00200	1	10/18/2023 20:14	WG2146871
Sodium	175		0.376	2.00	1	10/18/2023 20:14	WG2146871
Uranium	0.0473		0.0000789	0.00100	1	10/18/2023 20:14	WG2146871
Vanadium	0.0181		0.000664	0.00500	1	10/18/2023 20:14	WG2146871

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	10/10/2023 05:51	WG2148109
(S) a,a,a-Trifluorotoluene(FID)	*109*			*78.0-120*		*10/10/2023 05:51*	WG2148109

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	10/08/2023 04:29	WG2147194
Benzene	U		0.0000941	0.00100	1	10/08/2023 04:29	WG2147194
Bromodichloromethane	U		0.000136	0.00100	1	10/08/2023 04:29	WG2147194
Bromoform	U		0.000129	0.00100	1	10/08/2023 04:29	WG2147194
Bromomethane	U		0.000605	0.00500	1	10/08/2023 04:29	WG2147194
n-Butylbenzene	U		0.000157	0.00100	1	10/08/2023 04:29	WG2147194
sec-Butylbenzene	U		0.000125	0.00100	1	10/08/2023 04:29	WG2147194
Carbon disulfide	U		0.0000962	0.00100	1	10/08/2023 04:29	WG2147194
Carbon tetrachloride	U		0.000128	0.00100	1	10/08/2023 04:29	WG2147194
Chlorobenzene	U		0.000116	0.00100	1	10/08/2023 04:29	WG2147194
Chlorodibromomethane	U		0.000140	0.00100	1	10/08/2023 04:29	WG2147194
Chloroethane	U		0.000192	0.00500	1	10/08/2023 04:29	WG2147194
Chloroform	U		0.000111	0.00500	1	10/08/2023 04:29	WG2147194
Chloromethane	U	J4	0.000960	0.00250	1	10/08/2023 04:29	WG2147194
1,2-Dibromoethane	U		0.000126	0.00100	1	10/08/2023 04:29	WG2147194
1,1-Dichloroethane	U		0.000100	0.00100	1	10/08/2023 04:29	WG2147194
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/08/2023 04:29	WG2147194
1,1-Dichloroethene	U		0.000188	0.00100	1	10/08/2023 04:29	WG2147194
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/08/2023 04:29	WG2147194
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/08/2023 04:29	WG2147194
1,2-Dichloropropane	U		0.000149	0.00100	1	10/08/2023 04:29	WG2147194
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	10/08/2023 04:29	WG2147194
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/08/2023 04:29	WG2147194
Ethylbenzene	U		0.000137	0.00100	1	10/08/2023 04:29	WG2147194
Isopropylbenzene	U		0.000105	0.00100	1	10/08/2023 04:29	WG2147194
p-Isopropyltoluene	U		0.000120	0.00100	1	10/08/2023 04:29	WG2147194
2-Butanone (MEK)	U		0.00119	0.0100	1	10/08/2023 04:29	WG2147194
2-Hexanone	U		0.000787	0.0100	1	10/08/2023 04:29	WG2147194
Methylene Chloride	U		0.000430	0.00500	1	10/08/2023 04:29	WG2147194
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/08/2023 04:29	WG2147194
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/08/2023 04:29	WG2147194
Naphthalene	U		0.00100	0.00500	1	10/08/2023 04:29	WG2147194
n-Propylbenzene	U		0.0000993	0.00100	1	10/08/2023 04:29	WG2147194
Styrene	U		0.000118	0.00100	1	10/08/2023 04:29	WG2147194
tert-Butyl alcohol	U		0.00406	0.00500	1	10/08/2023 04:29	WG2147194
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	10/08/2023 04:29	WG2147194
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/08/2023 04:29	WG2147194
Tetrachloroethene	U		0.000300	0.00100	1	10/08/2023 04:29	WG2147194
Toluene	U		0.000278	0.00100	1	10/08/2023 04:29	WG2147194
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/08/2023 04:29	WG2147194
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/08/2023 04:29	WG2147194
Trichloroethene	U		0.000190	0.00100	1	10/08/2023 04:29	WG2147194
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/08/2023 04:29	WG2147194
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/08/2023 04:29	WG2147194
Vinyl chloride	U		0.000234	0.00100	1	10/08/2023 04:29	WG2147194
o-Xylene	U		0.000174	0.00100	1	10/08/2023 04:29	WG2147194
m&p-Xylene	U		0.000430	0.00200	1	10/08/2023 04:29	WG2147194
Xylenes, Total	U		0.000174	0.00300	1	10/08/2023 04:29	WG2147194
(S) Toluene-d8	*112*			*80.0-120*		*10/08/2023 04:29*	WG2147194
(S) 4-Bromofluorobenzene	*89.5*			*77.0-126*		*10/08/2023 04:29*	WG2147194
(S) 1,2-Dichloroethane-d4	*98.8*			*70.0-130*		*10/08/2023 04:29*	WG2147194

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	0.106		0.0247	0.100	1	10/14/2023 12:27	WG2149782

MW-113
Collected date/time: 10/04/23 13:40
L1663141

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	*124*			*31.0-160*		*10/14/2023 12:27*	WG2149782

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2650		50.0	1	10/09/2023 15:31	WG2147682

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	268		3.79	10.0	10	10/06/2023 05:05	WG2145803
Fluoride	0.716	J	0.640	1.50	10	10/06/2023 05:05	WG2145803
Nitrate	1.01		0.480	1.00	10	10/06/2023 05:05	WG2145803
Nitrite	U		0.420	1.00	10	10/06/2023 05:05	WG2145803
Sulfate	1050		5.94	50.0	10	10/06/2023 05:05	WG2145803

Sample Narrative:

L1663141-31 WG2145803: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00273		0.000180	0.00200	1	10/18/2023 19:54	WG2146871
Barium	0.0373		0.000381	0.00200	1	10/18/2023 19:54	WG2146871
Calcium	285		0.0936	1.00	1	10/18/2023 19:54	WG2146871
Chromium	U		0.00124	0.00200	1	10/18/2023 19:54	WG2146871
Iron	0.391		0.0281	0.100	1	10/18/2023 19:54	WG2146871
Lead	0.00158	J	0.000849	0.00200	1	10/18/2023 19:54	WG2146871
Manganese	0.692		0.000704	0.00500	1	10/18/2023 19:54	WG2146871
Potassium	0.469	J	0.108	2.00	1	10/18/2023 19:54	WG2146871
Selenium	U		0.000300	0.00200	1	10/18/2023 19:54	WG2146871
Sodium	257		0.376	2.00	1	10/18/2023 19:54	WG2146871

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	10/08/2023 07:01	WG2147194
Benzene	0.0367		0.000471	0.00500	5	10/08/2023 07:01	WG2147194
Bromodichloromethane	U		0.000680	0.00500	5	10/08/2023 07:01	WG2147194
Bromoform	U		0.000645	0.00500	5	10/08/2023 07:01	WG2147194
Bromomethane	U		0.00303	0.0250	5	10/08/2023 07:01	WG2147194
n-Butylbenzene	U		0.000785	0.00500	5	10/08/2023 07:01	WG2147194
sec-Butylbenzene	0.00131	J	0.000625	0.00500	5	10/08/2023 07:01	WG2147194
Carbon disulfide	0.000778	J	0.000481	0.00500	5	10/08/2023 07:01	WG2147194
Carbon tetrachloride	U		0.000640	0.00500	5	10/08/2023 07:01	WG2147194
Chlorobenzene	U		0.000580	0.00500	5	10/08/2023 07:01	WG2147194
Chlorodibromomethane	U		0.000700	0.00500	5	10/08/2023 07:01	WG2147194
Chloroethane	U		0.000960	0.0250	5	10/08/2023 07:01	WG2147194
Chloroform	U		0.000555	0.0250	5	10/08/2023 07:01	WG2147194
Chloromethane	U	J4	0.00480	0.0125	5	10/08/2023 07:01	WG2147194
1,2-Dibromoethane	U		0.000630	0.00500	5	10/08/2023 07:01	WG2147194
1,1-Dichloroethane	U		0.000500	0.00500	5	10/08/2023 07:01	WG2147194
1,2-Dichloroethane	U		0.000409	0.00500	5	10/08/2023 07:01	WG2147194
1,1-Dichloroethene	U		0.000940	0.00500	5	10/08/2023 07:01	WG2147194
cis-1,2-Dichloroethene	U		0.000630	0.00500	5	10/08/2023 07:01	WG2147194
trans-1,2-Dichloroethene	U		0.000745	0.00500	5	10/08/2023 07:01	WG2147194
1,2-Dichloropropane	U		0.000745	0.00500	5	10/08/2023 07:01	WG2147194
cis-1,3-Dichloropropene	U		0.000555	0.00500	5	10/08/2023 07:01	WG2147194
trans-1,3-Dichloropropene	U		0.000590	0.00500	5	10/08/2023 07:01	WG2147194

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	0.00397	J	0.000685	0.00500	5	10/08/2023 07:01	WG2147194
Isopropylbenzene	0.00182	J	0.000525	0.00500	5	10/08/2023 07:01	WG2147194
p-Isopropyltoluene	U		0.000600	0.00500	5	10/08/2023 07:01	WG2147194
2-Butanone (MEK)	U		0.00595	0.0500	5	10/08/2023 07:01	WG2147194
2-Hexanone	U		0.00394	0.0500	5	10/08/2023 07:01	WG2147194
Methylene Chloride	U		0.00215	0.0250	5	10/08/2023 07:01	WG2147194
4-Methyl-2-pentanone (MIBK)	U		0.00239	0.0500	5	10/08/2023 07:01	WG2147194
Methyl tert-butyl ether	0.0142		0.000505	0.00500	5	10/08/2023 07:01	WG2147194
Naphthalene	U		0.00500	0.0250	5	10/08/2023 07:01	WG2147194
n-Propylbenzene	0.00179	J	0.000497	0.00500	5	10/08/2023 07:01	WG2147194
Styrene	U		0.000590	0.00500	5	10/08/2023 07:01	WG2147194
tert-Butyl alcohol	U		0.0203	0.0250	5	10/08/2023 07:01	WG2147194
1,1,1,2-Tetrachloroethane	U		0.000735	0.00500	5	10/08/2023 07:01	WG2147194
1,1,2,2-Tetrachloroethane	U		0.000665	0.00500	5	10/08/2023 07:01	WG2147194
Tetrachloroethene	U		0.00150	0.00500	5	10/08/2023 07:01	WG2147194
Toluene	U		0.00139	0.00500	5	10/08/2023 07:01	WG2147194
1,1,1-Trichloroethane	U		0.000745	0.00500	5	10/08/2023 07:01	WG2147194
1,1,2-Trichloroethane	U		0.000790	0.00500	5	10/08/2023 07:01	WG2147194
Trichloroethene	U		0.000950	0.00500	5	10/08/2023 07:01	WG2147194
1,2,4-Trimethylbenzene	0.00513		0.00161	0.00500	5	10/08/2023 07:01	WG2147194
1,3,5-Trimethylbenzene	0.00235	J	0.000520	0.00500	5	10/08/2023 07:01	WG2147194
Vinyl chloride	U		0.00117	0.00500	5	10/08/2023 07:01	WG2147194
o-Xylene	U		0.000870	0.00500	5	10/08/2023 07:01	WG2147194
m&p-Xylene	0.00219	J	0.00215	0.0100	5	10/08/2023 07:01	WG2147194
Xylenes, Total	0.00219	J	0.000870	0.0150	5	10/08/2023 07:01	WG2147194
(S) Toluene-d8	*111*			*80.0-120*		*10/08/2023 07:01*	WG2147194
(S) 4-Bromofluorobenzene	*91.1*			*77.0-126*		*10/08/2023 07:01*	WG2147194
(S) 1,2-Dichloroethane-d4	*90.9*			*70.0-130*		*10/08/2023 07:01*	WG2147194

Sample Narrative:

L1663141-31 WG2147194: 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	1.65		0.0247	0.100	1	10/14/2023 12:47	WG2149782
(S) o-Terphenyl	*122*			*31.0-160*		*10/14/2023 12:47*	WG2149782

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	0.000464		0.0000447	0.000400	1	10/06/2023 16:36	WG2145905
(S) Nitrobenzene-d5	*35.3*			*10.0-120*		*10/06/2023 16:36*	WG2145905

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4070		50.0	1	10/09/2023 15:31	WG2147682

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	148		3.79	10.0	10	10/05/2023 23:37	WG2145919
Fluoride	U		0.640	1.50	10	10/05/2023 23:37	WG2145919
Nitrate	16.7		0.480	1.00	10	10/05/2023 23:37	WG2145919
Nitrite	U		0.420	1.00	10	10/05/2023 23:37	WG2145919
Sulfate	2060		59.4	500	100	10/06/2023 06:15	WG2145919

Sample Narrative:

L1663141-32 WG2145919: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00230		0.000180	0.00200	1	10/18/2023 20:17	WG2146871
Barium	0.0212		0.000381	0.00200	1	10/18/2023 20:17	WG2146871
Calcium	484		0.0936	1.00	1	10/18/2023 20:17	WG2146871
Chromium	0.00227		0.00124	0.00200	1	10/18/2023 20:17	WG2146871
Iron	0.340		0.0281	0.100	1	10/18/2023 20:17	WG2146871
Lead	U		0.000849	0.00200	1	10/18/2023 20:17	WG2146871
Manganese	0.0174		0.000704	0.00500	1	10/18/2023 20:17	WG2146871
Potassium	0.824	J	0.108	2.00	1	10/18/2023 20:17	WG2146871
Selenium	0.0172		0.000300	0.00200	1	10/18/2023 20:17	WG2146871
Sodium	271		0.376	2.00	1	10/18/2023 20:17	WG2146871

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	10/08/2023 04:51	WG2147194
Benzene	U		0.0000941	0.00100	1	10/08/2023 04:51	WG2147194
Bromodichloromethane	U		0.000136	0.00100	1	10/08/2023 04:51	WG2147194
Bromoform	U		0.000129	0.00100	1	10/08/2023 04:51	WG2147194
Bromomethane	U		0.000605	0.00500	1	10/08/2023 04:51	WG2147194
n-Butylbenzene	U		0.000157	0.00100	1	10/08/2023 04:51	WG2147194
sec-Butylbenzene	U		0.000125	0.00100	1	10/08/2023 04:51	WG2147194
Carbon disulfide	U		0.0000962	0.00100	1	10/08/2023 04:51	WG2147194
Carbon tetrachloride	U		0.000128	0.00100	1	10/08/2023 04:51	WG2147194
Chlorobenzene	U		0.000116	0.00100	1	10/08/2023 04:51	WG2147194
Chlorodibromomethane	U		0.000140	0.00100	1	10/08/2023 04:51	WG2147194
Chloroethane	U		0.000192	0.00500	1	10/08/2023 04:51	WG2147194
Chloroform	U		0.000111	0.00500	1	10/08/2023 04:51	WG2147194
Chloromethane	U	J4	0.000960	0.00250	1	10/08/2023 04:51	WG2147194
1,2-Dibromoethane	U		0.000126	0.00100	1	10/08/2023 04:51	WG2147194
1,1-Dichloroethane	U		0.000100	0.00100	1	10/08/2023 04:51	WG2147194
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/08/2023 04:51	WG2147194
1,1-Dichloroethene	U		0.000188	0.00100	1	10/08/2023 04:51	WG2147194
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/08/2023 04:51	WG2147194
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/08/2023 04:51	WG2147194
1,2-Dichloropropane	U		0.000149	0.00100	1	10/08/2023 04:51	WG2147194
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	10/08/2023 04:51	WG2147194
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/08/2023 04:51	WG2147194

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	10/08/2023 04:51	WG2147194
Isopropylbenzene	U		0.000105	0.00100	1	10/08/2023 04:51	WG2147194
p-Isopropyltoluene	U		0.000120	0.00100	1	10/08/2023 04:51	WG2147194
2-Butanone (MEK)	U		0.00119	0.0100	1	10/08/2023 04:51	WG2147194
2-Hexanone	U		0.000787	0.0100	1	10/08/2023 04:51	WG2147194
Methylene Chloride	U		0.000430	0.00500	1	10/08/2023 04:51	WG2147194
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/08/2023 04:51	WG2147194
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/08/2023 04:51	WG2147194
Naphthalene	U		0.00100	0.00500	1	10/08/2023 04:51	WG2147194
n-Propylbenzene	U		0.0000993	0.00100	1	10/08/2023 04:51	WG2147194
Styrene	U		0.000118	0.00100	1	10/08/2023 04:51	WG2147194
tert-Butyl alcohol	U		0.00406	0.00500	1	10/08/2023 04:51	WG2147194
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	10/08/2023 04:51	WG2147194
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/08/2023 04:51	WG2147194
Tetrachloroethene	U		0.000300	0.00100	1	10/08/2023 04:51	WG2147194
Toluene	U		0.000278	0.00100	1	10/08/2023 04:51	WG2147194
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/08/2023 04:51	WG2147194
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/08/2023 04:51	WG2147194
Trichloroethene	U		0.000190	0.00100	1	10/08/2023 04:51	WG2147194
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/08/2023 04:51	WG2147194
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/08/2023 04:51	WG2147194
Vinyl chloride	U		0.000234	0.00100	1	10/08/2023 04:51	WG2147194
o-Xylene	U		0.000174	0.00100	1	10/08/2023 04:51	WG2147194
m&p-Xylene	U		0.000430	0.00200	1	10/08/2023 04:51	WG2147194
Xylenes, Total	U		0.000174	0.00300	1	10/08/2023 04:51	WG2147194
(S) Toluene-d8	*113*			*80.0-120*		*10/08/2023 04:51*	WG2147194
(S) 4-Bromofluorobenzene	*87.8*			*77.0-126*		*10/08/2023 04:51*	WG2147194
(S) 1,2-Dichloroethane-d4	*97.8*			*70.0-130*		*10/08/2023 04:51*	WG2147194

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	0.0999	J	0.0247	0.100	1	10/14/2023 13:08	WG2149782
(S) o-Terphenyl	*123*			*31.0-160*		*10/14/2023 13:08*	WG2149782

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3330		50.0	1	10/09/2023 12:57	WG2147656

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	141		3.79	10.0	10	10/05/2023 23:53	WG2145919
Fluoride	U		0.640	1.50	10	10/05/2023 23:53	WG2145919
Nitrate	2.13		0.480	1.00	10	10/05/2023 23:53	WG2145919
Nitrite	U		0.420	1.00	10	10/05/2023 23:53	WG2145919
Sulfate	2150		59.4	500	100	10/06/2023 06:31	WG2145919

Sample Narrative:

L1663141-33 WG2145919: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00186	J	0.000180	0.00200	1	10/18/2023 20:27	WG2146871
Barium	0.0154		0.000381	0.00200	1	10/18/2023 20:27	WG2146871
Calcium	517		0.0936	1.00	1	10/18/2023 20:27	WG2146871
Chromium	0.00137	J	0.00124	0.00200	1	10/18/2023 20:27	WG2146871
Iron	0.290		0.0281	0.100	1	10/18/2023 20:27	WG2146871
Lead	0.00137	J	0.000849	0.00200	1	10/18/2023 20:27	WG2146871
Manganese	0.0649		0.000704	0.00500	1	10/18/2023 20:27	WG2146871
Potassium	0.726	J	0.108	2.00	1	10/18/2023 20:27	WG2146871
Selenium	0.00201		0.000300	0.00200	1	10/18/2023 20:27	WG2146871
Sodium	174		0.376	2.00	1	10/18/2023 20:27	WG2146871

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	10/08/2023 05:12	WG2147194
Benzene	U		0.0000941	0.00100	1	10/08/2023 05:12	WG2147194
Bromodichloromethane	U		0.000136	0.00100	1	10/08/2023 05:12	WG2147194
Bromoform	U		0.000129	0.00100	1	10/08/2023 05:12	WG2147194
Bromomethane	U		0.000605	0.00500	1	10/08/2023 05:12	WG2147194
n-Butylbenzene	U		0.000157	0.00100	1	10/08/2023 05:12	WG2147194
sec-Butylbenzene	U		0.000125	0.00100	1	10/08/2023 05:12	WG2147194
Carbon disulfide	U		0.0000962	0.00100	1	10/08/2023 05:12	WG2147194
Carbon tetrachloride	U		0.000128	0.00100	1	10/08/2023 05:12	WG2147194
Chlorobenzene	U		0.000116	0.00100	1	10/08/2023 05:12	WG2147194
Chlorodibromomethane	U		0.000140	0.00100	1	10/08/2023 05:12	WG2147194
Chloroethane	U		0.000192	0.00500	1	10/08/2023 05:12	WG2147194
Chloroform	U		0.000111	0.00500	1	10/08/2023 05:12	WG2147194
Chloromethane	U	J4	0.000960	0.00250	1	10/08/2023 05:12	WG2147194
1,2-Dibromoethane	U		0.000126	0.00100	1	10/08/2023 05:12	WG2147194
1,1-Dichloroethane	U		0.000100	0.00100	1	10/08/2023 05:12	WG2147194
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/08/2023 05:12	WG2147194
1,1-Dichloroethene	U		0.000188	0.00100	1	10/08/2023 05:12	WG2147194
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/08/2023 05:12	WG2147194
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/08/2023 05:12	WG2147194
1,2-Dichloropropane	U		0.000149	0.00100	1	10/08/2023 05:12	WG2147194
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	10/08/2023 05:12	WG2147194
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/08/2023 05:12	WG2147194

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Ethylbenzene	U		0.000137	0.00100	1	10/08/2023 05:12	WG2147194
Isopropylbenzene	U		0.000105	0.00100	1	10/08/2023 05:12	WG2147194
p-Isopropyltoluene	U		0.000120	0.00100	1	10/08/2023 05:12	WG2147194
2-Butanone (MEK)	U		0.00119	0.0100	1	10/08/2023 05:12	WG2147194
2-Hexanone	U		0.000787	0.0100	1	10/08/2023 05:12	WG2147194
Methylene Chloride	U		0.000430	0.00500	1	10/08/2023 05:12	WG2147194
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/08/2023 05:12	WG2147194
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/08/2023 05:12	WG2147194
Naphthalene	U		0.00100	0.00500	1	10/08/2023 05:12	WG2147194
n-Propylbenzene	U		0.0000993	0.00100	1	10/08/2023 05:12	WG2147194
Styrene	U		0.000118	0.00100	1	10/08/2023 05:12	WG2147194
tert-Butyl alcohol	U		0.00406	0.00500	1	10/08/2023 05:12	WG2147194
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	10/08/2023 05:12	WG2147194
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/08/2023 05:12	WG2147194
Tetrachloroethene	U		0.000300	0.00100	1	10/08/2023 05:12	WG2147194
Toluene	U		0.000278	0.00100	1	10/08/2023 05:12	WG2147194
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/08/2023 05:12	WG2147194
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/08/2023 05:12	WG2147194
Trichloroethene	U		0.000190	0.00100	1	10/08/2023 05:12	WG2147194
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/08/2023 05:12	WG2147194
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/08/2023 05:12	WG2147194
Vinyl chloride	U		0.000234	0.00100	1	10/08/2023 05:12	WG2147194
o-Xylene	U		0.000174	0.00100	1	10/08/2023 05:12	WG2147194
m&p-Xylene	U		0.000430	0.00200	1	10/08/2023 05:12	WG2147194
Xylenes, Total	U		0.000174	0.00300	1	10/08/2023 05:12	WG2147194
(S) Toluene-d8	*114*			*80.0-120*		*10/08/2023 05:12*	WG2147194
(S) 4-Bromofluorobenzene	*87.4*			*77.0-126*		*10/08/2023 05:12*	WG2147194
(S) 1,2-Dichloroethane-d4	*99.3*			*70.0-130*		*10/08/2023 05:12*	WG2147194

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	0.0971	J	0.0247	0.100	1	10/14/2023 13:28	WG2149782
(S) o-Terphenyl	*90.0*			*31.0-160*		*10/14/2023 13:28*	WG2149782

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3810		50.0	1	10/09/2023 15:31	WG2147682

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	261		3.79	10.0	10	10/06/2023 05:22	WG2145803
Fluoride	2.24		0.640	1.50	10	10/06/2023 05:22	WG2145803
Nitrate	1.37		0.480	1.00	10	10/06/2023 05:22	WG2145803
Nitrite	U		0.420	1.00	10	10/06/2023 05:22	WG2145803
Sulfate	2040		59.4	500	100	10/06/2023 12:41	WG2145803

Sample Narrative:

L1663141-34 WG2145803: Dilution due to matrix.

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	10/10/2023 14:09	WG2146007

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	0.520		0.0200	0.200	1	10/11/2023 23:05	WG2146855

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00336		0.000180	0.00200	1	10/18/2023 20:30	WG2146871
Barium	0.00871		0.000381	0.00200	1	10/18/2023 20:30	WG2146871
Cadmium	U		0.000150	0.00100	1	10/18/2023 20:30	WG2146871
Calcium	558		0.0936	1.00	1	10/18/2023 20:30	WG2146871
Chromium	U		0.00124	0.00200	1	10/18/2023 20:30	WG2146871
Cobalt	0.000204	J	0.0000596	0.00200	1	10/18/2023 20:30	WG2146871
Iron	U		0.0281	0.100	1	10/18/2023 20:30	WG2146871
Lead	U		0.000849	0.00200	1	10/18/2023 20:30	WG2146871
Manganese	0.0215		0.000704	0.00500	1	10/18/2023 20:30	WG2146871
Nickel	0.00274		0.000816	0.00200	1	10/18/2023 20:30	WG2146871
Potassium	0.921	J	0.108	2.00	1	10/18/2023 20:30	WG2146871
Selenium	0.00494		0.000300	0.00200	1	10/18/2023 20:30	WG2146871
Sodium	158		0.376	2.00	1	10/18/2023 20:30	WG2146871
Uranium	0.0438		0.0000789	0.00100	1	10/18/2023 20:30	WG2146871
Vanadium	0.0199		0.000664	0.00500	1	10/18/2023 20:30	WG2146871

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4470		50.0	1	10/09/2023 15:31	WG2147682

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	236		3.79	10.0	10	10/06/2023 05:38	WG2145803
Fluoride	1.35	J	0.640	1.50	10	10/06/2023 05:38	WG2145803
Nitrate	1.69		0.480	1.00	10	10/06/2023 05:38	WG2145803
Nitrite	U		0.420	1.00	10	10/06/2023 05:38	WG2145803
Sulfate	2460		59.4	500	100	10/06/2023 12:58	WG2145803

Sample Narrative:

L1663141-35 WG2145803: Dilution due to matrix.

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	10/10/2023 14:11	WG2146007

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	0.902		0.0200	0.200	1	10/11/2023 23:08	WG2146855

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00328		0.000180	0.00200	1	10/18/2023 20:34	WG2146871
Barium	0.00784		0.000381	0.00200	1	10/18/2023 20:34	WG2146871
Cadmium	U		0.000150	0.00100	1	10/18/2023 20:34	WG2146871
Calcium	505		0.0936	1.00	1	10/18/2023 20:34	WG2146871
Chromium	U		0.00124	0.00200	1	10/18/2023 20:34	WG2146871
Cobalt	0.000588	J	0.0000596	0.00200	1	10/18/2023 20:34	WG2146871
Iron	0.0415	J	0.0281	0.100	1	10/18/2023 20:34	WG2146871
Lead	U		0.000849	0.00200	1	10/18/2023 20:34	WG2146871
Manganese	0.0371		0.000704	0.00500	1	10/18/2023 20:34	WG2146871
Nickel	0.00352		0.000816	0.00200	1	10/18/2023 20:34	WG2146871
Potassium	0.754	J	0.108	2.00	1	10/18/2023 20:34	WG2146871
Selenium	0.00152	J	0.000300	0.00200	1	10/18/2023 20:34	WG2146871
Sodium	197		0.376	2.00	1	10/18/2023 20:34	WG2146871
Uranium	0.0471		0.0000789	0.00100	1	10/18/2023 20:34	WG2146871
Vanadium	0.0187		0.000664	0.00500	1	10/18/2023 20:34	WG2146871

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1630		25.0	1	10/09/2023 15:31	WG2147682

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	81.3		0.379	1.00	1	10/06/2023 05:52	WG2145796
Fluoride	1.63		0.0640	0.150	1	10/06/2023 05:52	WG2145796
Nitrate	0.868		0.0480	0.100	1	10/06/2023 05:52	WG2145796
Nitrite	U		0.0420	0.100	1	10/06/2023 05:52	WG2145796
Sulfate	U		0.594	5.00	1	10/06/2023 05:52	WG2145796

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	10/18/2023 20:37	WG2146871
Barium	0.0287		0.000381	0.00200	1	10/18/2023 20:37	WG2146871
Calcium	269		0.0936	1.00	1	10/18/2023 20:37	WG2146871
Chromium	U		0.00124	0.00200	1	10/18/2023 20:37	WG2146871
Iron	U		0.0281	0.100	1	10/18/2023 20:37	WG2146871
Lead	U		0.000849	0.00200	1	10/18/2023 20:37	WG2146871
Manganese	0.0229		0.000704	0.00500	1	10/18/2023 20:37	WG2146871
Potassium	7.17		0.108	2.00	1	10/18/2023 20:37	WG2146871
Selenium	U		0.000300	0.00200	1	10/18/2023 20:37	WG2146871
Sodium	74.4		0.376	2.00	1	10/18/2023 20:37	WG2146871

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	0.654		0.0314	0.100	1	10/10/2023 06:14	WG2148109
(S) a,a,a-Trifluorotoluene(FID)	*107*			*78.0-120*		*10/10/2023 06:14*	WG2148109

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	10/08/2023 05:34	WG2147194
Benzene	0.00333		0.0000941	0.00100	1	10/08/2023 05:34	WG2147194
Bromodichloromethane	U		0.000136	0.00100	1	10/08/2023 05:34	WG2147194
Bromoform	U		0.000129	0.00100	1	10/08/2023 05:34	WG2147194
Bromomethane	U		0.000605	0.00500	1	10/08/2023 05:34	WG2147194
n-Butylbenzene	U		0.000157	0.00100	1	10/08/2023 05:34	WG2147194
sec-Butylbenzene	0.0386		0.000125	0.00100	1	10/08/2023 05:34	WG2147194
Carbon disulfide	0.000453	J	0.0000962	0.00100	1	10/08/2023 05:34	WG2147194
Carbon tetrachloride	U		0.000128	0.00100	1	10/08/2023 05:34	WG2147194
Chlorobenzene	U		0.000116	0.00100	1	10/08/2023 05:34	WG2147194
Chlorodibromomethane	U		0.000140	0.00100	1	10/08/2023 05:34	WG2147194
Chloroethane	U		0.000192	0.00500	1	10/08/2023 05:34	WG2147194
Chloroform	U		0.000111	0.00500	1	10/08/2023 05:34	WG2147194
Chloromethane	U	J4	0.000960	0.00250	1	10/08/2023 05:34	WG2147194
1,2-Dibromoethane	U		0.000126	0.00100	1	10/08/2023 05:34	WG2147194
1,1-Dichloroethane	U		0.000100	0.00100	1	10/08/2023 05:34	WG2147194
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/08/2023 05:34	WG2147194
1,1-Dichloroethene	U		0.000188	0.00100	1	10/08/2023 05:34	WG2147194
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/08/2023 05:34	WG2147194

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/08/2023 05:34	WG2147194
1,2-Dichloropropane	U		0.000149	0.00100	1	10/08/2023 05:34	WG2147194
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	10/08/2023 05:34	WG2147194
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/08/2023 05:34	WG2147194
Ethylbenzene	0.000303	J	0.000137	0.00100	1	10/08/2023 05:34	WG2147194
Isopropylbenzene	0.0328		0.000105	0.00100	1	10/08/2023 05:34	WG2147194
p-Isopropyltoluene	U		0.000120	0.00100	1	10/08/2023 05:34	WG2147194
2-Butanone (MEK)	U		0.00119	0.0100	1	10/08/2023 05:34	WG2147194
2-Hexanone	U		0.000787	0.0100	1	10/08/2023 05:34	WG2147194
Methylene Chloride	U		0.000430	0.00500	1	10/08/2023 05:34	WG2147194
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/08/2023 05:34	WG2147194
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/08/2023 05:34	WG2147194
Naphthalene	U		0.00100	0.00500	1	10/08/2023 05:34	WG2147194
n-Propylbenzene	0.00481		0.0000993	0.00100	1	10/08/2023 05:34	WG2147194
Styrene	U		0.000118	0.00100	1	10/08/2023 05:34	WG2147194
tert-Butyl alcohol	U		0.00406	0.00500	1	10/08/2023 05:34	WG2147194
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	10/08/2023 05:34	WG2147194
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/08/2023 05:34	WG2147194
Tetrachloroethene	U		0.000300	0.00100	1	10/08/2023 05:34	WG2147194
Toluene	U		0.000278	0.00100	1	10/08/2023 05:34	WG2147194
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/08/2023 05:34	WG2147194
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/08/2023 05:34	WG2147194
Trichloroethene	U		0.000190	0.00100	1	10/08/2023 05:34	WG2147194
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/08/2023 05:34	WG2147194
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/08/2023 05:34	WG2147194
Vinyl chloride	U		0.000234	0.00100	1	10/08/2023 05:34	WG2147194
o-Xylene	U		0.000174	0.00100	1	10/08/2023 05:34	WG2147194
m&p-Xylene	U		0.000430	0.00200	1	10/08/2023 05:34	WG2147194
Xylenes, Total	U		0.000174	0.00300	1	10/08/2023 05:34	WG2147194
(S) Toluene-d8	*103*			*80.0-120*		*10/08/2023 05:34*	WG2147194
(S) 4-Bromofluorobenzene	*83.5*			*77.0-126*		*10/08/2023 05:34*	WG2147194
(S) 1,2-Dichloroethane-d4	*91.9*			*70.0-130*		*10/08/2023 05:34*	WG2147194

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	1.39		0.0247	0.100	1	10/14/2023 13:48	WG2149782
(S) o-Terphenyl	*142*			*31.0-160*		*10/14/2023 13:48*	WG2149782

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	10/09/2023 15:31	WG2147682

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	289		3.79	10.0	10	10/06/2023 13:15	WG2145803
Fluoride	0.750		0.0640	0.150	1	10/06/2023 05:55	WG2145803
Nitrate	0.357		0.0480	0.100	1	10/06/2023 05:55	WG2145803
Nitrite	U		0.0420	0.100	1	10/06/2023 05:55	WG2145803
Sulfate	8.17		0.594	5.00	1	10/06/2023 05:55	WG2145803

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0271		0.000180	0.00200	1	10/18/2023 20:40	WG2146871
Barium	1.96		0.00381	0.0200	10	10/19/2023 10:32	WG2146871
Calcium	90.5		0.0936	1.00	1	10/18/2023 20:40	WG2146871
Chromium	U		0.00124	0.00200	1	10/18/2023 20:40	WG2146871
Iron	U		0.0281	0.100	1	10/18/2023 20:40	WG2146871
Lead	U		0.000849	0.00200	1	10/18/2023 20:40	WG2146871
Manganese	0.0575		0.000704	0.00500	1	10/18/2023 20:40	WG2146871
Potassium	0.548	J	0.108	2.00	1	10/18/2023 20:40	WG2146871
Selenium	0.000306	J	0.000300	0.00200	1	10/18/2023 20:40	WG2146871
Sodium	333		0.376	2.00	1	10/18/2023 20:40	WG2146871

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	108		0.785	2.50	25	10/10/2023 08:08	WG2148109
(S) a,a,a-Trifluorotoluene(FID)	*103*			*78.0-120*		*10/10/2023 08:08*	WG2148109

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	10/08/2023 07:23	WG2147194
Benzene	28.0		0.0941	1.00	1000	10/11/2023 01:15	WG2148759
Bromodichloromethane	U		0.0136	0.100	100	10/08/2023 07:23	WG2147194
Bromoform	U		0.0129	0.100	100	10/08/2023 07:23	WG2147194
Bromomethane	U		0.0605	0.500	100	10/08/2023 07:23	WG2147194
n-Butylbenzene	U		0.0157	0.100	100	10/08/2023 07:23	WG2147194
sec-Butylbenzene	U		0.0125	0.100	100	10/08/2023 07:23	WG2147194
Carbon disulfide	0.0164	J	0.00962	0.100	100	10/08/2023 07:23	WG2147194
Carbon tetrachloride	U		0.0128	0.100	100	10/08/2023 07:23	WG2147194
Chlorobenzene	U		0.0116	0.100	100	10/08/2023 07:23	WG2147194
Chlorodibromomethane	U		0.0140	0.100	100	10/08/2023 07:23	WG2147194
Chloroethane	U		0.0192	0.500	100	10/08/2023 07:23	WG2147194
Chloroform	U		0.0111	0.500	100	10/08/2023 07:23	WG2147194
Chloromethane	U	J4	0.0960	0.250	100	10/08/2023 07:23	WG2147194
1,2-Dibromoethane	U		0.0126	0.100	100	10/08/2023 07:23	WG2147194
1,1-Dichloroethane	U		0.0100	0.100	100	10/08/2023 07:23	WG2147194
1,2-Dichloroethane	U		0.00819	0.100	100	10/08/2023 07:23	WG2147194
1,1-Dichloroethene	U		0.0188	0.100	100	10/08/2023 07:23	WG2147194
cis-1,2-Dichloroethene	U		0.0126	0.100	100	10/08/2023 07:23	WG2147194

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
trans-1,2-Dichloroethene	U		0.0149	0.100	100	10/08/2023 07:23	WG2147194
1,2-Dichloropropane	U		0.0149	0.100	100	10/08/2023 07:23	WG2147194
cis-1,3-Dichloropropene	U		0.0111	0.100	100	10/08/2023 07:23	WG2147194
trans-1,3-Dichloropropene	U		0.0118	0.100	100	10/08/2023 07:23	WG2147194
Ethylbenzene	2.32		0.0137	0.100	100	10/08/2023 07:23	WG2147194
Isopropylbenzene	0.0668	J	0.0105	0.100	100	10/08/2023 07:23	WG2147194
p-Isopropyltoluene	U		0.0120	0.100	100	10/08/2023 07:23	WG2147194
2-Butanone (MEK)	U		0.119	1.00	100	10/08/2023 07:23	WG2147194
2-Hexanone	U		0.0787	1.00	100	10/08/2023 07:23	WG2147194
Methylene Chloride	U		0.0430	0.500	100	10/08/2023 07:23	WG2147194
4-Methyl-2-pentanone (MIBK)	U		0.0478	1.00	100	10/08/2023 07:23	WG2147194
Methyl tert-butyl ether	0.225		0.0101	0.100	100	10/08/2023 07:23	WG2147194
Naphthalene	0.161	J	0.100	0.500	100	10/08/2023 07:23	WG2147194
n-Propylbenzene	0.0917	J	0.00993	0.100	100	10/08/2023 07:23	WG2147194
Styrene	U		0.0118	0.100	100	10/08/2023 07:23	WG2147194
tert-Butyl alcohol	2.10		0.406	0.500	100	10/08/2023 07:23	WG2147194
1,1,1,2-Tetrachloroethane	U		0.0147	0.100	100	10/08/2023 07:23	WG2147194
1,1,2,2-Tetrachloroethane	U		0.0133	0.100	100	10/08/2023 07:23	WG2147194
Tetrachloroethene	U		0.0300	0.100	100	10/08/2023 07:23	WG2147194
Toluene	8.92		0.0278	0.100	100	10/08/2023 07:23	WG2147194
1,1,1-Trichloroethane	U		0.0149	0.100	100	10/08/2023 07:23	WG2147194
1,1,2-Trichloroethane	U		0.0158	0.100	100	10/08/2023 07:23	WG2147194
Trichloroethene	U		0.0190	0.100	100	10/08/2023 07:23	WG2147194
1,2,4-Trimethylbenzene	0.580		0.0322	0.100	100	10/08/2023 07:23	WG2147194
1,3,5-Trimethylbenzene	0.125		0.0104	0.100	100	10/08/2023 07:23	WG2147194
Vinyl chloride	U		0.0234	0.100	100	10/08/2023 07:23	WG2147194
o-Xylene	1.21		0.0174	0.100	100	10/08/2023 07:23	WG2147194
m&p-Xylene	4.07		0.0430	0.200	100	10/08/2023 07:23	WG2147194
Xylenes, Total	5.28		0.0174	0.300	100	10/08/2023 07:23	WG2147194
(S) Toluene-d8	*112*			*80.0-120*		*10/08/2023 07:23*	WG2147194
(S) Toluene-d8	*106*			*80.0-120*		*10/11/2023 01:15*	WG2148759
(S) 4-Bromofluorobenzene	*94.9*			*77.0-126*		*10/08/2023 07:23*	WG2147194
(S) 4-Bromofluorobenzene	*93.1*			*77.0-126*		*10/11/2023 01:15*	WG2148759
(S) 1,2-Dichloroethane-d4	*92.9*			*70.0-130*		*10/08/2023 07:23*	WG2147194
(S) 1,2-Dichloroethane-d4	*95.8*			*70.0-130*		*10/11/2023 01:15*	WG2148759

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	7.08		0.0247	0.100	1	10/14/2023 14:08	WG2149782
(S) o-Terphenyl	*121*			*31.0-160*		*10/14/2023 14:08*	WG2149782

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1150		20.0	1	10/09/2023 15:31	WG2147682

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	211		1.90	5.00	5	10/16/2023 06:30	WG2151765
Fluoride	1.08		0.0640	0.150	1	10/06/2023 06:18	WG2145796
Nitrate	U		0.0480	0.100	1	10/06/2023 06:18	WG2145796
Nitrite	0.100		0.0420	0.100	1	10/06/2023 06:18	WG2145796
Sulfate	2.01	J	0.594	5.00	1	10/06/2023 06:18	WG2145796

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00535		0.000180	0.00200	1	10/18/2023 20:43	WG2146871
Barium	1.58		0.00381	0.0200	10	10/19/2023 10:35	WG2146871
Calcium	119		0.0936	1.00	1	10/18/2023 20:43	WG2146871
Chromium	U		0.00124	0.00200	1	10/18/2023 20:43	WG2146871
Iron	0.941		0.0281	0.100	1	10/18/2023 20:43	WG2146871
Lead	U		0.000849	0.00200	1	10/18/2023 20:43	WG2146871
Manganese	0.346		0.000704	0.00500	1	10/18/2023 20:43	WG2146871
Potassium	0.419	J	0.108	2.00	1	10/18/2023 20:43	WG2146871
Selenium	U		0.000300	0.00200	1	10/18/2023 20:43	WG2146871
Sodium	212		0.376	2.00	1	10/18/2023 20:43	WG2146871

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	3.40		0.0314	0.100	1	10/10/2023 06:37	WG2148109
(S) a,a,a-Trifluorotoluene(FID)	*111*			*78.0-120*		*10/10/2023 06:37*	WG2148109

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	10/08/2023 07:45	WG2147194
Benzene	0.216		0.00235	0.0250	25	10/08/2023 07:45	WG2147194
Bromodichloromethane	U		0.00340	0.0250	25	10/08/2023 07:45	WG2147194
Bromoform	U		0.00322	0.0250	25	10/08/2023 07:45	WG2147194
Bromomethane	U		0.0151	0.125	25	10/08/2023 07:45	WG2147194
n-Butylbenzene	0.00741	J	0.00393	0.0250	25	10/08/2023 07:45	WG2147194
sec-Butylbenzene	0.00928	J	0.00313	0.0250	25	10/08/2023 07:45	WG2147194
Carbon disulfide	0.00299	J	0.00241	0.0250	25	10/08/2023 07:45	WG2147194
Carbon tetrachloride	U		0.00320	0.0250	25	10/08/2023 07:45	WG2147194
Chlorobenzene	U		0.00290	0.0250	25	10/08/2023 07:45	WG2147194
Chlorodibromomethane	U		0.00350	0.0250	25	10/08/2023 07:45	WG2147194
Chloroethane	U		0.00480	0.125	25	10/08/2023 07:45	WG2147194
Chloroform	U		0.00278	0.125	25	10/08/2023 07:45	WG2147194
Chloromethane	U	J4	0.0240	0.0625	25	10/08/2023 07:45	WG2147194
1,2-Dibromoethane	U		0.00315	0.0250	25	10/08/2023 07:45	WG2147194
1,1-Dichloroethane	U		0.00250	0.0250	25	10/08/2023 07:45	WG2147194
1,2-Dichloroethane	U		0.00205	0.0250	25	10/08/2023 07:45	WG2147194
1,1-Dichloroethene	U		0.00470	0.0250	25	10/08/2023 07:45	WG2147194
cis-1,2-Dichloroethene	U		0.00315	0.0250	25	10/08/2023 07:45	WG2147194

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
trans-1,2-Dichloroethene	U		0.00373	0.0250	25	10/08/2023 07:45	WG2147194
1,2-Dichloropropane	U		0.00373	0.0250	25	10/08/2023 07:45	WG2147194
cis-1,3-Dichloropropene	U		0.00278	0.0250	25	10/08/2023 07:45	WG2147194
trans-1,3-Dichloropropene	U		0.00295	0.0250	25	10/08/2023 07:45	WG2147194
Ethylbenzene	0.0169	J	0.00343	0.0250	25	10/08/2023 07:45	WG2147194
Isopropylbenzene	0.0419		0.00263	0.0250	25	10/08/2023 07:45	WG2147194
p-Isopropyltoluene	U		0.00300	0.0250	25	10/08/2023 07:45	WG2147194
2-Butanone (MEK)	U		0.0298	0.250	25	10/08/2023 07:45	WG2147194
2-Hexanone	U		0.0197	0.250	25	10/08/2023 07:45	WG2147194
Methylene Chloride	U		0.0107	0.125	25	10/08/2023 07:45	WG2147194
4-Methyl-2-pentanone (MIBK)	U		0.0120	0.250	25	10/08/2023 07:45	WG2147194
Methyl tert-butyl ether	0.678		0.00253	0.0250	25	10/08/2023 07:45	WG2147194
Naphthalene	0.0791	J	0.0250	0.125	25	10/08/2023 07:45	WG2147194
n-Propylbenzene	0.0655		0.00248	0.0250	25	10/08/2023 07:45	WG2147194
Styrene	U		0.00295	0.0250	25	10/08/2023 07:45	WG2147194
tert-Butyl alcohol	0.540		0.102	0.125	25	10/08/2023 07:45	WG2147194
1,1,1,2-Tetrachloroethane	U		0.00368	0.0250	25	10/08/2023 07:45	WG2147194
1,1,2,2-Tetrachloroethane	U		0.00333	0.0250	25	10/08/2023 07:45	WG2147194
Tetrachloroethene	U		0.00750	0.0250	25	10/08/2023 07:45	WG2147194
Toluene	0.00944	J	0.00695	0.0250	25	10/08/2023 07:45	WG2147194
1,1,1-Trichloroethane	U		0.00373	0.0250	25	10/08/2023 07:45	WG2147194
1,1,2-Trichloroethane	U		0.00395	0.0250	25	10/08/2023 07:45	WG2147194
Trichloroethene	U		0.00475	0.0250	25	10/08/2023 07:45	WG2147194
1,2,4-Trimethylbenzene	U		0.00805	0.0250	25	10/08/2023 07:45	WG2147194
1,3,5-Trimethylbenzene	U		0.00260	0.0250	25	10/08/2023 07:45	WG2147194
Vinyl chloride	U		0.00585	0.0250	25	10/08/2023 07:45	WG2147194
o-Xylene	U		0.00435	0.0250	25	10/08/2023 07:45	WG2147194
m&p-Xylene	U		0.0107	0.0500	25	10/08/2023 07:45	WG2147194
Xylenes, Total	U		0.00435	0.0750	25	10/08/2023 07:45	WG2147194
(S) Toluene-d8	*116*			*80.0-120*		*10/08/2023 07:45*	WG2147194
(S) 4-Bromofluorobenzene	*93.2*			*77.0-126*		*10/08/2023 07:45*	WG2147194
(S) 1,2-Dichloroethane-d4	*90.9*			*70.0-130*		*10/08/2023 07:45*	WG2147194

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	3.23		0.0247	0.100	1	10/14/2023 14:28	WG2149782
(S) o-Terphenyl	*124*			*31.0-160*		*10/14/2023 14:28*	WG2149782

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1590		50.0	1	10/10/2023 00:37	WG2147745

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	162		3.79	10.0	10	10/06/2023 00:09	WG2145919
Fluoride	U		0.640	1.50	10	10/06/2023 00:09	WG2145919
Nitrate	0.514	J	0.480	1.00	10	10/06/2023 00:09	WG2145919
Nitrite	U		0.420	1.00	10	10/06/2023 00:09	WG2145919
Sulfate	86.5		5.94	50.0	10	10/06/2023 00:09	WG2145919

Sample Narrative:

L1663141-39 WG2145919: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0115		0.000180	0.00200	1	10/18/2023 20:46	WG2146871
Barium	0.422		0.00190	0.0100	5	10/19/2023 10:39	WG2146871
Calcium	124		0.0936	1.00	1	10/18/2023 20:46	WG2146871
Chromium	U		0.00124	0.00200	1	10/18/2023 20:46	WG2146871
Iron	0.110		0.0281	0.100	1	10/18/2023 20:46	WG2146871
Lead	0.00411		0.000849	0.00200	1	10/18/2023 20:46	WG2146871
Manganese	0.0234		0.000704	0.00500	1	10/18/2023 20:46	WG2146871
Potassium	0.395	J	0.108	2.00	1	10/18/2023 20:46	WG2146871
Selenium	U		0.000300	0.00200	1	10/18/2023 20:46	WG2146871
Sodium	347		0.376	2.00	1	10/18/2023 20:46	WG2146871

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	38.3		1.57	5.00	50	10/17/2023 16:09	WG2152351
(S) a,a,a-Trifluorotoluene(FID)	*96.9*			*78.0-120*		*10/17/2023 16:09*	WG2152351

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	10/08/2023 05:56	WG2147194
Benzene	13.4		0.0471	0.500	500	10/11/2023 19:04	WG2149477
Bromodichloromethane	U		0.000136	0.00100	1	10/08/2023 05:56	WG2147194
Bromoform	U		0.000129	0.00100	1	10/08/2023 05:56	WG2147194
Bromomethane	U		0.000605	0.00500	1	10/08/2023 05:56	WG2147194
n-Butylbenzene	U		0.000157	0.00100	1	10/08/2023 05:56	WG2147194
sec-Butylbenzene	0.0112		0.000125	0.00100	1	10/08/2023 05:56	WG2147194
Carbon disulfide	0.000559	J	0.0000962	0.00100	1	10/08/2023 05:56	WG2147194
Carbon tetrachloride	U		0.000128	0.00100	1	10/08/2023 05:56	WG2147194
Chlorobenzene	U		0.000116	0.00100	1	10/08/2023 05:56	WG2147194
Chlorodibromomethane	U		0.000140	0.00100	1	10/08/2023 05:56	WG2147194
Chloroethane	U		0.000192	0.00500	1	10/08/2023 05:56	WG2147194
Chloroform	U		0.000111	0.00500	1	10/08/2023 05:56	WG2147194
Chloromethane	U	J4	0.000960	0.00250	1	10/08/2023 05:56	WG2147194
1,2-Dibromoethane	U		0.000126	0.00100	1	10/08/2023 05:56	WG2147194
1,1-Dichloroethane	U		0.000100	0.00100	1	10/08/2023 05:56	WG2147194

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	10/08/2023 05:56	WG2147194
1,1-Dichloroethene	U		0.000188	0.00100	1	10/08/2023 05:56	WG2147194
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/08/2023 05:56	WG2147194
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/08/2023 05:56	WG2147194
1,2-Dichloropropane	U		0.000149	0.00100	1	10/08/2023 05:56	WG2147194
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	10/08/2023 05:56	WG2147194
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/08/2023 05:56	WG2147194
Ethylbenzene	0.700		0.00274	0.0200	20	10/11/2023 01:35	WG2148759
Isopropylbenzene	0.0420		0.000105	0.00100	1	10/08/2023 05:56	WG2147194
p-Isopropyltoluene	U		0.000120	0.00100	1	10/08/2023 05:56	WG2147194
2-Butanone (MEK)	0.0270		0.00119	0.0100	1	10/08/2023 05:56	WG2147194
2-Hexanone	0.00612	J	0.000787	0.0100	1	10/08/2023 05:56	WG2147194
Methylene Chloride	U		0.000430	0.00500	1	10/08/2023 05:56	WG2147194
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/08/2023 05:56	WG2147194
Methyl tert-butyl ether	0.189		0.000101	0.00100	1	10/08/2023 05:56	WG2147194
Naphthalene	0.177		0.00100	0.00500	1	10/08/2023 05:56	WG2147194
n-Propylbenzene	0.0543		0.0000993	0.00100	1	10/08/2023 05:56	WG2147194
Styrene	U		0.000118	0.00100	1	10/08/2023 05:56	WG2147194
tert-Butyl alcohol	U		0.00406	0.00500	1	10/08/2023 05:56	WG2147194
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	10/08/2023 05:56	WG2147194
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/08/2023 05:56	WG2147194
Tetrachloroethene	U		0.000300	0.00100	1	10/08/2023 05:56	WG2147194
Toluene	0.318		0.00556	0.0200	20	10/11/2023 01:35	WG2148759
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/08/2023 05:56	WG2147194
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/08/2023 05:56	WG2147194
Trichloroethene	U		0.000190	0.00100	1	10/08/2023 05:56	WG2147194
1,2,4-Trimethylbenzene	0.190		0.000322	0.00100	1	10/08/2023 05:56	WG2147194
1,3,5-Trimethylbenzene	0.0351		0.000104	0.00100	1	10/08/2023 05:56	WG2147194
Vinyl chloride	U		0.000234	0.00100	1	10/08/2023 05:56	WG2147194
o-Xylene	0.0246		0.00348	0.0200	20	10/11/2023 01:35	WG2148759
m&p-Xylene	0.542		0.00860	0.0400	20	10/11/2023 01:35	WG2148759
Xylenes, Total	0.567		0.00348	0.0600	20	10/11/2023 01:35	WG2148759
(S) Toluene-d8	*112*			*80.0-120*		*10/08/2023 05:56*	WG2147194
(S) Toluene-d8	*105*			*80.0-120*		*10/11/2023 01:35*	WG2148759
(S) Toluene-d8	*101*			*80.0-120*		*10/11/2023 19:04*	WG2149477
(S) 4-Bromofluorobenzene	*96.6*			*77.0-126*		*10/08/2023 05:56*	WG2147194
(S) 4-Bromofluorobenzene	*92.9*			*77.0-126*		*10/11/2023 01:35*	WG2148759
(S) 4-Bromofluorobenzene	*98.9*			*77.0-126*		*10/11/2023 19:04*	WG2149477
(S) 1,2-Dichloroethane-d4	*91.4*			*70.0-130*		*10/08/2023 05:56*	WG2147194
(S) 1,2-Dichloroethane-d4	*93.0*			*70.0-130*		*10/11/2023 01:35*	WG2148759
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*		*10/11/2023 19:04*	WG2149477

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	10/13/2023 21:57	WG2149783
(S) o-Terphenyl	*31.4*			*31.0-160*		*10/13/2023 21:57*	WG2149783

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2040		25.0	1	10/09/2023 19:53	WG2146109

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	29.0		3.79	10.0	10	10/06/2023 01:12	WG2145919
Fluoride	1.73		0.640	1.50	10	10/06/2023 01:12	WG2145919
Nitrate	0.715	J	0.480	1.00	10	10/06/2023 01:12	WG2145919
Nitrite	U		0.420	1.00	10	10/06/2023 01:12	WG2145919
Sulfate	1190		5.94	50.0	10	10/06/2023 01:12	WG2145919

Sample Narrative:

L1663141-41 WG2145919: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00548		0.000180	0.00200	1	10/18/2023 20:50	WG2146871
Barium	0.0264		0.000381	0.00200	1	10/18/2023 20:50	WG2146871
Calcium	450		0.0936	1.00	1	10/18/2023 20:50	WG2146871
Chromium	0.00729		0.00124	0.00200	1	10/18/2023 20:50	WG2146871
Iron	1.40		0.0281	0.100	1	10/18/2023 20:50	WG2146871
Lead	0.0140		0.000849	0.00200	1	10/18/2023 20:50	WG2146871
Manganese	0.0975		0.000704	0.00500	1	10/18/2023 20:50	WG2146871
Potassium	0.918	J	0.108	2.00	1	10/18/2023 20:50	WG2146871
Selenium	0.00889		0.000300	0.00200	1	10/18/2023 20:50	WG2146871
Sodium	104		0.376	2.00	1	10/18/2023 20:50	WG2146871

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	10/08/2023 06:40	WG2147194
Benzene	U		0.0000941	0.00100	1	10/11/2023 00:54	WG2148759
Bromodichloromethane	U		0.000136	0.00100	1	10/08/2023 06:40	WG2147194
Bromoform	U		0.000129	0.00100	1	10/08/2023 06:40	WG2147194
Bromomethane	U		0.000605	0.00500	1	10/08/2023 06:40	WG2147194
n-Butylbenzene	U		0.000157	0.00100	1	10/08/2023 06:40	WG2147194
sec-Butylbenzene	U		0.000125	0.00100	1	10/08/2023 06:40	WG2147194
Carbon disulfide	0.000175	J	0.0000962	0.00100	1	10/08/2023 06:40	WG2147194
Carbon tetrachloride	U		0.000128	0.00100	1	10/08/2023 06:40	WG2147194
Chlorobenzene	U		0.000116	0.00100	1	10/08/2023 06:40	WG2147194
Chlorodibromomethane	U		0.000140	0.00100	1	10/08/2023 06:40	WG2147194
Chloroethane	U		0.000192	0.00500	1	10/08/2023 06:40	WG2147194
Chloroform	U		0.000111	0.00500	1	10/08/2023 06:40	WG2147194
Chloromethane	U	J4	0.000960	0.00250	1	10/08/2023 06:40	WG2147194
1,2-Dibromoethane	U		0.000126	0.00100	1	10/08/2023 06:40	WG2147194
1,1-Dichloroethane	U		0.000100	0.00100	1	10/08/2023 06:40	WG2147194
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/08/2023 06:40	WG2147194
1,1-Dichloroethene	U		0.000188	0.00100	1	10/08/2023 06:40	WG2147194
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/08/2023 06:40	WG2147194
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/08/2023 06:40	WG2147194
1,2-Dichloropropane	U		0.000149	0.00100	1	10/08/2023 06:40	WG2147194
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	10/08/2023 06:40	WG2147194
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/08/2023 06:40	WG2147194

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	10/11/2023 00:54	WG2148759
Isopropylbenzene	U		0.000105	0.00100	1	10/08/2023 06:40	WG2147194
p-Isopropyltoluene	U		0.000120	0.00100	1	10/08/2023 06:40	WG2147194
2-Butanone (MEK)	U		0.00119	0.0100	1	10/08/2023 06:40	WG2147194
2-Hexanone	U		0.000787	0.0100	1	10/08/2023 06:40	WG2147194
Methylene Chloride	U		0.000430	0.00500	1	10/08/2023 06:40	WG2147194
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/08/2023 06:40	WG2147194
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/08/2023 06:40	WG2147194
Naphthalene	U		0.00100	0.00500	1	10/08/2023 06:40	WG2147194
n-Propylbenzene	U		0.0000993	0.00100	1	10/08/2023 06:40	WG2147194
Styrene	U		0.000118	0.00100	1	10/08/2023 06:40	WG2147194
tert-Butyl alcohol	U		0.00406	0.00500	1	10/08/2023 06:40	WG2147194
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	10/08/2023 06:40	WG2147194
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/08/2023 06:40	WG2147194
Tetrachloroethene	U		0.000300	0.00100	1	10/08/2023 06:40	WG2147194
Toluene	U		0.000278	0.00100	1	10/08/2023 06:40	WG2147194
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/08/2023 06:40	WG2147194
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/08/2023 06:40	WG2147194
Trichloroethene	U		0.000190	0.00100	1	10/08/2023 06:40	WG2147194
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/08/2023 06:40	WG2147194
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/08/2023 06:40	WG2147194
Vinyl chloride	U		0.000234	0.00100	1	10/08/2023 06:40	WG2147194
o-Xylene	U		0.000174	0.00100	1	10/08/2023 06:40	WG2147194
m&p-Xylene	U		0.000430	0.00200	1	10/08/2023 06:40	WG2147194
Xylenes, Total	U		0.000174	0.00300	1	10/08/2023 06:40	WG2147194
(S) Toluene-d8	*111*			*80.0-120*		*10/08/2023 06:40*	WG2147194
(S) Toluene-d8	*108*			*80.0-120*		*10/11/2023 00:54*	WG2148759
(S) 4-Bromofluorobenzene	*89.1*			*77.0-126*		*10/08/2023 06:40*	WG2147194
(S) 4-Bromofluorobenzene	*94.3*			*77.0-126*		*10/11/2023 00:54*	WG2148759
(S) 1,2-Dichloroethane-d4	*90.5*			*70.0-130*		*10/08/2023 06:40*	WG2147194
(S) 1,2-Dichloroethane-d4	*97.1*			*70.0-130*		*10/11/2023 00:54*	WG2148759

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	10/13/2023 22:48	WG2149783
(S) o-Terphenyl	*55.5*			*31.0-160*		*10/13/2023 22:48*	WG2149783

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	1520		50.0	1	10/09/2023 19:53	WG2146109

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	153		3.79	10.0	10	10/06/2023 06:12	WG2145803
Fluoride	1.23	J	0.640	1.50	10	10/06/2023 06:12	WG2145803
Nitrate	0.927	J	0.480	1.00	10	10/06/2023 06:12	WG2145803
Nitrite	U		0.420	1.00	10	10/06/2023 06:12	WG2145803
Sulfate	93.1		5.94	50.0	10	10/06/2023 06:12	WG2145803

Sample Narrative:

L1663141-42 WG2145803: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0114		0.000180	0.00200	1	10/18/2023 20:53	WG2146871
Barium	0.428		0.00190	0.0100	5	10/19/2023 10:42	WG2146871
Calcium	125		0.0936	1.00	1	10/18/2023 20:53	WG2146871
Chromium	U		0.00124	0.00200	1	10/18/2023 20:53	WG2146871
Iron	0.112		0.0281	0.100	1	10/18/2023 20:53	WG2146871
Lead	0.00385		0.000849	0.00200	1	10/18/2023 20:53	WG2146871
Manganese	0.0229		0.000704	0.00500	1	10/18/2023 20:53	WG2146871
Potassium	0.402	J	0.108	2.00	1	10/18/2023 20:53	WG2146871
Selenium	U		0.000300	0.00200	1	10/18/2023 20:53	WG2146871
Sodium	358		0.376	2.00	1	10/18/2023 20:53	WG2146871

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	47.6		1.57	5.00	50	10/10/2023 17:05	WG2148221
(S) a,a,a-Trifluorotoluene(FID)	*107*			*78.0-120*		*10/10/2023 17:05*	WG2148221

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		2.82	12.5	250	10/08/2023 08:06	WG2147194
Benzene	11.2		0.0235	0.250	250	10/08/2023 08:06	WG2147194
Bromodichloromethane	U		0.0340	0.250	250	10/08/2023 08:06	WG2147194
Bromoform	U		0.0323	0.250	250	10/08/2023 08:06	WG2147194
Bromomethane	U		0.151	1.25	250	10/08/2023 08:06	WG2147194
n-Butylbenzene	U		0.0393	0.250	250	10/08/2023 08:06	WG2147194
sec-Butylbenzene	U		0.0313	0.250	250	10/08/2023 08:06	WG2147194
Carbon disulfide	0.0294	J	0.0241	0.250	250	10/08/2023 08:06	WG2147194
Carbon tetrachloride	U		0.0320	0.250	250	10/08/2023 08:06	WG2147194
Chlorobenzene	U		0.0290	0.250	250	10/08/2023 08:06	WG2147194
Chlorodibromomethane	U		0.0350	0.250	250	10/08/2023 08:06	WG2147194
Chloroethane	U		0.0480	1.25	250	10/08/2023 08:06	WG2147194
Chloroform	U		0.0278	1.25	250	10/08/2023 08:06	WG2147194
Chloromethane	U	J4	0.240	0.625	250	10/08/2023 08:06	WG2147194
1,2-Dibromoethane	U		0.0315	0.250	250	10/08/2023 08:06	WG2147194
1,1-Dichloroethane	U		0.0250	0.250	250	10/08/2023 08:06	WG2147194

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		0.0205	0.250	250	10/08/2023 08:06	WG2147194
1,1-Dichloroethene	U		0.0470	0.250	250	10/08/2023 08:06	WG2147194
cis-1,2-Dichloroethene	U		0.0315	0.250	250	10/08/2023 08:06	WG2147194
trans-1,2-Dichloroethene	U		0.0373	0.250	250	10/08/2023 08:06	WG2147194
1,2-Dichloropropane	U		0.0373	0.250	250	10/08/2023 08:06	WG2147194
cis-1,3-Dichloropropene	U		0.0278	0.250	250	10/08/2023 08:06	WG2147194
trans-1,3-Dichloropropene	U		0.0295	0.250	250	10/08/2023 08:06	WG2147194
Ethylbenzene	0.630		0.0343	0.250	250	10/08/2023 08:06	WG2147194
Isopropylbenzene	0.0326	J	0.0263	0.250	250	10/08/2023 08:06	WG2147194
p-Isopropyltoluene	U		0.0300	0.250	250	10/08/2023 08:06	WG2147194
2-Butanone (MEK)	U		0.298	2.50	250	10/08/2023 08:06	WG2147194
2-Hexanone	U		0.197	2.50	250	10/08/2023 08:06	WG2147194
Methylene Chloride	U		0.108	1.25	250	10/08/2023 08:06	WG2147194
4-Methyl-2-pentanone (MIBK)	U		0.120	2.50	250	10/08/2023 08:06	WG2147194
Methyl tert-butyl ether	0.163	J	0.0253	0.250	250	10/08/2023 08:06	WG2147194
Naphthalene	U		0.250	1.25	250	10/08/2023 08:06	WG2147194
n-Propylbenzene	0.0511	J	0.0248	0.250	250	10/08/2023 08:06	WG2147194
Styrene	U		0.0295	0.250	250	10/08/2023 08:06	WG2147194
tert-Butyl alcohol	U		1.02	1.25	250	10/08/2023 08:06	WG2147194
1,1,1,2-Tetrachloroethane	U		0.0368	0.250	250	10/08/2023 08:06	WG2147194
1,1,2,2-Tetrachloroethane	U		0.0333	0.250	250	10/08/2023 08:06	WG2147194
Tetrachloroethene	U		0.0750	0.250	250	10/08/2023 08:06	WG2147194
Toluene	0.333		0.0695	0.250	250	10/08/2023 08:06	WG2147194
1,1,1-Trichloroethane	U		0.0373	0.250	250	10/08/2023 08:06	WG2147194
1,1,2-Trichloroethane	U		0.0395	0.250	250	10/08/2023 08:06	WG2147194
Trichloroethene	U		0.0475	0.250	250	10/08/2023 08:06	WG2147194
1,2,4-Trimethylbenzene	0.143	J	0.0805	0.250	250	10/08/2023 08:06	WG2147194
1,3,5-Trimethylbenzene	0.0311	J	0.0260	0.250	250	10/08/2023 08:06	WG2147194
Vinyl chloride	U		0.0585	0.250	250	10/08/2023 08:06	WG2147194
o-Xylene	U		0.0435	0.250	250	10/08/2023 08:06	WG2147194
m&p-Xylene	0.476	J	0.108	0.500	250	10/08/2023 08:06	WG2147194
Xylenes, Total	0.476	J	0.0435	0.750	250	10/08/2023 08:06	WG2147194
(S) Toluene-d8	*112*			*80.0-120*		*10/08/2023 08:06*	WG2147194
(S) 4-Bromofluorobenzene	*89.0*			*77.0-126*		*10/08/2023 08:06*	WG2147194
(S) 1,2-Dichloroethane-d4	*92.6*			*70.0-130*		*10/08/2023 08:06*	WG2147194

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	10/13/2023 23:13	WG2149783
(S) o-Terphenyl	*52.5*			*31.0-160*		*10/13/2023 23:13*	WG2149783

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	10/09/2023 12:14	WG2147703

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	0.524	B J	0.379	1.00	1	10/06/2023 06:29	WG2145803
Fluoride	0.0689	J	0.0640	0.150	1	10/06/2023 06:29	WG2145803
Nitrate	0.0864	J	0.0480	0.100	1	10/06/2023 06:29	WG2145803
Nitrite	0.0659	J	0.0420	0.100	1	10/06/2023 06:29	WG2145803
Sulfate	0.686	J	0.594	5.00	1	10/06/2023 06:29	WG2145803

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	10/18/2023 20:56	WG2146871
Barium	0.000599	J	0.000381	0.00200	1	10/18/2023 20:56	WG2146871
Calcium	0.182	J	0.0936	1.00	1	10/18/2023 20:56	WG2146871
Chromium	U		0.00124	0.00200	1	10/18/2023 20:56	WG2146871
Iron	U		0.0281	0.100	1	10/18/2023 20:56	WG2146871
Lead	U		0.000849	0.00200	1	10/18/2023 20:56	WG2146871
Manganese	U		0.000704	0.00500	1	10/18/2023 20:56	WG2146871
Potassium	U		0.108	2.00	1	10/18/2023 20:56	WG2146871
Selenium	U		0.000300	0.00200	1	10/18/2023 20:56	WG2146871
Sodium	0.398	J	0.376	2.00	1	10/18/2023 20:56	WG2146871

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	10/10/2023 12:56	WG2148221
(S) a,a,a-Trifluorotoluene(FID)	*110*			*78.0-120*		*10/10/2023 12:56*	WG2148221

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	10/08/2023 03:45	WG2147194
Benzene	U		0.0000941	0.00100	1	10/08/2023 03:45	WG2147194
Bromodichloromethane	U		0.000136	0.00100	1	10/08/2023 03:45	WG2147194
Bromoform	U		0.000129	0.00100	1	10/08/2023 03:45	WG2147194
Bromomethane	U		0.000605	0.00500	1	10/08/2023 03:45	WG2147194
n-Butylbenzene	U		0.000157	0.00100	1	10/08/2023 03:45	WG2147194
sec-Butylbenzene	U		0.000125	0.00100	1	10/08/2023 03:45	WG2147194
Carbon disulfide	U		0.0000962	0.00100	1	10/08/2023 03:45	WG2147194
Carbon tetrachloride	U		0.000128	0.00100	1	10/08/2023 03:45	WG2147194
Chlorobenzene	U		0.000116	0.00100	1	10/08/2023 03:45	WG2147194
Chlorodibromomethane	U		0.000140	0.00100	1	10/08/2023 03:45	WG2147194
Chloroethane	U		0.000192	0.00500	1	10/08/2023 03:45	WG2147194
Chloroform	0.000305	J	0.000111	0.00500	1	10/08/2023 03:45	WG2147194
Chloromethane	U	J4	0.000960	0.00250	1	10/08/2023 03:45	WG2147194
1,2-Dibromoethane	U		0.000126	0.00100	1	10/08/2023 03:45	WG2147194
1,1-Dichloroethane	U		0.000100	0.00100	1	10/08/2023 03:45	WG2147194
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/08/2023 03:45	WG2147194
1,1-Dichloroethene	U		0.000188	0.00100	1	10/08/2023 03:45	WG2147194
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/08/2023 03:45	WG2147194

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/08/2023 03:45	WG2147194
1,2-Dichloropropane	U		0.000149	0.00100	1	10/08/2023 03:45	WG2147194
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	10/08/2023 03:45	WG2147194
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/08/2023 03:45	WG2147194
Ethylbenzene	U		0.000137	0.00100	1	10/08/2023 03:45	WG2147194
Isopropylbenzene	U		0.000105	0.00100	1	10/08/2023 03:45	WG2147194
p-Isopropyltoluene	U		0.000120	0.00100	1	10/08/2023 03:45	WG2147194
2-Butanone (MEK)	U		0.00119	0.0100	1	10/08/2023 03:45	WG2147194
2-Hexanone	U		0.000787	0.0100	1	10/08/2023 03:45	WG2147194
Methylene Chloride	U		0.000430	0.00500	1	10/08/2023 03:45	WG2147194
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/08/2023 03:45	WG2147194
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/08/2023 03:45	WG2147194
Naphthalene	U		0.00100	0.00500	1	10/08/2023 03:45	WG2147194
n-Propylbenzene	U		0.0000993	0.00100	1	10/08/2023 03:45	WG2147194
Styrene	U		0.000118	0.00100	1	10/08/2023 03:45	WG2147194
tert-Butyl alcohol	U		0.00406	0.00500	1	10/08/2023 03:45	WG2147194
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	10/08/2023 03:45	WG2147194
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/08/2023 03:45	WG2147194
Tetrachloroethene	U		0.000300	0.00100	1	10/08/2023 03:45	WG2147194
Toluene	U		0.000278	0.00100	1	10/08/2023 03:45	WG2147194
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/08/2023 03:45	WG2147194
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/08/2023 03:45	WG2147194
Trichloroethene	U		0.000190	0.00100	1	10/08/2023 03:45	WG2147194
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/08/2023 03:45	WG2147194
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/08/2023 03:45	WG2147194
Vinyl chloride	U		0.000234	0.00100	1	10/08/2023 03:45	WG2147194
o-Xylene	U		0.000174	0.00100	1	10/08/2023 03:45	WG2147194
m&p-Xylene	U		0.000430	0.00200	1	10/08/2023 03:45	WG2147194
Xylenes, Total	U		0.000174	0.00300	1	10/08/2023 03:45	WG2147194
(S) Toluene-d8	*111*			*80.0-120*		*10/08/2023 03:45*	WG2147194
(S) 4-Bromofluorobenzene	*85.7*			*77.0-126*		*10/08/2023 03:45*	WG2147194
(S) 1,2-Dichloroethane-d4	*98.4*			*70.0-130*		*10/08/2023 03:45*	WG2147194

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	10/13/2023 23:39	WG2149783
(S) o-Terphenyl	*48.7*			*31.0-160*		*10/13/2023 23:39*	WG2149783

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	10/08/2023 03:23	WG2147194
Benzene	U		0.0000941	0.00100	1	10/08/2023 03:23	WG2147194
Bromodichloromethane	U		0.000136	0.00100	1	10/08/2023 03:23	WG2147194
Bromoform	U		0.000129	0.00100	1	10/08/2023 03:23	WG2147194
Bromomethane	U		0.000605	0.00500	1	10/08/2023 03:23	WG2147194
n-Butylbenzene	U		0.000157	0.00100	1	10/08/2023 03:23	WG2147194
sec-Butylbenzene	U		0.000125	0.00100	1	10/08/2023 03:23	WG2147194
Carbon disulfide	U		0.0000962	0.00100	1	10/08/2023 03:23	WG2147194
Carbon tetrachloride	U		0.000128	0.00100	1	10/08/2023 03:23	WG2147194
Chlorobenzene	U		0.000116	0.00100	1	10/08/2023 03:23	WG2147194
Chlorodibromomethane	U		0.000140	0.00100	1	10/08/2023 03:23	WG2147194
Chloroethane	U		0.000192	0.00500	1	10/08/2023 03:23	WG2147194
Chloroform	U		0.000111	0.00500	1	10/08/2023 03:23	WG2147194
Chloromethane	U	J4	0.000960	0.00250	1	10/08/2023 03:23	WG2147194
1,2-Dibromoethane	U		0.000126	0.00100	1	10/08/2023 03:23	WG2147194
1,1-Dichloroethane	U		0.000100	0.00100	1	10/08/2023 03:23	WG2147194
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/08/2023 03:23	WG2147194
1,1-Dichloroethene	U		0.000188	0.00100	1	10/08/2023 03:23	WG2147194
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/08/2023 03:23	WG2147194
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/08/2023 03:23	WG2147194
1,2-Dichloropropane	U		0.000149	0.00100	1	10/08/2023 03:23	WG2147194
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	10/08/2023 03:23	WG2147194
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/08/2023 03:23	WG2147194
Ethylbenzene	U		0.000137	0.00100	1	10/08/2023 03:23	WG2147194
Isopropylbenzene	U		0.000105	0.00100	1	10/08/2023 03:23	WG2147194
p-Isopropyltoluene	U		0.000120	0.00100	1	10/08/2023 03:23	WG2147194
2-Butanone (MEK)	U		0.00119	0.0100	1	10/08/2023 03:23	WG2147194
2-Hexanone	U		0.000787	0.0100	1	10/08/2023 03:23	WG2147194
Methylene Chloride	U		0.000430	0.00500	1	10/08/2023 03:23	WG2147194
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/08/2023 03:23	WG2147194
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/08/2023 03:23	WG2147194
Naphthalene	U		0.00100	0.00500	1	10/08/2023 03:23	WG2147194
n-Propylbenzene	U		0.0000993	0.00100	1	10/08/2023 03:23	WG2147194
Styrene	U		0.000118	0.00100	1	10/08/2023 03:23	WG2147194
tert-Butyl alcohol	U		0.00406	0.00500	1	10/08/2023 03:23	WG2147194
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	10/08/2023 03:23	WG2147194
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/08/2023 03:23	WG2147194
Tetrachloroethene	U		0.000300	0.00100	1	10/08/2023 03:23	WG2147194
Toluene	U		0.000278	0.00100	1	10/08/2023 03:23	WG2147194
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/08/2023 03:23	WG2147194
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/08/2023 03:23	WG2147194
Trichloroethene	U		0.000190	0.00100	1	10/08/2023 03:23	WG2147194
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/08/2023 03:23	WG2147194
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/08/2023 03:23	WG2147194
Vinyl chloride	U		0.000234	0.00100	1	10/08/2023 03:23	WG2147194
o-Xylene	U		0.000174	0.00100	1	10/08/2023 03:23	WG2147194
m&p-Xylene	U		0.000430	0.00200	1	10/08/2023 03:23	WG2147194
Xylenes, Total	U		0.000174	0.00300	1	10/08/2023 03:23	WG2147194
(S) Toluene-d8	*113*			*80.0-120*		*10/08/2023 03:23*	WG2147194
(S) 4-Bromofluorobenzene	*89.1*			*77.0-126*		*10/08/2023 03:23*	WG2147194
(S) 1,2-Dichloroethane-d4	*96.9*			*70.0-130*		*10/08/2023 03:23*	WG2147194

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1930		50.0	1	10/10/2023 13:19	WG2148182

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	71.3		0.379	1.00	1	10/11/2023 20:49	WG2148968
Fluoride	1.30		0.0640	0.150	1	10/11/2023 20:49	WG2148968
Nitrate	0.171	Q	0.0480	0.100	1	10/11/2023 20:49	WG2148968
Nitrite	U	Q	0.0420	0.100	1	10/11/2023 20:49	WG2148968
Sulfate	934		5.94	50.0	10	10/11/2023 21:02	WG2148968

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0356		0.000180	0.00200	1	10/19/2023 14:32	WG2146874
Barium	0.0197		0.000381	0.00200	1	10/19/2023 14:32	WG2146874
Calcium	190		0.0936	1.00	1	10/19/2023 14:32	WG2146874
Chromium	0.287		0.00124	0.00200	1	10/19/2023 14:32	WG2146874
Iron	2.43		0.0281	0.100	1	10/19/2023 14:32	WG2146874
Lead	0.00199	J	0.000849	0.00200	1	10/19/2023 14:32	WG2146874
Manganese	0.721		0.000704	0.00500	1	10/19/2023 14:32	WG2146874
Potassium	0.504	J	0.108	2.00	1	10/19/2023 14:32	WG2146874
Selenium	U		0.000300	0.00200	1	10/19/2023 14:32	WG2146874
Sodium	279		0.376	2.00	1	10/19/2023 14:32	WG2146874

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	0.472		0.0314	0.100	1	10/11/2023 18:44	WG2149400
(S) a,a,a-Trifluorotoluene(FID)	*111*			*78.0-120*		*10/11/2023 18:44*	WG2149400

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	10/09/2023 15:25	WG2147457
Benzene	U		0.0000941	0.00100	1	10/09/2023 15:25	WG2147457
Bromodichloromethane	U		0.000136	0.00100	1	10/09/2023 15:25	WG2147457
Bromoform	U		0.000129	0.00100	1	10/09/2023 15:25	WG2147457
Bromomethane	U		0.000605	0.00500	1	10/09/2023 15:25	WG2147457
n-Butylbenzene	U		0.000157	0.00100	1	10/09/2023 15:25	WG2147457
sec-Butylbenzene	0.0100		0.000125	0.00100	1	10/09/2023 15:25	WG2147457
Carbon disulfide	U		0.0000962	0.00100	1	10/09/2023 15:25	WG2147457
Carbon tetrachloride	U		0.000128	0.00100	1	10/09/2023 15:25	WG2147457
Chlorobenzene	U		0.000116	0.00100	1	10/09/2023 15:25	WG2147457
Chlorodibromomethane	U		0.000140	0.00100	1	10/09/2023 15:25	WG2147457
Chloroethane	U		0.000192	0.00500	1	10/09/2023 15:25	WG2147457
Chloroform	U		0.000111	0.00500	1	10/09/2023 15:25	WG2147457
Chloromethane	U		0.000960	0.00250	1	10/09/2023 15:25	WG2147457
1,2-Dibromoethane	U		0.000126	0.00100	1	10/09/2023 15:25	WG2147457
1,1-Dichloroethane	U		0.000100	0.00100	1	10/09/2023 15:25	WG2147457
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/09/2023 15:25	WG2147457
1,1-Dichloroethene	U		0.000188	0.00100	1	10/09/2023 15:25	WG2147457
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/09/2023 15:25	WG2147457

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/09/2023 15:25	WG2147457
1,2-Dichloropropane	U		0.000149	0.00100	1	10/09/2023 15:25	WG2147457
cis-1,3-Dichloropropene	U	J4	0.000111	0.00100	1	10/09/2023 15:25	WG2147457
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/09/2023 15:25	WG2147457
Ethylbenzene	0.000167	J	0.000137	0.00100	1	10/09/2023 15:25	WG2147457
Isopropylbenzene	0.00968		0.000105	0.00100	1	10/09/2023 15:25	WG2147457
p-Isopropyltoluene	U		0.000120	0.00100	1	10/09/2023 15:25	WG2147457
2-Butanone (MEK)	U		0.00119	0.0100	1	10/09/2023 15:25	WG2147457
2-Hexanone	U		0.000787	0.0100	1	10/09/2023 15:25	WG2147457
Methylene Chloride	U		0.000430	0.00500	1	10/09/2023 15:25	WG2147457
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/09/2023 15:25	WG2147457
Methyl tert-butyl ether	0.000902	J	0.000101	0.00100	1	10/09/2023 15:25	WG2147457
Naphthalene	0.00206	J	0.00100	0.00500	1	10/09/2023 15:25	WG2147457
n-Propylbenzene	0.00159		0.0000993	0.00100	1	10/09/2023 15:25	WG2147457
Styrene	U		0.000118	0.00100	1	10/09/2023 15:25	WG2147457
tert-Butyl alcohol	0.0196		0.00406	0.00500	1	10/09/2023 15:25	WG2147457
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	10/09/2023 15:25	WG2147457
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/09/2023 15:25	WG2147457
Tetrachloroethene	U		0.000300	0.00100	1	10/09/2023 15:25	WG2147457
Toluene	0.000331	J	0.000278	0.00100	1	10/09/2023 15:25	WG2147457
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/09/2023 15:25	WG2147457
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/09/2023 15:25	WG2147457
Trichloroethene	U		0.000190	0.00100	1	10/09/2023 15:25	WG2147457
1,2,4-Trimethylbenzene	0.000723	J	0.000322	0.00100	1	10/09/2023 15:25	WG2147457
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/09/2023 15:25	WG2147457
Vinyl chloride	U		0.000234	0.00100	1	10/09/2023 15:25	WG2147457
o-Xylene	U		0.000174	0.00100	1	10/09/2023 15:25	WG2147457
m&p-Xylene	0.000497	J	0.000430	0.00200	1	10/09/2023 15:25	WG2147457
Xylenes, Total	0.000497	J	0.000174	0.00300	1	10/09/2023 15:25	WG2147457
(S) Toluene-d8	*125*	J1		*80.0-120*		*10/09/2023 15:25*	WG2147457
(S) 4-Bromofluorobenzene	*110*			*77.0-126*		*10/09/2023 15:25*	WG2147457
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*10/09/2023 15:25*	WG2147457

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	2.88		0.0247	0.100	1	10/15/2023 00:05	WG2150506
(S) o-Terphenyl	*99.5*			*31.0-160*		*10/15/2023 00:05*	WG2150506

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3490	J3	50.0	1	10/10/2023 13:19	WG2148182

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	528		3.79	10.0	10	10/13/2023 15:17	WG2149864
Fluoride	0.970	J	0.640	1.50	10	10/13/2023 15:17	WG2149864
Nitrate	U	T8	0.480	1.00	10	10/13/2023 15:17	WG2149864
Nitrite	U	T8	0.420	1.00	10	10/13/2023 15:17	WG2149864
Sulfate	1100		5.94	50.0	10	10/13/2023 15:17	WG2149864

Sample Narrative:

L1663141-47 WG2149864: Dilution due to matrix.

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	10/10/2023 16:12	WG2147169

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	0.826		0.0200	0.200	1	10/14/2023 00:36	WG2146858

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0218		0.000180	0.00200	1	10/19/2023 14:36	WG2146874
Barium	0.0228		0.000381	0.00200	1	10/19/2023 14:36	WG2146874
Cadmium	U		0.000150	0.00100	1	10/19/2023 14:36	WG2146874
Calcium	388		0.0936	1.00	1	10/19/2023 14:36	WG2146874
Chromium	U		0.00124	0.00200	1	10/19/2023 14:36	WG2146874
Cobalt	0.000638	J	0.0000596	0.00200	1	10/19/2023 14:36	WG2146874
Iron	6.05		0.0281	0.100	1	10/19/2023 14:36	WG2146874
Lead	U		0.000849	0.00200	1	10/19/2023 14:36	WG2146874
Manganese	0.487		0.000704	0.00500	1	10/19/2023 14:36	WG2146874
Nickel	0.00953		0.000816	0.00200	1	10/19/2023 14:36	WG2146874
Potassium	1.94	J	0.108	2.00	1	10/19/2023 14:36	WG2146874
Selenium	0.00113	J	0.000300	0.00200	1	10/19/2023 14:36	WG2146874
Sodium	381		0.376	2.00	1	10/19/2023 14:36	WG2146874
Uranium	0.00246		0.0000789	0.00100	1	10/19/2023 14:36	WG2146874
Vanadium	0.00710		0.000664	0.00500	1	10/19/2023 14:36	WG2146874

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	0.335		0.0314	0.100	1	10/11/2023 19:06	WG2149400
(S) a,a,a-Trifluorotoluene(FID)	*110*			*78.0-120*		*10/11/2023 19:06*	WG2149400

Received by OCD: 6/12/2024 3:31:05 PM

MW-29
Collected date/time: 10/04/23 10:15
L1663141

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	10/09/2023 15:47	WG2147457
Benzene	U		0.0000941	0.00100	1	10/09/2023 15:47	WG2147457
Bromodichloromethane	U		0.000136	0.00100	1	10/09/2023 15:47	WG2147457
Bromoform	U		0.000129	0.00100	1	10/09/2023 15:47	WG2147457
Bromomethane	U		0.000605	0.00500	1	10/09/2023 15:47	WG2147457
n-Butylbenzene	U		0.000157	0.00100	1	10/09/2023 15:47	WG2147457
sec-Butylbenzene	U		0.000125	0.00100	1	10/09/2023 15:47	WG2147457
Carbon disulfide	U		0.0000962	0.00100	1	10/09/2023 15:47	WG2147457
Carbon tetrachloride	U		0.000128	0.00100	1	10/09/2023 15:47	WG2147457
Chlorobenzene	U		0.000116	0.00100	1	10/09/2023 15:47	WG2147457
Chlorodibromomethane	U		0.000140	0.00100	1	10/09/2023 15:47	WG2147457
Chloroethane	U		0.000192	0.00500	1	10/09/2023 15:47	WG2147457
Chloroform	U		0.000111	0.00500	1	10/09/2023 15:47	WG2147457
Chloromethane	U		0.000960	0.00250	1	10/09/2023 15:47	WG2147457
1,2-Dibromoethane	U		0.000126	0.00100	1	10/09/2023 15:47	WG2147457
1,1-Dichloroethane	U		0.000100	0.00100	1	10/09/2023 15:47	WG2147457
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/09/2023 15:47	WG2147457
1,1-Dichloroethene	U		0.000188	0.00100	1	10/09/2023 15:47	WG2147457
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/09/2023 15:47	WG2147457
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/09/2023 15:47	WG2147457
1,2-Dichloropropane	U		0.000149	0.00100	1	10/09/2023 15:47	WG2147457
cis-1,3-Dichloropropene	U	J4	0.000111	0.00100	1	10/09/2023 15:47	WG2147457
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/09/2023 15:47	WG2147457
Ethylbenzene	U		0.000137	0.00100	1	10/09/2023 15:47	WG2147457
Isopropylbenzene	U		0.000105	0.00100	1	10/09/2023 15:47	WG2147457
p-Isopropyltoluene	U		0.000120	0.00100	1	10/09/2023 15:47	WG2147457
2-Butanone (MEK)	U		0.00119	0.0100	1	10/09/2023 15:47	WG2147457
2-Hexanone	U		0.000787	0.0100	1	10/09/2023 15:47	WG2147457
Methylene Chloride	U		0.000430	0.00500	1	10/09/2023 15:47	WG2147457
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/09/2023 15:47	WG2147457
Methyl tert-butyl ether	0.137		0.000101	0.00100	1	10/09/2023 15:47	WG2147457
Naphthalene	U		0.00100	0.00500	1	10/09/2023 15:47	WG2147457
n-Propylbenzene	U		0.0000993	0.00100	1	10/09/2023 15:47	WG2147457
Styrene	U		0.000118	0.00100	1	10/09/2023 15:47	WG2147457
tert-Butyl alcohol	U		0.00406	0.00500	1	10/09/2023 15:47	WG2147457
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	10/09/2023 15:47	WG2147457
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/09/2023 15:47	WG2147457
Tetrachloroethene	U		0.000300	0.00100	1	10/09/2023 15:47	WG2147457
Toluene	U		0.000278	0.00100	1	10/09/2023 15:47	WG2147457
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/09/2023 15:47	WG2147457
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/09/2023 15:47	WG2147457
Trichloroethene	U		0.000190	0.00100	1	10/09/2023 15:47	WG2147457
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/09/2023 15:47	WG2147457
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/09/2023 15:47	WG2147457
Vinyl chloride	U		0.000234	0.00100	1	10/09/2023 15:47	WG2147457
o-Xylene	U		0.000174	0.00100	1	10/09/2023 15:47	WG2147457
m&p-Xylene	U		0.000430	0.00200	1	10/09/2023 15:47	WG2147457
Xylenes, Total	U		0.000174	0.00300	1	10/09/2023 15:47	WG2147457
(S) Toluene-d8	*117*			*80.0-120*		*10/09/2023 15:47*	WG2147457
(S) 4-Bromofluorobenzene	*105*			*77.0-126*		*10/09/2023 15:47*	WG2147457
(S) 1,2-Dichloroethane-d4	*114*			*70.0-130*		*10/09/2023 15:47*	WG2147457

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	4.17		0.0247	0.100	1	10/15/2023 00:26	WG2150506

Released to Imaging: 6/28/2024 11:23:28 AM

MW-23
Collected date/time: 10/04/23 10:15

L1663141

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	*96.8*			*31.0-160*		*10/15/2023 00:26*	WG2150506

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1290		50.0	1	10/10/2023 12:55	WG2148179

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		0.0720	0.200	40	10/09/2023 11:29	WG2146824

Sample Narrative:

L1663141-48 WG2146824: Dilution due to matrix interference.

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	199	V	3.79	10.0	10	10/13/2023 15:55	WG2149864
Fluoride	1.32		0.0640	0.150	1	10/13/2023 15:42	WG2149864
Nitrate	U	T8	0.0480	0.100	1	10/13/2023 15:42	WG2149864
Nitrite	U	T8	0.0420	0.100	1	10/13/2023 15:42	WG2149864
Sulfate	92.5		0.594	5.00	1	10/13/2023 15:42	WG2149864

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	10/10/2023 16:14	WG2147169

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	0.796		0.0200	0.200	1	10/14/2023 00:39	WG2146858

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00413		0.000180	0.00200	1	10/19/2023 14:39	WG2146874
Barium	0.0820		0.000381	0.00200	1	10/19/2023 14:39	WG2146874
Cadmium	U		0.000150	0.00100	1	10/19/2023 14:39	WG2146874
Calcium	144		0.0936	1.00	1	10/19/2023 14:39	WG2146874
Chromium	U		0.00124	0.00200	1	10/19/2023 14:39	WG2146874
Cobalt	0.000217	J	0.0000596	0.00200	1	10/19/2023 14:39	WG2146874
Iron	0.304		0.0281	0.100	1	10/19/2023 14:39	WG2146874
Lead	0.00132	J	0.000849	0.00200	1	10/19/2023 14:39	WG2146874
Manganese	0.117		0.000704	0.00500	1	10/19/2023 14:39	WG2146874
Nickel	0.00817		0.000816	0.00200	1	10/19/2023 14:39	WG2146874
Potassium	2.34		0.108	2.00	1	10/19/2023 14:39	WG2146874
Selenium	U		0.000300	0.00200	1	10/19/2023 14:39	WG2146874
Sodium	277		0.376	2.00	1	10/19/2023 14:39	WG2146874
Uranium	U		0.0000789	0.00100	1	10/19/2023 14:39	WG2146874
Vanadium	0.000916	J	0.000664	0.00500	1	10/19/2023 14:39	WG2146874

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	6.54		0.157	0.500	5	10/11/2023 23:38	WG2149400

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)	*105*			*78.0-120*		*10/11/2023 23:38*	WG2149400

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	10/09/2023 19:26	WG2147457
Benzene	0.588		0.000941	0.0100	10	10/09/2023 19:26	WG2147457
Bromodichloromethane	U		0.00136	0.0100	10	10/09/2023 19:26	WG2147457
Bromoform	U		0.00129	0.0100	10	10/09/2023 19:26	WG2147457
Bromomethane	U		0.00605	0.0500	10	10/09/2023 19:26	WG2147457
n-Butylbenzene	U		0.00157	0.0100	10	10/09/2023 19:26	WG2147457
sec-Butylbenzene	0.0122		0.00125	0.0100	10	10/09/2023 19:26	WG2147457
Carbon disulfide	U		0.000962	0.0100	10	10/09/2023 19:26	WG2147457
Carbon tetrachloride	U		0.00128	0.0100	10	10/09/2023 19:26	WG2147457
Chlorobenzene	U		0.00116	0.0100	10	10/09/2023 19:26	WG2147457
Chlorodibromomethane	U		0.00140	0.0100	10	10/09/2023 19:26	WG2147457
Chloroethane	U		0.00192	0.0500	10	10/09/2023 19:26	WG2147457
Chloroform	U		0.00111	0.0500	10	10/09/2023 19:26	WG2147457
Chloromethane	U		0.00960	0.0250	10	10/09/2023 19:26	WG2147457
1,2-Dibromoethane	U		0.00126	0.0100	10	10/09/2023 19:26	WG2147457
1,1-Dichloroethane	U		0.00100	0.0100	10	10/09/2023 19:26	WG2147457
1,2-Dichloroethane	U		0.000819	0.0100	10	10/09/2023 19:26	WG2147457
1,1-Dichloroethene	U		0.00188	0.0100	10	10/09/2023 19:26	WG2147457
cis-1,2-Dichloroethene	U		0.00126	0.0100	10	10/09/2023 19:26	WG2147457
trans-1,2-Dichloroethene	U		0.00149	0.0100	10	10/09/2023 19:26	WG2147457
1,2-Dichloropropane	U		0.00149	0.0100	10	10/09/2023 19:26	WG2147457
cis-1,3-Dichloropropene	U	J4	0.00111	0.0100	10	10/09/2023 19:26	WG2147457
trans-1,3-Dichloropropene	U		0.00118	0.0100	10	10/09/2023 19:26	WG2147457
Ethylbenzene	0.0405		0.00137	0.0100	10	10/09/2023 19:26	WG2147457
Isopropylbenzene	0.0610		0.00105	0.0100	10	10/09/2023 19:26	WG2147457
p-Isopropyltoluene	0.00415	J	0.00120	0.0100	10	10/09/2023 19:26	WG2147457
2-Butanone (MEK)	U		0.0119	0.100	10	10/09/2023 19:26	WG2147457
2-Hexanone	U		0.00787	0.100	10	10/09/2023 19:26	WG2147457
Methylene Chloride	U		0.00430	0.0500	10	10/09/2023 19:26	WG2147457
4-Methyl-2-pentanone (MIBK)	U		0.00478	0.100	10	10/09/2023 19:26	WG2147457
Methyl tert-butyl ether	0.0954		0.00101	0.0100	10	10/09/2023 19:26	WG2147457
Naphthalene	0.0411	J	0.0100	0.0500	10	10/09/2023 19:26	WG2147457
n-Propylbenzene	0.0799		0.000993	0.0100	10	10/09/2023 19:26	WG2147457
Styrene	U		0.00118	0.0100	10	10/09/2023 19:26	WG2147457
tert-Butyl alcohol	U		0.0406	0.0500	10	10/09/2023 19:26	WG2147457
1,1,1,2-Tetrachloroethane	U		0.00147	0.0100	10	10/09/2023 19:26	WG2147457
1,1,2,2-Tetrachloroethane	U		0.00133	0.0100	10	10/09/2023 19:26	WG2147457
Tetrachloroethene	U		0.00300	0.0100	10	10/09/2023 19:26	WG2147457
Toluene	0.0294		0.00278	0.0100	10	10/09/2023 19:26	WG2147457
1,1,1-Trichloroethane	U		0.00149	0.0100	10	10/09/2023 19:26	WG2147457
1,1,2-Trichloroethane	U		0.00158	0.0100	10	10/09/2023 19:26	WG2147457
Trichloroethene	U		0.00190	0.0100	10	10/09/2023 19:26	WG2147457
1,2,4-Trimethylbenzene	0.179		0.00322	0.0100	10	10/09/2023 19:26	WG2147457
1,3,5-Trimethylbenzene	0.0228		0.00104	0.0100	10	10/09/2023 19:26	WG2147457
Vinyl chloride	U		0.00234	0.0100	10	10/09/2023 19:26	WG2147457
o-Xylene	0.00331	J	0.00174	0.0100	10	10/09/2023 19:26	WG2147457
m&p-Xylene	0.251		0.00430	0.0200	10	10/09/2023 19:26	WG2147457
Xylenes, Total	0.254		0.00174	0.0300	10	10/09/2023 19:26	WG2147457
(S) Toluene-d8	*115*			*80.0-120*		*10/09/2023 19:26*	WG2147457
(S) 4-Bromofluorobenzene	*99.6*			*77.0-126*		*10/09/2023 19:26*	WG2147457

MW-45
Collected date/time: 10/04/23 08:25
L1663141

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	*111*			*70.0-130*		*10/09/2023 19:26*	WG2147457

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	5.90		0.0247	0.100	1	10/15/2023 00:47	WG2150506
(S) o-Terphenyl	*105*			*31.0-160*		*10/15/2023 00:47*	WG2150506

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	647		13.3	1	10/10/2023 13:19	WG2148182

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	46.7		0.379	1.00	1	10/13/2023 17:24	WG2149864
Fluoride	0.970		0.0640	0.150	1	10/13/2023 17:24	WG2149864
Nitrate	1.08	T8	0.0480	0.100	1	10/13/2023 17:24	WG2149864
Nitrite	1.79	T8	0.0420	0.100	1	10/13/2023 17:24	WG2149864
Sulfate	250		2.97	25.0	5	10/13/2023 17:37	WG2149864

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00377		0.000180	0.00200	1	10/19/2023 14:42	WG2146874
Barium	0.0468		0.000381	0.00200	1	10/19/2023 14:42	WG2146874
Calcium	44.0		0.0936	1.00	1	10/19/2023 14:42	WG2146874
Chromium	0.00272		0.00124	0.00200	1	10/19/2023 14:42	WG2146874
Iron	0.708		0.0281	0.100	1	10/19/2023 14:42	WG2146874
Lead	0.00148	J	0.000849	0.00200	1	10/19/2023 14:42	WG2146874
Manganese	0.0193		0.000704	0.00500	1	10/19/2023 14:42	WG2146874
Potassium	3.64		0.108	2.00	1	10/19/2023 14:42	WG2146874
Selenium	0.00640		0.000300	0.00200	1	10/19/2023 14:42	WG2146874
Sodium	174		0.376	2.00	1	10/19/2023 14:42	WG2146874

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	4.37		0.0314	0.100	1	10/11/2023 19:29	WG2149400
(S) a,a,a-Trifluorotoluene(FID)	*96.5*			*78.0-120*		*10/11/2023 19:29*	WG2149400

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	10/09/2023 19:47	WG2147457
Benzene	1.23		0.000941	0.0100	10	10/09/2023 19:47	WG2147457
Bromodichloromethane	U		0.00136	0.0100	10	10/09/2023 19:47	WG2147457
Bromoform	U		0.00129	0.0100	10	10/09/2023 19:47	WG2147457
Bromomethane	U		0.00605	0.0500	10	10/09/2023 19:47	WG2147457
n-Butylbenzene	U		0.00157	0.0100	10	10/09/2023 19:47	WG2147457
sec-Butylbenzene	0.00272	J	0.00125	0.0100	10	10/09/2023 19:47	WG2147457
Carbon disulfide	U		0.000962	0.0100	10	10/09/2023 19:47	WG2147457
Carbon tetrachloride	U		0.00128	0.0100	10	10/09/2023 19:47	WG2147457
Chlorobenzene	U		0.00116	0.0100	10	10/09/2023 19:47	WG2147457
Chlorodibromomethane	U		0.00140	0.0100	10	10/09/2023 19:47	WG2147457
Chloroethane	U		0.00192	0.0500	10	10/09/2023 19:47	WG2147457
Chloroform	U		0.00111	0.0500	10	10/09/2023 19:47	WG2147457
Chloromethane	U		0.00960	0.0250	10	10/09/2023 19:47	WG2147457
1,2-Dibromoethane	U		0.00126	0.0100	10	10/09/2023 19:47	WG2147457
1,1-Dichloroethane	U		0.00100	0.0100	10	10/09/2023 19:47	WG2147457
1,2-Dichloroethane	U		0.000819	0.0100	10	10/09/2023 19:47	WG2147457
1,1-Dichloroethene	U		0.00188	0.0100	10	10/09/2023 19:47	WG2147457
cis-1,2-Dichloroethene	U		0.00126	0.0100	10	10/09/2023 19:47	WG2147457

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
trans-1,2-Dichloroethene	U		0.00149	0.0100	10	10/09/2023 19:47	WG2147457
1,2-Dichloropropane	U		0.00149	0.0100	10	10/09/2023 19:47	WG2147457
cis-1,3-Dichloropropene	U	J4	0.00111	0.0100	10	10/09/2023 19:47	WG2147457
trans-1,3-Dichloropropene	U		0.00118	0.0100	10	10/09/2023 19:47	WG2147457
Ethylbenzene	0.0183		0.00137	0.0100	10	10/09/2023 19:47	WG2147457
Isopropylbenzene	0.0110		0.00105	0.0100	10	10/09/2023 19:47	WG2147457
p-Isopropyltoluene	U		0.00120	0.0100	10	10/09/2023 19:47	WG2147457
2-Butanone (MEK)	U		0.0119	0.100	10	10/09/2023 19:47	WG2147457
2-Hexanone	U		0.00787	0.100	10	10/09/2023 19:47	WG2147457
Methylene Chloride	U		0.00430	0.0500	10	10/09/2023 19:47	WG2147457
4-Methyl-2-pentanone (MIBK)	U		0.00478	0.100	10	10/09/2023 19:47	WG2147457
Methyl tert-butyl ether	U		0.00101	0.0100	10	10/09/2023 19:47	WG2147457
Naphthalene	0.0210	J	0.0100	0.0500	10	10/09/2023 19:47	WG2147457
n-Propylbenzene	0.0140		0.000993	0.0100	10	10/09/2023 19:47	WG2147457
Styrene	U		0.00118	0.0100	10	10/09/2023 19:47	WG2147457
tert-Butyl alcohol	U		0.0406	0.0500	10	10/09/2023 19:47	WG2147457
1,1,1,2-Tetrachloroethane	U		0.00147	0.0100	10	10/09/2023 19:47	WG2147457
1,1,2,2-Tetrachloroethane	U		0.00133	0.0100	10	10/09/2023 19:47	WG2147457
Tetrachloroethene	U		0.00300	0.0100	10	10/09/2023 19:47	WG2147457
Toluene	0.0404		0.00278	0.0100	10	10/09/2023 19:47	WG2147457
1,1,1-Trichloroethane	U		0.00149	0.0100	10	10/09/2023 19:47	WG2147457
1,1,2-Trichloroethane	U		0.00158	0.0100	10	10/09/2023 19:47	WG2147457
Trichloroethene	U		0.00190	0.0100	10	10/09/2023 19:47	WG2147457
1,2,4-Trimethylbenzene	0.0301		0.00322	0.0100	10	10/09/2023 19:47	WG2147457
1,3,5-Trimethylbenzene	0.00603	J	0.00104	0.0100	10	10/09/2023 19:47	WG2147457
Vinyl chloride	U		0.00234	0.0100	10	10/09/2023 19:47	WG2147457
o-Xylene	0.00687	J	0.00174	0.0100	10	10/09/2023 19:47	WG2147457
m&p-Xylene	0.0562		0.00430	0.0200	10	10/09/2023 19:47	WG2147457
Xylenes, Total	0.0631		0.00174	0.0300	10	10/09/2023 19:47	WG2147457
(S) Toluene-d8	*116*			*80.0-120*		*10/09/2023 19:47*	WG2147457
(S) 4-Bromofluorobenzene	*99.9*			*77.0-126*		*10/09/2023 19:47*	WG2147457
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*10/09/2023 19:47*	WG2147457

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	1.50		0.0247	0.100	1	10/15/2023 01:07	WG2150506
(S) o-Terphenyl	*99.5*			*31.0-160*		*10/15/2023 01:07*	WG2150506

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	0.000241	B J	0.0000447	0.000400	1	10/19/2023 17:05	WG2147633
(S) Nitrobenzene-d5	*85.7*			*10.0-120*		*10/19/2023 17:05*	WG2147633

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4070		50.0	1	10/09/2023 19:53	WG2146109

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	10/09/2023 18:19	WG2145820

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	279		3.79	10.0	10	10/06/2023 06:30	WG2145796
Fluoride	1.40	J	0.640	1.50	10	10/06/2023 06:30	WG2145796
Nitrate	U		0.480	1.00	10	10/06/2023 06:30	WG2145796
Nitrite	U		0.420	1.00	10	10/06/2023 06:30	WG2145796
Sulfate	2130		59.4	500	100	10/06/2023 06:43	WG2145796

Sample Narrative:

L1663141-50 WG2145796: Dilution due to matrix.

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	10/10/2023 14:14	WG2146007

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	0.681		0.0200	0.200	1	10/11/2023 23:11	WG2146855

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00739		0.000180	0.00200	1	10/18/2023 21:06	WG2146871
Barium	0.0147		0.000381	0.00200	1	10/18/2023 21:06	WG2146871
Cadmium	U		0.000150	0.00100	1	10/18/2023 21:06	WG2146871
Calcium	489		0.0936	1.00	1	10/18/2023 21:06	WG2146871
Chromium	U		0.00124	0.00200	1	10/18/2023 21:06	WG2146871
Cobalt	0.000460	J	0.0000596	0.00200	1	10/18/2023 21:06	WG2146871
Iron	1.68		0.0281	0.100	1	10/18/2023 21:06	WG2146871
Lead	0.00447		0.000849	0.00200	1	10/18/2023 21:06	WG2146871
Manganese	0.632		0.000704	0.00500	1	10/18/2023 21:06	WG2146871
Nickel	0.00528		0.000816	0.00200	1	10/18/2023 21:06	WG2146871
Potassium	4.18		0.108	2.00	1	10/18/2023 21:06	WG2146871
Selenium	0.000327	J	0.000300	0.00200	1	10/18/2023 21:06	WG2146871
Sodium	329		0.376	2.00	1	10/18/2023 21:06	WG2146871
Uranium	0.000530	J	0.0000789	0.00100	1	10/18/2023 21:06	WG2146871
Vanadium	0.000996	J	0.000664	0.00500	1	10/18/2023 21:06	WG2146871

Received by OCD: 6/12/2024 3:31:05 PM

MW-45
Collected date/time: 10/04/23 13:35
L1663141

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	10/08/2023 14:21	WG2147386
Benzene	U		0.0000941	0.00100	1	10/08/2023 14:21	WG2147386
Bromodichloromethane	U		0.000136	0.00100	1	10/08/2023 14:21	WG2147386
Bromoform	U		0.000129	0.00100	1	10/08/2023 14:21	WG2147386
Bromomethane	U		0.000605	0.00500	1	10/08/2023 14:21	WG2147386
n-Butylbenzene	U		0.000157	0.00100	1	10/08/2023 14:21	WG2147386
sec-Butylbenzene	U		0.000125	0.00100	1	10/08/2023 14:21	WG2147386
Carbon disulfide	U		0.0000962	0.00100	1	10/08/2023 14:21	WG2147386
Carbon tetrachloride	U		0.000128	0.00100	1	10/08/2023 14:21	WG2147386
Chlorobenzene	U		0.000116	0.00100	1	10/08/2023 14:21	WG2147386
Chlorodibromomethane	U		0.000140	0.00100	1	10/08/2023 14:21	WG2147386
Chloroethane	U		0.000192	0.00500	1	10/08/2023 14:21	WG2147386
Chloroform	U		0.000111	0.00500	1	10/08/2023 14:21	WG2147386
Chloromethane	U		0.000960	0.00250	1	10/08/2023 14:21	WG2147386
1,2-Dibromoethane	U		0.000126	0.00100	1	10/08/2023 14:21	WG2147386
1,1-Dichloroethane	U		0.000100	0.00100	1	10/08/2023 14:21	WG2147386
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/08/2023 14:21	WG2147386
1,1-Dichloroethene	U		0.000188	0.00100	1	10/08/2023 14:21	WG2147386
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/08/2023 14:21	WG2147386
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/08/2023 14:21	WG2147386
1,2-Dichloropropane	U		0.000149	0.00100	1	10/08/2023 14:21	WG2147386
cis-1,3-Dichloropropene	U	J4	0.000111	0.00100	1	10/08/2023 14:21	WG2147386
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/08/2023 14:21	WG2147386
Ethylbenzene	U		0.000137	0.00100	1	10/08/2023 14:21	WG2147386
Isopropylbenzene	U		0.000105	0.00100	1	10/08/2023 14:21	WG2147386
p-Isopropyltoluene	U		0.000120	0.00100	1	10/08/2023 14:21	WG2147386
2-Butanone (MEK)	U		0.00119	0.0100	1	10/08/2023 14:21	WG2147386
2-Hexanone	U		0.000787	0.0100	1	10/08/2023 14:21	WG2147386
Methylene Chloride	U		0.000430	0.00500	1	10/08/2023 14:21	WG2147386
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/08/2023 14:21	WG2147386
Methyl tert-butyl ether	0.00379		0.000101	0.00100	1	10/08/2023 14:21	WG2147386
Naphthalene	U		0.00100	0.00500	1	10/08/2023 14:21	WG2147386
n-Propylbenzene	U		0.0000993	0.00100	1	10/08/2023 14:21	WG2147386
Styrene	U		0.000118	0.00100	1	10/08/2023 14:21	WG2147386
tert-Butyl alcohol	U		0.00406	0.00500	1	10/08/2023 14:21	WG2147386
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	10/08/2023 14:21	WG2147386
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/08/2023 14:21	WG2147386
Tetrachloroethene	U		0.000300	0.00100	1	10/08/2023 14:21	WG2147386
Toluene	U		0.000278	0.00100	1	10/08/2023 14:21	WG2147386
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/08/2023 14:21	WG2147386
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/08/2023 14:21	WG2147386
Trichloroethene	U		0.000190	0.00100	1	10/08/2023 14:21	WG2147386
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/08/2023 14:21	WG2147386
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/08/2023 14:21	WG2147386
Vinyl chloride	U		0.000234	0.00100	1	10/08/2023 14:21	WG2147386
o-Xylene	U		0.000174	0.00100	1	10/08/2023 14:21	WG2147386
m&p-Xylene	U		0.000430	0.00200	1	10/08/2023 14:21	WG2147386
Xylenes, Total	U		0.000174	0.00300	1	10/08/2023 14:21	WG2147386
(S) Toluene-d8	*116*			*80.0-120*		*10/08/2023 14:21*	WG2147386
(S) 4-Bromofluorobenzene	*101*			*77.0-126*		*10/08/2023 14:21*	WG2147386
(S) 1,2-Dichloroethane-d4	*114*			*70.0-130*		*10/08/2023 14:21*	WG2147386

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	0.807		0.0247	0.100	1	10/14/2023 00:05	WG2149783

Released to Imaging: 6/28/2024 11:23:28 AM

MW-43
Collected date/time: 10/04/23 13:35
L1663141

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	*63.5*			*31.0-160*		*10/14/2023 00:05*	WG2149783

Received by OCD: 6/12/2024 3:31:05 PM

DUP-TEL-01
Collected date/time: 10/04/23 11:00
L1663141

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1810		50.0	1	10/10/2023 13:19	WG2148182

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	71.6		0.379	1.00	1	10/13/2023 17:50	WG2149864
Fluoride	1.10		0.0640	0.150	1	10/13/2023 17:50	WG2149864
Nitrate	0.207	T8	0.0480	0.100	1	10/13/2023 17:50	WG2149864
Nitrite	U	T8	0.0420	0.100	1	10/13/2023 17:50	WG2149864
Sulfate	897		5.94	50.0	10	10/13/2023 18:02	WG2149864

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0451		0.000180	0.00200	1	10/19/2023 14:45	WG2146874
Barium	0.0207		0.000381	0.00200	1	10/19/2023 14:45	WG2146874
Calcium	195		0.0936	1.00	1	10/19/2023 14:45	WG2146874
Chromium	0.543		0.00124	0.00200	1	10/19/2023 14:45	WG2146874
Iron	5.48		0.0281	0.100	1	10/19/2023 14:45	WG2146874
Lead	0.00349		0.000849	0.00200	1	10/19/2023 14:45	WG2146874
Manganese	0.776		0.000704	0.00500	1	10/19/2023 14:45	WG2146874
Potassium	0.496	J	0.108	2.00	1	10/19/2023 14:45	WG2146874
Selenium	0.000494	J	0.000300	0.00200	1	10/19/2023 14:45	WG2146874
Sodium	288		0.376	2.00	1	10/19/2023 14:45	WG2146874

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	0.563		0.0314	0.100	1	10/11/2023 19:52	WG2149400
(S) a,a,a-Trifluorotoluene(FID)	*111*			*78.0-120*		*10/11/2023 19:52*	WG2149400

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	10/09/2023 16:09	WG2147457
Benzene	U		0.0000941	0.00100	1	10/09/2023 16:09	WG2147457
Bromodichloromethane	U		0.000136	0.00100	1	10/09/2023 16:09	WG2147457
Bromoform	U		0.000129	0.00100	1	10/09/2023 16:09	WG2147457
Bromomethane	U		0.000605	0.00500	1	10/09/2023 16:09	WG2147457
n-Butylbenzene	U		0.000157	0.00100	1	10/09/2023 16:09	WG2147457
sec-Butylbenzene	0.0103		0.000125	0.00100	1	10/09/2023 16:09	WG2147457
Carbon disulfide	U		0.0000962	0.00100	1	10/09/2023 16:09	WG2147457
Carbon tetrachloride	U		0.000128	0.00100	1	10/09/2023 16:09	WG2147457
Chlorobenzene	U		0.000116	0.00100	1	10/09/2023 16:09	WG2147457
Chlorodibromomethane	U		0.000140	0.00100	1	10/09/2023 16:09	WG2147457
Chloroethane	U		0.000192	0.00500	1	10/09/2023 16:09	WG2147457
Chloroform	U		0.000111	0.00500	1	10/09/2023 16:09	WG2147457
Chloromethane	U		0.000960	0.00250	1	10/09/2023 16:09	WG2147457
1,2-Dibromoethane	U		0.000126	0.00100	1	10/09/2023 16:09	WG2147457
1,1-Dichloroethane	U		0.000100	0.00100	1	10/09/2023 16:09	WG2147457
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/09/2023 16:09	WG2147457
1,1-Dichloroethene	U		0.000188	0.00100	1	10/09/2023 16:09	WG2147457
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/09/2023 16:09	WG2147457

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Released to Imaging: 6/28/2024 11:23:28 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
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/09/2023 16:09	WG2147457
1,2-Dichloropropane	U		0.000149	0.00100	1	10/09/2023 16:09	WG2147457
cis-1,3-Dichloropropene	U	J4	0.000111	0.00100	1	10/09/2023 16:09	WG2147457
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/09/2023 16:09	WG2147457
Ethylbenzene	U		0.000137	0.00100	1	10/09/2023 16:09	WG2147457
Isopropylbenzene	0.0105		0.000105	0.00100	1	10/09/2023 16:09	WG2147457
p-Isopropyltoluene	U		0.000120	0.00100	1	10/09/2023 16:09	WG2147457
2-Butanone (MEK)	U		0.00119	0.0100	1	10/09/2023 16:09	WG2147457
2-Hexanone	U		0.000787	0.0100	1	10/09/2023 16:09	WG2147457
Methylene Chloride	U		0.000430	0.00500	1	10/09/2023 16:09	WG2147457
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/09/2023 16:09	WG2147457
Methyl tert-butyl ether	0.00114		0.000101	0.00100	1	10/09/2023 16:09	WG2147457
Naphthalene	0.00190	J	0.00100	0.00500	1	10/09/2023 16:09	WG2147457
n-Propylbenzene	0.00201		0.0000993	0.00100	1	10/09/2023 16:09	WG2147457
Styrene	U		0.000118	0.00100	1	10/09/2023 16:09	WG2147457
tert-Butyl alcohol	0.0179		0.00406	0.00500	1	10/09/2023 16:09	WG2147457
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	10/09/2023 16:09	WG2147457
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/09/2023 16:09	WG2147457
Tetrachloroethene	U		0.000300	0.00100	1	10/09/2023 16:09	WG2147457
Toluene	0.000383	J	0.000278	0.00100	1	10/09/2023 16:09	WG2147457
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/09/2023 16:09	WG2147457
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/09/2023 16:09	WG2147457
Trichloroethene	U		0.000190	0.00100	1	10/09/2023 16:09	WG2147457
1,2,4-Trimethylbenzene	0.000835	J	0.000322	0.00100	1	10/09/2023 16:09	WG2147457
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/09/2023 16:09	WG2147457
Vinyl chloride	U		0.000234	0.00100	1	10/09/2023 16:09	WG2147457
o-Xylene	U		0.000174	0.00100	1	10/09/2023 16:09	WG2147457
m&p-Xylene	0.000596	J	0.000430	0.00200	1	10/09/2023 16:09	WG2147457
Xylenes, Total	0.000596	J	0.000174	0.00300	1	10/09/2023 16:09	WG2147457
(S) Toluene-d8	*126*	J1		*80.0-120*		*10/09/2023 16:09*	WG2147457
(S) 4-Bromofluorobenzene	*108*			*77.0-126*		*10/09/2023 16:09*	WG2147457
(S) 1,2-Dichloroethane-d4	*114*			*70.0-130*		*10/09/2023 16:09*	WG2147457

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	3.20		0.0247	0.100	1	10/15/2023 01:28	WG2150506
(S) o-Terphenyl	*104*			*31.0-160*		*10/15/2023 01:28*	WG2150506

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	10/10/2023 00:37	WG2147745

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	10/06/2023 06:55	WG2145796
Fluoride	U		0.0640	0.150	1	10/06/2023 06:55	WG2145796
Nitrate	0.0491	J	0.0480	0.100	1	10/06/2023 06:55	WG2145796
Nitrite	U		0.0420	0.100	1	10/06/2023 06:55	WG2145796
Sulfate	U		0.594	5.00	1	10/06/2023 06:55	WG2145796

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	10/18/2023 21:09	WG2146871
Barium	0.000562	J	0.000381	0.00200	1	10/18/2023 21:09	WG2146871
Calcium	0.350	J	0.0936	1.00	1	10/18/2023 21:09	WG2146871
Chromium	U		0.00124	0.00200	1	10/18/2023 21:09	WG2146871
Iron	U		0.0281	0.100	1	10/18/2023 21:09	WG2146871
Lead	U		0.000849	0.00200	1	10/18/2023 21:09	WG2146871
Manganese	U		0.000704	0.00500	1	10/18/2023 21:09	WG2146871
Potassium	U		0.108	2.00	1	10/18/2023 21:09	WG2146871
Selenium	U		0.000300	0.00200	1	10/18/2023 21:09	WG2146871
Sodium	0.467	J	0.376	2.00	1	10/18/2023 21:09	WG2146871

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	10/10/2023 13:18	WG2148221
(S) a,a,a-Trifluorotoluene(FID)	*110*			*78.0-120*		*10/10/2023 13:18*	WG2148221

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	10/08/2023 13:15	WG2147386
Benzene	U		0.0000941	0.00100	1	10/08/2023 13:15	WG2147386
Bromodichloromethane	U		0.000136	0.00100	1	10/08/2023 13:15	WG2147386
Bromoform	U		0.000129	0.00100	1	10/08/2023 13:15	WG2147386
Bromomethane	U		0.000605	0.00500	1	10/08/2023 13:15	WG2147386
n-Butylbenzene	U		0.000157	0.00100	1	10/08/2023 13:15	WG2147386
sec-Butylbenzene	U		0.000125	0.00100	1	10/08/2023 13:15	WG2147386
Carbon disulfide	U		0.0000962	0.00100	1	10/08/2023 13:15	WG2147386
Carbon tetrachloride	U		0.000128	0.00100	1	10/08/2023 13:15	WG2147386
Chlorobenzene	U		0.000116	0.00100	1	10/08/2023 13:15	WG2147386
Chlorodibromomethane	U		0.000140	0.00100	1	10/08/2023 13:15	WG2147386
Chloroethane	U		0.000192	0.00500	1	10/08/2023 13:15	WG2147386
Chloroform	0.000280	J	0.000111	0.00500	1	10/08/2023 13:15	WG2147386
Chloromethane	U		0.000960	0.00250	1	10/08/2023 13:15	WG2147386
1,2-Dibromoethane	U		0.000126	0.00100	1	10/08/2023 13:15	WG2147386
1,1-Dichloroethane	U		0.000100	0.00100	1	10/08/2023 13:15	WG2147386
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/08/2023 13:15	WG2147386
1,1-Dichloroethene	U		0.000188	0.00100	1	10/08/2023 13:15	WG2147386
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/08/2023 13:15	WG2147386

EB-TEL-01
Collected date/time: 10/04/23 12:40
L1663141

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/08/2023 13:15	WG2147386
1,2-Dichloropropane	U		0.000149	0.00100	1	10/08/2023 13:15	WG2147386
cis-1,3-Dichloropropene	U	J4	0.000111	0.00100	1	10/08/2023 13:15	WG2147386
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/08/2023 13:15	WG2147386
Ethylbenzene	U		0.000137	0.00100	1	10/08/2023 13:15	WG2147386
Isopropylbenzene	U		0.000105	0.00100	1	10/08/2023 13:15	WG2147386
p-Isopropyltoluene	U		0.000120	0.00100	1	10/08/2023 13:15	WG2147386
2-Butanone (MEK)	U		0.00119	0.0100	1	10/08/2023 13:15	WG2147386
2-Hexanone	U		0.000787	0.0100	1	10/08/2023 13:15	WG2147386
Methylene Chloride	U		0.000430	0.00500	1	10/08/2023 13:15	WG2147386
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/08/2023 13:15	WG2147386
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/08/2023 13:15	WG2147386
Naphthalene	U		0.00100	0.00500	1	10/08/2023 13:15	WG2147386
n-Propylbenzene	U		0.0000993	0.00100	1	10/08/2023 13:15	WG2147386
Styrene	U		0.000118	0.00100	1	10/08/2023 13:15	WG2147386
tert-Butyl alcohol	U		0.00406	0.00500	1	10/08/2023 13:15	WG2147386
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	10/08/2023 13:15	WG2147386
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/08/2023 13:15	WG2147386
Tetrachloroethene	U		0.000300	0.00100	1	10/08/2023 13:15	WG2147386
Toluene	U		0.000278	0.00100	1	10/08/2023 13:15	WG2147386
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/08/2023 13:15	WG2147386
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/08/2023 13:15	WG2147386
Trichloroethene	U		0.000190	0.00100	1	10/08/2023 13:15	WG2147386
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/08/2023 13:15	WG2147386
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/08/2023 13:15	WG2147386
Vinyl chloride	U		0.000234	0.00100	1	10/08/2023 13:15	WG2147386
o-Xylene	U		0.000174	0.00100	1	10/08/2023 13:15	WG2147386
m&p-Xylene	U		0.000430	0.00200	1	10/08/2023 13:15	WG2147386
Xylenes, Total	U		0.000174	0.00300	1	10/08/2023 13:15	WG2147386
(S) Toluene-d8	*119*			*80.0-120*		*10/08/2023 13:15*	WG2147386
(S) 4-Bromofluorobenzene	*100*			*77.0-126*		*10/08/2023 13:15*	WG2147386
(S) 1,2-Dichloroethane-d4	*114*			*70.0-130*		*10/08/2023 13:15*	WG2147386

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	10/14/2023 00:30	WG2149783
(S) o-Terphenyl	*54.0*			*31.0-160*		*10/14/2023 00:30*	WG2149783

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	10/09/2023 13:58	WG2147457
Benzene	U		0.0000941	0.00100	1	10/09/2023 13:58	WG2147457
Bromodichloromethane	U		0.000136	0.00100	1	10/09/2023 13:58	WG2147457
Bromoform	U		0.000129	0.00100	1	10/09/2023 13:58	WG2147457
Bromomethane	U		0.000605	0.00500	1	10/09/2023 13:58	WG2147457
n-Butylbenzene	U		0.000157	0.00100	1	10/09/2023 13:58	WG2147457
sec-Butylbenzene	U		0.000125	0.00100	1	10/09/2023 13:58	WG2147457
Carbon disulfide	U		0.0000962	0.00100	1	10/09/2023 13:58	WG2147457
Carbon tetrachloride	U		0.000128	0.00100	1	10/09/2023 13:58	WG2147457
Chlorobenzene	U		0.000116	0.00100	1	10/09/2023 13:58	WG2147457
Chlorodibromomethane	U		0.000140	0.00100	1	10/09/2023 13:58	WG2147457
Chloroethane	U		0.000192	0.00500	1	10/09/2023 13:58	WG2147457
Chloroform	U		0.000111	0.00500	1	10/09/2023 13:58	WG2147457
Chloromethane	U		0.000960	0.00250	1	10/09/2023 13:58	WG2147457
1,2-Dibromoethane	U		0.000126	0.00100	1	10/09/2023 13:58	WG2147457
1,1-Dichloroethane	U		0.000100	0.00100	1	10/09/2023 13:58	WG2147457
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/09/2023 13:58	WG2147457
1,1-Dichloroethene	U		0.000188	0.00100	1	10/09/2023 13:58	WG2147457
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/09/2023 13:58	WG2147457
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/09/2023 13:58	WG2147457
1,2-Dichloropropane	U		0.000149	0.00100	1	10/09/2023 13:58	WG2147457
cis-1,3-Dichloropropene	U	J4	0.000111	0.00100	1	10/09/2023 13:58	WG2147457
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/09/2023 13:58	WG2147457
Ethylbenzene	U		0.000137	0.00100	1	10/09/2023 13:58	WG2147457
Isopropylbenzene	U		0.000105	0.00100	1	10/09/2023 13:58	WG2147457
p-Isopropyltoluene	U		0.000120	0.00100	1	10/09/2023 13:58	WG2147457
2-Butanone (MEK)	U		0.00119	0.0100	1	10/09/2023 13:58	WG2147457
2-Hexanone	U		0.000787	0.0100	1	10/09/2023 13:58	WG2147457
Methylene Chloride	U		0.000430	0.00500	1	10/09/2023 13:58	WG2147457
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/09/2023 13:58	WG2147457
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/09/2023 13:58	WG2147457
Naphthalene	U		0.00100	0.00500	1	10/09/2023 13:58	WG2147457
n-Propylbenzene	U		0.0000993	0.00100	1	10/09/2023 13:58	WG2147457
Styrene	U		0.000118	0.00100	1	10/09/2023 13:58	WG2147457
tert-Butyl alcohol	U		0.00406	0.00500	1	10/09/2023 13:58	WG2147457
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	10/09/2023 13:58	WG2147457
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/09/2023 13:58	WG2147457
Tetrachloroethene	U		0.000300	0.00100	1	10/09/2023 13:58	WG2147457
Toluene	U		0.000278	0.00100	1	10/09/2023 13:58	WG2147457
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/09/2023 13:58	WG2147457
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/09/2023 13:58	WG2147457
Trichloroethene	U		0.000190	0.00100	1	10/09/2023 13:58	WG2147457
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/09/2023 13:58	WG2147457
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/09/2023 13:58	WG2147457
Vinyl chloride	U		0.000234	0.00100	1	10/09/2023 13:58	WG2147457
o-Xylene	U		0.000174	0.00100	1	10/09/2023 13:58	WG2147457
m&p-Xylene	U		0.000430	0.00200	1	10/09/2023 13:58	WG2147457
Xylenes, Total	U		0.000174	0.00300	1	10/09/2023 13:58	WG2147457
(S) Toluene-d8	*118*			*80.0-120*		*10/09/2023 13:58*	WG2147457
(S) 4-Bromofluorobenzene	*102*			*77.0-126*		*10/09/2023 13:58*	WG2147457
(S) 1,2-Dichloroethane-d4	*115*			*70.0-130*		*10/09/2023 13:58*	WG2147457

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	3250		50.0	1	10/10/2023 00:37	WG2147745

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	135		3.79	10.0	10	10/06/2023 06:46	WG2145803
Fluoride	0.834	J	0.640	1.50	10	10/06/2023 06:46	WG2145803
Nitrate	1.93		0.480	1.00	10	10/06/2023 06:46	WG2145803
Nitrite	0.675	J	0.420	1.00	10	10/06/2023 06:46	WG2145803
Sulfate	1660		5.94	50.0	10	10/06/2023 06:46	WG2145803

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00429		0.000180	0.00200	1	10/18/2023 21:13	WG2146871
Barium	0.0289		0.000381	0.00200	1	10/18/2023 21:13	WG2146871
Calcium	347		0.0936	1.00	1	10/18/2023 21:13	WG2146871
Chromium	U		0.00124	0.00200	1	10/18/2023 21:13	WG2146871
Iron	0.160		0.0281	0.100	1	10/18/2023 21:13	WG2146871
Lead	U		0.000849	0.00200	1	10/18/2023 21:13	WG2146871
Manganese	1.17		0.000704	0.00500	1	10/18/2023 21:13	WG2146871
Potassium	0.425	J	0.108	2.00	1	10/18/2023 21:13	WG2146871
Selenium	U		0.000300	0.00200	1	10/18/2023 21:13	WG2146871
Sodium	229		0.376	2.00	1	10/18/2023 21:13	WG2146871

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	0.344		0.0314	0.100	1	10/10/2023 14:48	WG2148221
(S) a,a,a-Trifluorotoluene(FID)	*112*			*78.0-120*		*10/10/2023 14:48*	WG2148221

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	10/08/2023 14:43	WG2147386
Benzene	U		0.0000941	0.00100	1	10/08/2023 14:43	WG2147386
Bromodichloromethane	U		0.000136	0.00100	1	10/08/2023 14:43	WG2147386
Bromoform	U		0.000129	0.00100	1	10/08/2023 14:43	WG2147386
Bromomethane	U		0.000605	0.00500	1	10/08/2023 14:43	WG2147386
n-Butylbenzene	U		0.000157	0.00100	1	10/08/2023 14:43	WG2147386
sec-Butylbenzene	0.00291		0.000125	0.00100	1	10/08/2023 14:43	WG2147386
Carbon disulfide	U		0.0000962	0.00100	1	10/08/2023 14:43	WG2147386
Carbon tetrachloride	U		0.000128	0.00100	1	10/08/2023 14:43	WG2147386
Chlorobenzene	0.000955	J	0.000116	0.00100	1	10/08/2023 14:43	WG2147386
Chlorodibromomethane	U		0.000140	0.00100	1	10/08/2023 14:43	WG2147386
Chloroethane	U		0.000192	0.00500	1	10/08/2023 14:43	WG2147386
Chloroform	U		0.000111	0.00500	1	10/08/2023 14:43	WG2147386
Chloromethane	U		0.000960	0.00250	1	10/08/2023 14:43	WG2147386
1,2-Dibromoethane	U		0.000126	0.00100	1	10/08/2023 14:43	WG2147386
1,1-Dichloroethane	U		0.000100	0.00100	1	10/08/2023 14:43	WG2147386
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/08/2023 14:43	WG2147386
1,1-Dichloroethene	U		0.000188	0.00100	1	10/08/2023 14:43	WG2147386
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/08/2023 14:43	WG2147386

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/08/2023 14:43	WG2147386
1,2-Dichloropropane	U		0.000149	0.00100	1	10/08/2023 14:43	WG2147386
cis-1,3-Dichloropropene	U	J4	0.000111	0.00100	1	10/08/2023 14:43	WG2147386
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/08/2023 14:43	WG2147386
Ethylbenzene	U		0.000137	0.00100	1	10/08/2023 14:43	WG2147386
Isopropylbenzene	0.00557		0.000105	0.00100	1	10/08/2023 14:43	WG2147386
p-Isopropyltoluene	U		0.000120	0.00100	1	10/08/2023 14:43	WG2147386
2-Butanone (MEK)	U		0.00119	0.0100	1	10/08/2023 14:43	WG2147386
2-Hexanone	U		0.000787	0.0100	1	10/08/2023 14:43	WG2147386
Methylene Chloride	U		0.000430	0.00500	1	10/08/2023 14:43	WG2147386
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/08/2023 14:43	WG2147386
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/08/2023 14:43	WG2147386
Naphthalene	U		0.00100	0.00500	1	10/08/2023 14:43	WG2147386
n-Propylbenzene	0.000221	J	0.0000993	0.00100	1	10/08/2023 14:43	WG2147386
Styrene	U		0.000118	0.00100	1	10/08/2023 14:43	WG2147386
tert-Butyl alcohol	U		0.00406	0.00500	1	10/08/2023 14:43	WG2147386
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	10/08/2023 14:43	WG2147386
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/08/2023 14:43	WG2147386
Tetrachloroethene	U		0.000300	0.00100	1	10/08/2023 14:43	WG2147386
Toluene	U		0.000278	0.00100	1	10/08/2023 14:43	WG2147386
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/08/2023 14:43	WG2147386
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/08/2023 14:43	WG2147386
Trichloroethene	U		0.000190	0.00100	1	10/08/2023 14:43	WG2147386
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/08/2023 14:43	WG2147386
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/08/2023 14:43	WG2147386
Vinyl chloride	U		0.000234	0.00100	1	10/08/2023 14:43	WG2147386
o-Xylene	U		0.000174	0.00100	1	10/08/2023 14:43	WG2147386
m&p-Xylene	U		0.000430	0.00200	1	10/08/2023 14:43	WG2147386
Xylenes, Total	U		0.000174	0.00300	1	10/08/2023 14:43	WG2147386
(S) Toluene-d8	*123*	J1		*80.0-120*		*10/08/2023 14:43*	WG2147386
(S) 4-Bromofluorobenzene	*107*			*77.0-126*		*10/08/2023 14:43*	WG2147386
(S) 1,2-Dichloroethane-d4	*116*			*70.0-130*		*10/08/2023 14:43*	WG2147386

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	0.962		0.0247	0.100	1	10/14/2023 00:56	WG2149783
(S) o-Terphenyl	*60.0*			*31.0-160*		*10/14/2023 00:56*	WG2149783

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3270		50.0	1	10/10/2023 00:37	WG2147745

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	139		3.79	10.0	10	10/06/2023 07:08	WG2145796
Fluoride	1.28	J	0.640	1.50	10	10/06/2023 07:08	WG2145796
Nitrate	5.40		0.480	1.00	10	10/06/2023 07:08	WG2145796
Nitrite	U		0.420	1.00	10	10/06/2023 07:08	WG2145796
Sulfate	1810		5.94	50.0	10	10/06/2023 07:08	WG2145796

Sample Narrative:

L1663141-55 WG2145796: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00249		0.000180	0.00200	1	10/18/2023 21:16	WG2146871
Barium	0.0164		0.000381	0.00200	1	10/18/2023 21:16	WG2146871
Calcium	526		0.0936	1.00	1	10/18/2023 21:16	WG2146871
Chromium	U		0.00124	0.00200	1	10/18/2023 21:16	WG2146871
Iron	U		0.0281	0.100	1	10/18/2023 21:16	WG2146871
Lead	U		0.000849	0.00200	1	10/18/2023 21:16	WG2146871
Manganese	1.99		0.000704	0.00500	1	10/18/2023 21:16	WG2146871
Potassium	3.45		0.108	2.00	1	10/18/2023 21:16	WG2146871
Selenium	0.00211		0.000300	0.00200	1	10/18/2023 21:16	WG2146871
Sodium	107		0.376	2.00	1	10/18/2023 21:16	WG2146871

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	0.0206	J	0.0113	0.0500	1	10/08/2023 15:05	WG2147386
Benzene	U		0.0000941	0.00100	1	10/08/2023 15:05	WG2147386
Bromodichloromethane	U		0.000136	0.00100	1	10/08/2023 15:05	WG2147386
Bromoform	U		0.000129	0.00100	1	10/08/2023 15:05	WG2147386
Bromomethane	U		0.000605	0.00500	1	10/08/2023 15:05	WG2147386
n-Butylbenzene	U		0.000157	0.00100	1	10/08/2023 15:05	WG2147386
sec-Butylbenzene	U		0.000125	0.00100	1	10/08/2023 15:05	WG2147386
Carbon disulfide	U		0.0000962	0.00100	1	10/08/2023 15:05	WG2147386
Carbon tetrachloride	U		0.000128	0.00100	1	10/08/2023 15:05	WG2147386
Chlorobenzene	U		0.000116	0.00100	1	10/08/2023 15:05	WG2147386
Chlorodibromomethane	U		0.000140	0.00100	1	10/08/2023 15:05	WG2147386
Chloroethane	U		0.000192	0.00500	1	10/08/2023 15:05	WG2147386
Chloroform	U		0.000111	0.00500	1	10/08/2023 15:05	WG2147386
Chloromethane	U		0.000960	0.00250	1	10/08/2023 15:05	WG2147386
1,2-Dibromoethane	U		0.000126	0.00100	1	10/08/2023 15:05	WG2147386
1,1-Dichloroethane	U		0.000100	0.00100	1	10/08/2023 15:05	WG2147386
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/08/2023 15:05	WG2147386
1,1-Dichloroethene	U		0.000188	0.00100	1	10/08/2023 15:05	WG2147386
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/08/2023 15:05	WG2147386
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/08/2023 15:05	WG2147386
1,2-Dichloropropane	U		0.000149	0.00100	1	10/08/2023 15:05	WG2147386
cis-1,3-Dichloropropene	U	J4	0.000111	0.00100	1	10/08/2023 15:05	WG2147386
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/08/2023 15:05	WG2147386

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Ethylbenzene	U		0.000137	0.00100	1	10/08/2023 15:05	WG2147386
Isopropylbenzene	U		0.000105	0.00100	1	10/08/2023 15:05	WG2147386
p-Isopropyltoluene	U		0.000120	0.00100	1	10/08/2023 15:05	WG2147386
2-Butanone (MEK)	U		0.00119	0.0100	1	10/08/2023 15:05	WG2147386
2-Hexanone	U		0.000787	0.0100	1	10/08/2023 15:05	WG2147386
Methylene Chloride	U		0.000430	0.00500	1	10/08/2023 15:05	WG2147386
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/08/2023 15:05	WG2147386
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/08/2023 15:05	WG2147386
Naphthalene	0.00197	J	0.00100	0.00500	1	10/08/2023 15:05	WG2147386
n-Propylbenzene	U		0.0000993	0.00100	1	10/08/2023 15:05	WG2147386
Styrene	U		0.000118	0.00100	1	10/08/2023 15:05	WG2147386
tert-Butyl alcohol	U		0.00406	0.00500	1	10/08/2023 15:05	WG2147386
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	10/08/2023 15:05	WG2147386
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/08/2023 15:05	WG2147386
Tetrachloroethene	U		0.000300	0.00100	1	10/08/2023 15:05	WG2147386
Toluene	U		0.000278	0.00100	1	10/08/2023 15:05	WG2147386
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/08/2023 15:05	WG2147386
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/08/2023 15:05	WG2147386
Trichloroethene	U		0.000190	0.00100	1	10/08/2023 15:05	WG2147386
1,2,4-Trimethylbenzene	0.00132		0.000322	0.00100	1	10/08/2023 15:05	WG2147386
1,3,5-Trimethylbenzene	0.000252	J	0.000104	0.00100	1	10/08/2023 15:05	WG2147386
Vinyl chloride	U		0.000234	0.00100	1	10/08/2023 15:05	WG2147386
o-Xylene	0.000375	J	0.000174	0.00100	1	10/08/2023 15:05	WG2147386
m&p-Xylene	0.000570	J	0.000430	0.00200	1	10/08/2023 15:05	WG2147386
Xylenes, Total	0.000945	J	0.000174	0.00300	1	10/08/2023 15:05	WG2147386
(S) Toluene-d8	*116*			*80.0-120*		*10/08/2023 15:05*	WG2147386
(S) 4-Bromofluorobenzene	*104*			*77.0-126*		*10/08/2023 15:05*	WG2147386
(S) 1,2-Dichloroethane-d4	*117*			*70.0-130*		*10/08/2023 15:05*	WG2147386

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	10.2		0.494	2.00	20	10/17/2023 09:08	WG2149783
(S) o-Terphenyl	*0.000*	J7		*31.0-160*		*10/17/2023 09:08*	WG2149783

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1970		25.0	1	10/09/2023 15:31	WG2147682

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	27.3		3.79	10.0	10	10/06/2023 01:28	WG2145919
Fluoride	0.817	J	0.640	1.50	10	10/06/2023 01:28	WG2145919
Nitrate	0.738	J	0.480	1.00	10	10/06/2023 01:28	WG2145919
Nitrite	U		0.420	1.00	10	10/06/2023 01:28	WG2145919
Sulfate	829		5.94	50.0	10	10/06/2023 01:28	WG2145919

Sample Narrative:

L1663141-56 WG2145919: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.000413	J	0.000180	0.00200	1	10/19/2023 14:48	WG2146874
Barium	0.0469		0.000381	0.00200	1	10/19/2023 14:48	WG2146874
Calcium	252		0.0936	1.00	1	10/19/2023 14:48	WG2146874
Chromium	0.00179	J	0.00124	0.00200	1	10/19/2023 14:48	WG2146874
Iron	0.203		0.0281	0.100	1	10/19/2023 14:48	WG2146874
Lead	U		0.000849	0.00200	1	10/19/2023 14:48	WG2146874
Manganese	0.0469		0.000704	0.00500	1	10/19/2023 14:48	WG2146874
Potassium	0.479	J	0.108	2.00	1	10/19/2023 14:48	WG2146874
Selenium	U		0.000300	0.00200	1	10/19/2023 14:48	WG2146874
Sodium	46.9		0.376	2.00	1	10/19/2023 14:48	WG2146874

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	10/08/2023 15:27	WG2147386
Benzene	0.0353		0.0000941	0.00100	1	10/08/2023 15:27	WG2147386
Bromodichloromethane	U		0.000136	0.00100	1	10/08/2023 15:27	WG2147386
Bromoform	U		0.000129	0.00100	1	10/08/2023 15:27	WG2147386
Bromomethane	U		0.000605	0.00500	1	10/08/2023 15:27	WG2147386
n-Butylbenzene	U		0.000157	0.00100	1	10/08/2023 15:27	WG2147386
sec-Butylbenzene	0.00200		0.000125	0.00100	1	10/08/2023 15:27	WG2147386
Carbon disulfide	0.000176	J	0.0000962	0.00100	1	10/08/2023 15:27	WG2147386
Carbon tetrachloride	U		0.000128	0.00100	1	10/08/2023 15:27	WG2147386
Chlorobenzene	U		0.000116	0.00100	1	10/08/2023 15:27	WG2147386
Chlorodibromomethane	U		0.000140	0.00100	1	10/08/2023 15:27	WG2147386
Chloroethane	U		0.000192	0.00500	1	10/08/2023 15:27	WG2147386
Chloroform	U		0.000111	0.00500	1	10/08/2023 15:27	WG2147386
Chloromethane	U		0.000960	0.00250	1	10/08/2023 15:27	WG2147386
1,2-Dibromoethane	U		0.000126	0.00100	1	10/08/2023 15:27	WG2147386
1,1-Dichloroethane	U		0.000100	0.00100	1	10/08/2023 15:27	WG2147386
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/08/2023 15:27	WG2147386
1,1-Dichloroethene	U		0.000188	0.00100	1	10/08/2023 15:27	WG2147386
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/08/2023 15:27	WG2147386
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/08/2023 15:27	WG2147386
1,2-Dichloropropane	U		0.000149	0.00100	1	10/08/2023 15:27	WG2147386
cis-1,3-Dichloropropene	U	J4	0.000111	0.00100	1	10/08/2023 15:27	WG2147386
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/08/2023 15:27	WG2147386

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	0.000247	J	0.000137	0.00100	1	10/08/2023 15:27	WG2147386
Isopropylbenzene	0.0160		0.000105	0.00100	1	10/08/2023 15:27	WG2147386
p-Isopropyltoluene	U		0.000120	0.00100	1	10/08/2023 15:27	WG2147386
2-Butanone (MEK)	U		0.00119	0.0100	1	10/08/2023 15:27	WG2147386
2-Hexanone	U		0.000787	0.0100	1	10/08/2023 15:27	WG2147386
Methylene Chloride	U		0.000430	0.00500	1	10/08/2023 15:27	WG2147386
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/08/2023 15:27	WG2147386
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/08/2023 15:27	WG2147386
Naphthalene	U		0.00100	0.00500	1	10/08/2023 15:27	WG2147386
n-Propylbenzene	0.00696		0.0000993	0.00100	1	10/08/2023 15:27	WG2147386
Styrene	U		0.000118	0.00100	1	10/08/2023 15:27	WG2147386
tert-Butyl alcohol	U		0.00406	0.00500	1	10/08/2023 15:27	WG2147386
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	10/08/2023 15:27	WG2147386
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/08/2023 15:27	WG2147386
Tetrachloroethene	U		0.000300	0.00100	1	10/08/2023 15:27	WG2147386
Toluene	0.000304	J	0.000278	0.00100	1	10/08/2023 15:27	WG2147386
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/08/2023 15:27	WG2147386
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/08/2023 15:27	WG2147386
Trichloroethene	U		0.000190	0.00100	1	10/08/2023 15:27	WG2147386
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/08/2023 15:27	WG2147386
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/08/2023 15:27	WG2147386
Vinyl chloride	U		0.000234	0.00100	1	10/08/2023 15:27	WG2147386
o-Xylene	U		0.000174	0.00100	1	10/08/2023 15:27	WG2147386
m&p-Xylene	0.00133	J	0.000430	0.00200	1	10/08/2023 15:27	WG2147386
Xylenes, Total	0.00133	J	0.000174	0.00300	1	10/08/2023 15:27	WG2147386
(S) Toluene-d8	*116*			*80.0-120*		*10/08/2023 15:27*	WG2147386
(S) 4-Bromofluorobenzene	*104*			*77.0-126*		*10/08/2023 15:27*	WG2147386
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*		*10/08/2023 15:27*	WG2147386

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	10/14/2023 01:22	WG2149783
(S) o-Terphenyl	*54.0*			*31.0-160*		*10/14/2023 01:22*	WG2149783

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1800		20.0	1	10/09/2023 12:57	WG2147656

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	48.4		0.379	1.00	1	10/06/2023 07:37	WG2145803
Fluoride	1.31		0.0640	0.150	1	10/06/2023 07:37	WG2145803
Nitrate	U		0.0480	0.100	1	10/06/2023 07:37	WG2145803
Nitrite	U		0.0420	0.100	1	10/06/2023 07:37	WG2145803
Sulfate	597		5.94	50.0	10	10/06/2023 14:40	WG2145803

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0106		0.000180	0.00200	1	10/19/2023 13:51	WG2146874
Barium	0.0224		0.000381	0.00200	1	10/19/2023 13:51	WG2146874
Calcium	176		0.0936	1.00	1	10/19/2023 13:51	WG2146874
Chromium	U		0.00124	0.00200	1	10/19/2023 13:51	WG2146874
Iron	0.453		0.0281	0.100	1	10/19/2023 13:51	WG2146874
Lead	U		0.000849	0.00200	1	10/19/2023 13:51	WG2146874
Manganese	1.35		0.000704	0.00500	1	10/19/2023 13:51	WG2146874
Potassium	0.265	J	0.108	2.00	1	10/19/2023 13:51	WG2146874
Selenium	U		0.000300	0.00200	1	10/19/2023 13:51	WG2146874
Sodium	27.7		0.376	2.00	1	10/19/2023 13:51	WG2146874

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	10/08/2023 15:49	WG2147386
Benzene	U		0.0000941	0.00100	1	10/08/2023 15:49	WG2147386
Bromodichloromethane	U		0.000136	0.00100	1	10/08/2023 15:49	WG2147386
Bromoform	U		0.000129	0.00100	1	10/08/2023 15:49	WG2147386
Bromomethane	U		0.000605	0.00500	1	10/08/2023 15:49	WG2147386
n-Butylbenzene	U		0.000157	0.00100	1	10/08/2023 15:49	WG2147386
sec-Butylbenzene	U		0.000125	0.00100	1	10/08/2023 15:49	WG2147386
Carbon disulfide	U		0.0000962	0.00100	1	10/08/2023 15:49	WG2147386
Carbon tetrachloride	U		0.000128	0.00100	1	10/08/2023 15:49	WG2147386
Chlorobenzene	U		0.000116	0.00100	1	10/08/2023 15:49	WG2147386
Chlorodibromomethane	U		0.000140	0.00100	1	10/08/2023 15:49	WG2147386
Chloroethane	U		0.000192	0.00500	1	10/08/2023 15:49	WG2147386
Chloroform	U		0.000111	0.00500	1	10/08/2023 15:49	WG2147386
Chloromethane	U		0.000960	0.00250	1	10/08/2023 15:49	WG2147386
1,2-Dibromoethane	U		0.000126	0.00100	1	10/08/2023 15:49	WG2147386
1,1-Dichloroethane	U		0.000100	0.00100	1	10/08/2023 15:49	WG2147386
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/08/2023 15:49	WG2147386
1,1-Dichloroethene	U		0.000188	0.00100	1	10/08/2023 15:49	WG2147386
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/08/2023 15:49	WG2147386
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/08/2023 15:49	WG2147386
1,2-Dichloropropane	U		0.000149	0.00100	1	10/08/2023 15:49	WG2147386
cis-1,3-Dichloropropene	U	J4	0.000111	0.00100	1	10/08/2023 15:49	WG2147386
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/08/2023 15:49	WG2147386
Ethylbenzene	U		0.000137	0.00100	1	10/08/2023 15:49	WG2147386
Isopropylbenzene	U		0.000105	0.00100	1	10/08/2023 15:49	WG2147386
p-Isopropyltoluene	U		0.000120	0.00100	1	10/08/2023 15:49	WG2147386

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
2-Butanone (MEK)	U		0.00119	0.0100	1	10/08/2023 15:49	WG2147386
2-Hexanone	U		0.000787	0.0100	1	10/08/2023 15:49	WG2147386
Methylene Chloride	U		0.000430	0.00500	1	10/08/2023 15:49	WG2147386
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/08/2023 15:49	WG2147386
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/08/2023 15:49	WG2147386
Naphthalene	U		0.00100	0.00500	1	10/08/2023 15:49	WG2147386
n-Propylbenzene	U		0.0000993	0.00100	1	10/08/2023 15:49	WG2147386
Styrene	U		0.000118	0.00100	1	10/08/2023 15:49	WG2147386
tert-Butyl alcohol	U		0.00406	0.00500	1	10/08/2023 15:49	WG2147386
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	10/08/2023 15:49	WG2147386
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/08/2023 15:49	WG2147386
Tetrachloroethene	U		0.000300	0.00100	1	10/08/2023 15:49	WG2147386
Toluene	U		0.000278	0.00100	1	10/08/2023 15:49	WG2147386
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/08/2023 15:49	WG2147386
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/08/2023 15:49	WG2147386
Trichloroethene	U		0.000190	0.00100	1	10/08/2023 15:49	WG2147386
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/08/2023 15:49	WG2147386
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/08/2023 15:49	WG2147386
Vinyl chloride	U		0.000234	0.00100	1	10/08/2023 15:49	WG2147386
o-Xylene	U		0.000174	0.00100	1	10/08/2023 15:49	WG2147386
m&p-Xylene	U		0.000430	0.00200	1	10/08/2023 15:49	WG2147386
Xylenes, Total	U		0.000174	0.00300	1	10/08/2023 15:49	WG2147386
(S) Toluene-d8	*118*			*80.0-120*		*10/08/2023 15:49*	WG2147386
(S) 4-Bromofluorobenzene	*102*			*77.0-126*		*10/08/2023 15:49*	WG2147386
(S) 1,2-Dichloroethane-d4	*122*			*70.0-130*		*10/08/2023 15:49*	WG2147386

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	0.299		0.0247	0.100	1	10/14/2023 01:47	WG2149783
(S) o-Terphenyl	*64.0*			*31.0-160*		*10/14/2023 01:47*	WG2149783

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1920		50.0	1	10/09/2023 12:57	WG2147656

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	10/09/2023 18:20	WG2145820

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	315		3.79	10.0	10	10/06/2023 14:57	WG2145803
Fluoride	1.15		0.0640	0.150	1	10/06/2023 07:54	WG2145803
Nitrate	0.669		0.0480	0.100	1	10/06/2023 07:54	WG2145803
Nitrite	U		0.0420	0.100	1	10/06/2023 07:54	WG2145803
Sulfate	638		5.94	50.0	10	10/06/2023 14:57	WG2145803

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	10/10/2023 14:16	WG2146007

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	0.635		0.0200	0.200	1	10/11/2023 23:14	WG2146855

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00626		0.000180	0.00200	1	10/19/2023 14:52	WG2146874
Barium	0.0158		0.000381	0.00200	1	10/19/2023 14:52	WG2146874
Cadmium	U		0.000150	0.00100	1	10/19/2023 14:52	WG2146874
Calcium	228		0.0936	1.00	1	10/19/2023 14:52	WG2146874
Chromium	U		0.00124	0.00200	1	10/19/2023 14:52	WG2146874
Cobalt	0.000458	J	0.0000596	0.00200	1	10/19/2023 14:52	WG2146874
Iron	U		0.0281	0.100	1	10/19/2023 14:52	WG2146874
Lead	U		0.000849	0.00200	1	10/19/2023 14:52	WG2146874
Manganese	0.255		0.000704	0.00500	1	10/19/2023 14:52	WG2146874
Nickel	0.00566		0.000816	0.00200	1	10/19/2023 14:52	WG2146874
Potassium	0.575	J	0.108	2.00	1	10/19/2023 14:52	WG2146874
Selenium	0.00125	J	0.000300	0.00200	1	10/19/2023 14:52	WG2146874
Sodium	244		0.376	2.00	1	10/19/2023 14:52	WG2146874
Uranium	0.0209		0.0000789	0.00100	1	10/19/2023 14:52	WG2146874
Vanadium	0.0174		0.000664	0.00500	1	10/19/2023 14:52	WG2146874

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	0.386		0.0314	0.100	1	10/10/2023 15:11	WG2148221
(S) a,a,a-Trifluorotoluene(FID)	*112*			*78.0-120*		*10/10/2023 15:11*	WG2148221

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	10/08/2023 18:22	WG2147386
Benzene	U		0.000941	0.0100	10	10/08/2023 18:22	WG2147386
Bromodichloromethane	U		0.00136	0.0100	10	10/08/2023 18:22	WG2147386
Bromoform	U		0.00129	0.0100	10	10/08/2023 18:22	WG2147386
Bromomethane	U		0.00605	0.0500	10	10/08/2023 18:22	WG2147386
n-Butylbenzene	U		0.00157	0.0100	10	10/08/2023 18:22	WG2147386
sec-Butylbenzene	U		0.00125	0.0100	10	10/08/2023 18:22	WG2147386
Carbon disulfide	U		0.000962	0.0100	10	10/08/2023 18:22	WG2147386
Carbon tetrachloride	U		0.00128	0.0100	10	10/08/2023 18:22	WG2147386
Chlorobenzene	U		0.00116	0.0100	10	10/08/2023 18:22	WG2147386
Chlorodibromomethane	U		0.00140	0.0100	10	10/08/2023 18:22	WG2147386
Chloroethane	U		0.00192	0.0500	10	10/08/2023 18:22	WG2147386
Chloroform	U		0.00111	0.0500	10	10/08/2023 18:22	WG2147386
Chloromethane	U		0.00960	0.0250	10	10/08/2023 18:22	WG2147386
1,2-Dibromoethane	U		0.00126	0.0100	10	10/08/2023 18:22	WG2147386
1,1-Dichloroethane	U		0.00100	0.0100	10	10/08/2023 18:22	WG2147386
1,2-Dichloroethane	U		0.000819	0.0100	10	10/08/2023 18:22	WG2147386
1,1-Dichloroethene	U		0.00188	0.0100	10	10/08/2023 18:22	WG2147386
cis-1,2-Dichloroethene	U		0.00126	0.0100	10	10/08/2023 18:22	WG2147386
trans-1,2-Dichloroethene	U		0.00149	0.0100	10	10/08/2023 18:22	WG2147386
1,2-Dichloropropane	U		0.00149	0.0100	10	10/08/2023 18:22	WG2147386
cis-1,3-Dichloropropene	U	J4	0.00111	0.0100	10	10/08/2023 18:22	WG2147386
trans-1,3-Dichloropropene	U		0.00118	0.0100	10	10/08/2023 18:22	WG2147386
Ethylbenzene	U		0.00137	0.0100	10	10/08/2023 18:22	WG2147386
Isopropylbenzene	U		0.00105	0.0100	10	10/08/2023 18:22	WG2147386
p-Isopropyltoluene	U		0.00120	0.0100	10	10/08/2023 18:22	WG2147386
2-Butanone (MEK)	U		0.0119	0.100	10	10/08/2023 18:22	WG2147386
2-Hexanone	U		0.00787	0.100	10	10/08/2023 18:22	WG2147386
Methylene Chloride	U		0.00430	0.0500	10	10/08/2023 18:22	WG2147386
4-Methyl-2-pentanone (MIBK)	U		0.00478	0.100	10	10/08/2023 18:22	WG2147386
Methyl tert-butyl ether	0.192		0.00101	0.0100	10	10/08/2023 18:22	WG2147386
Naphthalene	U		0.0100	0.0500	10	10/08/2023 18:22	WG2147386
n-Propylbenzene	U		0.000993	0.0100	10	10/08/2023 18:22	WG2147386
Styrene	U		0.00118	0.0100	10	10/08/2023 18:22	WG2147386
tert-Butyl alcohol	U		0.0406	0.0500	10	10/08/2023 18:22	WG2147386
1,1,1,2-Tetrachloroethane	U		0.00147	0.0100	10	10/08/2023 18:22	WG2147386
1,1,2,2-Tetrachloroethane	U		0.00133	0.0100	10	10/08/2023 18:22	WG2147386
Tetrachloroethene	U		0.00300	0.0100	10	10/08/2023 18:22	WG2147386
Toluene	U		0.00278	0.0100	10	10/08/2023 18:22	WG2147386
1,1,1-Trichloroethane	U		0.00149	0.0100	10	10/08/2023 18:22	WG2147386
1,1,2-Trichloroethane	U		0.00158	0.0100	10	10/08/2023 18:22	WG2147386
Trichloroethene	U		0.00190	0.0100	10	10/08/2023 18:22	WG2147386
1,2,4-Trimethylbenzene	U		0.00322	0.0100	10	10/08/2023 18:22	WG2147386
1,3,5-Trimethylbenzene	U		0.00104	0.0100	10	10/08/2023 18:22	WG2147386
Vinyl chloride	U		0.00234	0.0100	10	10/08/2023 18:22	WG2147386
o-Xylene	U		0.00174	0.0100	10	10/08/2023 18:22	WG2147386
m&p-Xylene	U		0.00430	0.0200	10	10/08/2023 18:22	WG2147386
Xylenes, Total	U		0.00174	0.0300	10	10/08/2023 18:22	WG2147386
(S) Toluene-d8	*118*			*80.0-120*		*10/08/2023 18:22*	WG2147386
(S) 4-Bromofluorobenzene	*99.3*			*77.0-126*		*10/08/2023 18:22*	WG2147386
(S) 1,2-Dichloroethane-d4	*117*			*70.0-130*		*10/08/2023 18:22*	WG2147386

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		0.0247	0.100	1	10/14/2023 02:13	WG2149783

MW-33
Collected date/time: 10/04/23 11:10
L1663141

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	*64.0*			*31.0-160*		*10/14/2023 02:13*	WG2149783

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2880		50.0	1	10/09/2023 15:31	WG2147682

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	230		3.79	10.0	10	10/06/2023 07:58	WG2145796
Fluoride	1.03	J	0.640	1.50	10	10/06/2023 07:58	WG2145796
Nitrate	U		0.480	1.00	10	10/06/2023 07:58	WG2145796
Nitrite	0.572	J	0.420	1.00	10	10/06/2023 07:58	WG2145796
Sulfate	1260		5.94	50.0	10	10/06/2023 07:58	WG2145796

Sample Narrative:

L1663141-59 WG2145796: Dilution due to matrix.

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00324		0.000180	0.00200	1	10/19/2023 15:02	WG2146874
Barium	0.0175		0.000381	0.00200	1	10/19/2023 15:02	WG2146874
Calcium	478		0.0936	1.00	1	10/19/2023 15:02	WG2146874
Chromium	U		0.00124	0.00200	1	10/19/2023 15:02	WG2146874
Iron	U		0.0281	0.100	1	10/19/2023 15:02	WG2146874
Lead	U		0.000849	0.00200	1	10/19/2023 15:02	WG2146874
Manganese	0.940		0.000704	0.00500	1	10/19/2023 15:02	WG2146874
Potassium	0.353	J	0.108	2.00	1	10/19/2023 15:02	WG2146874
Selenium	U		0.000300	0.00200	1	10/19/2023 15:02	WG2146874
Sodium	73.5		0.376	2.00	1	10/19/2023 15:02	WG2146874

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	10/08/2023 16:10	WG2147386
Benzene	U		0.0000941	0.00100	1	10/08/2023 16:10	WG2147386
Bromodichloromethane	U		0.000136	0.00100	1	10/08/2023 16:10	WG2147386
Bromoform	U		0.000129	0.00100	1	10/08/2023 16:10	WG2147386
Bromomethane	U		0.000605	0.00500	1	10/08/2023 16:10	WG2147386
n-Butylbenzene	U		0.000157	0.00100	1	10/08/2023 16:10	WG2147386
sec-Butylbenzene	U		0.000125	0.00100	1	10/08/2023 16:10	WG2147386
Carbon disulfide	U		0.0000962	0.00100	1	10/08/2023 16:10	WG2147386
Carbon tetrachloride	U		0.000128	0.00100	1	10/08/2023 16:10	WG2147386
Chlorobenzene	U		0.000116	0.00100	1	10/08/2023 16:10	WG2147386
Chlorodibromomethane	U		0.000140	0.00100	1	10/08/2023 16:10	WG2147386
Chloroethane	U		0.000192	0.00500	1	10/08/2023 16:10	WG2147386
Chloroform	U		0.000111	0.00500	1	10/08/2023 16:10	WG2147386
Chloromethane	U		0.000960	0.00250	1	10/08/2023 16:10	WG2147386
1,2-Dibromoethane	U		0.000126	0.00100	1	10/08/2023 16:10	WG2147386
1,1-Dichloroethane	U		0.000100	0.00100	1	10/08/2023 16:10	WG2147386
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/08/2023 16:10	WG2147386
1,1-Dichloroethene	U		0.000188	0.00100	1	10/08/2023 16:10	WG2147386
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/08/2023 16:10	WG2147386
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/08/2023 16:10	WG2147386
1,2-Dichloropropane	U		0.000149	0.00100	1	10/08/2023 16:10	WG2147386
cis-1,3-Dichloropropene	U	J4	0.000111	0.00100	1	10/08/2023 16:10	WG2147386
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/08/2023 16:10	WG2147386

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	10/08/2023 16:10	WG2147386
Isopropylbenzene	U		0.000105	0.00100	1	10/08/2023 16:10	WG2147386
p-Isopropyltoluene	U		0.000120	0.00100	1	10/08/2023 16:10	WG2147386
2-Butanone (MEK)	U		0.00119	0.0100	1	10/08/2023 16:10	WG2147386
2-Hexanone	U		0.000787	0.0100	1	10/08/2023 16:10	WG2147386
Methylene Chloride	U		0.000430	0.00500	1	10/08/2023 16:10	WG2147386
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/08/2023 16:10	WG2147386
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/08/2023 16:10	WG2147386
Naphthalene	U		0.00100	0.00500	1	10/08/2023 16:10	WG2147386
n-Propylbenzene	U		0.0000993	0.00100	1	10/08/2023 16:10	WG2147386
Styrene	U		0.000118	0.00100	1	10/08/2023 16:10	WG2147386
tert-Butyl alcohol	U		0.00406	0.00500	1	10/08/2023 16:10	WG2147386
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	10/08/2023 16:10	WG2147386
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/08/2023 16:10	WG2147386
Tetrachloroethene	U		0.000300	0.00100	1	10/08/2023 16:10	WG2147386
Toluene	U		0.000278	0.00100	1	10/08/2023 16:10	WG2147386
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/08/2023 16:10	WG2147386
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/08/2023 16:10	WG2147386
Trichloroethene	U		0.000190	0.00100	1	10/08/2023 16:10	WG2147386
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/08/2023 16:10	WG2147386
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/08/2023 16:10	WG2147386
Vinyl chloride	U		0.000234	0.00100	1	10/08/2023 16:10	WG2147386
o-Xylene	U		0.000174	0.00100	1	10/08/2023 16:10	WG2147386
m&p-Xylene	U		0.000430	0.00200	1	10/08/2023 16:10	WG2147386
Xylenes, Total	U		0.000174	0.00300	1	10/08/2023 16:10	WG2147386
(S) Toluene-d8	*120*			*80.0-120*		*10/08/2023 16:10*	WG2147386
(S) 4-Bromofluorobenzene	*102*			*77.0-126*		*10/08/2023 16:10*	WG2147386
(S) 1,2-Dichloroethane-d4	*117*			*70.0-130*		*10/08/2023 16:10*	WG2147386

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	3.18		0.0247	0.100	1	10/14/2023 08:15	WG2149783
(S) o-Terphenyl	*64.0*			*31.0-160*		*10/14/2023 08:15*	WG2149783

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2560		50.0	1	10/09/2023 12:57	WG2147656

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	160		3.79	10.0	10	10/06/2023 08:24	WG2145796
Fluoride	0.783	J	0.640	1.50	10	10/06/2023 08:24	WG2145796
Nitrate	17.3		0.480	1.00	10	10/06/2023 08:24	WG2145796
Nitrite	0.561	J	0.420	1.00	10	10/06/2023 08:24	WG2145796
Sulfate	2150		59.4	500	100	10/06/2023 08:40	WG2145796

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00160	J	0.000180	0.00200	1	10/19/2023 15:06	WG2146874
Barium	0.0134		0.000381	0.00200	1	10/19/2023 15:06	WG2146874
Calcium	550		0.0936	1.00	1	10/19/2023 15:06	WG2146874
Chromium	U		0.00124	0.00200	1	10/19/2023 15:06	WG2146874
Iron	U		0.0281	0.100	1	10/19/2023 15:06	WG2146874
Lead	U		0.000849	0.00200	1	10/19/2023 15:06	WG2146874
Manganese	U		0.000704	0.00500	1	10/19/2023 15:06	WG2146874
Potassium	0.707	J	0.108	2.00	1	10/19/2023 15:06	WG2146874
Selenium	0.0143		0.000300	0.00200	1	10/19/2023 15:06	WG2146874
Sodium	168		0.376	2.00	1	10/19/2023 15:06	WG2146874

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	10/08/2023 16:32	WG2147386
Benzene	U		0.0000941	0.00100	1	10/08/2023 16:32	WG2147386
Bromodichloromethane	U		0.000136	0.00100	1	10/08/2023 16:32	WG2147386
Bromoform	U		0.000129	0.00100	1	10/08/2023 16:32	WG2147386
Bromomethane	U		0.000605	0.00500	1	10/08/2023 16:32	WG2147386
n-Butylbenzene	U		0.000157	0.00100	1	10/08/2023 16:32	WG2147386
sec-Butylbenzene	U		0.000125	0.00100	1	10/08/2023 16:32	WG2147386
Carbon disulfide	U		0.0000962	0.00100	1	10/08/2023 16:32	WG2147386
Carbon tetrachloride	U		0.000128	0.00100	1	10/08/2023 16:32	WG2147386
Chlorobenzene	U		0.000116	0.00100	1	10/08/2023 16:32	WG2147386
Chlorodibromomethane	U		0.000140	0.00100	1	10/08/2023 16:32	WG2147386
Chloroethane	U		0.000192	0.00500	1	10/08/2023 16:32	WG2147386
Chloroform	U		0.000111	0.00500	1	10/08/2023 16:32	WG2147386
Chloromethane	U		0.000960	0.00250	1	10/08/2023 16:32	WG2147386
1,2-Dibromoethane	U		0.000126	0.00100	1	10/08/2023 16:32	WG2147386
1,1-Dichloroethane	U		0.000100	0.00100	1	10/08/2023 16:32	WG2147386
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/08/2023 16:32	WG2147386
1,1-Dichloroethene	U		0.000188	0.00100	1	10/08/2023 16:32	WG2147386
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/08/2023 16:32	WG2147386
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/08/2023 16:32	WG2147386
1,2-Dichloropropane	U		0.000149	0.00100	1	10/08/2023 16:32	WG2147386
cis-1,3-Dichloropropene	U	J4	0.000111	0.00100	1	10/08/2023 16:32	WG2147386
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/08/2023 16:32	WG2147386
Ethylbenzene	U		0.000137	0.00100	1	10/08/2023 16:32	WG2147386
Isopropylbenzene	U		0.000105	0.00100	1	10/08/2023 16:32	WG2147386
p-Isopropyltoluene	U		0.000120	0.00100	1	10/08/2023 16:32	WG2147386

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
2-Butanone (MEK)	U		0.00119	0.0100	1	10/08/2023 16:32	WG2147386
2-Hexanone	U		0.000787	0.0100	1	10/08/2023 16:32	WG2147386
Methylene Chloride	U		0.000430	0.00500	1	10/08/2023 16:32	WG2147386
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/08/2023 16:32	WG2147386
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/08/2023 16:32	WG2147386
Naphthalene	U		0.00100	0.00500	1	10/08/2023 16:32	WG2147386
n-Propylbenzene	U		0.0000993	0.00100	1	10/08/2023 16:32	WG2147386
Styrene	U		0.000118	0.00100	1	10/08/2023 16:32	WG2147386
tert-Butyl alcohol	U		0.00406	0.00500	1	10/08/2023 16:32	WG2147386
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	10/08/2023 16:32	WG2147386
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/08/2023 16:32	WG2147386
Tetrachloroethene	U		0.000300	0.00100	1	10/08/2023 16:32	WG2147386
Toluene	U		0.000278	0.00100	1	10/08/2023 16:32	WG2147386
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/08/2023 16:32	WG2147386
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/08/2023 16:32	WG2147386
Trichloroethene	U		0.000190	0.00100	1	10/08/2023 16:32	WG2147386
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/08/2023 16:32	WG2147386
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/08/2023 16:32	WG2147386
Vinyl chloride	U		0.000234	0.00100	1	10/08/2023 16:32	WG2147386
o-Xylene	U		0.000174	0.00100	1	10/08/2023 16:32	WG2147386
m&p-Xylene	U		0.000430	0.00200	1	10/08/2023 16:32	WG2147386
Xylenes, Total	U		0.000174	0.00300	1	10/08/2023 16:32	WG2147386
(S) Toluene-d8	*117*			*80.0-120*		*10/08/2023 16:32*	WG2147386
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*10/08/2023 16:32*	WG2147386
(S) 1,2-Dichloroethane-d4	*120*			*70.0-130*		*10/08/2023 16:32*	WG2147386

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	10/14/2023 06:08	WG2149783
(S) o-Terphenyl	*45.0*			*31.0-160*		*10/14/2023 06:08*	WG2149783

Received by OCD: 6/12/2024 3:31:05 PM

DUP-NOL-01
Collected date/time: 10/04/23 12:00
L1663141

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3640		50.0	1	10/09/2023 19:53	WG2146109

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	161		3.79	10.0	10	10/06/2023 08:53	WG2145796
Fluoride	0.847	J	0.640	1.50	10	10/06/2023 08:53	WG2145796
Nitrate	17.2		0.480	1.00	10	10/06/2023 08:53	WG2145796
Nitrite	0.518	J	0.420	1.00	10	10/06/2023 08:53	WG2145796
Sulfate	2180		59.4	500	100	10/06/2023 09:07	WG2145796

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00161	J	0.000180	0.00200	1	10/19/2023 15:09	WG2146874
Barium	0.0137		0.000381	0.00200	1	10/19/2023 15:09	WG2146874
Calcium	556		0.0936	1.00	1	10/19/2023 15:09	WG2146874
Chromium	U		0.00124	0.00200	1	10/19/2023 15:09	WG2146874
Iron	U		0.0281	0.100	1	10/19/2023 15:09	WG2146874
Lead	U		0.000849	0.00200	1	10/19/2023 15:09	WG2146874
Manganese	U		0.000704	0.00500	1	10/19/2023 15:09	WG2146874
Potassium	0.705	J	0.108	2.00	1	10/19/2023 15:09	WG2146874
Selenium	0.0155		0.000300	0.00200	1	10/19/2023 15:09	WG2146874
Sodium	167		0.376	2.00	1	10/19/2023 15:09	WG2146874

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	10/08/2023 16:54	WG2147386
Benzene	U		0.0000941	0.00100	1	10/08/2023 16:54	WG2147386
Bromodichloromethane	U		0.000136	0.00100	1	10/08/2023 16:54	WG2147386
Bromoform	U		0.000129	0.00100	1	10/08/2023 16:54	WG2147386
Bromomethane	U		0.000605	0.00500	1	10/08/2023 16:54	WG2147386
n-Butylbenzene	U		0.000157	0.00100	1	10/08/2023 16:54	WG2147386
sec-Butylbenzene	U		0.000125	0.00100	1	10/08/2023 16:54	WG2147386
Carbon disulfide	U		0.0000962	0.00100	1	10/08/2023 16:54	WG2147386
Carbon tetrachloride	U		0.000128	0.00100	1	10/08/2023 16:54	WG2147386
Chlorobenzene	U		0.000116	0.00100	1	10/08/2023 16:54	WG2147386
Chlorodibromomethane	U		0.000140	0.00100	1	10/08/2023 16:54	WG2147386
Chloroethane	U		0.000192	0.00500	1	10/08/2023 16:54	WG2147386
Chloroform	U		0.000111	0.00500	1	10/08/2023 16:54	WG2147386
Chloromethane	U		0.000960	0.00250	1	10/08/2023 16:54	WG2147386
1,2-Dibromoethane	U		0.000126	0.00100	1	10/08/2023 16:54	WG2147386
1,1-Dichloroethane	U		0.000100	0.00100	1	10/08/2023 16:54	WG2147386
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/08/2023 16:54	WG2147386
1,1-Dichloroethene	U		0.000188	0.00100	1	10/08/2023 16:54	WG2147386
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/08/2023 16:54	WG2147386
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/08/2023 16:54	WG2147386
1,2-Dichloropropane	U		0.000149	0.00100	1	10/08/2023 16:54	WG2147386
cis-1,3-Dichloropropene	U	J4	0.000111	0.00100	1	10/08/2023 16:54	WG2147386
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/08/2023 16:54	WG2147386
Ethylbenzene	U		0.000137	0.00100	1	10/08/2023 16:54	WG2147386
Isopropylbenzene	U		0.000105	0.00100	1	10/08/2023 16:54	WG2147386
p-Isopropyltoluene	U		0.000120	0.00100	1	10/08/2023 16:54	WG2147386

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Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
2-Butanone (MEK)	U		0.00119	0.0100	1	10/08/2023 16:54	WG2147386
2-Hexanone	U		0.000787	0.0100	1	10/08/2023 16:54	WG2147386
Methylene Chloride	U		0.000430	0.00500	1	10/08/2023 16:54	WG2147386
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/08/2023 16:54	WG2147386
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/08/2023 16:54	WG2147386
Naphthalene	U		0.00100	0.00500	1	10/08/2023 16:54	WG2147386
n-Propylbenzene	U		0.0000993	0.00100	1	10/08/2023 16:54	WG2147386
Styrene	U		0.000118	0.00100	1	10/08/2023 16:54	WG2147386
tert-Butyl alcohol	U		0.00406	0.00500	1	10/08/2023 16:54	WG2147386
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	10/08/2023 16:54	WG2147386
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/08/2023 16:54	WG2147386
Tetrachloroethene	U		0.000300	0.00100	1	10/08/2023 16:54	WG2147386
Toluene	U		0.000278	0.00100	1	10/08/2023 16:54	WG2147386
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/08/2023 16:54	WG2147386
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/08/2023 16:54	WG2147386
Trichloroethene	U		0.000190	0.00100	1	10/08/2023 16:54	WG2147386
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/08/2023 16:54	WG2147386
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/08/2023 16:54	WG2147386
Vinyl chloride	U		0.000234	0.00100	1	10/08/2023 16:54	WG2147386
o-Xylene	U		0.000174	0.00100	1	10/08/2023 16:54	WG2147386
m&p-Xylene	U		0.000430	0.00200	1	10/08/2023 16:54	WG2147386
Xylenes, Total	U		0.000174	0.00300	1	10/08/2023 16:54	WG2147386
(S) Toluene-d8	*119*			*80.0-120*		*10/08/2023 16:54*	WG2147386
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*10/08/2023 16:54*	WG2147386
(S) 1,2-Dichloroethane-d4	*117*			*70.0-130*		*10/08/2023 16:54*	WG2147386

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	10/14/2023 06:33	WG2149783
(S) o-Terphenyl	*56.5*			*31.0-160*		*10/14/2023 06:33*	WG2149783

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	10/09/2023 12:57	WG2147656

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	10/06/2023 09:21	WG2145796
Fluoride	0.0889	J	0.0640	0.150	1	10/06/2023 09:21	WG2145796
Nitrate	0.0515	J	0.0480	0.100	1	10/06/2023 09:21	WG2145796
Nitrite	U		0.0420	0.100	1	10/06/2023 09:21	WG2145796
Sulfate	U		0.594	5.00	1	10/06/2023 09:21	WG2145796

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	10/19/2023 15:12	WG2146874
Barium	U		0.000381	0.00200	1	10/19/2023 15:12	WG2146874
Calcium	0.333	J	0.0936	1.00	1	10/19/2023 15:12	WG2146874
Chromium	U		0.00124	0.00200	1	10/19/2023 15:12	WG2146874
Iron	U		0.0281	0.100	1	10/19/2023 15:12	WG2146874
Lead	U		0.000849	0.00200	1	10/19/2023 15:12	WG2146874
Manganese	U		0.000704	0.00500	1	10/19/2023 15:12	WG2146874
Potassium	U		0.108	2.00	1	10/19/2023 15:12	WG2146874
Selenium	U		0.000300	0.00200	1	10/19/2023 15:12	WG2146874
Sodium	U		0.376	2.00	1	10/19/2023 15:12	WG2146874

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	10/08/2023 13:37	WG2147386
Benzene	U		0.0000941	0.00100	1	10/08/2023 13:37	WG2147386
Bromodichloromethane	U		0.000136	0.00100	1	10/08/2023 13:37	WG2147386
Bromoform	U		0.000129	0.00100	1	10/08/2023 13:37	WG2147386
Bromomethane	U		0.000605	0.00500	1	10/08/2023 13:37	WG2147386
n-Butylbenzene	U		0.000157	0.00100	1	10/08/2023 13:37	WG2147386
sec-Butylbenzene	U		0.000125	0.00100	1	10/08/2023 13:37	WG2147386
Carbon disulfide	U		0.0000962	0.00100	1	10/08/2023 13:37	WG2147386
Carbon tetrachloride	U		0.000128	0.00100	1	10/08/2023 13:37	WG2147386
Chlorobenzene	U		0.000116	0.00100	1	10/08/2023 13:37	WG2147386
Chlorodibromomethane	U		0.000140	0.00100	1	10/08/2023 13:37	WG2147386
Chloroethane	U		0.000192	0.00500	1	10/08/2023 13:37	WG2147386
Chloroform	0.000246	J	0.000111	0.00500	1	10/08/2023 13:37	WG2147386
Chloromethane	U		0.000960	0.00250	1	10/08/2023 13:37	WG2147386
1,2-Dibromoethane	U		0.000126	0.00100	1	10/08/2023 13:37	WG2147386
1,1-Dichloroethane	U		0.000100	0.00100	1	10/08/2023 13:37	WG2147386
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/08/2023 13:37	WG2147386
1,1-Dichloroethene	U		0.000188	0.00100	1	10/08/2023 13:37	WG2147386
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/08/2023 13:37	WG2147386
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/08/2023 13:37	WG2147386
1,2-Dichloropropane	U		0.000149	0.00100	1	10/08/2023 13:37	WG2147386
cis-1,3-Dichloropropene	U	J4	0.000111	0.00100	1	10/08/2023 13:37	WG2147386
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/08/2023 13:37	WG2147386
Ethylbenzene	U		0.000137	0.00100	1	10/08/2023 13:37	WG2147386
Isopropylbenzene	U		0.000105	0.00100	1	10/08/2023 13:37	WG2147386
p-Isopropyltoluene	U		0.000120	0.00100	1	10/08/2023 13:37	WG2147386

Received by OCD: 6/12/2024 3:31:05 PM

LB-NCL-01
Collected date/time: 10/04/23 13:10
L1663141

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
2-Butanone (MEK)	U		0.00119	0.0100	1	10/08/2023 13:37	WG2147386
2-Hexanone	U		0.000787	0.0100	1	10/08/2023 13:37	WG2147386
Methylene Chloride	U		0.000430	0.00500	1	10/08/2023 13:37	WG2147386
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/08/2023 13:37	WG2147386
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/08/2023 13:37	WG2147386
Naphthalene	U		0.00100	0.00500	1	10/08/2023 13:37	WG2147386
n-Propylbenzene	U		0.0000993	0.00100	1	10/08/2023 13:37	WG2147386
Styrene	U		0.000118	0.00100	1	10/08/2023 13:37	WG2147386
tert-Butyl alcohol	U		0.00406	0.00500	1	10/08/2023 13:37	WG2147386
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	10/08/2023 13:37	WG2147386
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/08/2023 13:37	WG2147386
Tetrachloroethene	U		0.000300	0.00100	1	10/08/2023 13:37	WG2147386
Toluene	U		0.000278	0.00100	1	10/08/2023 13:37	WG2147386
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/08/2023 13:37	WG2147386
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/08/2023 13:37	WG2147386
Trichloroethene	U		0.000190	0.00100	1	10/08/2023 13:37	WG2147386
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/08/2023 13:37	WG2147386
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/08/2023 13:37	WG2147386
Vinyl chloride	U		0.000234	0.00100	1	10/08/2023 13:37	WG2147386
o-Xylene	U		0.000174	0.00100	1	10/08/2023 13:37	WG2147386
m&p-Xylene	U		0.000430	0.00200	1	10/08/2023 13:37	WG2147386
Xylenes, Total	U		0.000174	0.00300	1	10/08/2023 13:37	WG2147386
(S) Toluene-d8	*119*			*80.0-120*		*10/08/2023 13:37*	WG2147386
(S) 4-Bromofluorobenzene	*99.6*			*77.0-126*		*10/08/2023 13:37*	WG2147386
(S) 1,2-Dichloroethane-d4	*116*			*70.0-130*		*10/08/2023 13:37*	WG2147386

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	10/14/2023 06:59	WG2149783
(S) o-Terphenyl	*49.1*			*31.0-160*		*10/14/2023 06:59*	WG2149783

Released to Imaging: 6/28/2024 11:23:28 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
Acetone	U		0.0113	0.0500	1	10/08/2023 13:59	WG2147386
Benzene	U		0.0000941	0.00100	1	10/08/2023 13:59	WG2147386
Bromodichloromethane	U		0.000136	0.00100	1	10/08/2023 13:59	WG2147386
Bromoform	U		0.000129	0.00100	1	10/08/2023 13:59	WG2147386
Bromomethane	U		0.000605	0.00500	1	10/08/2023 13:59	WG2147386
n-Butylbenzene	U		0.000157	0.00100	1	10/08/2023 13:59	WG2147386
sec-Butylbenzene	U		0.000125	0.00100	1	10/08/2023 13:59	WG2147386
Carbon disulfide	U		0.0000962	0.00100	1	10/08/2023 13:59	WG2147386
Carbon tetrachloride	U		0.000128	0.00100	1	10/08/2023 13:59	WG2147386
Chlorobenzene	U		0.000116	0.00100	1	10/08/2023 13:59	WG2147386
Chlorodibromomethane	U		0.000140	0.00100	1	10/08/2023 13:59	WG2147386
Chloroethane	U		0.000192	0.00500	1	10/08/2023 13:59	WG2147386
Chloroform	U		0.000111	0.00500	1	10/08/2023 13:59	WG2147386
Chloromethane	U		0.000960	0.00250	1	10/08/2023 13:59	WG2147386
1,2-Dibromoethane	U		0.000126	0.00100	1	10/08/2023 13:59	WG2147386
1,1-Dichloroethane	U		0.000100	0.00100	1	10/08/2023 13:59	WG2147386
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/08/2023 13:59	WG2147386
1,1-Dichloroethene	U		0.000188	0.00100	1	10/08/2023 13:59	WG2147386
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	10/08/2023 13:59	WG2147386
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	10/08/2023 13:59	WG2147386
1,2-Dichloropropane	U		0.000149	0.00100	1	10/08/2023 13:59	WG2147386
cis-1,3-Dichloropropene	U	J4	0.000111	0.00100	1	10/08/2023 13:59	WG2147386
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/08/2023 13:59	WG2147386
Ethylbenzene	U		0.000137	0.00100	1	10/08/2023 13:59	WG2147386
Isopropylbenzene	U		0.000105	0.00100	1	10/08/2023 13:59	WG2147386
p-Isopropyltoluene	U		0.000120	0.00100	1	10/08/2023 13:59	WG2147386
2-Butanone (MEK)	U		0.00119	0.0100	1	10/08/2023 13:59	WG2147386
2-Hexanone	U		0.000787	0.0100	1	10/08/2023 13:59	WG2147386
Methylene Chloride	U		0.000430	0.00500	1	10/08/2023 13:59	WG2147386
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/08/2023 13:59	WG2147386
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/08/2023 13:59	WG2147386
Naphthalene	U		0.00100	0.00500	1	10/08/2023 13:59	WG2147386
n-Propylbenzene	U		0.0000993	0.00100	1	10/08/2023 13:59	WG2147386
Styrene	U		0.000118	0.00100	1	10/08/2023 13:59	WG2147386
tert-Butyl alcohol	U		0.00406	0.00500	1	10/08/2023 13:59	WG2147386
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	10/08/2023 13:59	WG2147386
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/08/2023 13:59	WG2147386
Tetrachloroethene	U		0.000300	0.00100	1	10/08/2023 13:59	WG2147386
Toluene	U		0.000278	0.00100	1	10/08/2023 13:59	WG2147386
1,1,1-Trichloroethane	U		0.000149	0.00100	1	10/08/2023 13:59	WG2147386
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/08/2023 13:59	WG2147386
Trichloroethene	U		0.000190	0.00100	1	10/08/2023 13:59	WG2147386
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/08/2023 13:59	WG2147386
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/08/2023 13:59	WG2147386
Vinyl chloride	U		0.000234	0.00100	1	10/08/2023 13:59	WG2147386
o-Xylene	U		0.000174	0.00100	1	10/08/2023 13:59	WG2147386
m&p-Xylene	U		0.000430	0.00200	1	10/08/2023 13:59	WG2147386
Xylenes, Total	U		0.000174	0.00300	1	10/08/2023 13:59	WG2147386
(S) Toluene-d8	*117*			*80.0-120*		*10/08/2023 13:59*	WG2147386
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*10/08/2023 13:59*	WG2147386
(S) 1,2-Dichloroethane-d4	*116*			*70.0-130*		*10/08/2023 13:59*	WG2147386

Method Blank (MB)

(MB) R3984853-1 10/09/23 19:53

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1663086-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1663086-06 10/09/23 19:53 • (DUP) R3984853-3 10/09/23 19:53

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	1180	1210	1	2.85		5

L1663141-17 Original Sample (OS) • Duplicate (DUP)

(OS) L1663141-17 10/09/23 19:53 • (DUP) R3984853-4 10/09/23 19:53

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	1380	1410	1	1.79		5

Laboratory Control Sample (LCS)

(LCS) R3984853-2 10/09/23 19:53

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8510	96.7	77.3-123	

Method Blank (MB)

(MB) R3984862-1 10/09/23 12:57

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1663141-23 Original Sample (OS) • Duplicate (DUP)

(OS) L1663141-23 10/09/23 12:57 • (DUP) R3984862-3 10/09/23 12:57

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	3330	3470	1	4.27		5

L1663141-33 Original Sample (OS) • Duplicate (DUP)

(OS) L1663141-33 10/09/23 12:57 • (DUP) R3984862-4 10/09/23 12:57

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	3330	3490	1	4.84		5

Laboratory Control Sample (LCS)

(LCS) R3984862-2 10/09/23 12:57

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8520	96.8	77.3-123	

Method Blank (MB)

(MB) R3985017-1 10/09/23 15:31

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1663108-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1663108-03 10/09/23 15:31 • (DUP) R3985017-3 10/09/23 15:31

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	561	584	1	3.96		5

L1663108-16 Original Sample (OS) • Duplicate (DUP)

(OS) L1663108-16 10/09/23 15:31 • (DUP) R3985017-4 10/09/23 15:31

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	773	829	1	6.99	J3	5

Laboratory Control Sample (LCS)

(LCS) R3985017-2 10/09/23 15:31

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8640	98.2	77.3-123	

Received by OCD: 6/12/2024 3:31:05 PM

Method Blank (MB)

(MB) R3985460-1 10/09/23 12:14

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1663108-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1663108-10 10/09/23 12:14 • (DUP) R3985460-3 10/09/23 12:14

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	466	475	1	1.91		5

L1663108-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1663108-13 10/09/23 12:14 • (DUP) R3985460-4 10/09/23 12:14

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	749	775	1	3.33		5

Laboratory Control Sample (LCS)

(LCS) R3985460-2 10/09/23 12:14

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8870	101	77.3-123	

Released to Imaging: 6/28/2024 11:23:28 AM

Method Blank (MB)

(MB) R3985496-1 10/10/23 00:37

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1661744-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1661744-01 10/10/23 00:37 • (DUP) R3985496-3 10/10/23 00:37

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	2330	2330	1	0.215		5

L1661747-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1661747-01 10/10/23 00:37 • (DUP) R3985496-4 10/10/23 00:37

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	71.0	69.0	1	2.86		5

Laboratory Control Sample (LCS)

(LCS) R3985496-2 10/10/23 00:37

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8260	93.9	77.3-123	

Received by OCD: 6/12/2024 3:31:05 PM

Gravimetric Analysis by Method 2540 C-2011

Method Blank (MB)

(MB) R3985480-1 10/10/23 12:55

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1663274-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1663274-01 10/10/23 12:55 • (DUP) R3985480-3 10/10/23 12:55

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	1190	1310	1	9.20	J3	5

L1663274-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1663274-03 10/10/23 12:55 • (DUP) R3985480-4 10/10/23 12:55

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	964	1040	1	7.78	J3	5

Laboratory Control Sample (LCS)

(LCS) R3985480-2 10/10/23 12:55

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8160	92.7	77.3-123	

Released to Imaging: 6/28/2024 11:23:28 AM

Method Blank (MB)

(MB) R3985447-1 10/10/23 13:19

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1663141-46 Original Sample (OS) • Duplicate (DUP)

(OS) L1663141-46 10/10/23 13:19 • (DUP) R3985447-3 10/10/23 13:19

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	1930	1910	1	1.04		5

L1663141-47 Original Sample (OS) • Duplicate (DUP)

(OS) L1663141-47 10/10/23 13:19 • (DUP) R3985447-4 10/10/23 13:19

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	3490	4060	1	15.0	J3	5

Laboratory Control Sample (LCS)

(LCS) R3985447-2 10/10/23 13:19

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8460	96.1	77.3-123	

Method Blank (MB)

(MB) R3986723-1 10/13/23 00:00

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1663622-14 Original Sample (OS) • Duplicate (DUP)

(OS) L1663622-14 10/13/23 00:00 • (DUP) R3986723-3 10/13/23 00:00

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	1550	1570	1	1.15		5

L1664648-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1664648-09 10/13/23 00:00 • (DUP) R3986723-4 10/13/23 00:00

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	608	609	1	0.164		5

Laboratory Control Sample (LCS)

(LCS) R3986723-2 10/13/23 00:00

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8520	96.8	77.3-123	

Method Blank (MB)

(MB) R3984038-1 10/09/23 17:43

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Cyanide	U		0.00180	0.00500

L1663074-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1663074-13 10/09/23 18:04 • (DUP) R3984038-9 10/09/23 18:06

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) R3984038-2 10/09/23 17:44

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Cyanide	0.100	0.0901	90.1	87.1-120	

L1663074-13 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1663074-13 10/09/23 18:04 • (MS) R3984038-10 10/09/23 18:07 • (MSD) R3984038-11 10/09/23 18:09

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 %
Cyanide	0.100	U	0.0741	0.0790	74.1	79.0	1	90.0-110	J6	J6	6.40	20

Sample Narrative:

MS: Matrix spike failure due to matrix interference.

MSD: Matrix spike failure due to matrix interference.

Method Blank (MB)

(MB) R3983700-1 10/09/23 11:22

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Cyanide	U		0.00180	0.00500

L1663702-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1663702-06 10/09/23 11:51 • (DUP) R3983700-3 10/09/23 11:52

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	U	U	1	0.000		20

L1663763-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1663763-07 10/09/23 12:05 • (DUP) R3983700-6 10/09/23 12:07

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) R3983700-2 10/09/23 11:24

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Cyanide	0.100	0.0905	90.5	87.1-120	

L1663710-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1663710-01 10/09/23 11:57 • (MS) R3983700-4 10/09/23 11:58 • (MSD) R3983700-5 10/09/23 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	U	0.0920	0.0919	92.0	91.9	1	90.0-110			0.109	20

Method Blank (MB)

(MB) R3986400-1 10/06/23 02:56

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
Nitrate	U		0.0480	0.100
Nitrite	U		0.0420	0.100
Sulfate	U		0.594	5.00

L1663141-62 Original Sample (OS) • Duplicate (DUP)

(OS) L1663141-62 10/06/23 09:21 • (DUP) R3986400-3 10/06/23 09:34

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	0.0889	0.0822	1	7.83	J	15
Nitrate	0.0515	0.0507	1	1.57	J	15
Nitrite	U	U	1	0.000		15
Sulfate	U	U	1	0.000		15

L1663033-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1663033-05 10/06/23 10:50 • (DUP) R3986400-5 10/06/23 11:02

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	19.7	19.7	1	0.132		15
Fluoride	0.208	0.217	1	4.18		15
Nitrate	0.335	0.332	1	1.08		15
Nitrite	0.0472	0.0483	1	2.30	J	15
Sulfate	51.5	51.8	1	0.481		15

Laboratory Control Sample (LCS)

(LCS) R3986400-2 10/06/23 03:09

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	8.13	102	80.0-120	
Nitrate	8.00	7.71	96.4	80.0-120	
Nitrite	8.00	7.86	98.3	80.0-120	

Laboratory Control Sample (LCS)

(LCS) R3986400-2 10/06/23 03:09

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Sulfate	40.0	39.3	98.2	80.0-120	

L1663141-62 Original Sample (OS) • Matrix Spike (MS)

(OS) L1663141-62 10/06/23 09:21 • (MS) R3986400-4 10/06/23 09:47

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40.0	U	39.9	99.8	1	80.0-120	
Fluoride	8.00	0.0889	8.08	99.9	1	80.0-120	
Nitrate	8.00	0.0515	7.87	97.7	1	80.0-120	
Nitrite	8.00	U	7.93	99.1	1	80.0-120	
Sulfate	40.0	U	39.6	98.9	1	80.0-120	

L1663033-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1663033-05 10/06/23 10:50 • (MS) R3986400-6 10/06/23 11:15 • (MSD) R3986400-7 10/06/23 11:28

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	40.0	19.7	56.0	56.0	90.8	90.7	1	80.0-120			0.0473	15
Fluoride	8.00	0.208	8.50	8.49	104	103	1	80.0-120			0.120	15
Nitrate	8.00	0.335	8.13	8.11	97.5	97.1	1	80.0-120			0.321	15
Nitrite	8.00	0.0472	8.42	8.42	105	105	1	80.0-120			0.0843	15
Sulfate	40.0	51.5	82.0	82.1	76.1	76.4	1	80.0-120	J6	J6	0.140	15

Method Blank (MB)

(MB) R3983101-1 10/06/23 00:47

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	0.473	J	0.379	1.00
Fluoride	U		0.0640	0.150
Nitrate	U		0.0480	0.100
Nitrite	U		0.0420	0.100
Sulfate	U		0.594	5.00

L1663033-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1663033-02 10/06/23 02:15 • (DUP) R3983101-8 10/06/23 09:01

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	54.1	55.5	1	2.62		15
Fluoride	0.160	0.103	1	43.0	J P1	15
Nitrate	2.96	3.06	1	3.18		15
Nitrite	U	U	1	0.000		15
Sulfate	71.2	70.0	1	1.72		15

L1663077-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1663077-01 10/06/23 02:32 • (DUP) R3983101-11 10/06/23 09:52

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	3.20	3.20	1	0.0624		15
Fluoride	0.374	0.373	1	0.402		15
Nitrate	4.35	4.40	1	0.996		15
Nitrite	0.159	0.167	1	5.09		15
Sulfate	13.9	14.0	1	1.03		15

Laboratory Control Sample (LCS)

(LCS) R3983101-2 10/06/23 01:04

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	7.94	99.3	80.0-120	
Nitrate	8.00	7.52	94.0	80.0-120	
Nitrite	8.00	8.12	101	80.0-120	

Laboratory Control Sample (LCS)

(LCS) R3983101-2 10/06/23 01:04

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Sulfate	40.0	38.4	96.0	80.0-120	

L1663033-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1663033-02 10/06/23 02:15 • (MS) R3983101-9 10/06/23 09:18 • (MSD) R3983101-10 10/06/23 09:35

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	40.0	54.1	85.2	85.0	77.8	77.2	1	80.0-120	J6	J6	0.298	15
Fluoride	8.00	0.160	7.89	7.84	96.6	95.9	1	80.0-120			0.639	15
Nitrate	8.00	2.96	10.6	10.5	96.0	94.7	1	80.0-120			0.964	15
Nitrite	8.00	U	8.12	8.04	101	101	1	80.0-120			0.922	15
Sulfate	40.0	71.2	96.8	96.5	64.0	63.4	1	80.0-120	J6	J6	0.278	15

L1663077-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1663077-01 10/06/23 02:32 • (MS) R3983101-12 10/06/23 10:09

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40.0	3.20	42.0	97.0	1	80.0-120	
Fluoride	8.00	0.374	8.17	97.4	1	80.0-120	
Nitrate	8.00	4.35	11.7	91.7	1	80.0-120	
Nitrite	8.00	0.159	8.18	100	1	80.0-120	
Sulfate	40.0	13.9	50.7	92.0	1	80.0-120	

Method Blank (MB)

(MB) R3985401-1 10/05/23 18:13

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
Nitrate	U		0.0480	0.100
Nitrite	U		0.0420	0.100
Sulfate	U		0.594	5.00

L1663033-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1663033-11 10/05/23 19:05 • (DUP) R3985401-3 10/06/23 01:44

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	56.2	56.0	1	0.443		15
Fluoride	0.102	0.0942	1	8.15	J	15
Nitrate	2.87	2.86	1	0.192		15
Nitrite	U	U	1	0.000		15
Sulfate	65.5	65.8	1	0.382		15

L1663071-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1663071-01 10/05/23 19:53 • (DUP) R3985401-5 10/06/23 02:48

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	2.07	2.04	1	1.48		15
Fluoride	0.142	0.148	1	4.06	J	15
Nitrate	0.380	0.393	1	3.36		15
Nitrite	U	U	1	0.000		15
Sulfate	2.94	3.15	1	6.73	J	15

Laboratory Control Sample (LCS)

(LCS) R3985401-2 10/05/23 18:29

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	39.6	99.0	80.0-120	
Fluoride	8.00	8.17	102	80.0-120	
Nitrate	8.00	7.77	97.2	80.0-120	
Nitrite	8.00	8.32	104	80.0-120	

Laboratory Control Sample (LCS)

(LCS) R3985401-2 10/05/23 18:29

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Sulfate	40.0	38.4	95.9	80.0-120	

L1663057-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1663057-01 10/05/23 19:21 • (MS) R3985401-4 10/06/23 02:16

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40.0	790	673	0.000	1	80.0-120	E V
Fluoride	8.00	2.56	9.81	90.7	1	80.0-120	
Nitrate	8.00	10.1	16.0	73.1	1	80.0-120	J6
Nitrite	8.00	U	7.96	99.6	1	80.0-120	
Sulfate	40.0	394	374	0.000	1	80.0-120	E V

L1663071-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1663071-01 10/05/23 19:53 • (MS) R3985401-6 10/06/23 03:04 • (MSD) R3985401-7 10/06/23 03:20

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 %
Chloride	40.0	2.07	41.4	41.7	98.3	99.0	1	80.0-120			0.704	15
Fluoride	8.00	0.142	7.98	8.02	98.0	98.4	1	80.0-120			0.471	15
Nitrate	8.00	0.380	8.09	8.10	96.3	96.5	1	80.0-120			0.168	15
Nitrite	8.00	U	8.25	8.30	103	104	1	80.0-120			0.556	15
Sulfate	40.0	2.94	40.1	40.7	92.9	94.3	1	80.0-120			1.39	15

Method Blank (MB)

(MB) R3984713-1 10/10/23 23:39

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
Nitrate	U		0.0480	0.100
Nitrite	U		0.0420	0.100
Sulfate	U		0.594	5.00

L1662566-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1662566-01 10/11/23 08:10 • (DUP) R3984713-3 10/11/23 08:23

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	3.38	3.36	1	0.579		15
Fluoride	0.232	0.240	1	3.39		15
Nitrate	0.664	0.654	1	1.52		15
Nitrite	U	U	1	0.000		15
Sulfate	52.1	52.0	1	0.0844		15

L1664355-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1664355-01 10/11/23 03:04 • (DUP) R3984713-6 10/11/23 03:17

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	1.52	1.55	1	1.62		15
Fluoride	U	U	1	0.000		15
Nitrate	1.58	1.59	1	0.523		15
Nitrite	U	U	1	0.000		15
Sulfate	2.30	2.27	1	1.22	J	15

Laboratory Control Sample (LCS)

(LCS) R3984713-2 10/10/23 23:52

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	40.1	100	80.0-120	
Fluoride	8.00	8.19	102	80.0-120	
Nitrate	8.00	7.94	99.3	80.0-120	
Nitrite	8.00	8.37	105	80.0-120	

Laboratory Control Sample (LCS)

(LCS) R3984713-2 10/10/23 23:52

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Sulfate	40.0	40.3	101	80.0-120	

L1662566-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1662566-01 10/11/23 08:10 • (MS) R3984713-4 10/11/23 08:35 • (MSD) R3984713-5 10/11/23 08:48

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	40.0	3.38	44.3	43.6	102	101	1	80.0-120			1.52	15
Fluoride	8.00	0.232	8.36	8.41	102	102	1	80.0-120			0.547	15
Nitrate	8.00	0.664	8.65	8.56	99.8	98.7	1	80.0-120			1.01	15
Nitrite	8.00	U	8.36	8.40	104	105	1	80.0-120			0.539	15
Sulfate	40.0	52.1	83.6	83.5	78.8	78.5	1	80.0-120	J6	J6	0.131	15

L1664355-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1664355-01 10/11/23 03:04 • (MS) R3984713-7 10/11/23 03:30

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40.0	1.52	42.6	103	1	80.0-120	
Fluoride	8.00	U	8.42	105	1	80.0-120	
Nitrate	8.00	1.58	9.77	102	1	80.0-120	
Nitrite	8.00	U	8.59	107	1	80.0-120	
Sulfate	40.0	2.30	43.1	102	1	80.0-120	

Method Blank (MB)

(MB) R3985294-1 10/11/23 09:06

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
Nitrate	U		0.0480	0.100
Nitrite	U		0.0420	0.100
Sulfate	0.602	J	0.594	5.00

L1662315-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1662315-08 10/11/23 13:13 • (DUP) R3985294-3 10/11/23 13:26

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	11.7	11.6	1	0.559		15
Fluoride	U	U	1	0.000		15
Nitrate	0.0851	0.0840	1	1.30	J	15
Nitrite	0.0959	0.0962	1	0.312	J	15
Sulfate	6.94	6.91	1	0.357		15

L1662315-25 Original Sample (OS) • Duplicate (DUP)

(OS) L1662315-25 10/11/23 16:23 • (DUP) R3985294-6 10/11/23 16:36

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	6.51	6.45	1	0.932		15
Fluoride	U	U	1	0.000		15
Nitrate	0.129	0.126	1	2.20		15
Nitrite	0.0971	0.0947	1	2.50	J	15
Sulfate	4.24	4.19	1	1.02	J	15

Laboratory Control Sample (LCS)

(LCS) R3985294-2 10/11/23 09:19

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	40.4	101	80.0-120	
Fluoride	8.00	8.62	108	80.0-120	
Nitrate	8.00	7.95	99.4	80.0-120	
Nitrite	8.00	8.88	111	80.0-120	

Laboratory Control Sample (LCS)

(LCS) R3985294-2 10/11/23 09:19

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Sulfate	40.0	40.2	101	80.0-120	

L1662315-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1662315-08 10/11/23 13:13 • (MS) R3985294-4 10/11/23 13:39 • (MSD) R3985294-5 10/11/23 13:52

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 %
Chloride	40.0	11.7	49.5	49.2	94.5	93.7	1	80.0-120			0.660	15
Fluoride	8.00	U	8.30	8.46	104	106	1	80.0-120			1.92	15
Nitrate	8.00	0.0851	7.87	7.75	97.4	95.8	1	80.0-120			1.60	15
Nitrite	8.00	0.0959	8.84	8.84	109	109	1	80.0-120			0.0226	15
Sulfate	40.0	6.94	45.1	44.8	95.4	94.7	1	80.0-120			0.690	15

L1662315-25 Original Sample (OS) • Matrix Spike (MS)

(OS) L1662315-25 10/11/23 16:23 • (MS) R3985294-7 10/11/23 16:50

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40.0	6.51	45.3	97.1	1	80.0-120	
Fluoride	8.00	U	8.28	103	1	80.0-120	
Nitrate	8.00	0.129	7.91	97.3	1	80.0-120	
Nitrite	8.00	0.0971	8.87	110	1	80.0-120	
Sulfate	40.0	4.24	42.6	95.9	1	80.0-120	

Method Blank (MB)

(MB) R3987601-1 10/13/23 13:12

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
Nitrate	U		0.0480	0.100
Nitrite	U		0.0420	0.100
Sulfate	U		0.594	5.00

L1663141-48 Original Sample (OS) • Duplicate (DUP)

(OS) L1663141-48 10/13/23 15:42 • (DUP) R3987601-3 10/13/23 16:08

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	220	219	1	0.503	E	15
Fluoride	1.32	1.28	1	2.91		15
Nitrate	U	U	1	0.000		15
Nitrite	U	U	1	0.000		15
Sulfate	92.5	91.2	1	1.44		15

L1663141-48 Original Sample (OS) • Duplicate (DUP)

(OS) L1663141-48 10/13/23 15:55 • (DUP) R3987601-4 10/13/23 16:46

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	199	198	10	0.674		15
Fluoride	1.08	1.51	10	33.4	P1	15
Nitrate	0.480	U	10	200	P1	15
Nitrite	U	U	10	0.000		15
Sulfate	79.9	79.5	10	0.533		15

L1663702-17 Original Sample (OS) • Duplicate (DUP)

(OS) L1663702-17 10/13/23 22:04 • (DUP) R3987601-7 10/13/23 22:17

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	13.7	13.7	1	0.335		15
Sulfate	4.75	4.74	1	0.194	J	15

Laboratory Control Sample (LCS)

(LCS) R3987601-2 10/13/23 13:25

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	38.6	96.4	80.0-120	
Fluoride	8.00	7.77	97.1	80.0-120	
Nitrate	8.00	7.61	95.1	80.0-120	
Nitrite	8.00	8.00	100	80.0-120	
Sulfate	40.0	38.4	95.9	80.0-120	

L1663141-48 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1663141-48 10/13/23 15:55 • (MS) R3987601-5 10/13/23 16:59 • (MSD) R3987601-6 10/13/23 17:11

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	40.0	199	197	199	0.000	0.000	10	80.0-120	V	V	0.664	15
Fluoride	8.00	1.08	7.50	7.43	80.4	79.5	10	80.0-120		J6	0.934	15
Nitrate	8.00	0.480	5.95	5.74	68.4	65.7	10	80.0-120	J6	J6	3.64	15
Nitrite	8.00	U	6.36	6.36	79.5	79.5	10	80.0-120	J6	J6	0.00472	15
Sulfate	40.0	79.9	99.9	99.1	50.1	48.1	10	80.0-120	J6	J6	0.805	15

L1663702-17 Original Sample (OS) • Matrix Spike (MS)

(OS) L1663702-17 10/13/23 22:04 • (MS) R3987601-8 10/13/23 22:30

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40.0	13.7	50.2	91.2	1	80.0-120	
Sulfate	40.0	4.75	41.6	92.0	1	80.0-120	

Method Blank (MB)

(MB) R3986596-1 10/16/23 03:59

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.379	1.00

L1664106-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1664106-01 10/16/23 04:24 • (DUP) R3986596-3 10/16/23 04:37

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	23.3	23.5	1	0.459		15

Laboratory Control Sample (LCS)

(LCS) R3986596-2 10/16/23 04:12

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	40.0	100	80.0-120	

L1664106-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1664106-01 10/16/23 04:24 • (MS) R3986596-4 10/16/23 04:49 • (MSD) R3986596-5 10/16/23 05:02

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 %
Chloride	40.0	23.3	55.6	55.6	80.7	80.5	1	80.0-120			0.135	15

Method Blank (MB)

(MB) R3984331-1 10/10/23 13:10

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) R3984331-2 10/10/23 13:12

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.00300	0.00295	98.4	80.0-120	

L1663197-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1663197-04 10/10/23 13:15 • (MS) R3984331-3 10/10/23 13:17 • (MSD) R3984331-4 10/10/23 13:19

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 %
Mercury	0.0300	U	0.0304	0.0300	101	100	10	75.0-125			1.24	20

Method Blank (MB)

(MB) R3984482-1 10/10/23 15:46

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) R3984482-5 10/10/23 16:36

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.00300	0.00275	91.6	80.0-120	

L1662826-13 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1662826-13 10/10/23 15:51 • (MS) R3984482-3 10/10/23 15:58 • (MSD) R3984482-4 10/10/23 16:00

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 %
Mercury	0.00300	U	0.00311	0.00314	104	105	1	75.0-125			1.04	20

Method Blank (MB)

(MB) R3985154-1 10/11/23 21:46

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) R3985154-2 10/11/23 21:48

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron	1.00	1.07	107	80.0-120	

L1663122-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1663122-12 10/11/23 21:51 • (MS) R3985154-4 10/11/23 21:57 • (MSD) R3985154-5 10/11/23 22:00

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 %
Boron	1.00	2.50	3.54	3.57	104	106	1	75.0-125			0.773	20

Method Blank (MB)

(MB) R3986302-1 10/14/23 00:02

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) R3986302-2 10/14/23 00:05

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron	1.00	0.987	98.7	80.0-120	

L1663333-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1663333-01 10/14/23 00:08 • (MS) R3986302-4 10/14/23 00:13 • (MSD) R3986302-5 10/14/23 00:16

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 %
Boron	1.00	0.0479	1.05	1.04	101	98.8	1	75.0-125			1.67	20

Method Blank (MB)

(MB) R3988786-1 10/19/23 15:40

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
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	0.0692	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		0.0000789	0.00100
Vanadium	U		0.000664	0.00500

Laboratory Control Sample (LCS)

(LCS) R3988786-2 10/19/23 15:43

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	0.0500	0.0516	103	80.0-120	
Barium	0.0500	0.0478	95.7	80.0-120	
Cadmium	0.0500	0.0523	105	80.0-120	
Calcium	5.00	5.01	100	80.0-120	
Chromium	0.0500	0.0514	103	80.0-120	
Cobalt	0.0500	0.0523	105	80.0-120	
Iron	1.00	1.04	104	80.0-120	
Lead	0.0500	0.0492	98.5	80.0-120	
Manganese	0.0500	0.0519	104	80.0-120	
Nickel	0.0500	0.0522	104	80.0-120	
Potassium	5.00	4.94	98.9	80.0-120	
Selenium	0.0500	0.0531	106	80.0-120	
Sodium	5.00	5.17	103	80.0-120	
Uranium	0.0500	0.0528	106	80.0-120	
Vanadium	0.0500	0.0514	103	80.0-120	

L1663141-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1663141-02 10/19/23 15:46 • (MS) R3988786-4 10/19/23 15:53 • (MSD) R3988786-5 10/19/23 15:56

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	0.0500	0.00839	0.0613	0.0605	106	104	5	75.0-125			1.31	20
Barium	0.0500	0.0120	0.0607	0.0627	97.5	101	5	75.0-125			3.26	20
Cadmium	0.0500	U	0.0513	0.0532	103	106	5	75.0-125			3.65	20
Calcium	5.00	389	382	387	0.000	0.000	5	75.0-125	V	V	1.30	20
Chromium	0.0500	U	0.0501	0.0491	100	98.2	5	75.0-125			1.89	20
Cobalt	0.0500	0.00136	0.0517	0.0507	101	98.6	5	75.0-125			2.08	20
Iron	1.00	U	1.07	1.06	107	106	5	75.0-125			1.21	20
Lead	0.0500	U	0.0460	0.0477	92.0	95.4	5	75.0-125			3.67	20
Manganese	0.0500	0.935	0.988	0.971	106	71.8	5	75.0-125		V	1.76	20
Nickel	0.0500	0.00603	0.0547	0.0546	97.4	97.1	5	75.0-125			0.273	20
Potassium	5.00	2.87	7.62	7.76	95.0	97.8	5	75.0-125			1.86	20
Selenium	0.0500	U	0.0480	0.0542	96.0	108	5	75.0-125			12.1	20
Sodium	5.00	1480	1420	1420	0.000	0.000	5	75.0-125	V	V	0.557	20
Uranium	0.0500	0.0173	0.0673	0.0700	100	105	5	75.0-125			3.85	20
Vanadium	0.0500	0.00707	0.0574	0.0574	101	101	5	75.0-125			0.0695	20

Method Blank (MB)

(MB) R3988161-1 10/18/23 19:48

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) R3988161-2 10/18/23 19:51

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	0.0500	0.0514	103	80.0-120	
Barium	0.0500	0.0462	92.5	80.0-120	
Cadmium	0.0500	0.0523	105	80.0-120	
Calcium	5.00	4.95	99.0	80.0-120	
Chromium	0.0500	0.0519	104	80.0-120	
Cobalt	0.0500	0.0520	104	80.0-120	
Iron	1.00	1.03	103	80.0-120	
Lead	0.0500	0.0495	99.0	80.0-120	
Manganese	0.0500	0.0508	102	80.0-120	
Nickel	0.0500	0.0513	103	80.0-120	
Potassium	5.00	4.93	98.6	80.0-120	
Selenium	0.0500	0.0509	102	80.0-120	
Sodium	5.00	4.82	96.5	80.0-120	
Uranium	0.0500	0.0499	99.8	80.0-120	
Vanadium	0.0500	0.0508	102	80.0-120	

L1663141-31 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1663141-31 10/18/23 19:54 • (MS) R3988161-4 10/18/23 20:01 • (MSD) R3988161-5 10/18/23 20:04

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	0.0500	0.00273	0.0542	0.0538	103	102	1	75.0-125			0.705	20
Barium	0.0500	0.0373	0.0841	0.0855	93.6	96.4	1	75.0-125			1.63	20
Cadmium	0.0500	U	0.0516	0.0525	103	105	1	75.0-125			1.74	20
Calcium	5.00	285	289	290	87.1	105	1	75.0-125			0.306	20
Chromium	0.0500	U	0.0492	0.0488	98.5	97.5	1	75.0-125			0.961	20
Cobalt	0.0500	0.000532	0.0493	0.0488	97.6	96.6	1	75.0-125			1.01	20
Iron	1.00	0.391	1.37	1.36	98.2	96.8	1	75.0-125			0.973	20
Lead	0.0500	0.00158	0.0511	0.0502	99.0	97.3	1	75.0-125			1.62	20
Manganese	0.0500	0.692	0.752	0.745	119	107	1	75.0-125			0.840	20
Nickel	0.0500	0.00188	0.0491	0.0490	94.5	94.3	1	75.0-125			0.250	20
Potassium	5.00	0.469	5.30	5.34	96.6	97.5	1	75.0-125			0.844	20
Selenium	0.0500	U	0.0538	0.0531	108	106	1	75.0-125			1.33	20
Sodium	5.00	257	258	264	38.3	159	1	75.0-125	V	V	2.31	20
Uranium	0.0500	0.00126	0.0541	0.0527	106	103	1	75.0-125			2.56	20
Vanadium	0.0500	0.000823	0.0506	0.0506	99.6	99.6	1	75.0-125			0.0266	20

Method Blank (MB)

(MB) R3988479-1 10/19/23 13:44

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic	U		0.000180	0.00200
Barium	0.000386	J	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) R3988479-2 10/19/23 13:48

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	0.0500	0.0525	105	80.0-120	
Barium	0.0500	0.0492	98.3	80.0-120	
Cadmium	0.0500	0.0538	108	80.0-120	
Calcium	5.00	5.16	103	80.0-120	
Chromium	0.0500	0.0531	106	80.0-120	
Cobalt	0.0500	0.0528	106	80.0-120	
Iron	1.00	1.07	107	80.0-120	
Lead	0.0500	0.0480	96.0	80.0-120	
Manganese	0.0500	0.0531	106	80.0-120	
Nickel	0.0500	0.0532	106	80.0-120	
Potassium	5.00	5.10	102	80.0-120	
Selenium	0.0500	0.0554	111	80.0-120	
Sodium	5.00	5.18	104	80.0-120	
Uranium	0.0500	0.0514	103	80.0-120	
Vanadium	0.0500	0.0523	105	80.0-120	

L1663141-57 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1663141-57 10/19/23 13:51 • (MS) R3988479-4 10/19/23 13:57 • (MSD) R3988479-5 10/19/23 14:01

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	0.0106	0.0601	0.0624	99.0	104	1	75.0-125			3.82	20
Barium	0.0500	0.0224	0.0710	0.0724	97.2	100	1	75.0-125			2.02	20
Cadmium	0.0500	U	0.0545	0.0539	109	108	1	75.0-125			1.05	20
Calcium	5.00	176	179	181	61.6	108	1	75.0-125	V		1.28	20
Chromium	0.0500	U	0.0500	0.0507	100	101	1	75.0-125			1.36	20
Cobalt	0.0500	0.00195	0.0502	0.0519	96.5	99.9	1	75.0-125			3.33	20
Iron	1.00	0.453	1.43	1.45	97.7	100	1	75.0-125			1.64	20
Lead	0.0500	U	0.0501	0.0501	100	100	1	75.0-125			0.126	20
Manganese	0.0500	1.35	1.34	1.38	0.000	68.6	1	75.0-125	V	V	2.89	20
Nickel	0.0500	0.00214	0.0500	0.0513	95.6	98.4	1	75.0-125			2.71	20
Potassium	5.00	0.265	5.38	5.31	102	101	1	75.0-125			1.22	20
Selenium	0.0500	U	0.0549	0.0543	110	109	1	75.0-125			1.14	20
Sodium	5.00	27.7	33.4	32.5	113	95.3	1	75.0-125			2.65	20
Uranium	0.0500	0.00264	0.0566	0.0568	108	108	1	75.0-125			0.257	20
Vanadium	0.0500	U	0.0509	0.0510	102	102	1	75.0-125			0.0888	20

Received by OCD: 6/12/2024 3:31:05 PM

Method Blank (MB)

(MB) R3984502-2 10/09/23 18:33

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)	*104*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R3984502-1 10/09/23 17:49

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.04	91.6	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*102*	*78.0-120*	

Released to Imaging: 6/28/2024 11:23:28 AM

Method Blank (MB)

(MB) R3984783-2 10/09/23 21:58

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	0.0333	J	0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*109*			*78.0-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3984783-1 10/09/23 21:13 • (LCSD) R3984783-3 10/09/23 22:40

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) Low Fraction	5.50	5.69	5.61	103	102	72.0-127			1.42	20
(S) a,a,a-Trifluorotoluene(FID)				*115*	*115*	*78.0-120*				

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Received by OCD: 6/12/2024 3:31:05 PM

Method Blank (MB)

(MB) R3986829-4 10/10/23 11:39

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)	*110*			*78.0-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3986829-2 10/10/23 10:05 • (LCSD) R3986829-3 10/10/23 10:28

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 %
TPH (GC/FID) Low Fraction	5.50	5.67	5.63	103	102	72.0-127			0.708	20
(S) a,a,a-Trifluorotoluene(FID)				*116*	*116*	*78.0-120*				

Released to Imaging: 6/28/2024 11:23:28 AM

Method Blank (MB)

(MB) R3985942-2 10/11/23 14:47

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)	*110*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R3985942-1 10/11/23 14:02

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.21	94.7	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*116*	*78.0-120*	

L1663622-23 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1663622-23 10/11/23 21:23 • (MS) R3985942-3 10/12/23 00:00 • (MSD) R3985942-4 10/12/23 00:23

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 %
TPH (GC/FID) Low Fraction	5.50	0.0842	4.38	4.80	78.1	85.7	1	10.0-160			9.15	22
(S) a,a,a-Trifluorotoluene(FID)					*112*	*112*		*78.0-120*				

Method Blank (MB)

(MB) R3987505-3 10/17/23 11:57

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)	*97.5*			*78.0-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3987505-1 10/17/23 10:16 • (LCSD) R3987505-2 10/17/23 11:10

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 %
TPH (GC/FID) Low Fraction	5.50	5.82	5.45	106	99.1	72.0-127			6.57	20
(S) a,a,a-Trifluorotoluene(FID)				*100*	*102*	*78.0-120*				

Method Blank (MB)

(MB) R3983882-3 10/08/23 13:20

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
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
2-Hexanone	U		0.000787	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
tert-Butyl alcohol	U		0.00406	0.00500
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

Method Blank (MB)

(MB) R3983882-3 10/08/23 13:20

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,1,2-Trichloroethane	U		0.000158	0.00100
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
o-Xylene	U		0.000174	0.00100
m&p-Xylene	U		0.000430	0.00200
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	*108*			*80.0-120*
(S) 4-Bromofluorobenzene	*111*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*92.3*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3983882-1 10/08/23 12:09 • (LCSD) R3983882-2 10/08/23 12:33

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	0.0271	0.0293	108	117	19.0-160			7.80	27
Benzene	0.00500	0.00514	0.00555	103	111	70.0-123			7.67	20
Bromodichloromethane	0.00500	0.00487	0.00526	97.4	105	75.0-120			7.70	20
Bromoform	0.00500	0.00503	0.00523	101	105	68.0-132			3.90	20
Bromomethane	0.00500	0.000718	0.000882	14.4	17.6	10.0-160			20.5	25
n-Butylbenzene	0.00500	0.00421	0.00463	84.2	92.6	73.0-125			9.50	20
sec-Butylbenzene	0.00500	0.00456	0.00505	91.2	101	75.0-125			10.2	20
Carbon disulfide	0.00500	0.00466	0.00533	93.2	107	61.0-128			13.4	20
Carbon tetrachloride	0.00500	0.00516	0.00546	103	109	68.0-126			5.65	20
Chlorobenzene	0.00500	0.00495	0.00522	99.0	104	80.0-121			5.31	20
Chlorodibromomethane	0.00500	0.00488	0.00513	97.6	103	77.0-125			5.00	20
Chloroethane	0.00500	0.00330	0.00389	66.0	77.8	47.0-150			16.4	20
Chloroform	0.00500	0.00503	0.00540	101	108	73.0-120			7.09	20
Chloromethane	0.00500	0.00420	0.00495	84.0	99.0	41.0-142			16.4	20
1,2-Dibromoethane	0.00500	0.00503	0.00537	101	107	80.0-122			6.54	20
1,1-Dichloroethane	0.00500	0.00504	0.00570	101	114	70.0-126			12.3	20
1,2-Dichloroethane	0.00500	0.00470	0.00493	94.0	98.6	70.0-128			4.78	20
1,1-Dichloroethene	0.00500	0.00504	0.00546	101	109	71.0-124			8.00	20
cis-1,2-Dichloroethene	0.00500	0.00522	0.00571	104	114	73.0-120			8.97	20
trans-1,2-Dichloroethene	0.00500	0.00487	0.00566	97.4	113	73.0-120			15.0	20
1,2-Dichloropropane	0.00500	0.00488	0.00526	97.6	105	77.0-125			7.50	20
cis-1,3-Dichloropropene	0.00500	0.00488	0.00519	97.6	104	80.0-123			6.16	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3983882-1 10/08/23 12:09 • (LCSD) R3983882-2 10/08/23 12:33

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	0.00508	98.8	102	78.0-124			2.79	20
Ethylbenzene	0.00500	0.00488	0.00529	97.6	106	79.0-123			8.06	20
Isopropylbenzene	0.00500	0.00510	0.00537	102	107	76.0-127			5.16	20
p-Isopropyltoluene	0.00500	0.00444	0.00498	88.8	99.6	76.0-125			11.5	20
2-Butanone (MEK)	0.0250	0.0303	0.0313	121	125	44.0-160			3.25	20
2-Hexanone	0.0250	0.0252	0.0249	101	99.6	67.0-149			1.20	20
Methylene Chloride	0.00500	0.00458	0.00495	91.6	99.0	67.0-120			7.76	20
4-Methyl-2-pentanone (MIBK)	0.0250	0.0249	0.0243	99.6	97.2	68.0-142			2.44	20
Methyl tert-butyl ether	0.00500	0.00496	0.00531	99.2	106	68.0-125			6.82	20
Naphthalene	0.00500	0.00500	0.00521	100	104	54.0-135			4.11	20
n-Propylbenzene	0.00500	0.00453	0.00497	90.6	99.4	77.0-124			9.26	20
Styrene	0.00500	0.00462	0.00489	92.4	97.8	73.0-130			5.68	20
tert-Butyl alcohol	0.0250	0.0394	0.0317	158	127	27.0-160			21.7	30
1,1,1,2-Tetrachloroethane	0.00500	0.00535	0.00552	107	110	75.0-125			3.13	20
1,1,2,2-Tetrachloroethane	0.00500	0.00464	0.00457	92.8	91.4	65.0-130			1.52	20
Tetrachloroethene	0.00500	0.00553	0.00580	111	116	72.0-132			4.77	20
Toluene	0.00500	0.00505	0.00536	101	107	79.0-120			5.96	20
1,1,1-Trichloroethane	0.00500	0.00513	0.00563	103	113	73.0-124			9.29	20
1,1,2-Trichloroethane	0.00500	0.00537	0.00540	107	108	80.0-120			0.557	20
Trichloroethene	0.00500	0.00531	0.00611	106	122	78.0-124			14.0	20
1,2,4-Trimethylbenzene	0.00500	0.00449	0.00510	89.8	102	76.0-121			12.7	20
1,3,5-Trimethylbenzene	0.00500	0.00482	0.00510	96.4	102	76.0-122			5.65	20
Vinyl chloride	0.00500	0.00420	0.00479	84.0	95.8	67.0-131			13.1	20
o-Xylene	0.00500	0.00486	0.00506	97.2	101	80.0-122			4.03	20
m&p-Xylene	0.0100	0.00989	0.0107	98.9	107	80.0-122			7.87	20
Xylenes, Total	0.0150	0.0147	0.0158	98.0	105	79.0-123			7.21	20
(S) Toluene-d8				*107*	*105*	*80.0-120*				
(S) 4-Bromofluorobenzene				*118*	*115*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*86.4*	*88.3*	*70.0-130*				

Method Blank (MB)

(MB) R3984782-3 10/09/23 01:11

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	0.00236	J	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
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
2-Hexanone	U		0.000787	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
tert-Butyl alcohol	U		0.00406	0.00500
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

Method Blank (MB)

(MB) R3984782-3 10/09/23 01:11

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,1,2-Trichloroethane	U		0.000158	0.00100
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
o-Xylene	U		0.000174	0.00100
m&p-Xylene	U		0.000430	0.00200
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	*96.2*			*80.0-120*
(S) 4-Bromofluorobenzene	*92.4*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*96.3*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3984782-1 10/09/23 00:09 • (LCSD) R3984782-2 10/09/23 00:30

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	0.0237	0.0242	94.8	96.8	19.0-160			2.09	27
Benzene	0.00500	0.00471	0.00505	94.2	101	70.0-123			6.97	20
Bromodichloromethane	0.00500	0.00474	0.00518	94.8	104	75.0-120			8.87	20
Bromoform	0.00500	0.00466	0.00469	93.2	93.8	68.0-132			0.642	20
Bromomethane	0.00500	0.00658	0.00705	132	141	10.0-160			6.90	25
n-Butylbenzene	0.00500	0.00438	0.00478	87.6	95.6	73.0-125			8.73	20
sec-Butylbenzene	0.00500	0.00480	0.00506	96.0	101	75.0-125			5.27	20
Carbon disulfide	0.00500	0.00425	0.00464	85.0	92.8	61.0-128			8.77	20
Carbon tetrachloride	0.00500	0.00476	0.00484	95.2	96.8	68.0-126			1.67	20
Chlorobenzene	0.00500	0.00512	0.00534	102	107	80.0-121			4.21	20
Chlorodibromomethane	0.00500	0.00510	0.00509	102	102	77.0-125			0.196	20
Chloroethane	0.00500	0.00499	0.00549	99.8	110	47.0-150			9.54	20
Chloroform	0.00500	0.00501	0.00530	100	106	73.0-120			5.63	20
Chloromethane	0.00500	0.00404	0.00460	80.8	92.0	41.0-142			13.0	20
1,2-Dibromoethane	0.00500	0.00538	0.00532	108	106	80.0-122			1.12	20
1,1-Dichloroethane	0.00500	0.00485	0.00531	97.0	106	70.0-126			9.06	20
1,2-Dichloroethane	0.00500	0.00502	0.00543	100	109	70.0-128			7.85	20
1,1-Dichloroethene	0.00500	0.00469	0.00496	93.8	99.2	71.0-124			5.60	20
cis-1,2-Dichloroethene	0.00500	0.00476	0.00504	95.2	101	73.0-120			5.71	20
trans-1,2-Dichloroethene	0.00500	0.00469	0.00516	93.8	103	73.0-120			9.54	20
1,2-Dichloropropane	0.00500	0.00489	0.00497	97.8	99.4	77.0-125			1.62	20
cis-1,3-Dichloropropene	0.00500	0.00443	0.00475	88.6	95.0	80.0-123			6.97	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3984782-1 10/09/23 00:09 • (LCSD) R3984782-2 10/09/23 00:30

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	0.00491	0.00501	98.2	100	78.0-124			2.02	20
Ethylbenzene	0.00500	0.00484	0.00509	96.8	102	79.0-123			5.04	20
Isopropylbenzene	0.00500	0.00487	0.00511	97.4	102	76.0-127			4.81	20
p-Isopropyltoluene	0.00500	0.00462	0.00506	92.4	101	76.0-125			9.09	20
2-Butanone (MEK)	0.0250	0.0228	0.0246	91.2	98.4	44.0-160			7.59	20
2-Hexanone	0.0250	0.0244	0.0248	97.6	99.2	67.0-149			1.63	20
Methylene Chloride	0.00500	0.00477	0.00497	95.4	99.4	67.0-120			4.11	20
4-Methyl-2-pentanone (MIBK)	0.0250	0.0268	0.0276	107	110	68.0-142			2.94	20
Methyl tert-butyl ether	0.00500	0.00504	0.00543	101	109	68.0-125			7.45	20
Naphthalene	0.00500	0.00416	0.00434	83.2	86.8	54.0-135			4.24	20
n-Propylbenzene	0.00500	0.00474	0.00520	94.8	104	77.0-124			9.26	20
Styrene	0.00500	0.00483	0.00492	96.6	98.4	73.0-130			1.85	20
tert-Butyl alcohol	0.0250	0.0237	0.0254	94.8	102	27.0-160			6.92	30
1,1,1,2-Tetrachloroethane	0.00500	0.00500	0.00502	100	100	75.0-125			0.399	20
1,1,2,2-Tetrachloroethane	0.00500	0.00487	0.00523	97.4	105	65.0-130			7.13	20
Tetrachloroethene	0.00500	0.00523	0.00540	105	108	72.0-132			3.20	20
Toluene	0.00500	0.00503	0.00518	101	104	79.0-120			2.94	20
1,1,1-Trichloroethane	0.00500	0.00484	0.00522	96.8	104	73.0-124			7.55	20
1,1,2-Trichloroethane	0.00500	0.00546	0.00525	109	105	80.0-120			3.92	20
Trichloroethene	0.00500	0.00491	0.00553	98.2	111	78.0-124			11.9	20
1,2,4-Trimethylbenzene	0.00500	0.00477	0.00497	95.4	99.4	76.0-121			4.11	20
1,3,5-Trimethylbenzene	0.00500	0.00472	0.00535	94.4	107	76.0-122			12.5	20
Vinyl chloride	0.00500	0.00473	0.00495	94.6	99.0	67.0-131			4.55	20
o-Xylene	0.00500	0.00475	0.00484	95.0	96.8	80.0-122			1.88	20
m&p-Xylene	0.0100	0.00991	0.0102	99.1	102	80.0-122			2.88	20
Xylenes, Total	0.0150	0.0147	0.0150	98.0	100	79.0-123			2.02	20
(S) Toluene-d8				*97.2*	*94.4*	*80.0-120*				
(S) 4-Bromofluorobenzene				*101*	*96.1*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*98.1*	*97.7*	*70.0-130*				

Received by OCD: 6/12/2024 3:31:05 PM

Method Blank (MB)

(MB) R3984160-3 10/07/23 23:11

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
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
2-Hexanone	U		0.000787	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
tert-Butyl alcohol	U		0.00406	0.00500
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

Released to Imaging: 6/28/2024 11:23:28 AM

Method Blank (MB)

(MB) R3984160-3 10/07/23 23:11

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,1,2-Trichloroethane	U		0.000158	0.00100
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
o-Xylene	U		0.000174	0.00100
m&p-Xylene	U		0.000430	0.00200
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	*114*			*80.0-120*
(S) 4-Bromofluorobenzene	*86.1*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*96.8*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3984160-1 10/07/23 22:06

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.0250	0.0306	122	19.0-160	
Benzene	0.00500	0.00451	90.2	70.0-123	
Bromodichloromethane	0.00500	0.00474	94.8	75.0-120	
Bromoform	0.00500	0.00506	101	68.0-132	
Bromomethane	0.00500	0.00333	66.6	10.0-160	
n-Butylbenzene	0.00500	0.00427	85.4	73.0-125	
sec-Butylbenzene	0.00500	0.00464	92.8	75.0-125	
Carbon disulfide	0.00500	0.00372	74.4	61.0-128	
Carbon tetrachloride	0.00500	0.00420	84.0	68.0-126	
Chlorobenzene	0.00500	0.00538	108	80.0-121	
Chlorodibromomethane	0.00500	0.00545	109	77.0-125	
Chloroethane	0.00500	0.00367	73.4	47.0-150	
Chloroform	0.00500	0.00416	83.2	73.0-120	
Chloromethane	0.00500	0.00715	143	41.0-142	J4
1,2-Dibromoethane	0.00500	0.00521	104	80.0-122	
1,1-Dichloroethane	0.00500	0.00455	91.0	70.0-126	
1,2-Dichloroethane	0.00500	0.00503	101	70.0-128	
1,1-Dichloroethene	0.00500	0.00400	80.0	71.0-124	
cis-1,2-Dichloroethene	0.00500	0.00396	79.2	73.0-120	
trans-1,2-Dichloroethene	0.00500	0.00401	80.2	73.0-120	
1,2-Dichloropropane	0.00500	0.00576	115	77.0-125	
cis-1,3-Dichloropropene	0.00500	0.00500	100	80.0-123	

Laboratory Control Sample (LCS)

(LCS) R3984160-1 10/07/23 22:06

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
trans-1,3-Dichloropropene	0.00500	0.00537	107	78.0-124	
Ethylbenzene	0.00500	0.00492	98.4	79.0-123	
Isopropylbenzene	0.00500	0.00467	93.4	76.0-127	
p-Isopropyltoluene	0.00500	0.00448	89.6	76.0-125	
2-Butanone (MEK)	0.0250	0.0323	129	44.0-160	
2-Hexanone	0.0250	0.0366	146	67.0-149	
Methylene Chloride	0.00500	0.00401	80.2	67.0-120	
4-Methyl-2-pentanone (MIBK)	0.0250	0.0298	119	68.0-142	
Methyl tert-butyl ether	0.00500	0.00359	71.8	68.0-125	
Naphthalene	0.00500	0.00393	78.6	54.0-135	
n-Propylbenzene	0.00500	0.00432	86.4	77.0-124	
Styrene	0.00500	0.00444	88.8	73.0-130	
tert-Butyl alcohol	0.0250	0.0248	99.2	27.0-160	
1,1,1,2-Tetrachloroethane	0.00500	0.00496	99.2	75.0-125	
1,1,2,2-Tetrachloroethane	0.00500	0.00463	92.6	65.0-130	
Tetrachloroethene	0.00500	0.00534	107	72.0-132	
Toluene	0.00500	0.00514	103	79.0-120	
1,1,1-Trichloroethane	0.00500	0.00402	80.4	73.0-124	
1,1,2-Trichloroethane	0.00500	0.00525	105	80.0-120	
Trichloroethene	0.00500	0.00506	101	78.0-124	
1,2,4-Trimethylbenzene	0.00500	0.00431	86.2	76.0-121	
1,3,5-Trimethylbenzene	0.00500	0.00433	86.6	76.0-122	
Vinyl chloride	0.00500	0.00443	88.6	67.0-131	
o-Xylene	0.00500	0.00451	90.2	80.0-122	
m&p-Xylene	0.0100	0.00994	99.4	80.0-122	
Xylenes, Total	0.0150	0.0144	96.0	79.0-123	
(S) Toluene-d8			*112*	*80.0-120*	
(S) 4-Bromofluorobenzene			*93.9*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*92.5*	*70.0-130*	

Received by OCD: 6/12/2024 3:31:05 PM

Method Blank (MB)

(MB) R3983715-3 10/08/23 12:32

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
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
2-Hexanone	U		0.000787	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
tert-Butyl alcohol	U		0.00406	0.00500
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

Released to Imaging: 6/28/2024 11:23:28 AM

Method Blank (MB)

(MB) R3983715-3 10/08/23 12:32

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,1,2-Trichloroethane	U		0.000158	0.00100
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
o-Xylene	U		0.000174	0.00100
m&p-Xylene	U		0.000430	0.00200
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	*116*			*80.0-120*
(S) 4-Bromofluorobenzene	*103*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*111*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3983715-1 10/08/23 11:27 • (LCSD) R3983715-2 10/08/23 11:49

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	0.0188	0.0220	75.2	88.0	19.0-160			15.7	27
Benzene	0.00500	0.00424	0.00439	84.8	87.8	70.0-123			3.48	20
Bromodichloromethane	0.00500	0.00422	0.00423	84.4	84.6	75.0-120			0.237	20
Bromoform	0.00500	0.00392	0.00419	78.4	83.8	68.0-132			6.66	20
Bromomethane	0.00500	0.00350	0.00395	70.0	79.0	10.0-160			12.1	25
n-Butylbenzene	0.00500	0.00461	0.00444	92.2	88.8	73.0-125			3.76	20
sec-Butylbenzene	0.00500	0.00489	0.00490	97.8	98.0	75.0-125			0.204	20
Carbon disulfide	0.00500	0.00373	0.00401	74.6	80.2	61.0-128			7.24	20
Carbon tetrachloride	0.00500	0.00425	0.00423	85.0	84.6	68.0-126			0.472	20
Chlorobenzene	0.00500	0.00492	0.00507	98.4	101	80.0-121			3.00	20
Chlorodibromomethane	0.00500	0.00465	0.00459	93.0	91.8	77.0-125			1.30	20
Chloroethane	0.00500	0.00500	0.00538	100	108	47.0-150			7.32	20
Chloroform	0.00500	0.00455	0.00469	91.0	93.8	73.0-120			3.03	20
Chloromethane	0.00500	0.00452	0.00459	90.4	91.8	41.0-142			1.54	20
1,2-Dibromoethane	0.00500	0.00462	0.00460	92.4	92.0	80.0-122			0.434	20
1,1-Dichloroethane	0.00500	0.00438	0.00447	87.6	89.4	70.0-126			2.03	20
1,2-Dichloroethane	0.00500	0.00488	0.00508	97.6	102	70.0-128			4.02	20
1,1-Dichloroethene	0.00500	0.00424	0.00389	84.8	77.8	71.0-124			8.61	20
cis-1,2-Dichloroethene	0.00500	0.00447	0.00456	89.4	91.2	73.0-120			1.99	20
trans-1,2-Dichloroethene	0.00500	0.00424	0.00439	84.8	87.8	73.0-120			3.48	20
1,2-Dichloropropane	0.00500	0.00410	0.00415	82.0	83.0	77.0-125			1.21	20
cis-1,3-Dichloropropene	0.00500	0.00369	0.00377	73.8	75.4	80.0-123	J4	J4	2.14	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3983715-1 10/08/23 11:27 • (LCSD) R3983715-2 10/08/23 11:49

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	0.00396	0.00393	79.2	78.6	78.0-124			0.760	20
Ethylbenzene	0.00500	0.00448	0.00491	89.6	98.2	79.0-123			9.16	20
Isopropylbenzene	0.00500	0.00471	0.00487	94.2	97.4	76.0-127			3.34	20
p-Isopropyltoluene	0.00500	0.00475	0.00493	95.0	98.6	76.0-125			3.72	20
2-Butanone (MEK)	0.0250	0.0222	0.0224	88.8	89.6	44.0-160			0.897	20
2-Hexanone	0.0250	0.0232	0.0254	92.8	102	67.0-149			9.05	20
Methylene Chloride	0.00500	0.00399	0.00413	79.8	82.6	67.0-120			3.45	20
4-Methyl-2-pentanone (MIBK)	0.0250	0.0217	0.0225	86.8	90.0	68.0-142			3.62	20
Methyl tert-butyl ether	0.00500	0.00424	0.00419	84.8	83.8	68.0-125			1.19	20
Naphthalene	0.00500	0.00444	0.00488	88.8	97.6	54.0-135			9.44	20
n-Propylbenzene	0.00500	0.00522	0.00516	104	103	77.0-124			1.16	20
Styrene	0.00500	0.00389	0.00408	77.8	81.6	73.0-130			4.77	20
tert-Butyl alcohol	0.0250	0.0260	0.0234	104	93.6	27.0-160			10.5	30
1,1,1,2-Tetrachloroethane	0.00500	0.00457	0.00473	91.4	94.6	75.0-125			3.44	20
1,1,2,2-Tetrachloroethane	0.00500	0.00527	0.00474	105	94.8	65.0-130			10.6	20
Tetrachloroethene	0.00500	0.00461	0.00459	92.2	91.8	72.0-132			0.435	20
Toluene	0.00500	0.00480	0.00511	96.0	102	79.0-120			6.26	20
1,1,1-Trichloroethane	0.00500	0.00438	0.00459	87.6	91.8	73.0-124			4.68	20
1,1,2-Trichloroethane	0.00500	0.00505	0.00495	101	99.0	80.0-120			2.00	20
Trichloroethene	0.00500	0.00399	0.00445	79.8	89.0	78.0-124			10.9	20
1,2,4-Trimethylbenzene	0.00500	0.00483	0.00499	96.6	99.8	76.0-121			3.26	20
1,3,5-Trimethylbenzene	0.00500	0.00511	0.00511	102	102	76.0-122			0.000	20
Vinyl chloride	0.00500	0.00423	0.00445	84.6	89.0	67.0-131			5.07	20
o-Xylene	0.00500	0.00457	0.00453	91.4	90.6	80.0-122			0.879	20
m&p-Xylene	0.0100	0.00902	0.0103	90.2	103	80.0-122			13.3	20
Xylenes, Total	0.0150	0.0136	0.0148	90.7	98.7	79.0-123			8.45	20
(S) Toluene-d8				*117*	*118*	*80.0-120*				
(S) 4-Bromofluorobenzene				*101*	*103*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*116*	*113*	*70.0-130*				

Method Blank (MB)

(MB) R3984150-2 10/09/23 10:28

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
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
2-Hexanone	U		0.000787	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
tert-Butyl alcohol	U		0.00406	0.00500
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

Method Blank (MB)

(MB) R3984150-2 10/09/23 10:28

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,1,2-Trichloroethane	U		0.000158	0.00100
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
o-Xylene	U		0.000174	0.00100
m&p-Xylene	U		0.000430	0.00200
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	*118*			*80.0-120*
(S) 4-Bromofluorobenzene	*103*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*116*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3984150-1 10/09/23 09:23 • (LCSD) R3984150-3 10/09/23 13:14

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	0.0223	0.0222	89.2	88.8	19.0-160			0.449	27
Benzene	0.00500	0.00479	0.00470	95.8	94.0	70.0-123			1.90	20
Bromodichloromethane	0.00500	0.00435	0.00430	87.0	86.0	75.0-120			1.16	20
Bromoform	0.00500	0.00402	0.00383	80.4	76.6	68.0-132			4.84	20
Bromomethane	0.00500	0.00378	0.00451	75.6	90.2	10.0-160			17.6	25
n-Butylbenzene	0.00500	0.00480	0.00495	96.0	99.0	73.0-125			3.08	20
sec-Butylbenzene	0.00500	0.00516	0.00508	103	102	75.0-125			1.56	20
Carbon disulfide	0.00500	0.00413	0.00455	82.6	91.0	61.0-128			9.68	20
Carbon tetrachloride	0.00500	0.00456	0.00452	91.2	90.4	68.0-126			0.881	20
Chlorobenzene	0.00500	0.00522	0.00486	104	97.2	80.0-121			7.14	20
Chlorodibromomethane	0.00500	0.00465	0.00480	93.0	96.0	77.0-125			3.17	20
Chloroethane	0.00500	0.00551	0.00587	110	117	47.0-150			6.33	20
Chloroform	0.00500	0.00485	0.00463	97.0	92.6	73.0-120			4.64	20
Chloromethane	0.00500	0.00437	0.00437	87.4	87.4	41.0-142			0.000	20
1,2-Dibromoethane	0.00500	0.00441	0.00428	88.2	85.6	80.0-122			2.99	20
1,1-Dichloroethane	0.00500	0.00473	0.00480	94.6	96.0	70.0-126			1.47	20
1,2-Dichloroethane	0.00500	0.00527	0.00496	105	99.2	70.0-128			6.06	20
1,1-Dichloroethene	0.00500	0.00447	0.00437	89.4	87.4	71.0-124			2.26	20
cis-1,2-Dichloroethene	0.00500	0.00499	0.00477	99.8	95.4	73.0-120			4.51	20
trans-1,2-Dichloroethene	0.00500	0.00470	0.00487	94.0	97.4	73.0-120			3.55	20
1,2-Dichloropropane	0.00500	0.00457	0.00431	91.4	86.2	77.0-125			5.86	20
cis-1,3-Dichloropropene	0.00500	0.00402	0.00388	80.4	77.6	80.0-123		J4	3.54	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3984150-1 10/09/23 09:23 • (LCSD) R3984150-3 10/09/23 13:14

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	0.00411	0.00401	82.2	80.2	78.0-124			2.46	20
Ethylbenzene	0.00500	0.00490	0.00471	98.0	94.2	79.0-123			3.95	20
Isopropylbenzene	0.00500	0.00510	0.00456	102	91.2	76.0-127			11.2	20
p-Isopropyltoluene	0.00500	0.00508	0.00507	102	101	76.0-125			0.197	20
2-Butanone (MEK)	0.0250	0.0248	0.0238	99.2	95.2	44.0-160			4.12	20
2-Hexanone	0.0250	0.0258	0.0236	103	94.4	67.0-149			8.91	20
Methylene Chloride	0.00500	0.00429	0.00452	85.8	90.4	67.0-120			5.22	20
4-Methyl-2-pentanone (MIBK)	0.0250	0.0228	0.0217	91.2	86.8	68.0-142			4.94	20
Methyl tert-butyl ether	0.00500	0.00442	0.00441	88.4	88.2	68.0-125			0.227	20
Naphthalene	0.00500	0.00478	0.00451	95.6	90.2	54.0-135			5.81	20
n-Propylbenzene	0.00500	0.00546	0.00524	109	105	77.0-124			4.11	20
Styrene	0.00500	0.00418	0.00394	83.6	78.8	73.0-130			5.91	20
tert-Butyl alcohol	0.0250	0.0249	0.0206	99.6	82.4	27.0-160			18.9	30
1,1,1,2-Tetrachloroethane	0.00500	0.00491	0.00472	98.2	94.4	75.0-125			3.95	20
1,1,2,2-Tetrachloroethane	0.00500	0.00527	0.00516	105	103	65.0-130			2.11	20
Tetrachloroethene	0.00500	0.00507	0.00480	101	96.0	72.0-132			5.47	20
Toluene	0.00500	0.00525	0.00507	105	101	79.0-120			3.49	20
1,1,1-Trichloroethane	0.00500	0.00488	0.00479	97.6	95.8	73.0-124			1.86	20
1,1,2-Trichloroethane	0.00500	0.00519	0.00500	104	100	80.0-120			3.73	20
Trichloroethene	0.00500	0.00462	0.00430	92.4	86.0	78.0-124			7.17	20
1,2,4-Trimethylbenzene	0.00500	0.00526	0.00500	105	100	76.0-121			5.07	20
1,3,5-Trimethylbenzene	0.00500	0.00525	0.00505	105	101	76.0-122			3.88	20
Vinyl chloride	0.00500	0.00478	0.00490	95.6	98.0	67.0-131			2.48	20
o-Xylene	0.00500	0.00482	0.00468	96.4	93.6	80.0-122			2.95	20
m&p-Xylene	0.0100	0.00981	0.00976	98.1	97.6	80.0-122			0.511	20
Xylenes, Total	0.0150	0.0146	0.0144	97.3	96.0	79.0-123			1.38	20
(S) Toluene-d8				*116*	*114*	*80.0-120*				
(S) 4-Bromofluorobenzene				*101*	*99.1*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*117*	*114*	*70.0-130*				

Received by OCD: 6/12/2024 3:31:05 PM

Method Blank (MB)

(MB) R3984892-3 10/10/23 23:04

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.0000941	0.00100
Ethylbenzene	U		0.000137	0.00100
Toluene	U		0.000278	0.00100
o-Xylene	U		0.000174	0.00100
m&p-Xylene	U		0.000430	0.00200
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	*108*			*80.0-120*
(S) 4-Bromofluorobenzene	*94.4*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*95.6*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3984892-1 10/10/23 21:42

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.00500	0.00532	106	70.0-123	
Ethylbenzene	0.00500	0.00610	122	79.0-123	
Toluene	0.00500	0.00558	112	79.0-120	
o-Xylene	0.00500	0.00577	115	80.0-122	
m&p-Xylene	0.0100	0.0121	121	80.0-122	
Xylenes, Total	0.0150	0.0179	119	79.0-123	
(S) Toluene-d8			*105*	*80.0-120*	
(S) 4-Bromofluorobenzene			*93.1*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*93.9*	*70.0-130*	

Released to Imaging: 6/28/2024 11:23:28 AM

Method Blank (MB)

(MB) R3985306-4 10/11/23 10:02

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
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
2-Hexanone	U		0.000787	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
tert-Butyl alcohol	U		0.00406	0.00500
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

Method Blank (MB)

(MB) R3985306-4 10/11/23 10:02

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,1,2-Trichloroethane	U		0.000158	0.00100
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
o-Xylene	U		0.000174	0.00100
m&p-Xylene	U		0.000430	0.00200
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	*107*			*80.0-120*
(S) 4-Bromofluorobenzene	*98.7*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*113*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3985306-1 10/11/23 08:41 • (LCSD) R3985306-2 10/11/23 09:01

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	0.0270	0.0261	108	104	19.0-160			3.39	27
Benzene	0.00500	0.00523	0.00527	105	105	70.0-123			0.762	20
Bromodichloromethane	0.00500	0.00538	0.00511	108	102	75.0-120			5.15	20
Bromoform	0.00500	0.00500	0.00482	100	96.4	68.0-132			3.67	20
Bromomethane	0.00500	0.00402	0.00456	80.4	91.2	10.0-160			12.6	25
n-Butylbenzene	0.00500	0.00512	0.00475	102	95.0	73.0-125			7.50	20
sec-Butylbenzene	0.00500	0.00527	0.00520	105	104	75.0-125			1.34	20
Carbon disulfide	0.00500	0.00510	0.00511	102	102	61.0-128			0.196	20
Carbon tetrachloride	0.00500	0.00547	0.00539	109	108	68.0-126			1.47	20
Chlorobenzene	0.00500	0.00519	0.00512	104	102	80.0-121			1.36	20
Chlorodibromomethane	0.00500	0.00541	0.00519	108	104	77.0-125			4.15	20
Chloroethane	0.00500	0.00487	0.00580	97.4	116	47.0-150			17.4	20
Chloroform	0.00500	0.00530	0.00516	106	103	73.0-120			2.68	20
Chloromethane	0.00500	0.00579	0.00577	116	115	41.0-142			0.346	20
1,2-Dibromoethane	0.00500	0.00518	0.00502	104	100	80.0-122			3.14	20
1,1-Dichloroethane	0.00500	0.00547	0.00539	109	108	70.0-126			1.47	20
1,2-Dichloroethane	0.00500	0.00534	0.00536	107	107	70.0-128			0.374	20
1,1-Dichloroethene	0.00500	0.00547	0.00534	109	107	71.0-124			2.41	20
cis-1,2-Dichloroethene	0.00500	0.00507	0.00543	101	109	73.0-120			6.86	20
trans-1,2-Dichloroethene	0.00500	0.00523	0.00498	105	99.6	73.0-120			4.90	20
1,2-Dichloropropane	0.00500	0.00490	0.00514	98.0	103	77.0-125			4.78	20
cis-1,3-Dichloropropene	0.00500	0.00499	0.00494	99.8	98.8	80.0-123			1.01	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3985306-1 10/11/23 08:41 • (LCSD) R3985306-2 10/11/23 09:01

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	0.00492	0.00473	98.4	94.6	78.0-124			3.94	20
Ethylbenzene	0.00500	0.00518	0.00485	104	97.0	79.0-123			6.58	20
Isopropylbenzene	0.00500	0.00537	0.00515	107	103	76.0-127			4.18	20
p-Isopropyltoluene	0.00500	0.00527	0.00529	105	106	76.0-125			0.379	20
2-Butanone (MEK)	0.0250	0.0236	0.0227	94.4	90.8	44.0-160			3.89	20
2-Hexanone	0.0250	0.0225	0.0227	90.0	90.8	67.0-149			0.885	20
Methylene Chloride	0.00500	0.00517	0.00532	103	106	67.0-120			2.86	20
4-Methyl-2-pentanone (MIBK)	0.0250	0.0259	0.0256	104	102	68.0-142			1.17	20
Methyl tert-butyl ether	0.00500	0.00508	0.00498	102	99.6	68.0-125			1.99	20
Naphthalene	0.00500	0.00261	0.00272	52.2	54.4	54.0-135	J4		4.13	20
n-Propylbenzene	0.00500	0.00512	0.00506	102	101	77.0-124			1.18	20
Styrene	0.00500	0.00475	0.00501	95.0	100	73.0-130			5.33	20
tert-Butyl alcohol	0.0250	0.0286	0.0312	114	125	27.0-160			8.70	30
1,1,1,2-Tetrachloroethane	0.00500	0.00525	0.00505	105	101	75.0-125			3.88	20
1,1,2,2-Tetrachloroethane	0.00500	0.00485	0.00527	97.0	105	65.0-130			8.30	20
Tetrachloroethene	0.00500	0.00540	0.00534	108	107	72.0-132			1.12	20
Toluene	0.00500	0.00537	0.00517	107	103	79.0-120			3.80	20
1,1,1-Trichloroethane	0.00500	0.00543	0.00562	109	112	73.0-124			3.44	20
1,1,2-Trichloroethane	0.00500	0.00524	0.00532	105	106	80.0-120			1.52	20
Trichloroethene	0.00500	0.00503	0.00526	101	105	78.0-124			4.47	20
1,2,4-Trimethylbenzene	0.00500	0.00520	0.00497	104	99.4	76.0-121			4.52	20
1,3,5-Trimethylbenzene	0.00500	0.00509	0.00487	102	97.4	76.0-122			4.42	20
Vinyl chloride	0.00500	0.00551	0.00554	110	111	67.0-131			0.543	20
o-Xylene	0.00500	0.00495	0.00498	99.0	99.6	80.0-122			0.604	20
m&p-Xylene	0.0100	0.0102	0.00995	102	99.5	80.0-122			2.48	20
Xylenes, Total	0.0150	0.0152	0.0149	101	99.3	79.0-123			1.99	20
(S) Toluene-d8				*110*	*108*	*80.0-120*				
(S) 4-Bromofluorobenzene				*106*	*101*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*112*	*113*	*70.0-130*				

Method Blank (MB)

(MB) R3985397-2 10/11/23 17:46

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.0000941	0.00100
(S) Toluene-d8	*104*			*80.0-120*
(S) 4-Bromofluorobenzene	*98.8*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*96.8*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3985397-1 10/11/23 17:02

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.00500	0.00494	98.8	70.0-123	
(S) Toluene-d8			*103*	*80.0-120*	
(S) 4-Bromofluorobenzene			*89.1*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*101*	*70.0-130*	

Method Blank (MB)

(MB) R3985253-1 10/12/23 00:58

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Ethylene Dibromide	U		0.00000536	0.0000200

L1663126-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1663126-11 10/12/23 01:52 • (DUP) R3985253-3 10/12/23 01:38

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) R3985253-4 10/12/23 03:54 • (LCSD) R3985253-5 10/12/23 06:25

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	0.000253	102	101	60.0-140			0.787	20

L1663141-22 Original Sample (OS) • Matrix Spike (MS)

(OS) L1663141-22 10/12/23 01:25 • (MS) R3985253-2 10/12/23 01:11

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	0.000123	123	1	64.0-159	

Method Blank (MB)

(MB) R3985361-1 10/12/23 10:35

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	*118*			*31.0-160*

Laboratory Control Sample (LCS)

(LCS) R3985361-2 10/12/23 10:55

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) High Fraction	1.50	1.17	78.0	50.0-150	
(S) o-Terphenyl			*88.5*	*31.0-160*	

L1663122-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1663122-12 10/13/23 01:53 • (MS) R3985361-4 10/13/23 02:33 • (MSD) R3985361-3 10/13/23 02:13

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 %
TPH (GC/FID) High Fraction	1.50	10.0	10.8	15.5	53.3	367	1	50.0-150	E	E J3 V	35.7	20
(S) o-Terphenyl					*141*	*134*		*31.0-160*				

Method Blank (MB)

(MB) R3986184-1 10/14/23 00:17

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	*121*			*31.0-160*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3986184-2 10/14/23 00:37 • (LCSD) R3986184-3 10/14/23 00:57

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	1.44	1.51	96.0	101	50.0-150			4.75	20
(S) o-Terphenyl				*127*	*134*	*31.0-160*				

Method Blank (MB)

(MB) R3986189-3 10/14/23 03:04

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	*52.0*			*31.0-160*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3986189-1 10/13/23 14:17 • (LCSD) R3986189-2 10/13/23 14:42

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	0.966	1.12	64.4	74.7	50.0-150			14.8	20
(S) o-Terphenyl				*58.0*	*55.5*	*31.0-160*				

Method Blank (MB)

(MB) R3986011-1 10/13/23 05:16

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	*63.0*			*31.0-160*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3986011-2 10/13/23 05:37 • (LCSD) R3986011-3 10/13/23 05:57

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	1.00	1.02	66.7	68.0	50.0-150			1.98	20
(S) o-Terphenyl				*108*	*119*	*31.0-160*				

Method Blank (MB)

(MB) R3986642-1 10/14/23 22:23

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	*99.0*			*31.0-160*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3986642-2 10/14/23 22:43 • (LCSD) R3986642-3 10/14/23 23:03

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 %
TPH (GC/FID) High Fraction	1.50	1.44	1.48	96.0	98.7	50.0-150			2.74	20
(S) o-Terphenyl				*71.5*	*73.5*	*31.0-160*				

Received by OCD: 6/12/2024 3:31:05 PM

Method Blank (MB)

(MB) R3992546-1 10/29/23 18:22

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	*59.5*			*31.0-160*

Laboratory Control Sample (LCS)

(LCS) R3992546-2 10/29/23 18:41

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) High Fraction	1.50	1.43	95.3	50.0-150	
(S) o-Terphenyl			*59.5*	*31.0-160*	

L1669149-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1669149-03 10/30/23 22:02 • (MS) R3993231-1 10/30/23 22:21 • (MSD) R3993231-2 10/30/23 22:41

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 %
TPH (GC/FID) High Fraction	1.43	U	1.82	1.82	127	127	1	50.0-150			0.000	20
(S) o-Terphenyl					*57.9*	*53.7*		*31.0-160*				

Sample Narrative:

OS: Sample does not resemble laboratory standards.

Released to Imaging: 6/28/2024 11:23:28 AM

Method Blank (MB)

(MB) R3982925-3 10/06/23 13:03

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	*58.1*			*10.0-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3982925-1 10/06/23 12:24 • (LCSD) R3982925-2 10/06/23 12:44

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	0.0724	0.0706	145	141	73.0-146			2.52	20
(S) Nitrobenzene-d5				*55.7*	*53.0*	*10.0-120*				

Received by OCD: 6/12/2024 3:31:05 PM

Method Blank (MB)

(MB) R3988553-3 10/19/23 12:53

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,4-Dioxane	0.000160	J	0.0000447	0.000400
(S) Nitrobenzene-d5	*29.3*			*10.0-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3988553-1 10/19/23 12:15 • (LCSD) R3988553-2 10/19/23 12:34

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	0.0458	0.0463	91.6	92.6	73.0-146			1.09	20
(S) Nitrobenzene-d5				*79.3*	*81.5*	*10.0-120*				

Released to Imaging: 6/28/2024 11:23:28 AM

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.
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.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
Q	Sample was prepared and/or analyzed past holding time as defined in the method. Concentrations should be considered minimum values.

Qualifier	Description
T8	Sample(s) received past/too close to holding time expiration.
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.

J038

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 2023
City/State Collected: Artesia, NM
Phone: 512-684-3170
Client Project #
Lab Project #: TRCATX-ARTESIA
Collected By (print): Scott Ude/HUB Team
Site/Facility ID #: (Navajo - Artesia)
P.O. #
Collected By (signature):
Immediately Packed on Ice N ___ Y ✓
Rush? (Lab MUST Be Notified)
Quote #
Date Results Needed
No. of Cntrs

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260 60/XY - 40ml Amb HCl	DROLVI - 40ml Amb-HCl-BT	GRO - 40ml Amb HCl	Total Short List Metals 250ml HDPE-HNO3 <2	TDS - 500ml HDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125ml HDPE-NoPres	Total Long List Metals 250ml HDPE-HNO3 <2	Cyanide - 250ml HDPE Amb-NaOH >12	EDB - 40ml Clr-NaThio	8270 DIOXANE - 100ml Amb-NoPres
MW-85 ✓	Grab	GW				10	x	x	x	x	x	x				
MW-86 ✓	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				7		x	x	x	x	x				
MW-84 ✓	Grab	GW				7		x	x	x	x	x				
MW-122 ✓	Grab	GW				7		x	x	x	x	x				
MW-79 ✓	Grab	GW				7		x	x	x	x	x				
MW-74 ✓	Grab	GW				7		x	x	x	x	x				
MW-2A ✓	Grab	GW				7		x	x	x	x	x				
OCD-6 ✓	Grab	GW				7		x	x	x	x	x				

* 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.

pH ____ Temp ____
Flow ____ Other ____

Samples returned via:
__ UPS ✓ FedEx __ Courier

Tracking # SHIPMENT 2

Relinquished by: (Signature) Date: 10/4/23 Time: 1800
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
2

Temp: °C Bottles Received: 392
Date: 10/5/23 Time: 0900

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

If preservation required by Login: Date/Time

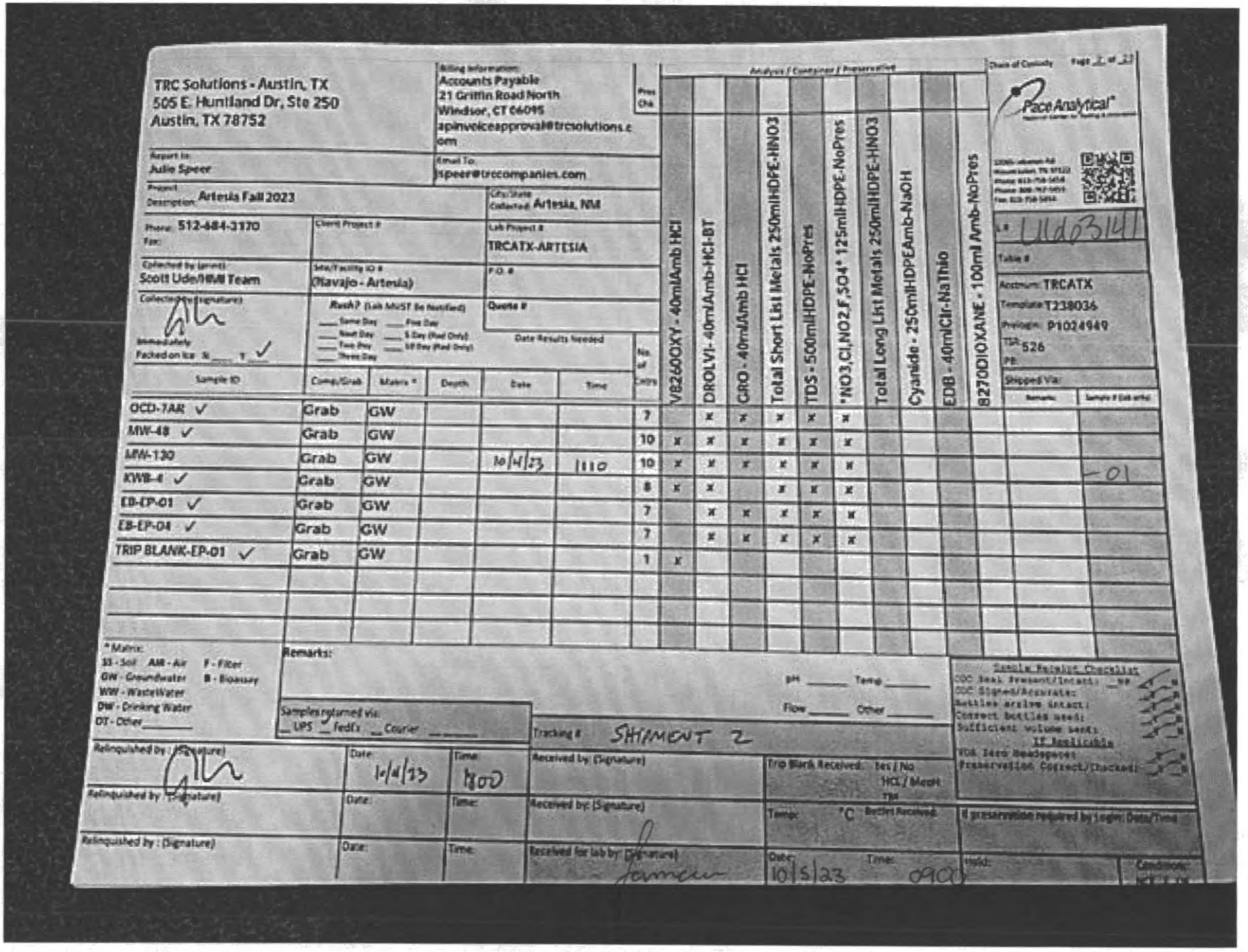
Hold:

Pace Analytical

Chain of Custody Page 1 of 2

LAB # 41de3141
Table #
Acctnum: TRCATX
Template: T238036
Prelogin: P1024949
TSR: 526
PB:
Shipped Via:

Remarks	Sample # (lab only)



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 2023
City/State Collected: Artesia, NM

Phone: 512-484-3170
Client Project #
Lab Project #: TRCATX-ARTESIA

Collected by (print): Scott Ude/NMI Team
Site/Facility ID #: (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 1 of 2

Pace Analytical

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260OXY - 40mlAmb HCl	DROLVI - 40mlAmb-HCl-BT	CRO - 40mlAmb HCl	Total Short List Metals 250mlHDPE-HNO3	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-Na2S2O3	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
OCD-TAR ✓	Grab	GW				7		x	x	x	x	x						
MW-48 ✓	Grab	GW				10	x	x	x	x	x	x						
MW-130	Grab	GW		10/4/23	1110	10	x	x	x	x	x	x						-01
KWB-4 ✓	Grab	GW				8	x	x		x	x	x						
EB-EP-01 ✓	Grab	GW				7		x	x	x	x	x						
EB-EP-04 ✓	Grab	GW				7		x	x	x	x	x						
TRIP BLANK-EP-01 ✓	Grab	GW				1	x											

Lab # L1103141
Table #
Acctnum: TRCATX
Template: T238036
Prelogin: P1024949
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 # SHIPMENT 2

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

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	10/4/23	1400	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)

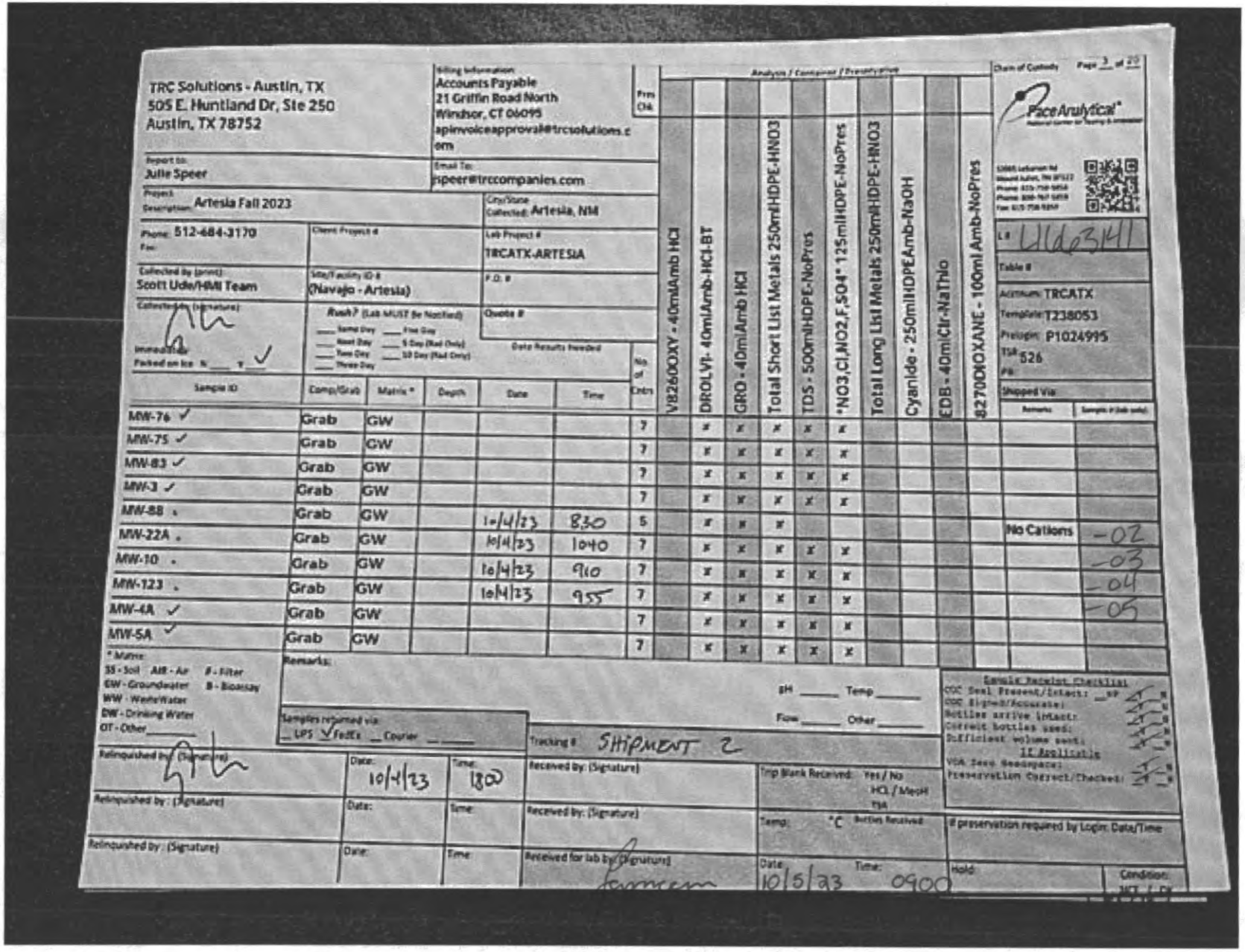
Trip Blank Received: Yes / No HCL / MeoH TBR

Temp: °C Bottles Received:

Date: 10/5/23 Time: 0900

If preservation required by Login: Date/Time

Hold: Condition:



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 2023
City/State Collected: Artesia, NM

Phone: 512-484-3170
Client Project #
Lab Project #: TRCATX-ARTESIA

Collected by (print): Scott Ude/HMI Team
Site/Facility ID #: (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 3 of 29

Pace Analytical

Lab # 410631411
Table #
Acctnum: TRCATX
Template: T238053
Prelogin: P1024995
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	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270OIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
MW-76 ✓	Grab	GW				7		x	x	x	x	x						
MW-75 ✓	Grab	GW				7		x	x	x	x	x						
MW-83 ✓	Grab	GW				7		x	x	x	x	x						
MW-3 ✓	Grab	GW				7		x	x	x	x	x						
MW-88	Grab	GW		10/4/23	830	5		x	x	x							No Cations	-02
MW-22A	Grab	GW		10/4/23	1040	7		x	x	x	x	x						-03
MW-10	Grab	GW		10/4/23	910	7		x	x	x	x	x						-04
MW-123	Grab	GW		10/4/23	955	7		x	x	x	x	x						-05
MW-4A ✓	Grab	GW				7		x	x	x	x	x						
MW-5A ✓	Grab	GW				7		x	x	x	x	x						

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

Remarks:

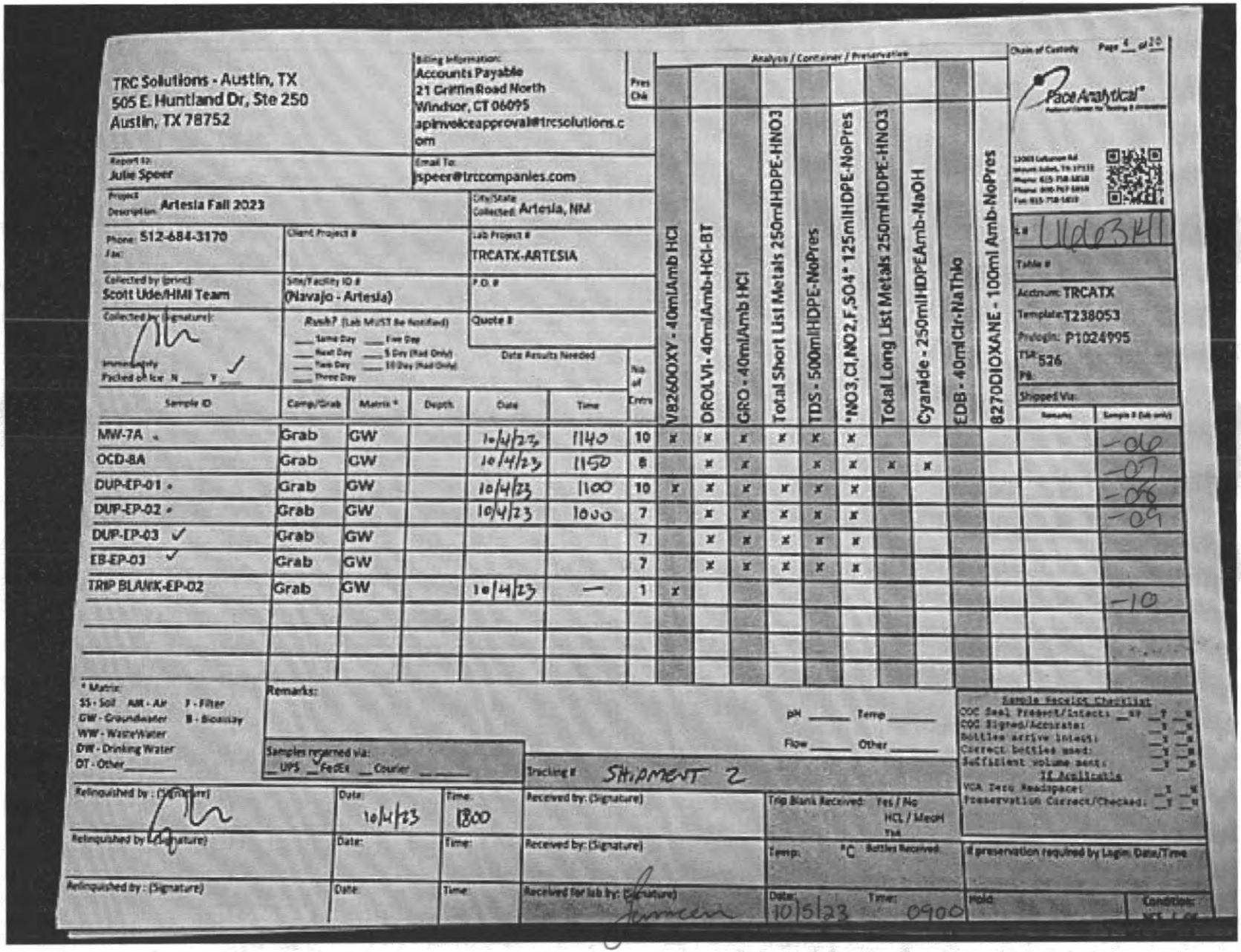
pH ____ Temp ____
Flow ____ Other ____

Samples returned via: ___ UPS ✓ FedEx ___ Courier ___
Tracking # SHIPMENT 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

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCl / MeoH TSA
	10/4/23	1800		
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10/5/23 Time: 0900

If preservation required by Login: Date/Time
Hold:
Condition:



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 2023
City/State Collected: Artesia, NM

Phone: 512-684-3170
Fax:
Client Project #
Lab Project #: TRCATX-ARTESIA

Collected by (print): Scott Ude/HMI Team
Site/Facility ID #: (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 / Preservation

Chain of Custody Page 1 of 10

Pace Analytical

Lab # 11d03411
Table #
Acctnum: TRCATX
Template: T238053
Prelogin: P1024995
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	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
MW-7A	Grab	GW		10/4/23	1140	10	x	x	x	x	x	x						-06
OCD-8A	Grab	GW		10/4/23	1150	8		x	x		x	x	x	x				-07
DUP-EP-01	Grab	GW		10/4/23	1100	10	x	x	x	x	x	x						-08
DUP-EP-02	Grab	GW		10/4/23	1000	7		x	x	x	x	x						-09
DUP-EP-03 ✓	Grab	GW				7		x	x	x	x	x						
EB-EP-03 ✓	Grab	GW				7		x	x	x	x	x						
TRIP BLANK-EP-02	Grab	GW		10/4/23	—	1	x											-10

* 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 # SHIPMENT 2

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)
	10/4/23	1800	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)

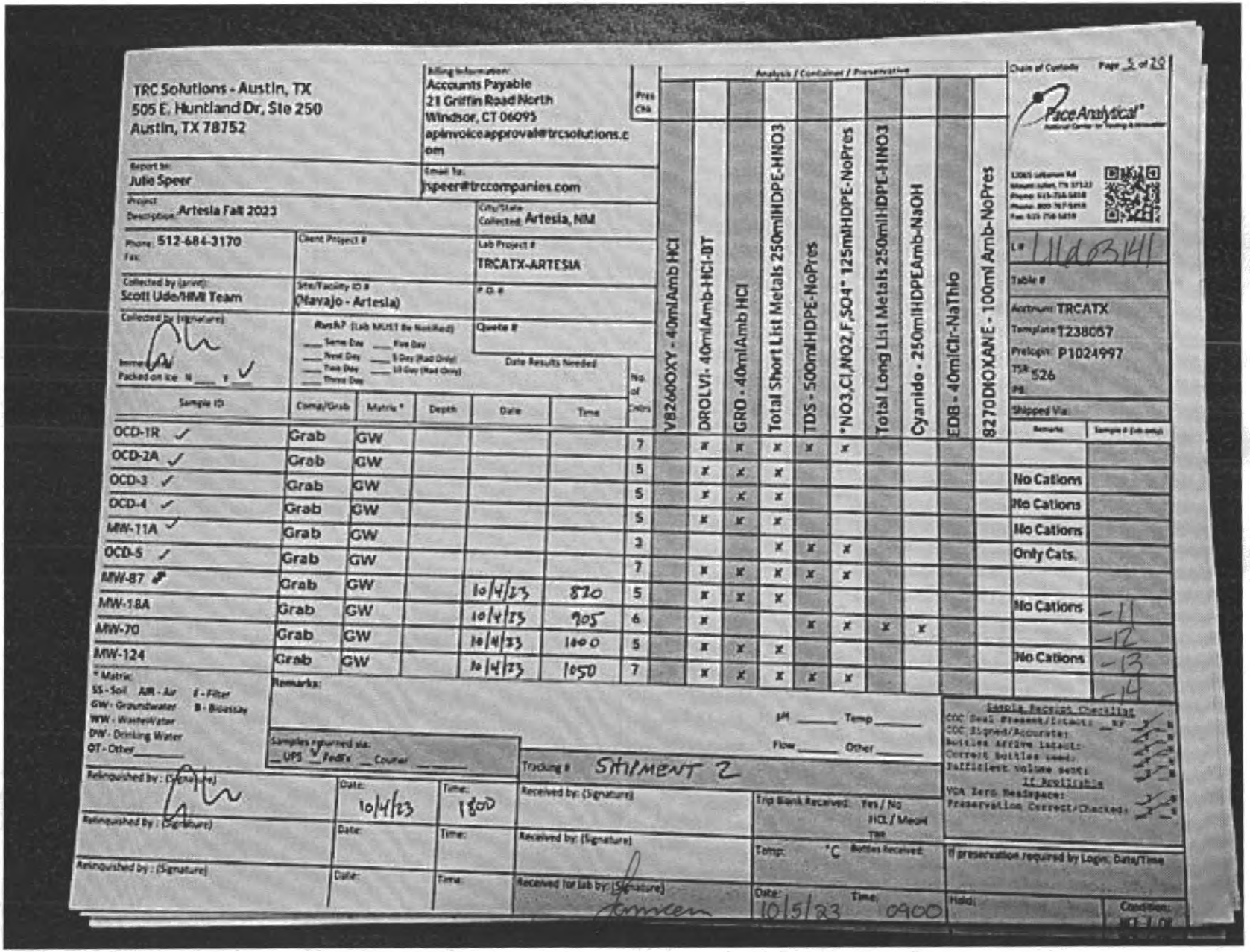
Trip Blank Received: Yes / No
HCL / MeoH
TSR

Temp: °C Bottles Received:

Date: 10/5/23 Time: 0900

If preservation required by Login: Date/Time

Hold: Condition:



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 2023
City/State Collected: Artesia, NM
Phone: 512-684-3170
Client Project #
Lab Project #: TRCATX-ARTESIA
Collected by (print): Scott Ude/HMI Team
Site/Facility ID #: (Navajo - Artesia)
P.O. #
Collected by (signature):
Immediately Packed on Ice N ___ Y ✓
Rush? (Lab MUST Be Notified) ___ Same Day ___ Next Day ___ Two Day ___ Three Day ___ Five Day ___ 5 Day (Rad Only) ___ 10 Day (Rad Only)
Quote #
Date Results Needed
No. of Cntrs

Analysis / Container / Preservative

Chain of Custody Page 3 of 29

PaceAnalytical

Lab # L1160314

Table #
Acctnum: TRCATX
Template: T238057
Prelogin: P1024997
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	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
OCD-1R ✓	Grab	GW				7		x	x	x	x	x						
OCD-2A ✓	Grab	GW				5		x	x	x							No Cations	
OCD-3 ✓	Grab	GW				5		x	x	x							No Cations	
OCD-4 ✓	Grab	GW				5		x	x	x							No Cations	
MW-11A ✓	Grab	GW				3				x	x	x					Only Cats.	
OCD-5 ✓	Grab	GW				7		x	x	x	x	x						
MW-87	Grab	GW		10/4/23	820	5		x	x	x							No Cations	-11
MW-18A	Grab	GW		10/4/23	905	6		x			x	x	x	x				-12
MW-70	Grab	GW		10/4/23	1000	5		x	x	x							No Cations	-13
MW-124	Grab	GW		10/4/23	1050	7		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:

pH ____ Temp ____ Flow ____ Other ____

Samples returned via: ___UPS ___FedEx ___Courier ____

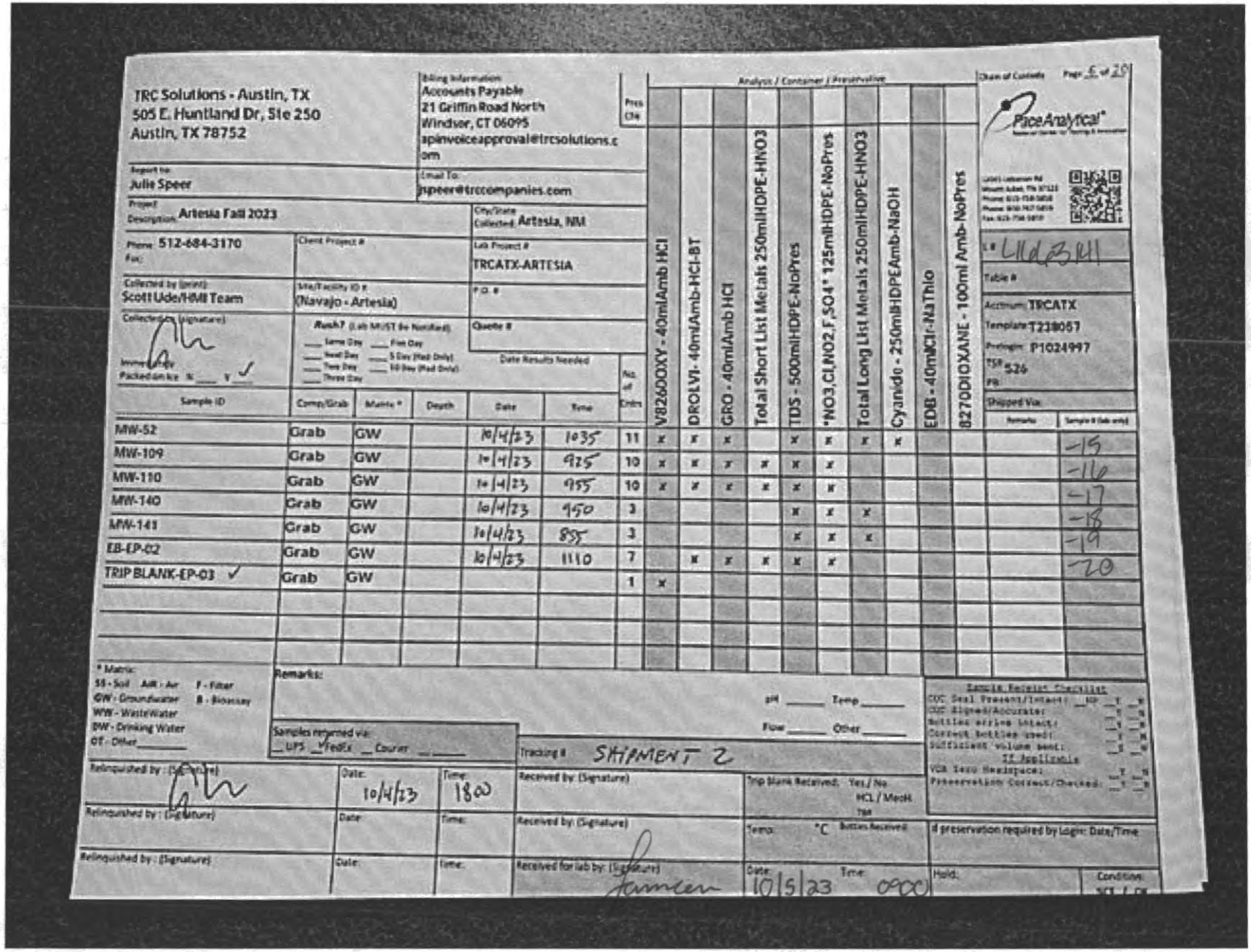
Tracking # SHIPMENT 2

Sample Receipt Checklist
COC Seal Present/Intact: ___NP
COC Signed/Accurate:
Bottles Arrive Intact:
Correct Bottles used:
Sufficient volume sent:
If Applicable
VOA Zero Headspace:
Preservation Correct/Checked:

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
	10/4/23	1800		
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10/5/23 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: Artesia Fall 2023
City/State Collected: Artesia, NM
Phone: 512-684-3170
Client Project #
Lab Project #: TRCATX-ARTESIA
Collected by (print): Scott Ude/HMI Team
Site/Facility ID #: (Navajo - Artesia)
P.O. #
Collected by (signature)
Rush? (Lab MUST Be Notified)
Quote #
Date Results Needed
Packed on Ice: N ___ Y ✓

Chain of Custody Page 5 of 29
Pace Analytical

Lab # L1162341
Table #
Acctnum: TRCATX
Template: T238057
Prelogin: P1024997
TSP: 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	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlAmb-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
MW-52	Grab	GW		10/4/23	1035	11	x	x	x		x	x	x	x				-15
MW-109	Grab	GW		10/4/23	925	10	x	x	x	x	x	x						-16
MW-110	Grab	GW		10/4/23	955	10	x	x	x	x	x	x						-17
MW-140	Grab	GW		10/4/23	950	3					x	x	x					-18
MW-141	Grab	GW		10/4/23	855	3					x	x	x					-19
EB-EP-02	Grab	GW		10/4/23	1110	7		x	x	x	x	x						-20
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

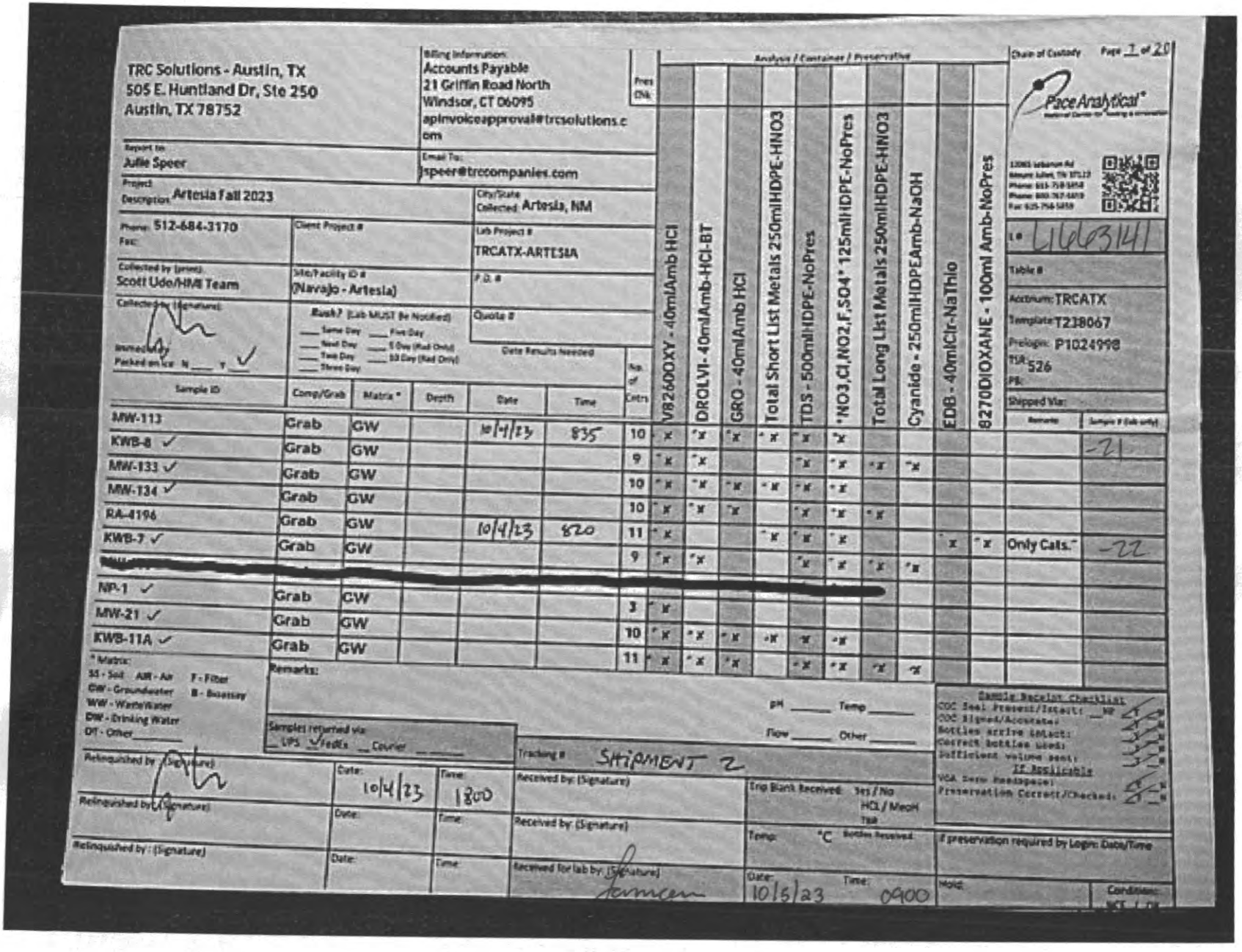
Remarks:
pH ____ Temp ____
Flow ____ Other ____

Samples returned via: __UPS __FedEx __Courier ____
Tracking # SHIPMENT 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

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCl / MeoH TBR
	10/4/23	1800		
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10/5/23 Time: 0900

If preservation required by Login: Date/Time
Hold: Condition:



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

Billing Information:
Accounts Payable
21 Griffin Road North
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apinvoiceapproval@trcsolutions.com

Report to: Julie Speer
Email To: jspeer@trcompanies.com
Project Description: Artesia Fall 2023
City/State Collected: Artesia, NM
Phone: 512-684-3170
Client Project #
Lab Project #: TRCATX-ARTESIA
Collected by (print): Scott Udo/HMI Team
Site/Facility ID #: (Navajo - Artesia)
P.O. #
Collected by (signature):
Rush? (Lab MUST Be Notified): Same Day, Next Day, Two Day, Three Day, Five Day, 5 Day (Rad Only), 10 Day (Rad Only)
Quote #
Date Results Needed
Immediately Packed on Ice: N ___ Y ✓

Analysis / Container / Preservative

Chain of Custody Page 1 of 2

Pace Analytical

Lab # L1663141
Table #
Acctnum: TRCATX
Template: T218067
Prelogin: P1024998
TSR: 526
PB:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260DOXY - 40mlAmb HCl	DROLVI - 40mlAmb-HCl-BT	GRO - 40mlAmb HCl	Total Short List Metals 250mlHDPE-HNO3	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
MW-113	Grab	GW		10/4/23	835	10	X	X	X	X	X	X						
KWB-8 ✓	Grab	GW				9	X	X			X	X	X	X				-21
MW-133 ✓	Grab	GW				10	X	X	X	X	X	X						
MW-134 ✓	Grab	GW				10	X	X	X		X	X	X					
RA-4196	Grab	GW		10/4/23	820	11	X			X	X	X			X	X	Only Cats.	-22
KWB-7 ✓	Grab	GW				9	X	X			X	X	X	X				
[redacted]																		
NP-1 ✓	Grab	GW				3	X											
MW-21 ✓	Grab	GW				10	X	X	X	X	X	X						
KWB-11A ✓	Grab	GW				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

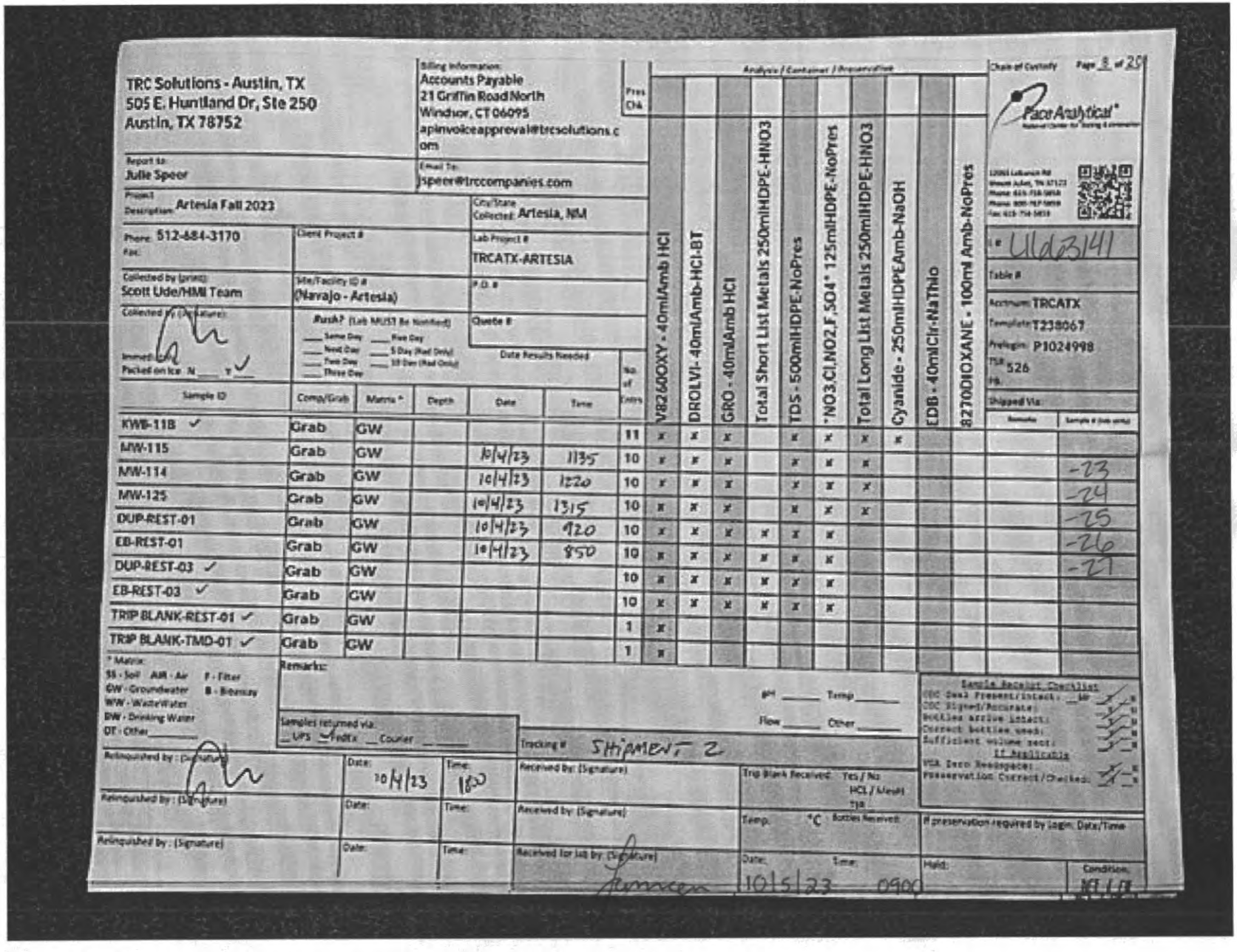
Remarks:
pH ____ Temp ____
Flow ____ Other ____

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

Samples returned via: ___ UPS ✓ FedEx ___ Courier ___
Tracking # SHIPMENT 2

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TSR
	10/4/23	1800		
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10/5/23 Time: 0900

If preservation required by Login: Date/Time
Hold: Condition:



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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Report to: Julie Speer
Email To: jspeer@trccompanies.com
Project Description: Artesia Fall 2023
City/State Collected: Artesia, NM
Phone: 512-484-3170
Client Project #
Lab Project #: TRCATX-ARTESIA
Collected by (print): Scott Ude/HMI Team
Site/Facility ID #: (Navajo - Artesia)
P.O. #
Collected by (Signature):
Rush? (Lab MUST Be Notified): Same Day, Next Day, Two Day, Three Day, Five Day, 5 Day (Rad Only), 10 Day (Rad Only)
Quote #
Immediately Packed on Ice: N ___ Y ✓
Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page 3 of 29

Pace Analytical

Lab # ULd3141
Table #
Acctnum: TRCATX
Template: T238067
Prelogin: P1024998
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	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4 * 125mlHDPE-NoPres	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlCl-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
KWB-11B ✓	Grab	GW				11	x	x	x		x	x	x	x				
MW-115	Grab	GW		10/4/23	1135	10	x	x	x		x	x	x					-23
MW-114	Grab	GW		10/4/23	1220	10	x	x	x		x	x	x					-24
MW-125	Grab	GW		10/4/23	1315	10	x	x	x		x	x	x					-25
DUP-REST-01	Grab	GW		10/4/23	920	10	x	x	x	x	x	x						-26
EB-REST-01	Grab	GW		10/4/23	850	10	x	x	x	x	x	x						-27
DUP-REST-03 ✓	Grab	GW				10	x	x	x	x	x	x						
EB-REST-03 ✓	Grab	GW				10	x	x	x	x	x	x						
TRIP BLANK-REST-01 ✓	Grab	GW				1	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 # SHIPMENT 2

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
	10/4/23	1800		
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10/5/23 Time: 0900

preservation required by Login: Date/Time
Hold:
Condition: NCF / OK

J038

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

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

Report to: Julie Speer
Email to: jspeer@trccompanies.com
Project Description: Artesia Fall 2023
City/State Collected: Artesia, NM
Phone: 512-684-3170
Client Project #
Lab Project #: TRCATX-ARTESIA
Collected By (print): Scott Ude/H&R Team
Site/Facility ID #: (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

Lab # Ude3141
Table #
Acctnum: TRCATX
Template: T238036
Prelogin: P1024949
TSR: 526
PB:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOA 6000XY - 40ml Amb HCl	DRO LVI - 40ml Amb-HCl-BT	GRO - 40ml Amb HCl	Total Short List Metals 250ml HDPE-HNO3 <2	TDS - 500ml HDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125ml HDPE-NoPres	Total Long List Metals 250ml HDPE-HNO3 <2	Cyanide - 250ml HDPE Amb-NaOH >12	EDB - 40ml Clr-NaThio	8270 DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
MW-85 ✓	Grab	GW				10	x	x	x	x	x	x						
MW-86 ✓	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				7		x	x	x	x	x						
MW-84 ✓	Grab	GW				7		x	x	x	x	x						
MW-122 ✓	Grab	GW				7		x	x	x	x	x						
MW-79 ✓	Grab	GW				7		x	x	x	x	x						
MW-74 ✓	Grab	GW				7		x	x	x	x	x						
MW-2A ✓	Grab	GW				7		x	x	x	x	x						
OCD-6 ✓	Grab	GW				7		x	x	x	x	x						

* 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.

pH ____ Temp ____
Flow ____ Other ____

Samples returned via: ___ UPS ✓ FedEx ___ Courier ___
Tracking # SHIPMENT 2

Relinquished by: (Signature) — Date: 10/4/23 — Time: 1800
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
2

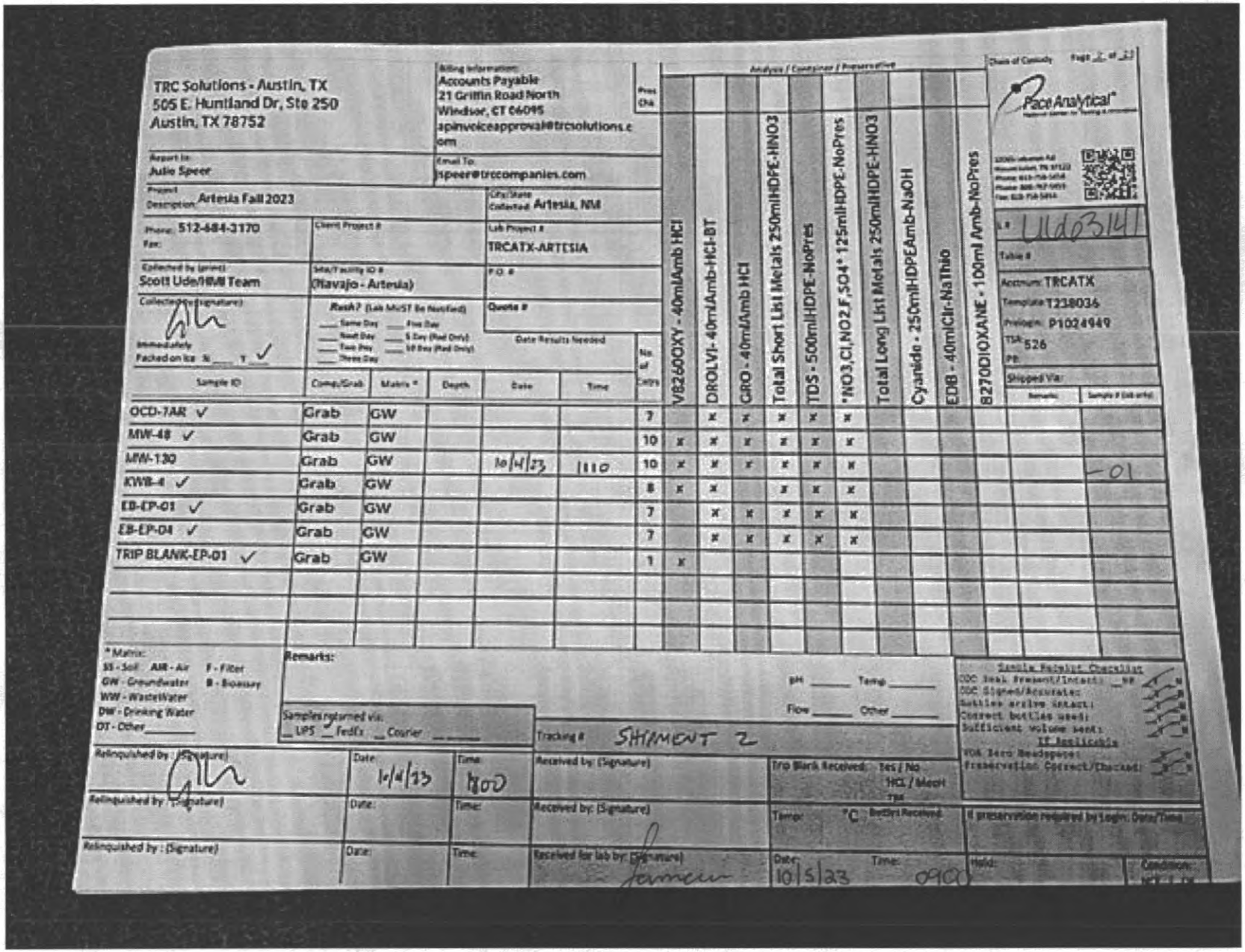
Temp: °C — Bottles Received: 392

Date: 10/5/23 — Time: 0900

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

If preservation required by Login: Date/Time

Hold: — Condition:



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 2023 | City/State Collected: Artesia, NM

Phone: 512-484-3170 | Client Project # | Lab Project #: TRCATX-ARTESIA

Collected by (print): Scott Ude/HWI Team | Site/Facility ID #: (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	V8260OXY - 40mlAmb HCl	DROLVI - 40mlAmb-HCl-BT	GRO - 40mlAmb HCl	Total Short List Metals 250mlHDPE-HNO3	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
OCD-TAR ✓	Grab	GW				7		x	x	x	x	x						
MW-48 ✓	Grab	GW				10	x	x	x	x	x	x						
MW-130	Grab	GW		10/4/23	1110	10	x	x	x	x	x	x						-01
KWB-4 ✓	Grab	GW				8	x	x		x	x	x						
EB-EP-01 ✓	Grab	GW				7		x	x	x	x	x						
EB-EP-04 ✓	Grab	GW				7		x	x	x	x	x						
TRIP BLANK-EP-01 ✓	Grab	GW				1	x											

Pace Analytical

Lab # UD03141
Table #
Acctnum: TRCATX
Template: T238036
Prelogin: P1024949
TSR: 526
PB:
Shipped Via:

Chain of Custody Page _ of _

* 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 # SHIPMENT 2

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

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	10/4/23	1800	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)
			Jamein

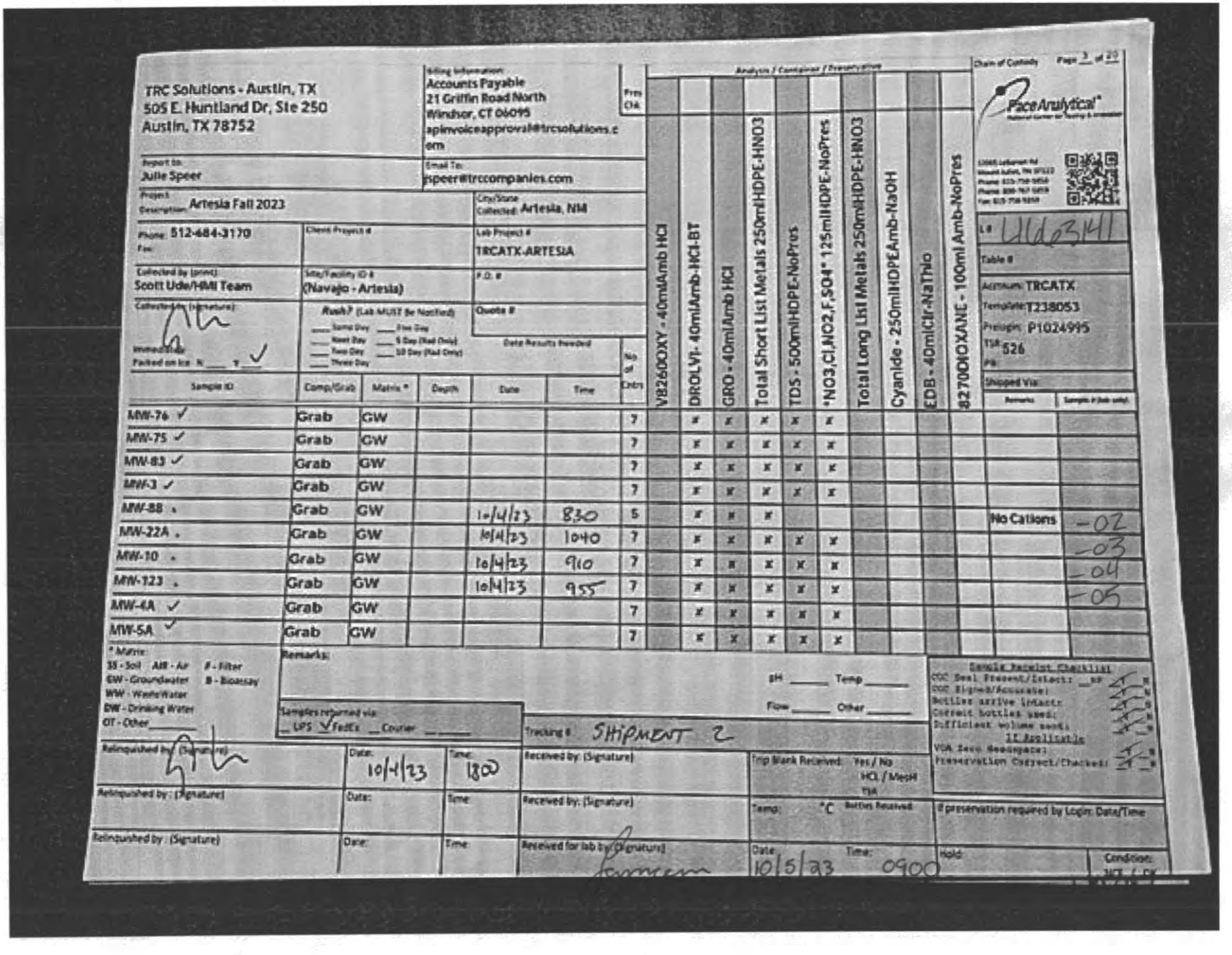
Trip Blank Received: Yes / No HCL / MeoH TBR

Temp: °C Bottles Received:

Date: 10/5/23 Time: 0900

If preservation required by Login: Date/Time

Hold: Condition:



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 2023
City/State Collected: Artesia, NM

Phone: 512-484-3170
Client Project #
Lab Project #: TRCATX-ARTESIA

Collected by (print): Scott Ude/HMI Team
Site/Facility ID #: (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	# of Cntrs	VB260OXY - 40mlAmb HCl	DROLVI - 40mlAmb-HCl-BT	GRO - 40ml Amb HCl	Total Short List Metals 250mlHDPE-HNO3	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270MIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
MW-76 ✓	Grab	GW				7		x	x	x	x	x						
MW-75 ✓	Grab	GW				7		x	x	x	x	x						
MW-83 ✓	Grab	GW				7		x	x	x	x	x						
MW-3 ✓	Grab	GW				7		x	x	x	x	x						
MW-88	Grab	GW		10/4/23	830	5		x	x	x							No Cations	-02
MW-22A	Grab	GW		10/4/23	1040	7		x	x	x	x	x						-03
MW-10	Grab	GW		10/4/23	910	7		x	x	x	x	x						-04
MW-123	Grab	GW		10/4/23	955	7		x	x	x	x	x						-05
MW-4A ✓	Grab	GW				7		x	x	x	x	x						
MW-5A ✓	Grab	GW				7		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 # SHIPMENT 2

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No, HCL / MeoH, TSA
	10/4/23	1800		
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10/5/23 Time: 0900

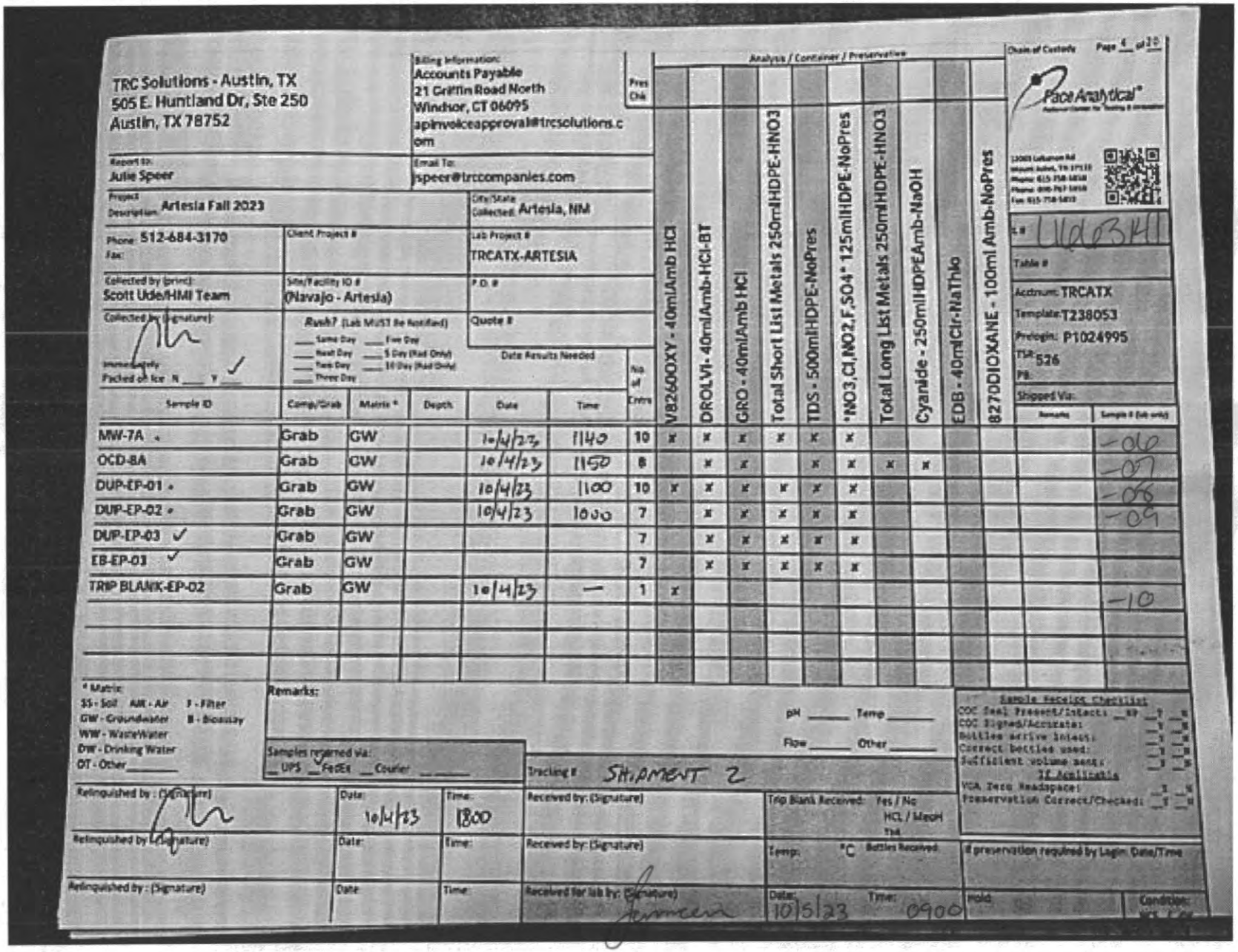
Sample Receipt Checklist
COC Seal Present/Intact: ___NP ___N
COC Signed/Accurate: ___Y ___N
Bottles arrive intact: ___Y ___N
Correct bottles used: ___Y ___N
Sufficient volume sent: ___Y ___N
If Applicable
VOA Zero Headspace: ___Y ___N
Preservation Correct/Checked: ___Y ___N

If preservation required by Login: Date/Time
Hold:
Condition:

Chain of Custody Page 3 of 29

Pace Analytical

Lab # 410631411
Table #
Acctnum: TRCATX
Template: T238053
Prelogin: P1024995
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

Report to: Julie Speer
Email To: jspeer@trccompanies.com

Project Description: Artesia Fall 2023
City/State Collected: Artesia, NM

Phone: 512-684-3170
Client Project #
Lab Project #: TRCATX-ARTESIA

Collected by (print): Scott Ude/HMI Team
Site/Facility ID #: (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

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Total # of Cntrs	V8260OXY - 40mlAmb HCl	DROLVI - 40mlAmb-HCl-BT	GRO - 40mlAmb HCl	Total Short List Metals 250mlHDPE-HNO3	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
MW-7A	Grab	GW		10/4/23	1140	10	X	X	X	X	X	X						-06
OCD-8A	Grab	GW		10/4/23	1150	8		X	X		X	X	X	X				-07
DUP-EP-01	Grab	GW		10/4/23	1100	10	X	X	X	X	X	X						-08
DUP-EP-02	Grab	GW		10/4/23	1000	7		X	X	X	X	X						-09
DUP-EP-03 ✓	Grab	GW				7		X	X	X	X	X						
EB-EP-03 ✓	Grab	GW				7		X	X	X	X	X						
TRIP BLANK-EP-02	Grab	GW		10/4/23	—	1	X											-10

Chain of Custody Page 1 of 1
Pace Analytical
Lab # L1603411
Table #
Acctnum: TRCATX
Template: T238053
Prelogin: P1024995
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 ____

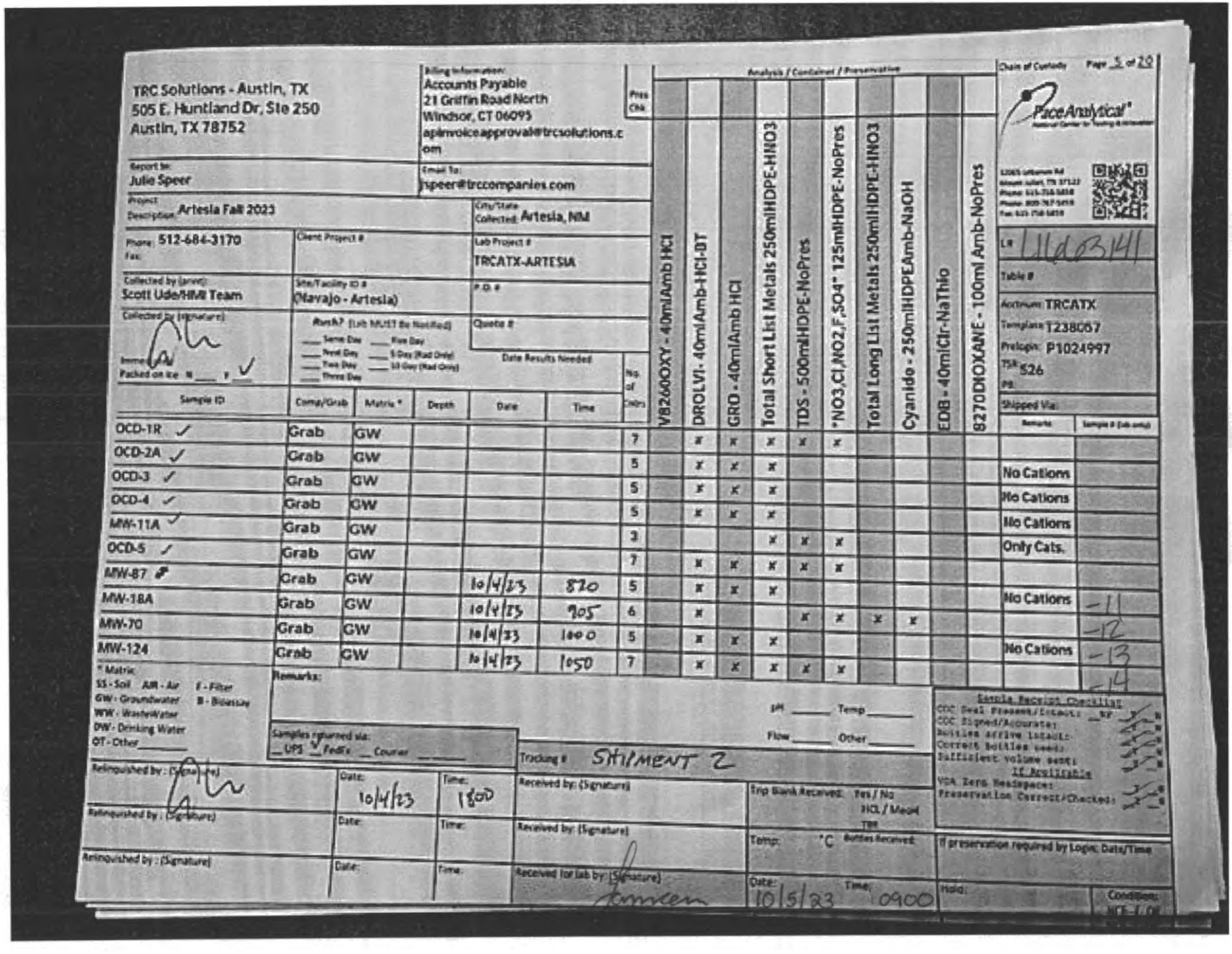
Samples returned via: __ UPS ✓FedEx __ Courier ____
Tracking # SHIPMENT 2

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

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	10/4/23	1800	
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: °C Bottles Received:
Date: 10/5/23 Time: 0900

If preservation required by Login: Date/Time
Hold: Condition:



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 2023
City/State Collected: Artesia, NM
Phone: 512-684-3170
Client Project #
Lab Project # TRCATX-ARTESIA
Collected by (print): Scott Ude/HWI Team
Site/Facility ID # (Navajo - Artesia)
P.O. #
Collected by (signature):
Rush? (Lab MUST Be Notified) Same Day, Next Day, Two Day, Three Day, Five Day, 5 Day (Rad Only), 10 Day (Rad Only)
Quote #
Date Results Needed
Packed on Ice N ___ Y ✓

Analysis / Container / Preservative

Chain of Custody Page 5 of 20

Pace Analytical

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260OXY - 40mlAmb HCl	DROLVI - 40mlAmb-HCl-DT	GRO - 40mlAmb HCl	Total Short List Metals 250mlHDPE-HNO3	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
OCD-1R ✓	Grab	GW				7		x	x	x	x	x						
OCD-2A ✓	Grab	GW				5		x	x	x								
OCD-3 ✓	Grab	GW				5		x	x	x							No Cations	
OCD-4 ✓	Grab	GW				5		x	x	x							No Cations	
MW-11A ✓	Grab	GW				5		x	x	x							No Cations	
OCD-5 ✓	Grab	GW				3				x	x	x					Only Cats.	
MW-87 ✓	Grab	GW		10/4/23	820	7		x	x	x	x	x						
MW-18A	Grab	GW		10/4/23	905	5		x	x	x							No Cations	-11
MW-70	Grab	GW		10/4/23	1000	6		x			x	x	x	x				-12
MW-124	Grab	GW		10/4/23	1050	5		x	x	x							No Cations	-13
						7		x	x	x	x	x						-14

LL# LL683141
Table #
Acctnum: TRCATX
Template: T238067
Prelogin: P1024997
TSR: 526
PB:
Shipped Via:

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

Remarks:

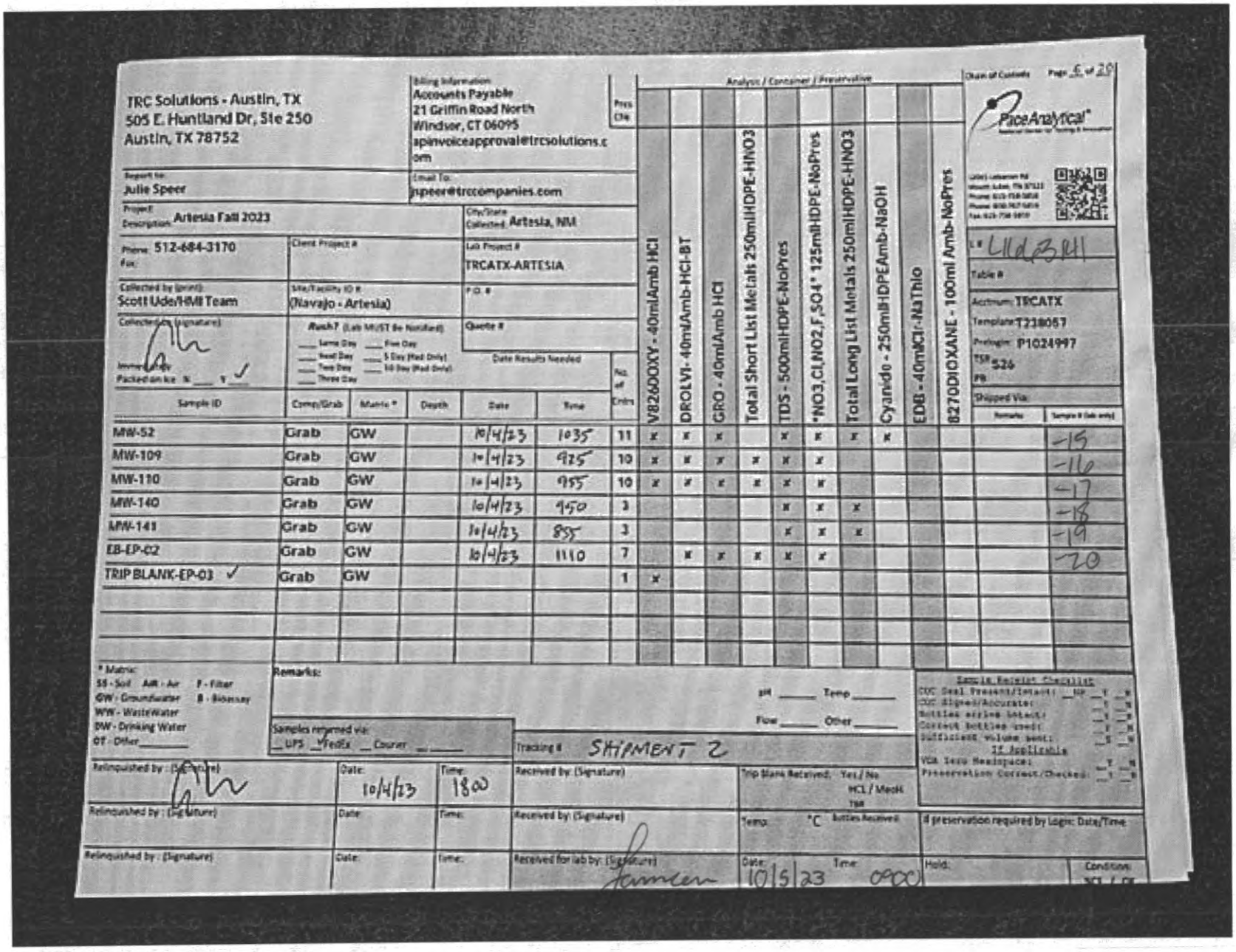
pH ____ Temp ____
Flow ____ Other ____

Samples returned via: UPS ✓ FedEx Courier ____
Tracking # SHIPMENT 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

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	10/4/23	1800	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)
			10/5/23 0900

Trip Blank Received: Yes / No HCL / MeoH TBR
Temp: °C Bottles Received:
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 2023
City/State Collected: Artesia, NM
Phone: 512-684-3170
Client Project #
Lab Project #: TRCATX-ARTESIA
Collected by (print): Scott Ude/HMB Team
Site/Facility ID #: (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
No. of Cntrs

Analysis / Container / Preservative

Chain of Custody Page 1 of 2

PaceAnalytical

Lab # L1162841
Table #
Acctnum: TRCATX
Template: T238057
Prelogin: P1024997
TSR: 324
PB:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260DOXY - 40mlAmb HCl	DROLVI - 40mlAmb-HCl-BT	GRO - 40mlAmb HCl	Total Short List Metals 250mlHDPE-HNO3	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
MW-52	Grab	GW		10/4/23	1035	11	x	x	x		x	x	x	x				-15
MW-109	Grab	GW		10/4/23	925	10	x	x	x	x	x	x						-16
MW-110	Grab	GW		10/4/23	955	10	x	x	x	x	x	x						-17
MW-140	Grab	GW		10/4/23	950	3					x	x	x					-18
MW-141	Grab	GW		10/4/23	855	3					x	x	x					-19
EB-EP-02	Grab	GW		10/4/23	1110	7		x	x	x	x	x						-20
TRIP BLANK-EP-03 ✓	Grab	GW				1	x											

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

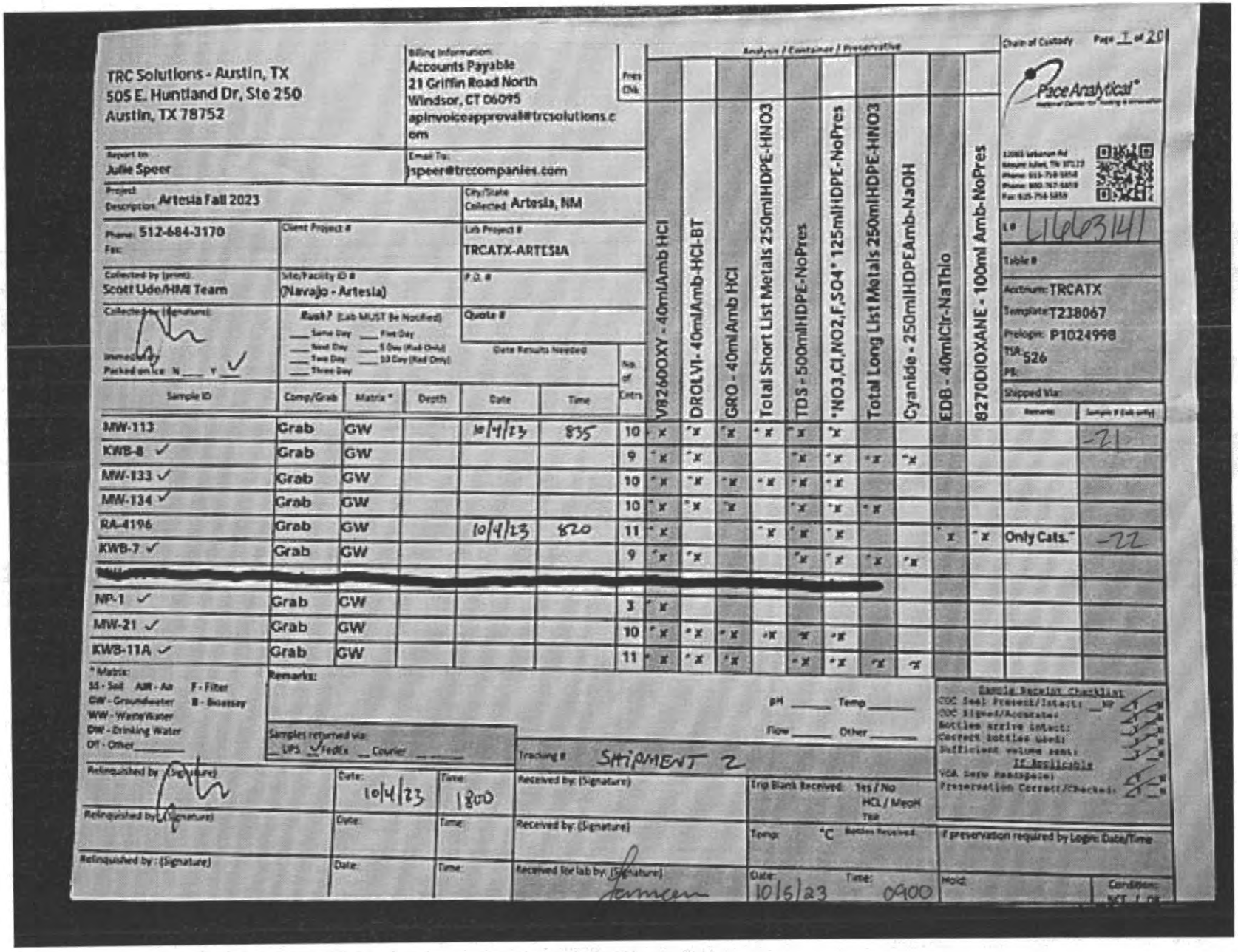
Remarks:
pH ____ Temp ____
Flow ____ Other ____

Samples returned via: __UPS __FedEx __Courier __ ____
Tracking # SHIPMENT 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

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCl / MeoH TBR
	10/4/23	1800		
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10/5/23 Time: 0900

If preservation required by Login: Date/Time
Hold:
Condition:



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@trcompanies.com

Project Description: Artesia Fall 2023
City/State Collected: Artesia, NM

Phone: 512-684-3170
Fax:
Client Project #
Lab Project #: TRCATX-ARTESIA

Collected by (print): Scott Ude/HMI Team
Site/Facility ID #: (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 1 of 2

Pace Analytical®

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	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
MW-113	Grab	GW		10/4/23	835	10	x	x	x	x	x	x						-21
KWB-8 ✓	Grab	GW				9	x	x			x	x	x	x				
MW-133 ✓	Grab	GW				10	x	x	x	x	x	x						
MW-134 ✓	Grab	GW				10	x	x	x		x	x	x					
RA-4196	Grab	GW		10/4/23	820	11	x			x	x	x			x	x	Only Cats."	-22
KWB-7 ✓	Grab	GW				9	x	x			x	x	x	x				
[redacted]																		
NP-1 ✓	Grab	GW				3	x											
MW-21 ✓	Grab	GW				10	x	x	x	x	x	x						
KWB-11A ✓	Grab	GW				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 # SHIPMENT 2

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

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	10/4/23	1800	
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

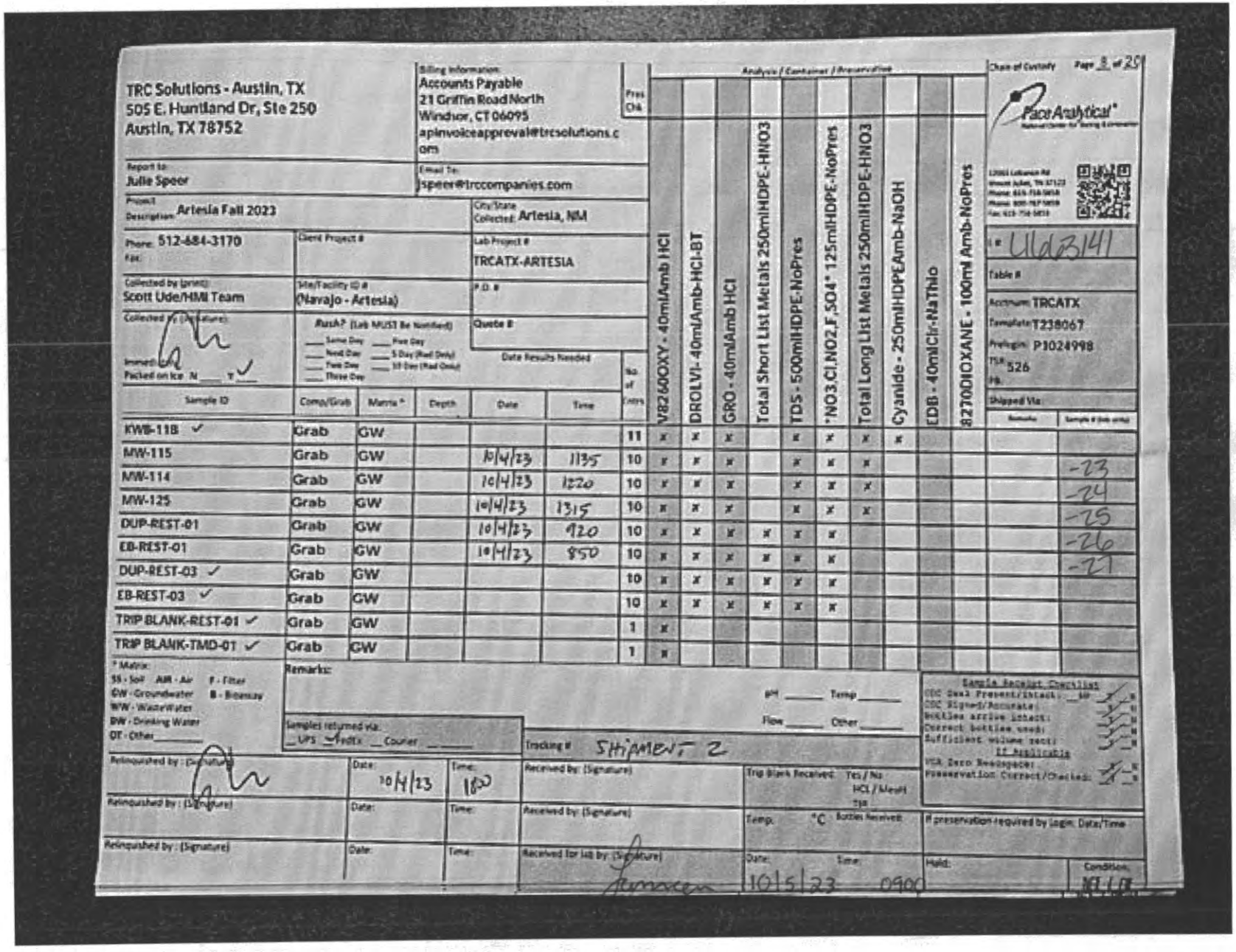
Temp: °C Bottles Received:

Date: 10/5/23 Time: 0900

If preservation required by Login: Date/Time

Hold: Condition: NCF / OK

L# L1663141
Table #
Acctnum: TRCATX
Template: T238067
Prelogin: P1024998
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

Report to: Julie Speer
Email To: jspeer@trccompanies.com
Project Description: Artesia Fall 2023
City/State Collected: Artesia, NM
Phone: 512-684-3170
Client Project #
Lab Project #: TRCATX-ARTESIA
Collected by (print): Scott Ude/HMI Team
Site/Facility ID #: (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
No. of Cntrs

Analysis / Container / Preservative

Chain of Custody Page 3 of 29

Pace Analytical

Lab # ULdB141
Table #
Acctnum: TRCATX
Template: T238067
Prelogin: P1024998
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	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
KWB-11B ✓	Grab	GW				11	x	x	x		x	x	x	x				
MW-115	Grab	GW		10/4/23	1135	10	x	x	x		x	x	x					-23
MW-114	Grab	GW		10/4/23	1220	10	x	x	x		x	x	x					-24
MW-125	Grab	GW		10/4/23	1315	10	x	x	x		x	x	x					-25
DUP-REST-01	Grab	GW		10/4/23	920	10	x	x	x	x	x	x						-26
EB-REST-01	Grab	GW		10/4/23	850	10	x	x	x	x	x	x						-27
DUP-REST-03 ✓	Grab	GW				10	x	x	x	x	x	x						
EB-REST-03 ✓	Grab	GW				10	x	x	x	x	x	x						
TRIP BLANK-REST-01 ✓	Grab	GW				1	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 ____

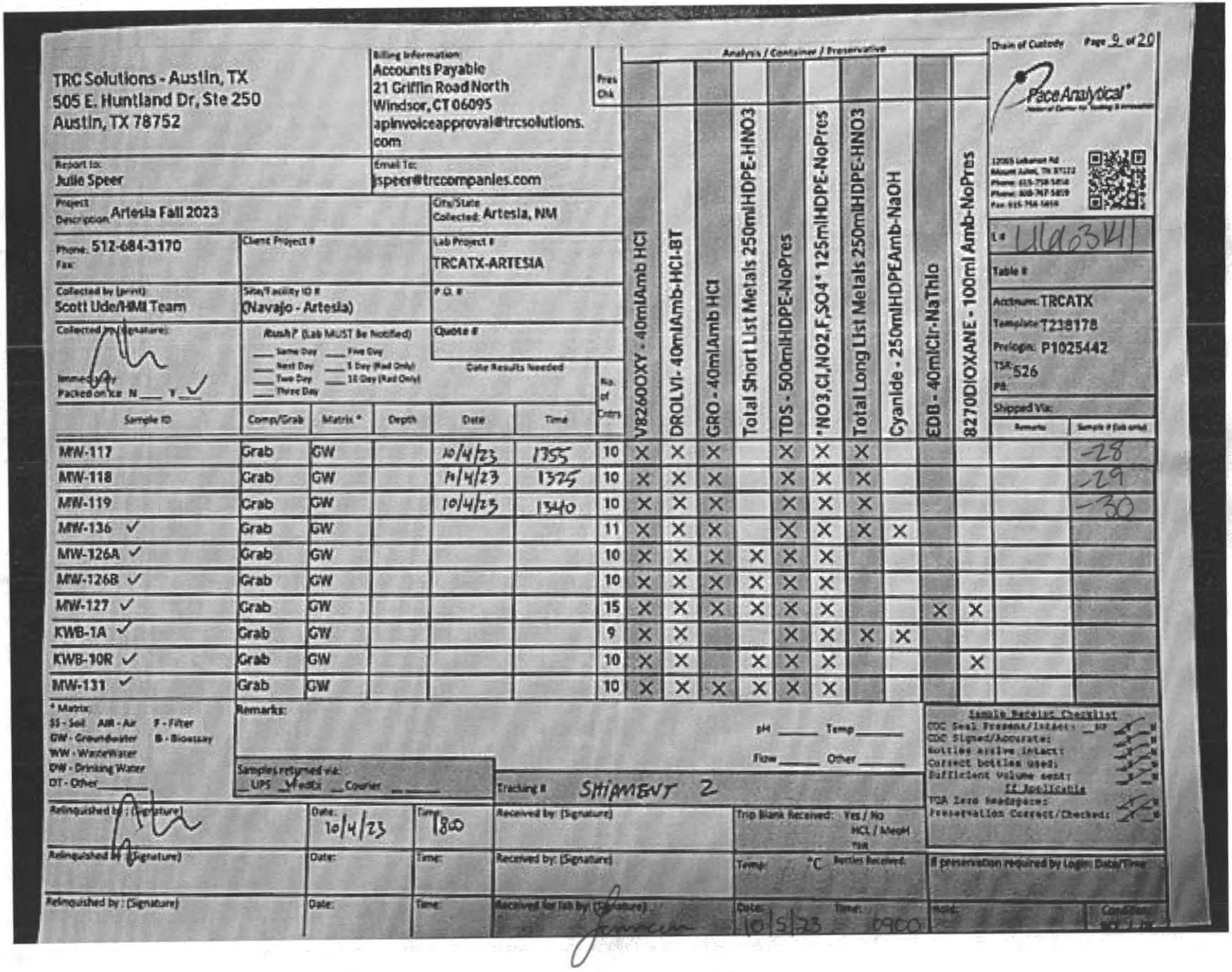
Sample Receipt Checklist
COC Seal Present/Intact: NP
COC Signed/Accurate:
Bottles arrive intact:
Correct bottles used:
Sufficient volume sent:
If Applicable
VOA Zero Headspace:
Preservation Correct/Checked:

Samples returned via: ___ UPS ✓ FedEx ___ Courier ___
Tracking # SHIPMENT 2

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	10/4/23	1800	
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: °C Bottles Received:
Date: 10/5/23 Time: 0900

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@trcompanies.com

Project Description: Artesia Fall 2023
City/State Collected: Artesia, NM

Phone: 512-684-3170
Fax:
Client Project #
Lab Project #: TRCATX-ARTESIA

Collected by (print): Scott Ude/HMI Team
Site/Facility ID #: (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 20

Pace Analytical

Lab # 11403411
Table #
Acctnum: TRCATX
Template: T238178
Prelogin: P1025442
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	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
MW-117	Grab	GW		10/4/23	1355	10	X	X	X		X	X	X					-28
MW-118	Grab	GW		10/4/23	1325	10	X	X	X		X	X	X					-29
MW-119	Grab	GW		10/4/23	1340	10	X	X	X		X	X	X					-30
MW-136 ✓	Grab	GW				11	X	X	X		X	X	X	X				
MW-126A ✓	Grab	GW				10	X	X	X	X	X	X						
MW-126B ✓	Grab	GW				10	X	X	X	X	X	X						
MW-127 ✓	Grab	GW				15	X	X	X	X	X	X			X	X		
KWB-1A ✓	Grab	GW				9	X	X			X	X	X	X				
KWB-10R ✓	Grab	GW				10	X	X		X	X	X				X		
MW-131 ✓	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:

pH ____ Temp ____
Flow ____ Other ____

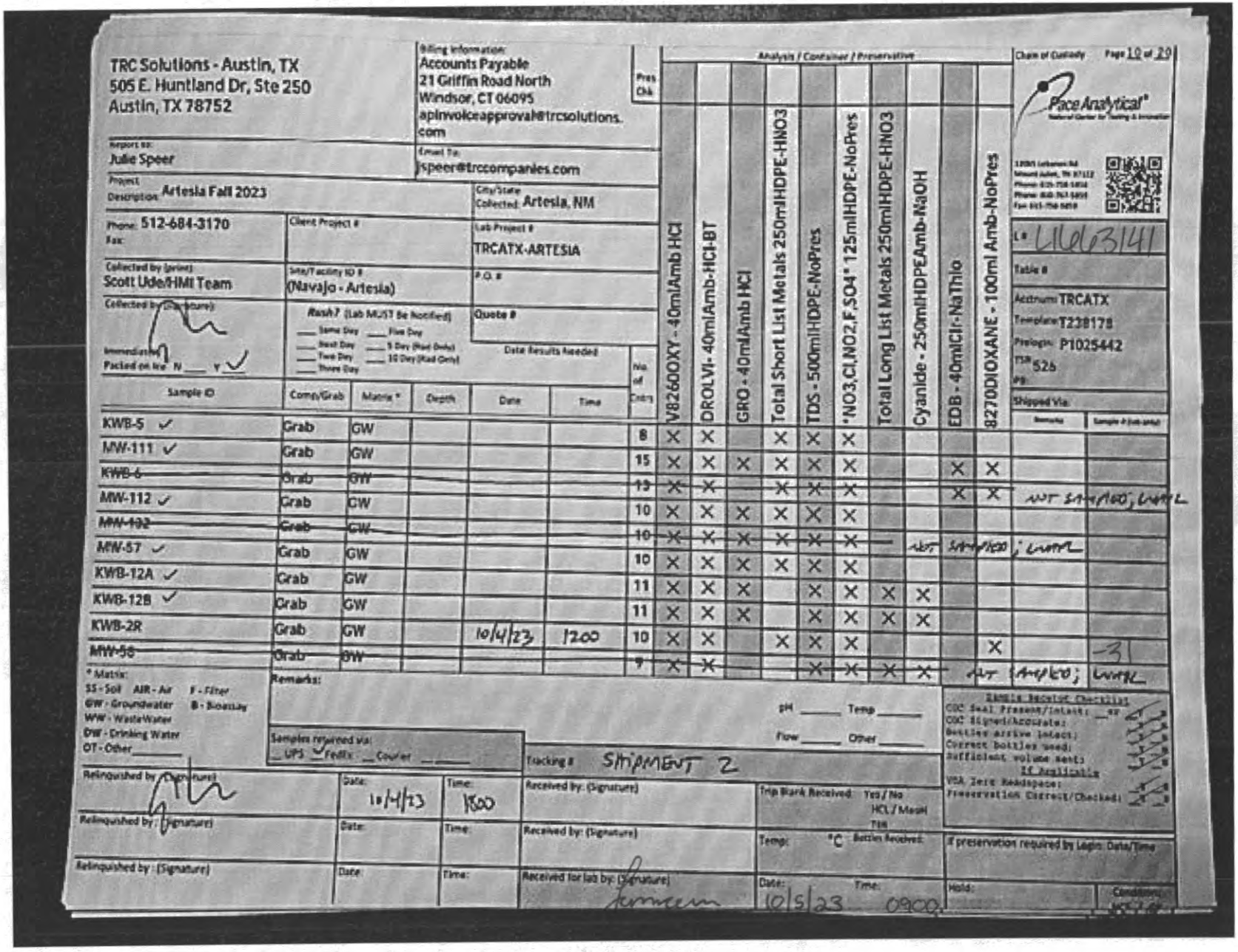
Samples returned via: ___UPS ✓FedEx ___Courier ___

Tracking # SHIPMENT 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

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TSR
	10/4/23	1800		
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10/5/23 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: Artesia Fall 2023
City/State Collected: Artesia, NM
Phone: 512-684-3170
Fax:
Client Project #
Lab Project #: TRCATX-ARTESIA
Collected by (print): Scott Ude/HMI Team
Site/Facility ID #: (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
No. of Cntrs

Chain of Custody Page 10 of 29
Pace Analytical
LAB # 11663141
Table #
Acctnum: TRCATX
Template: T238178
Prelogin: P1025442
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	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlCl-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
KWB-5 ✓	Grab	GW				8	X	X		X	X	X						
MW-111 ✓	Grab	GW				15	X	X	X	X	X	X			X	X		
~~KWB-6~~	~~Grab~~	~~GW~~				~~13~~	~~X~~	~~X~~		~~X~~	~~X~~	~~X~~			~~X~~	~~X~~		
MW-112 ✓	Grab	GW				10	X	X	X	X	X	X			X	X	NOT SAMPLED; LMPL	
~~MW-132~~	~~Grab~~	~~GW~~				~~10~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~—~~	~~—~~				
MW-57 ✓	Grab	GW				10	X	X	X	X	X	X			NOT SAMPLED; LMPL			
KWB-12A ✓	Grab	GW				11	X	X	X		X	X	X	X				
KWB-12B ✓	Grab	GW				11	X	X	X		X	X	X	X				
KWB-2R	Grab	GW		10/4/23	1200	10	X	X		X	X	X				X		31
~~MW-56~~	~~Grab~~	~~GW~~				~~9~~	~~X~~	~~X~~			~~X~~	~~X~~	~~X~~	~~X~~			NOT SAMPLED; LMPL	

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

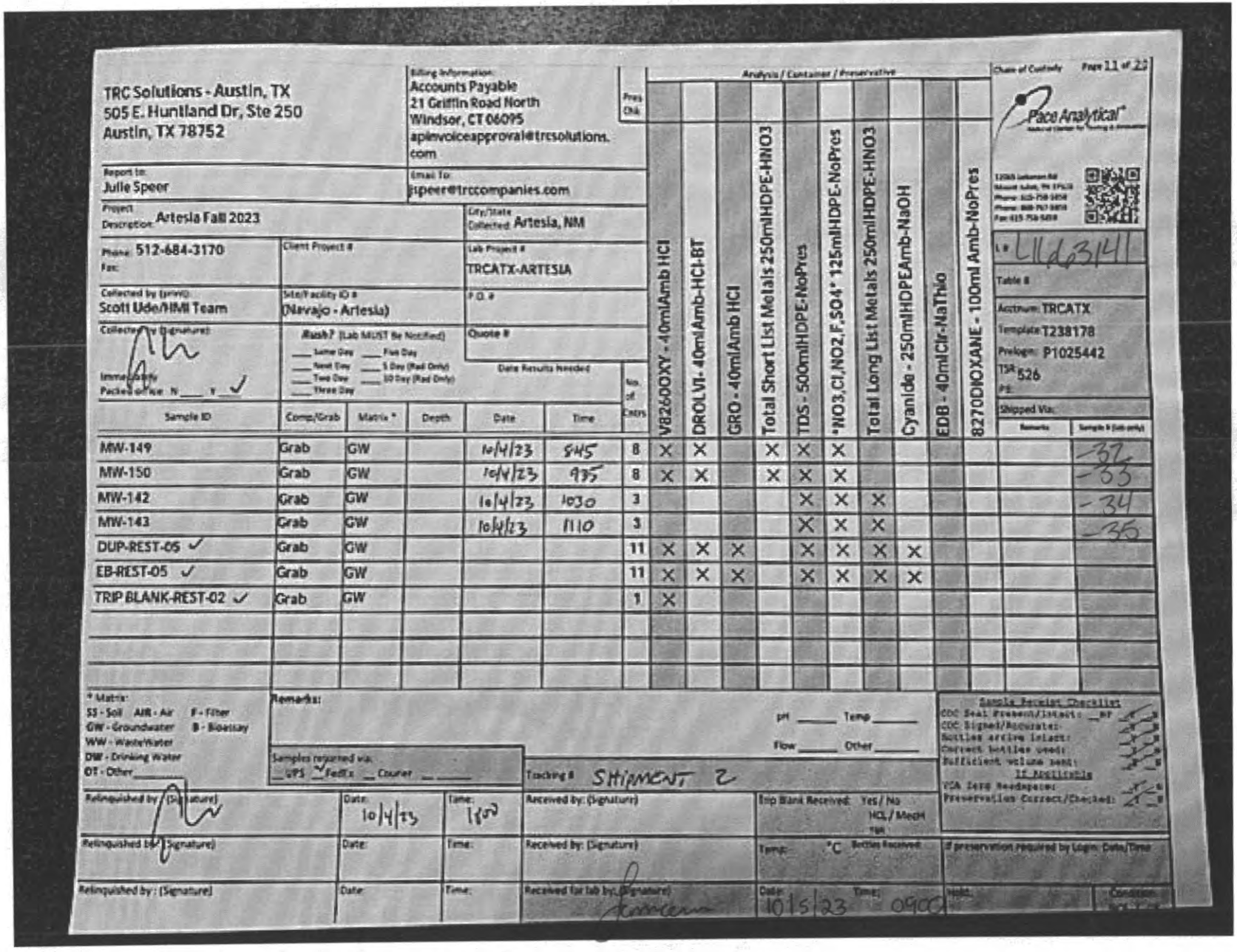
Remarks:
pH ____ Temp ____
Flow ____ Other ____

Samples returned via: _ UPS ✓ FedEx _ Courier _____
Tracking # SHIPMENT 2

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

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
	10/4/23	1500		
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10/5/23 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: Artesia Fall 2023
City/State Collected: Artesia, NM
Phone: 512-684-3170
Client Project #
Lab Project #: TRCATX-ARTESIA
Collected by (print): Scott Ude/HMI Team
Site/Facility ID #: (Navajo - Artesia)
P.O. #
Collected by (signature):
Rush? (Lab MUST Be Notified) Same Day, Next Day, Two Day, Three Day, Five Day, 5 Day (Rad Only), 10 Day (Rad Only)
Quote #
Date Results Needed
Immediately Packed on Ice: N ___ Y ✓

Analysis / Container / Preservative

Chain of Custody Page 11 of 22

Pace Analytical

Lab # L1162141
Table #
Acctnum: TRCATX
Template: T238178
Prelogin: P1025442
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	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
MW-149	Grab	GW		10/4/23	545	8	X	X		X	X	X						-32
MW-150	Grab	GW		10/4/23	935	8	X	X		X	X	X						-33
MW-142	Grab	GW		10/4/23	1030	3					X	X	X					-34
MW-143	Grab	GW		10/4/23	1110	3					X	X	X					-35
DUP-REST-05 ✓	Grab	GW				11	X	X	X		X	X	X	X				
EB-REST-05 ✓	Grab	GW				11	X	X	X		X	X	X	X				
TRIP BLANK-REST-02 ✓	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 ___

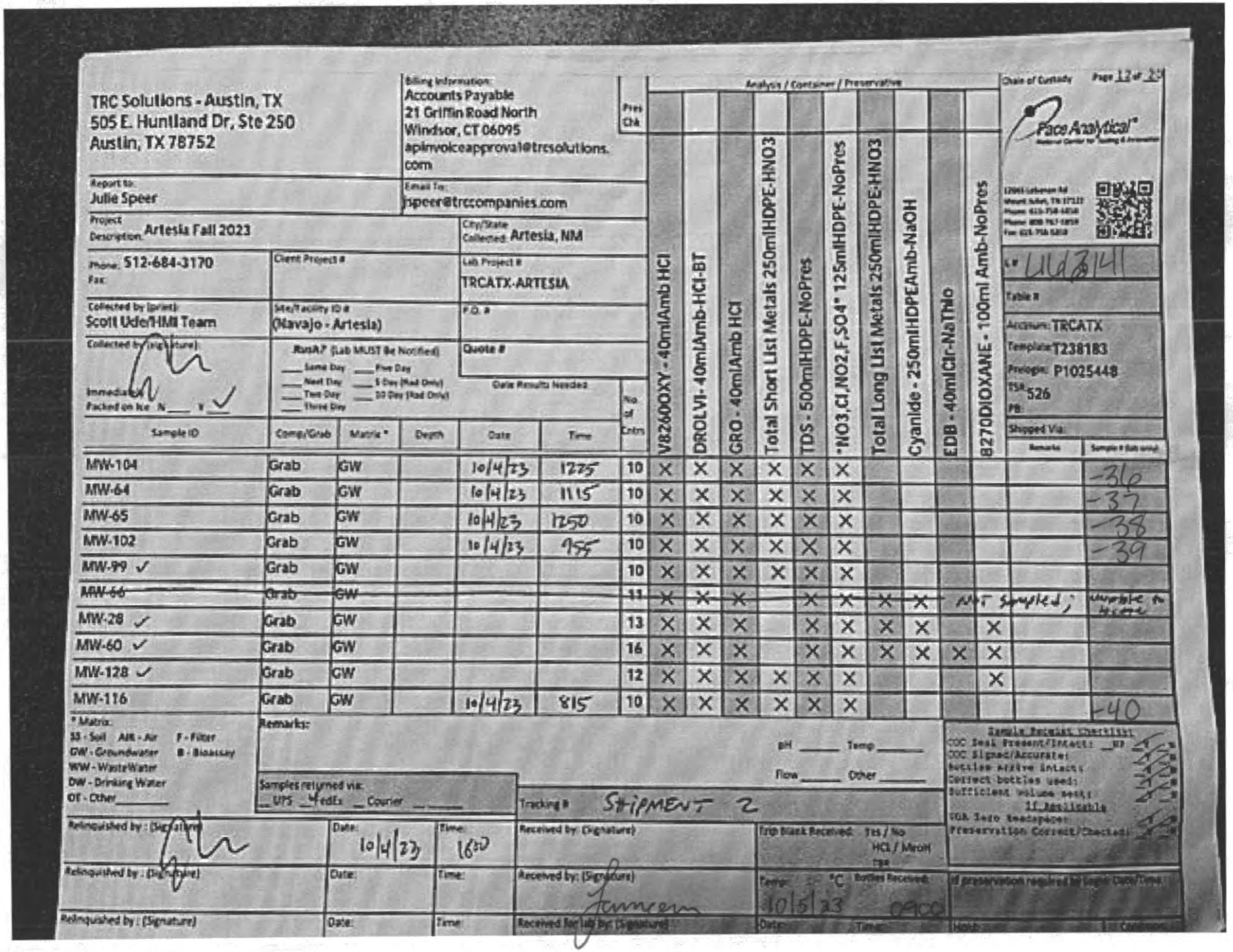
Samples returned via: UPS ✓FedEx Courier ___
Tracking # SHIPMENT 2

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

Relinquished by: (Signature) Date: 10/4/23 Time: 1500
Received by: (Signature)
Trip Blank Received: Yes / No HCL / MeoH TBR

Relinquished by: (Signature) Date: Time:
Received by: (Signature)
Temp: °C Bottles Received:
If preservation required by Login: Date/Time

Relinquished by: (Signature) Date: Time:
Received for lab by: (Signature)
Date: 10/5/23 Time: 0900
Hold: Condition



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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
Project Description: Artesia Fall 2023
City/State Collected: Artesia, NM
Phone: 512-684-3170
Client Project #
Lab Project #: TRCATX-ARTESIA
Collected by (print): Scott Ude/HMI Team
Site/Facility ID #: (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 12 of 25

Pace Analytical

Lab # ULD3141
Table #
Acctnum: TRCATX
Template: T238183
Prelogin: P1025448
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	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	EDB - 40mlClr-NaThio	8270DIOXANE - 100ml Amb-NoPres	Remarks	Sample # (lab only)
MW-104	Grab	GW		10/4/23	1225	10	X	X	X	X	X	X						-36
MW-64	Grab	GW		10/4/23	1115	10	X	X	X	X	X	X						-37
MW-65	Grab	GW		10/4/23	1250	10	X	X	X	X	X	X						-38
MW-102	Grab	GW		10/4/23	955	10	X	X	X	X	X	X						-39
MW-99 ✓	Grab	GW				10	X	X	X	X	X	X						
~~MW-66~~	~~Grab~~	~~GW~~				~~11~~	~~X~~	~~X~~	~~X~~		~~X~~	~~X~~	~~X~~	~~X~~	Not Sampled			Unable to Hit
MW-28 ✓	Grab	GW				13	X	X	X		X	X	X	X		X		
MW-60 ✓	Grab	GW				16	X	X	X		X	X	X	X	X	X		
MW-128 ✓	Grab	GW				12	X	X	X	X	X	X				X		
MW-116	Grab	GW		10/4/23	815	10	X	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 ___

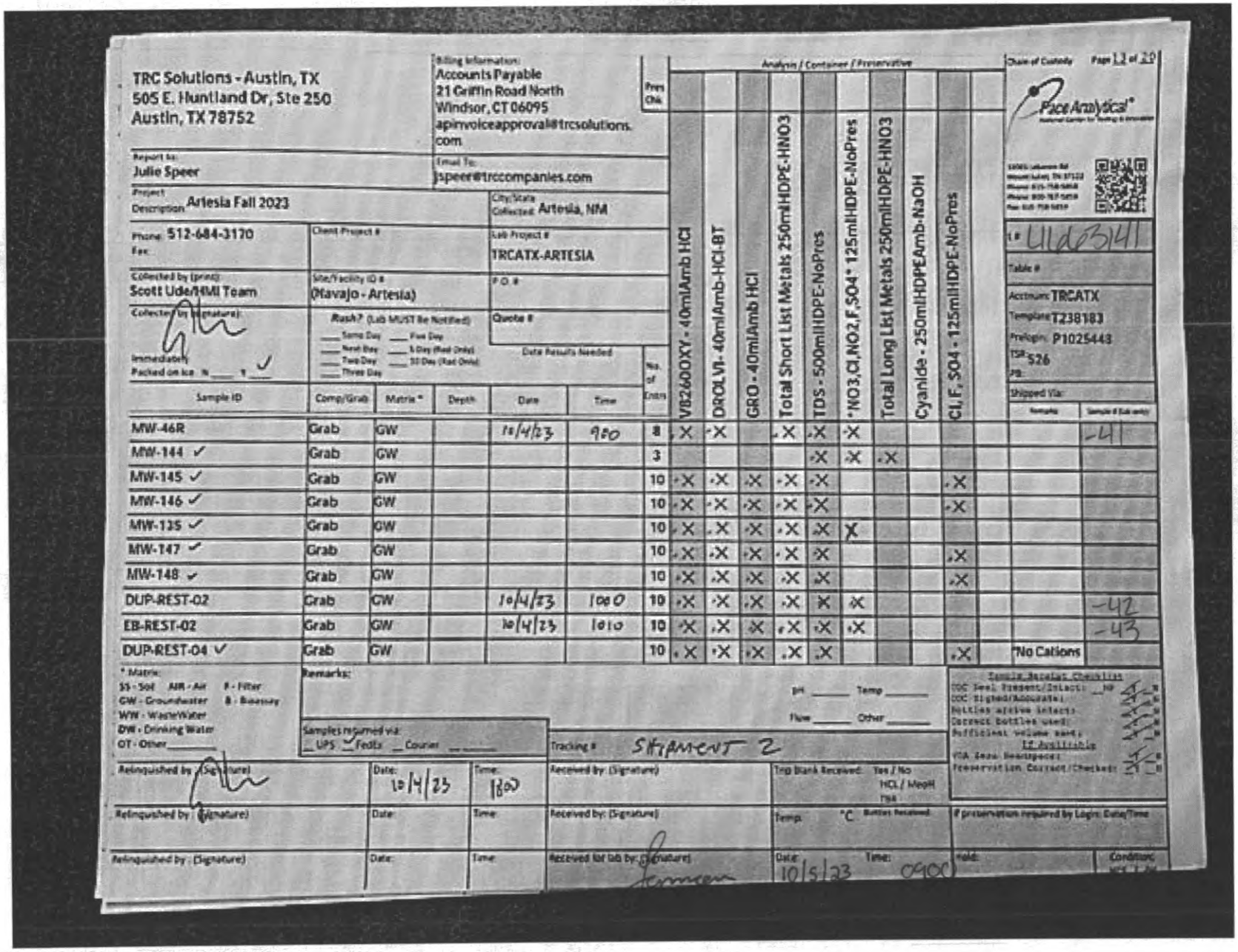
Tracking # SHIPMENT 2

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

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCl / MeoH TBR
	10/4/23	1630		
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:
				10/5/23 0900
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:

If preservation required by Login: Date/Time

Hold: Condition:



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Billing Information:
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Report to: Julie Speer
Email To: jspeer@trccompanies.com
Project Description: Artesia Fall 2023
City/State Collected: Artesia, NM
Phone: 512-684-3170
Client Project #
Lab Project #: TRCATX-ARTESIA
Collected by (print): Scott Ude/HMI Team
Site/Facility ID #: (Navajo - Artesia)
P.O. #
Collected by (signature):
Rush? (Lab MUST Be Notified)
Quote #
Immediately Packed on Ice N ___ Y ✓
Date Results Needed
No. of Cntrs

Analysis / Container / Preservative

Chain of Custody Page 1 of 2

Pace Analytical

Lab # 11d63141
Table #
Acctnum: TRCATX
Template: T238183
Prelogin: P1025443
TSR: 526
PB:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VB2600XY - 40mlAmb HCl	DROLVI - 40mlAmb-HCl-BT	GRO - 40mlAmb HCl	Total Short List Metals 250mlHDPE-HNO3	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	Cl, F, SO4 - 125mlHDPE-NoPres			
MW-46R	Grab	GW		10/4/23	950	8	X	X		X	X	X						-41
MW-144 ✓	Grab	GW				3					X	X	X					
MW-145 ✓	Grab	GW				10	X	X	X	X	X				X			
MW-146 ✓	Grab	GW				10	X	X	X	X	X				X			
MW-135 ✓	Grab	GW				10	X	X	X	X	X	X						
MW-147 ✓	Grab	GW				10	X	X	X	X	X				X			
MW-148 ✓	Grab	GW				10	X	X	X	X	X				X			
DUP-REST-02	Grab	GW		10/4/23	1000	10	X	X	X	X	X	X						-42
EB-REST-02	Grab	GW		10/4/23	1010	10	X	X	X	X	X	X						-43
DUP-REST-04 ✓	Grab	GW				10	X	X	X	X	X				X		No Cations	

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

Remarks:

pH ____ Temp ____
Flow ____ Other ____

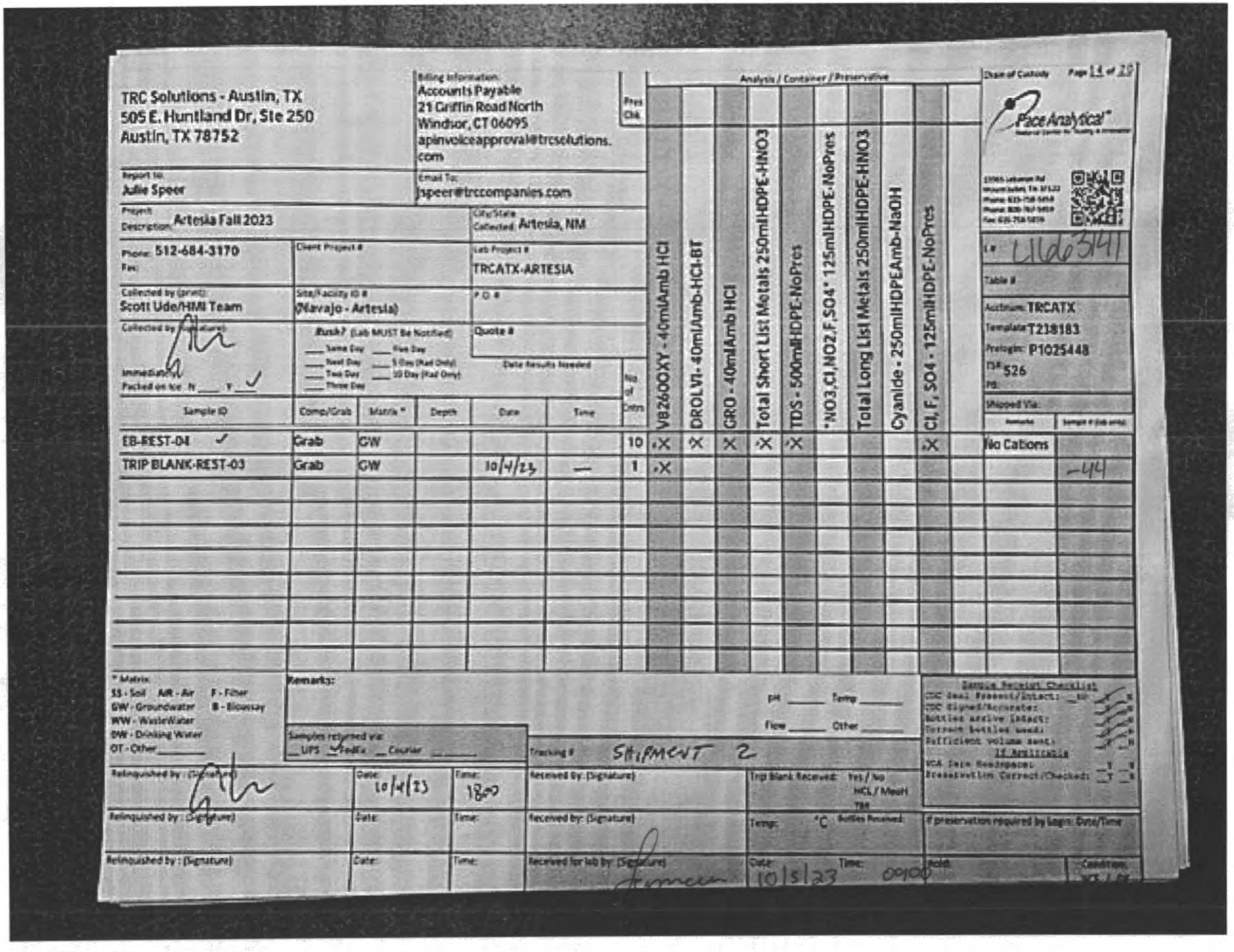
Samples returned via: ✓ UPS ___ FedEx ___ Courier ___

Tracking # 5114AMENT 2

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

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
	10/4/23	1800		
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10/5/23 Time: 0900

If preservation required by Login: Date/Time
Hold: Condition:



TRC Solutions - Austin, TX
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Austin, TX 78752

Billing Information:
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Windsor, CT 06095
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Report to: Julie Speer
Email To: jspeer@trccompanies.com

Project Description: Artesia Fall 2023
City/State Collected: Artesia, NM

Phone: 512-684-3170
Fax:

Client Project #
Lab Project # TRCATX-ARTESIA

Collected by (print): Scott Ude/HMI Team
Site/Facility ID # (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 #

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page 14 of 29

Pace Analytical

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VB2600XY - 40mlAmb HCl	DROLVI - 40mlAmb-HCl-BT	GRO - 40mlAmb HCl	Total Short List Metals 250mlHDPE-HNO3	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	Cl, F, SO4 - 125mlHDPE-NoPres			
EB-REST-04 ✓	Grab	GW				10	X	X	X	X	X				X		No Cations	
TRIP BLANK-REST-03	Grab	GW		10/4/23	—	1	X											-44

LP# 11d63141
Table #
Acctnum: TRCATX
Template: T218183
Prelogin: P1025448
TSR 526
PM:
Shipped Via:
Remarks | Sample # (lab only)

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

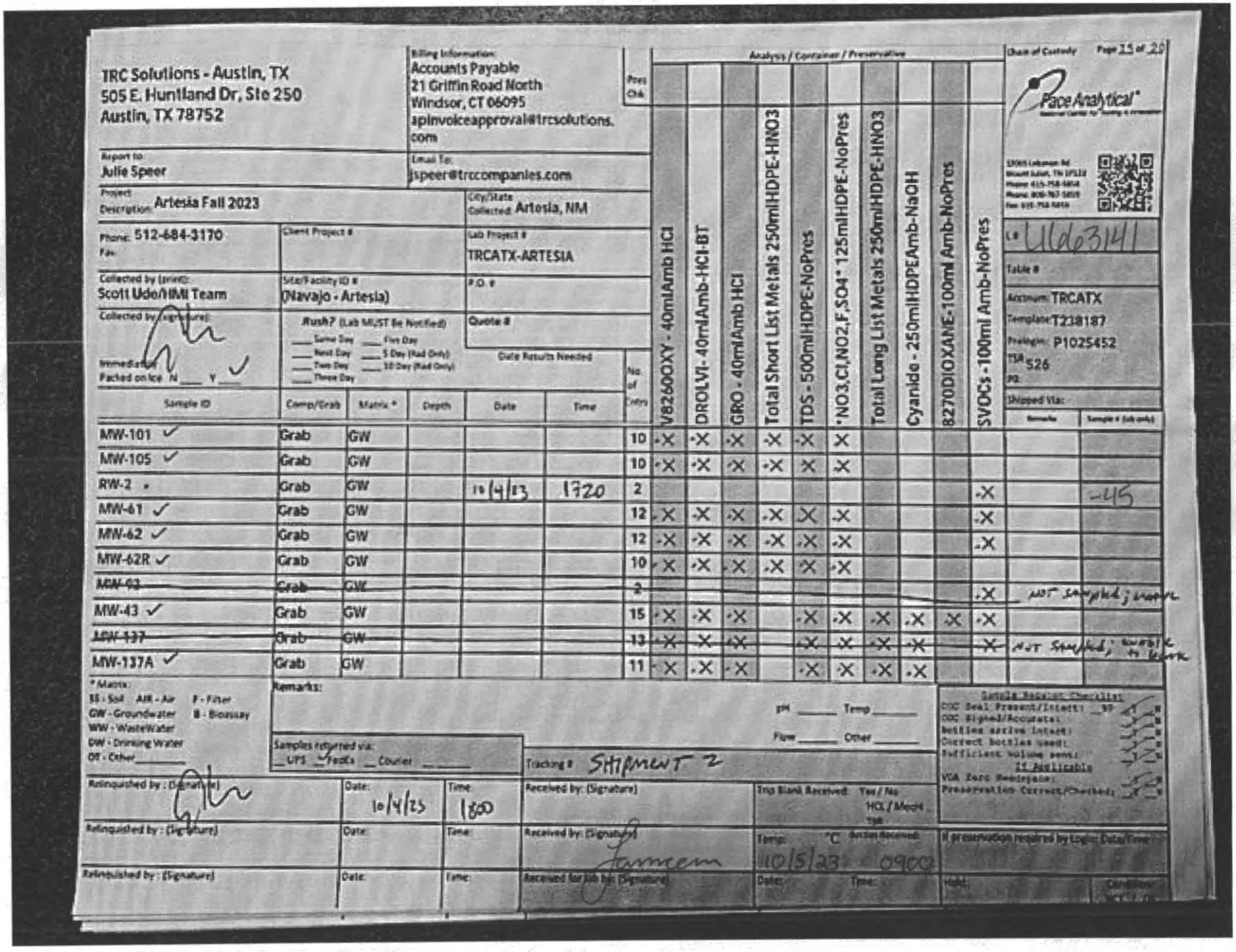
Remarks:
pH ___ Temp ___
Flow ___ Other ___

Samples returned via: ___ UPS ___ FedEx ___ Courier

Tracking # SHIPMENT 2

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	
	10/4/23	1800			
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:	If preservation required by Login: Date/Time
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10/5/23 Time: 0900	pH: Condition:



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

Billing Information:
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apinvoiceapproval@trcsolutions.com

Report to: Julie Speer
Email To: jspeer@trccompanies.com

Project Description: Artesia Fall 2023
City/State Collected: Artesia, NM

Phone: 512-684-3170
Fax:

Client Project #

Lab Project #: TRCATX-ARTESIA

Collected by (print): Scott Udo/NMI Team

Site/Facility ID #: (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 ✓

No. of Cntrs

Analysis / Container / Preservative

Pres Chk

Chain of Custody Page 15 of 20

Pace Analytical

LAB # ULd03141

Table #

Acctnum: TRCATX

Template: T218187

Prelogin: P1025452

TSR: 526

PO:

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	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	8270DIOXANE-100ml Amb-NoPres	SVOCs - 100ml Amb-NoPres	Remarks	Sample # (lab only)
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		10/4/23	1720	2										X		-45
MW-61 ✓	Grab	GW				12	X	X	X	X	X	X				X		
MW-62 ✓	Grab	GW				12	X	X	X	X	X	X				X		
MW-62R ✓	Grab	GW				10	X	X	X	X	X	X						
~~MW-63~~	~~Grab~~	~~GW~~				~~2~~										X	not sampled; unable to locate	
MW-43 ✓	Grab	GW				15	X	X	X		X	X	X	X	X	X		
~~MW-137~~	~~Grab~~	~~GW~~				~~13~~	~~X~~	~~X~~	~~X~~		~~X~~	~~X~~	~~X~~	~~X~~		~~X~~	not sampled; unable to locate	
MW-137A ✓	Grab	GW				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 ____

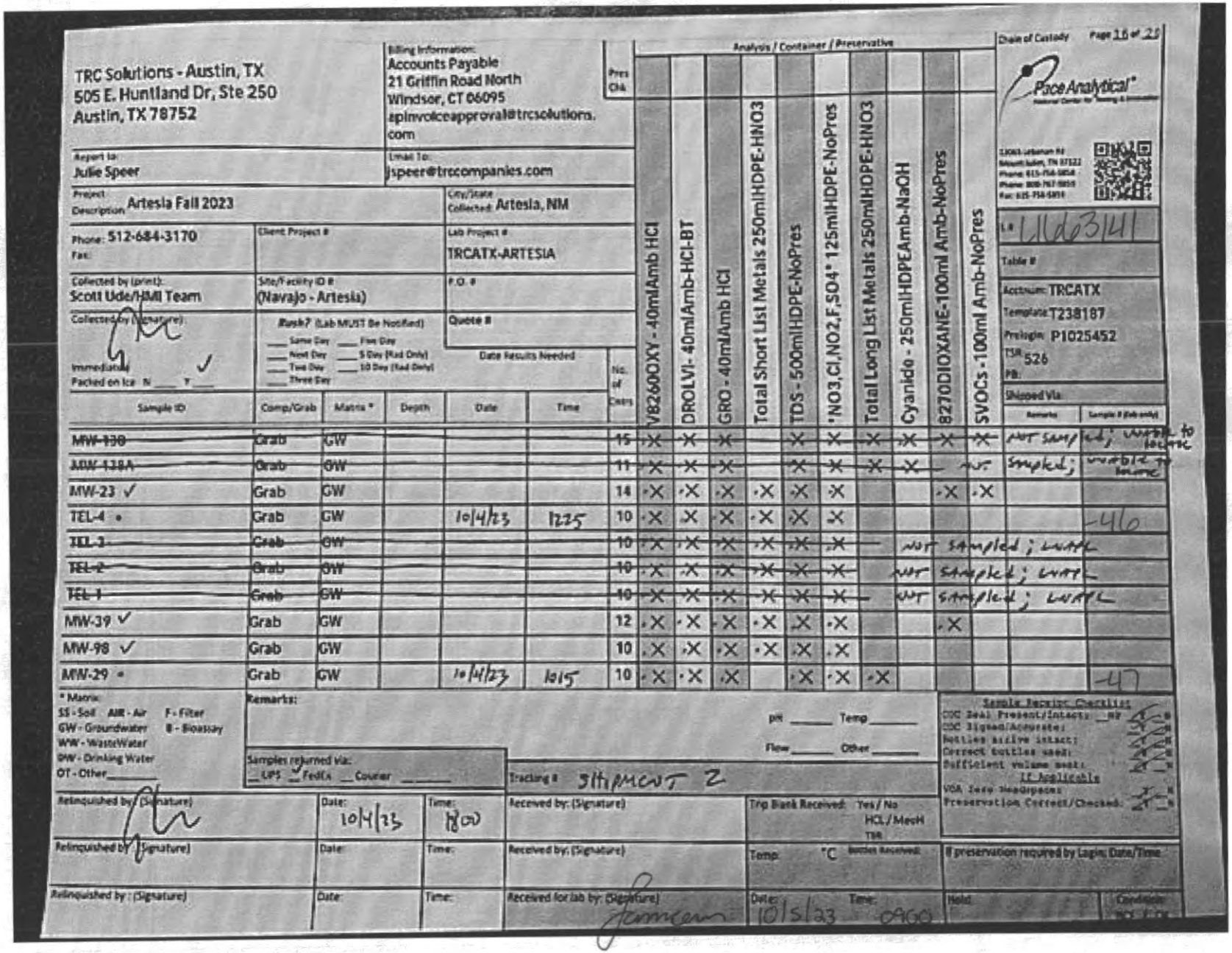
Tracking # SHIPMENT 2

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

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TSR
	10/4/23	1800		
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:
				10/5/23 0900
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:

If preservation required by Login: Date/Time

Hold: Condition:



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

Billing Information:
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Report to: Julie Speer
Email To: jspeer@trecompanies.com

Project Description: Artesia Fall 2023
City/State Collected: Artesia, NM

Phone: 512-684-3170
Client Project #
Lab Project #: TRCATX-ARTESIA

Collected by (print): Scott Ude/HMI Team
Site/Facility ID #: (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 16 of 25
Pace Analytical
LAB # 11d03141
Table #
Acctnum: TRCATX
Template: T238187
Prelogin: P1025452
TSR: 526
PB:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260DOXY - 40mlAmb HCl	DROLVI - 40mlAmb-HCl-BT	GRO - 40mlAmb HCl	Total Short List Metals 250mlHDPE-HNO3	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	8270DIOXANE-100ml Amb-NoPres	SVOCs - 100ml Amb-NoPres	Remarks	Sample # (lab only)
~~MW-130~~	Grab	GW				15	X	X	X		X	X	X	X	X	X	not sampled; unable to locate	
~~MW-130A~~	Grab	GW				11	X	X	X		X	X	X	X	not		sampled; unable to locate	
MW-23 ✓	Grab	GW				14	X	X	X	X	X	X			X	X		
TEL-4 •	Grab	GW		10/4/23	1225	10	X	X	X	X	X	X						-46
~~TEL-3~~	Grab	GW				10	X	X	X	X	X	X		not sampled; LNAPL				
~~TEL-2~~	Grab	GW				10	X	X	X	X	X	X		not sampled; LNAPL				
~~TEL-1~~	Grab	GW				10	X	X	X	X	X	X		not sampled; LNAPL				
MW-39 ✓	Grab	GW				12	X	X	X	X	X	X			X			
MW-98 ✓	Grab	GW				10	X	X	X	X	X	X						
MW-29 •	Grab	GW		10/4/23	1015	10	X	X	X		X	X	X					-47

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

Remarks:

pH ___ Temp ___ Flow ___ Other ___

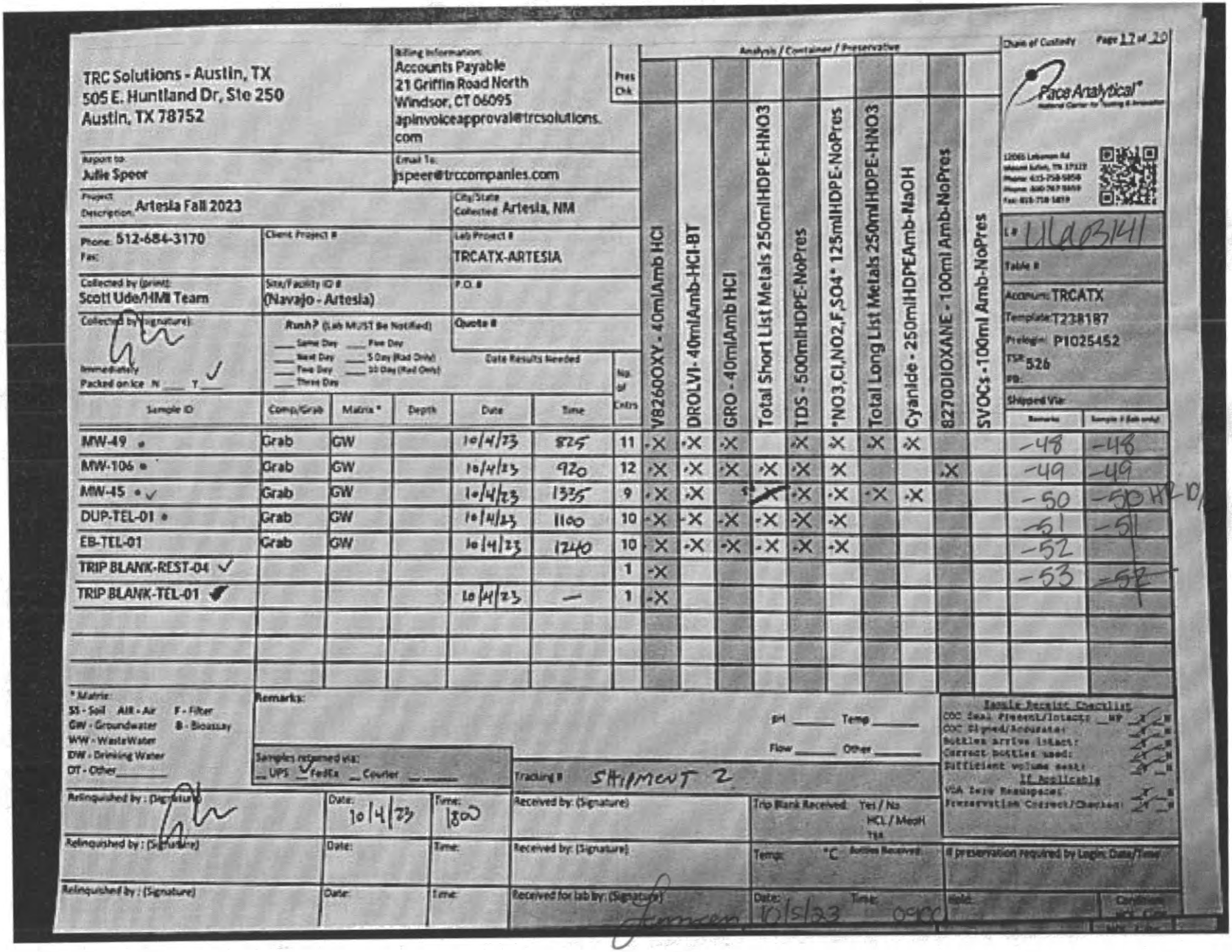
Samples returned via: ___ UPS ✓ FedEx ___ Courier ___

Tracking # SHIPMENT 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

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TSR
	10/4/23	1800		
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10/5/23 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

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Report to: Julie Speer
Email To: jspeer@trccompanies.com

Project Description: Artesia Fall 2023
City/State Collected: Artesia, NM

Phone: 512-684-3170
Client Project #
Lab Project #: TRCATX-ARTESIA

Collected by (print): Scott Ude/HMB Team
Site/Facility ID #: (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 17 of 19
Pace Analytical
Lab # 11403141
Table #
Acctnum: TRCATX
Template: T238187
Prelogin: P1025452
TSR: 526
PB:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260OXY - 40mlAmb HCl	DROLVI- 40ml/Amb-HCl-BT	GRO - 40ml/Amb HCl	Total Short List Metals 250mlHDPE-HNO3	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	8270DIOXANE - 100ml Amb-NoPres	SVOCs - 100ml Amb-NoPres	Remarks	Sample # (lab only)
MW-49	Grab	GW		10/4/23	825	11	X	X	X		X	X	X	X			-48	-48
MW-106	Grab	GW		10/4/23	920	12	X	X	X	X	X	X			X		-49	-49
MW-45 ✓	Grab	GW		10/4/23	1335	9	X	X		X	X	X	X	X			-50	-50 HP-01
DUP-TEL-01	Grab	GW		10/4/23	1100	10	X	X	X	X	X	X					-51	-51
EB-TEL-01	Grab	GW		10/4/23	1240	10	X	X	X	X	X	X					-52	
TRIP BLANK-REST-04 ✓						1	X										-53	-53
TRIP BLANK-TEL-01 ✓				10/4/23	—	1	X											

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

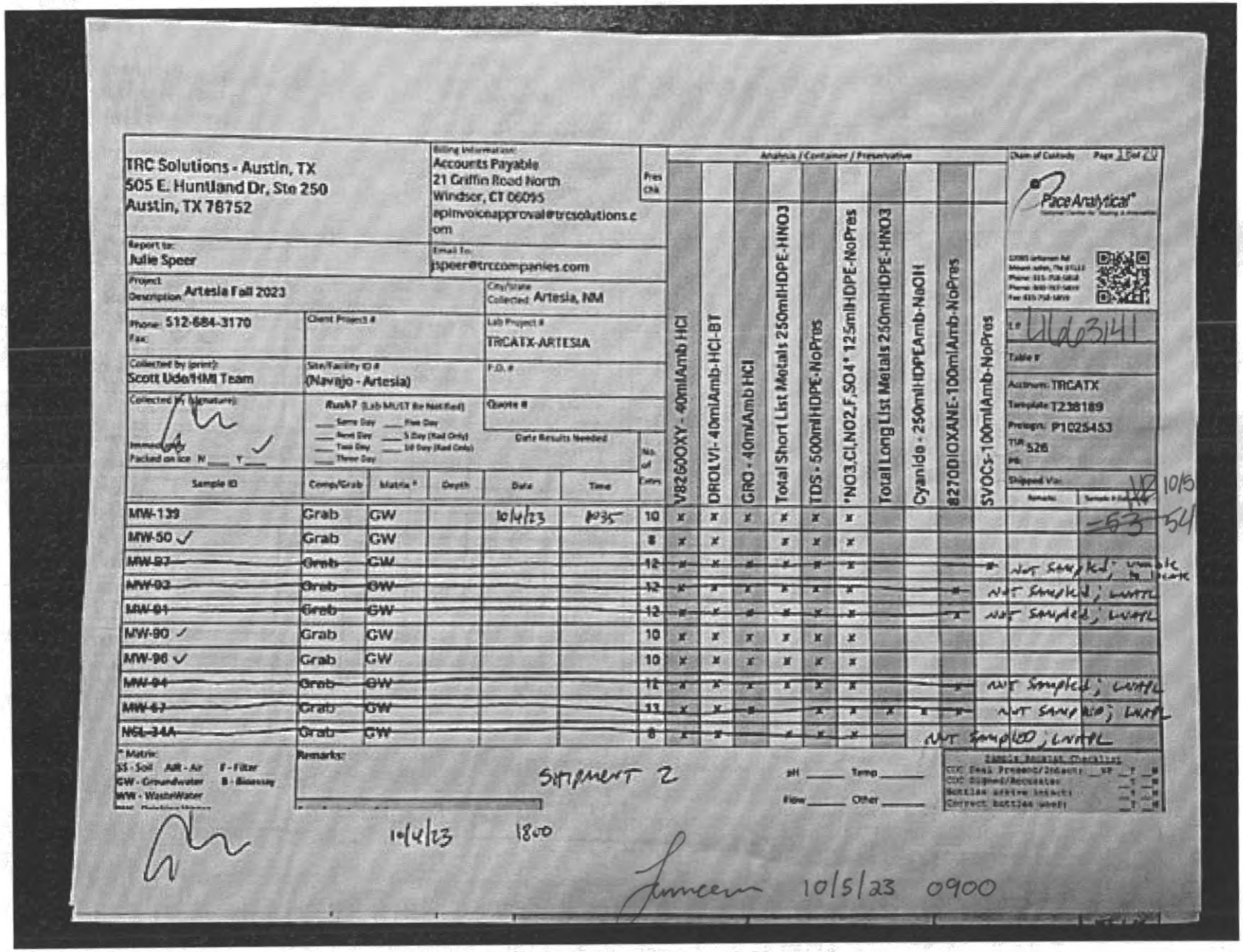
Remarks:
pH ____ Temp ____
Flow ____ Other ____

Samples returned via: ___ UPS ✓ FedEx ___ Courier ____
Tracking # SHIPMENT 2

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

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
	10/4/23	1800		
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10/5/23 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: Artesia Fall 2023
City/State Collected: Artesia, NM

Phone: 512-684-3170
Fax:

Client Project #
Lab Project #: TRCATX-ARTESIA

Collected by (print): Scott Ude/HMI Team
Site/Facility ID #: (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 1 of 2

Pace Analytical

Lab # 11603141

Table #

Acctnum: TRCATX
Template: T238189
Prelogin: P1025453
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	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	8270DIOXANE-100mlAmb-NoPres	SVOCs-100mlAmb-NoPres	Remarks	Sample # (lab only)
MW-139	Grab	GW		10/4/23	1035	10	x	x	x	x	x	x						53
MW-50 ✓	Grab	GW				8	x	x		x	x	x						54
~~MW-87~~	~~Grab~~	~~GW~~				~~12~~	x	x	x	x	x	x				x	NOT SAMPLED; UNABLE TO LOCATE	
~~MW-93~~	~~Grab~~	~~GW~~				~~12~~	x	x	x	x	x	x				x	NOT SAMPLED; UNABLE	
~~MW-91~~	~~Grab~~	~~GW~~				~~12~~	x	x	x	x	x	x				x	NOT SAMPLED; UNABLE	
MW-90 ✓	Grab	GW				10	x	x	x	x	x	x						
MW-96 ✓	Grab	GW				10	x	x	x	x	x	x						
~~MW-94~~	~~Grab~~	~~GW~~				~~12~~	x	x	x	x	x	x				x	NOT SAMPLED; UNABLE	
~~MW-67~~	~~Grab~~	~~GW~~				~~11~~	x	x	x		x	x	x	x	x		NOT SAMPLED; UNABLE	
~~NSL-34A~~	~~Grab~~	~~GW~~				~~8~~	x	x			x	x					NOT SAMPLED; UNABLE	

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater

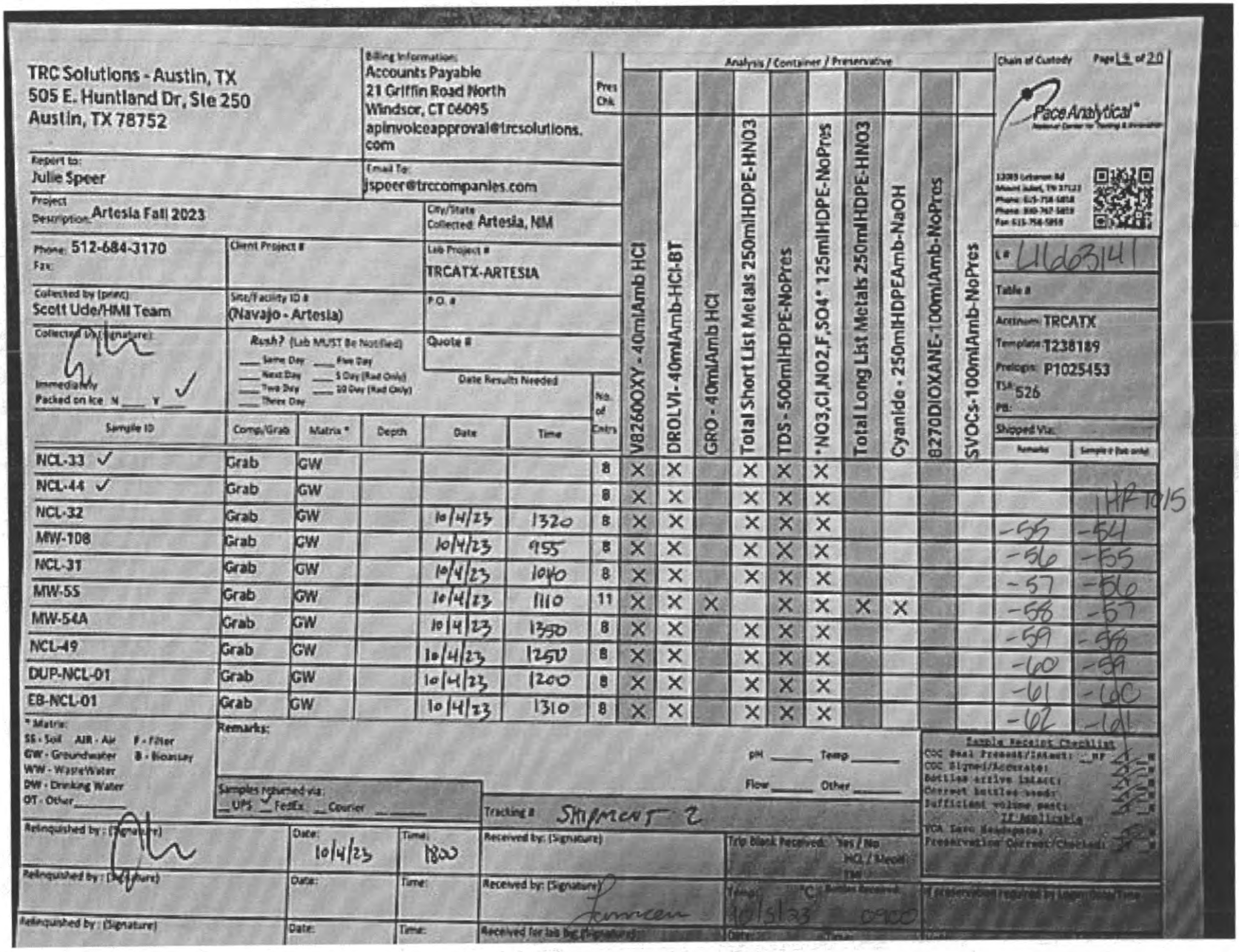
Remarks: SHIPMENT 2

pH ____ Temp ____
Flow ____ Other ____

Sample Receipt Checklist
COC Seal Present/Intact: ___Y ___N
COC Signed/Accurate: ___Y ___N
Bottles arrive intact: ___Y ___N
Correct bottles used: ___Y ___N

10/4/23 1800

10/5/23 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

Report to: Julie Speer
Email To: jspeer@trccompanies.com
Project Description: Artesia Fall 2023
City/State Collected: Artesia, NM
Phone: 512-684-3170
Client Project #
Lab Project #: TRCATX-ARTESIA
Collected by (print): Scott Ude/HMI Team
Site/Facility ID #: (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 9 of 20

Pace Analytical

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	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	8270DIOXANE-100mlAmb-NoPres	SVOCs-100mlAmb-NoPres	Remarks	Sample # (lab only)
NCL-33 ✓	Grab	GW				8	X	X		X	X	X						
NCL-44 ✓	Grab	GW				8	X	X		X	X	X						HF 10/5
NCL-32	Grab	GW		10/4/23	1320	8	X	X		X	X	X						
MW-108	Grab	GW		10/4/23	955	8	X	X		X	X	X					-55	-54
NCL-31	Grab	GW		10/4/23	1040	8	X	X		X	X	X					-56	-55
MW-55	Grab	GW		10/4/23	1110	11	X	X	X		X	X	X	X			-57	-56
MW-54A	Grab	GW		10/4/23	1350	8	X	X		X	X	X					-58	-57
NCL-49	Grab	GW		10/4/23	1250	8	X	X		X	X	X					-59	-58
DUP-NCL-01	Grab	GW		10/4/23	1200	8	X	X		X	X	X					-60	-59
EB-NCL-01	Grab	GW		10/4/23	1310	8	X	X		X	X	X					-61	-60
																	-62	-61

L# L1663141
Table #
Acctnum: TRCATX
Template: T238189
Prelogin: P1025453
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 # SHIPMENT 2

Relinquished by: (Signature) Date: 10/4/23 Time: 1800 Received by: (Signature)

Relinquished by: (Signature) Date: Time: Received by: (Signature)

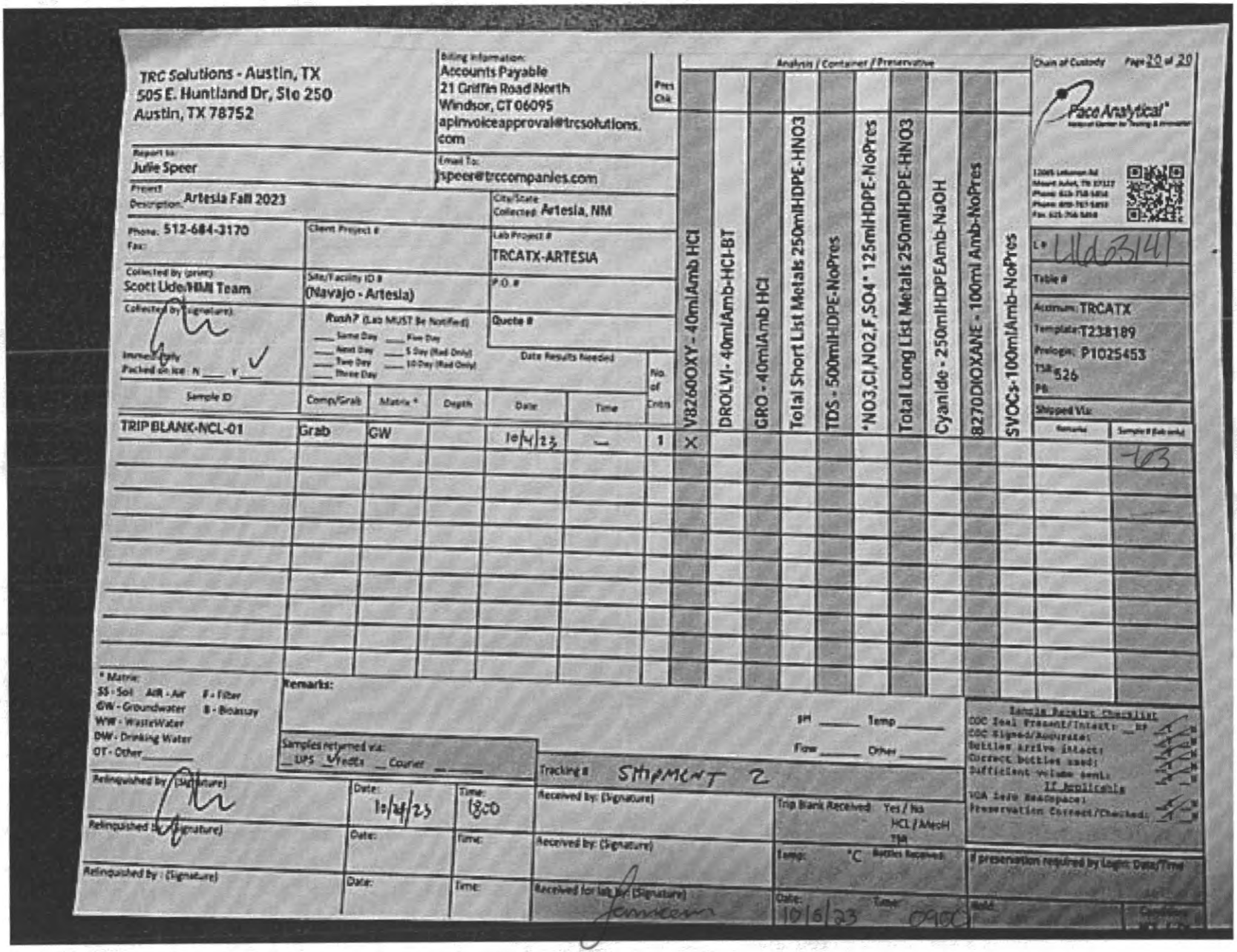
Relinquished by: (Signature) Date: Time: Received for lab by: (Signature) Date:

Trip Blank Received: Yes / No HCL / MeoH TBR

Temp: 10/5/23 °C Bottles Received: 0900

If preservation required by Login: Date/Time

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



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 2023
City/State Collected: Artesia, NM
Phone: 512-684-3170
Client Project #
Lab Project #: TRCATX-ARTESIA
Collected by (print): Scott Lide/HMI Team
Site/Facility ID #: (Navajo - Artesia)
P.O. #
Collected by (signature):
Rush? (Lab MUST Be Notified): Same Day, Next Day, Two Day, Three Day, Five Day, 5 Day (Rad Only), 10 Day (Rad Only)
Quote #
Date Results Needed
Immediately Packed on Ice: N ___ Y ___

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	TDS - 500mlHDPE-NoPres	*NO3,Cl,NO2,F,SO4* 125mlHDPE-NoPres	Total Long List Metals 250mlHDPE-HNO3	Cyanide - 250mlHDPEAmb-NaOH	8270DIOXANE - 100ml Amb-NoPres	SVOCs-100mlAmb-NoPres	Remarks	Sample # (lab only)
TRIP BLANK-NCL-01	Grab	GW		10/4/23	—	1	X											03

Analysis / Container / Preservative

Chain of Custody Page 20 of 20

Pace Analytical

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

Lab # LL623141
Table #
Acctnum: TRCATX
Template: T238189
Prelogin: P1025453
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 # SHIPMENT 2

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

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	10/5/23	1800	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)
			Jamieson

Trip Blank Received: Yes / No
HCL / MeoH
TSR
Temp: °C Bottles Received:
Date: 10/6/23 Time: 0900

If preservation required by Login: Date/Time

Hold: Condition

Page 1256 of 1657

LLD03141

Tracking Numbers		CCA8 Temperature
5671 5382 5430		3.5+0=3.5
5882 7563 3703		3.8+0=3.8
6357 9918 0543		0.1+0=0.1
5719 6175 6461		2.0+0=2.0
6053 3811 5304		3.0+0=3.0
5671 5382 5440		5.2+0=5.2
6357 9919 3966		5.7+0=5.7

Name

Date

Received by OCD: 6/12/2024 3:31:05 PM

Released to Imaging: 6/28/2024 11:23:28 AM

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10/5-NCF-L1663141 TRCATX

R5

Time estimate: oh **Time spent:** oh

Members

Hailey Melson (responsible) Christopher McCord

Due on *9 October 2023 8:00 AM* for target *Done*

- [x] Login Clarification needed
- [ ] Chain of custody is incomplete
- [ ] Please specify Metals requested
- [ ] Please specify TCLP requested
- [ ] Received additional samples not listed on COC
- [ ] Sample IDs on containers do not match IDs on COC
- [ ] Client did not "X" analysis
- [ ] Chain of Custody is missing
- [ ] If no COC: Received by:_____
- [ ] If no COC: Date/Time:_____
- [ ] If no COC: Temp./Cont.Rec./pH:_____
- [ ] If no COC: Carrier:_____
- [ ] If no COC: Tracking #:_____
- [ ] Client informed by call
- [ ] Client informed by Email
- [ ] Client informed by Voicemail
- [x] Date/Time: 10/6/23 16:04
- [x] PM initials: CM
- [ ] Client Contact:_____

Comments

Hailey Melson — *5 October 2023 5:05 PM*

Missing IDs: MW-88, MW-22A, MW-10, MW-123, MW-7A, DUP-EP-01, DUP-EP-02, TRIP BLANK-EP-02, RW-2, TEL-4, MW-29, MW-49, MW-106, DUP-TEL-01, TRIP BLANK-TEL-1

Christopher McCord — *5 October 2023 5:36 PM*

Missing two coolers it looks like. We should have received 9 and only 7 tracking numbers are listed on the COC.

Hailey Melson — *6 October 2023 3:56 PM*

All missing samples received today. Nitrates are out of hold for most of the samples.

Christopher McCord — *6 October 2023 4:04 PM*

Run as received.

Received by OCD: 6/12/2024 3:31:05 PM

Released to Imaging: 6/28/2024 11:23:28 AM

Page 1258 of 1657

Hailey Melson *6 October 2023 4:27 PM*

Done

Received by OCD: 6/12/2024 3:31:05 PM

Released to Imaging: 6/28/2024 11:23:28 AM

From: Helbert, Dana
To: Chris McCord
Cc: Morin, Kristen; Speer, Julie
Subject: RE: [EXTERNAL] Pace Analytical National Login for Artesia Fall 2023 L1663141
Date: Monday, October 09, 2023 2:41:21 PM

CAUTION: This email originated from outside Pace Analytical. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi Chris, please see below for minor changes to both logins for Artesia:

ln01L1662588:
MW-62R: Remove all analyses (my mistake, should have not been on bottle order)

ln01L1663141:
MW-116: Change short list metals to long list metals
RW-2: Remove all analyses (my mistake, should have not been on bottle order)

Thanks! Please let me know if you have any questions!

Dana Helbert, P.G. (TX, NC)
Geologist, Assistant Project Manager

505 E. Huntland Drive, Suite 250, Austin, TX 78752
Direct (Preferred): 713.306.9550 | Office: 512.202.6823 |
dhelbert@trccompanies.com
LinkedIn | Twitter | Blog | TRCcompanies.com

-----Original Message-----
From: Chris McCord <chris.mccord@pacelabs.com>
Sent: Sunday, October 8, 2023 2:10 AM
To: Helbert, Dana <dhelbert@trccompanies.com>; Morin, Kristen <kmorin@trccompanies.com>; Speer, Julie <jspeer@trccompanies.com>
Subject: [EXTERNAL] Pace Analytical National Login for Artesia Fall 2023 L1663141

This is an External email. Do not click links or open attachments unless you validate the sender and know the content is safe.

ALWAYS hover over the link to preview the actual URL/site and confirm its legitimacy.

"Privileged and Confidential"

Thank you for choosing Pace National! Please find enclosed PDF files containing your laboratory login confirmation and chain of custody.

Pace National is leading the laboratory industry with our On-line Data Management tools. Please contact your Project Manager to learn how to create historical Excel tables or access data in real time using powerful and intuitive software that is only available at https://www.pacenational.com/.

Visit Pace National's secure data management web site - myData - for all your reporting and data management needs at https://www.pacenational.com/login

Pace National ... "Your Lab of Choice"

Chris McCord
Technical Service Representative
615-773-3281

Pace Analytical National

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P Please consider the environment before printing this email

December 11, 2023

Julie Speer, P.G.
Senior Project Manager
TRC
505 E. Huntland Drive, Suite 250,
Austin, TX 78752
Ph: 512.431.8184

Subject: Letter Report for forensic chemical analysis of RW-11-1 non-aqueous phase liquid (NAPL) collected by TRC at the Holly Frontier Refinery in Artesia, New Mexico.

Dear Ms. Speer,

This letter report summarizes the analysis of RW-11-1 NAPL for chemical fingerprinting collected at the Holly Frontier Refinery in Artesia, New Mexico. The objective of this work described herein was to chemically characterize the NAPL hydrocarbon signature and describe the degree of weathering the sample has undergone.

Sampling and Analysis

This NAPL sample RW-11-1 was collected by TRC personnel on August 29, 2023. After collection, the sample was stored in a secure location and shipped by overnight carrier to Newfield's' alliance laboratory, Alpha Analytical Laboratory (Alpha) for forensic chemical analysis. Upon receipt, the sample was logged into Alpha's laboratory information management system (LIMS) and given a unique laboratory identification. The sample was stored in a limited access refrigerator at 4°C until processed for analysis. Summary information of the sample collected is provided in the table below.

Client ID	Alpha ID	Matrix	Date Collected	Date Received	Dual Whole Oil Fingerprint 8015M/8270M GC/FID/MS	PIANO Volatiles 8260M
RW-11-1	L2350302-01	NAPL	8/29/23	8/30/23	X	X

The NAPL sample was analyzed using a whole oil fingerprinting method designed specifically for the forensic analysis of petroleum, as described by Douglas et.al. (2015).[1] Additional PIANO volatiles were initiated for further assessment.

(1) *Whole Oil Fingerprinting*: The NAPL sample was analyzed by a "whole oil" gas chromatography technique, using tandem high resolution gas chromatography-flame ionization detection (GC/FID) and high-resolution gas chromatography-mass spectrometry (GC/MS) following adaptations of modified EPA Method 8015 and modified EPA Method 8270, respectively. These analyses provide detailed information about the occurrence and distribution of hydrocarbons over the C_4 to C_{44+} carbon range. The resulting GC profiles depict the type or types of petroleum products in the NAPL.

[1] Douglas, G.D., Emsbo-Mattingly, S.D., Stout, S.A., Uhler, A.D., and McCarthy, K.J. (2007) Chemical fingerprinting of hydrocarbons and polychlorinated biphenyls. In: *Introduction to Environmental Forensics, 2nd Ed.*, B. Murphy and R. Morrison, Eds., Academic Press, New York, pp. 317-459

(2) *PIANO Quantification and Fingerprinting*: a modified EPA Method 8260 purge-and-trap gas chromatography with mass spectrometry (GC/MS) method was used to measure 90+ C_5-C_{12} volatile, gasoline range compounds from five major hydrocarbon classes: paraffins, isoparaffins, aromatics, naphthenes, and olefins (PIANO). In addition, various oxygenated compounds commonly found in oxygenated and reformulated gasolines were analyzed including *tert*-butyl alcohol (TBA), methyl-*tert*-butyl ether (MTBE), di-isopropyl ether (DIPE), ethyl-*tert*-butyl ether (ETBE), and *tert*-amyl-methyl ether (TAME). Lead scavengers historically used in leaded gasoline (1,2-dichloroethane and 1,2-dibromoethane) and various volatile sulfur species are also targeted. A full list of the volatile hydrocarbons measured, and compound name abbreviations used in graphical presentation of data is provided in **Table 2**.

The data from these analyses was used to determine the type(s) of petroleum that composed the sample and the degree of weathering the petroleum has undergone since its release.

Results and Discussion

Resulting data underwent several levels of review. NewFields performed an independent review of the data generated by Alpha Laboratory, to ensure that data quality objectives were satisfied.

The complete Alpha Environmental Testing Report (ETR) including all sample preparation data and chromatograms is maintained on file by NewFields (ETR L2350302).

Forensic Analysis

The fundamental tool for forensic chemical characterization of NAPL is gas chromatography and the basic output from that analysis, the gas chromatogram. The gas chromatogram describes the occurrence and relative distribution of petroleum hydrocarbon compounds in a sample. The chromatogram depicts, from left to right, the distribution of the most to least volatile hydrocarbons in a sample[2]. The peaks that appear in the chromatogram represent discrete compounds, the height of which is proportional to the abundance of those compounds in the petroleum. Every petroleum product has a relatively unique and recognizable distribution of hydrocarbons that are the result of the products refining and blending characteristics. It is this fundamental gas chromatographic feature – the GC "fingerprint" – that allows the environmental chemist to identify and distinguish one petroleum product from another. Though weathering processes can alter the chromatographic signature of hydrocarbons, the intrinsic product characteristics of even weathered products can usually be inferred from a sample's chromatographic "fingerprint".

General Composition of the NAPL Sample RW-11-1 Whole Oil Fingerprint

Figure 1 provides the whole oil GC/FID fingerprint for the NAPL sample RW-11-1. The whole oil gas chromatogram of RW-11-1 reveals that the NAPL sample is composed predominantly of automotive gasoline with a lesser contribution of middle distillate/diesel fuel. There is no contribution of residual fuel such as lubricating oil or waste oil in the C_{26+} range. **Figure 1** also includes the whole oil GC/FID fingerprints for a regular grade gasoline, heavy fuel oil, kerosene, and diesel laboratory reference products to provide examples of fresh petroleum products in the associated carbon ranges. These unique characteristics are discussed further below.

The gas chromatogram for the RW-11-1 sample **(Figure 1, Panel 1)** exhibits resolved peaks in the C_5 to C_{12} range in proportions that are consistent with automotive gasoline **(Figure 1, Panel 2)**.[3] The gasoline

[2] The elution order (e.g., retention time) of peaks on the chromatogram is a function of volatility with the most volatile compounds eluting early in the GC run (e.g., n-C_{10}), and the less volatile hydrocarbons eluting later in the GC run (e.g., n-C_{30}).
[3] Stout, S.A., Douglas, G.S., and Uhler, A.D. (2006) Automotive gasoline. In: B. Murphy and R. Morrison, Eds., Environmental Forensics: A Contaminant Specific Approach. Elsevier Publishing Co., San Francisco, CA. pp. 466-531

component appears to have experienced weathering by both primarily evaporation and water-washing. The prominent compounds present include isooctane along with other trimethylpentane (TMP) isomers, and monoaromatics, including toluene, ethylbenzene, xylenes and numerous C3- and C4-alkylbenzenes. The dominant weather resistant naphthenic compounds (such as methylcyclopentane, cyclohexane and methylcyclohexane) are evident in the NAPL sample relative to other more soluble aromatic compounds such as benzene, toluene and xylenes.

In addition, the chromatogram for RW-11-1 reveals evidence of a secondary component identified as a middle distillate (i.e., diesel fuel, fuel oil #2) which consists of a mixture of various hydrocarbons in the C_9 to C_{26} range. There is a broad unresolved complex mixture (UCM: a mixture of hundreds of hydrocarbon chemicals that are not resolved by gas chromatography which appear as a broad "hump" in the chromatogram). Fresh middle distillates like what has been included in **Figure 1, Bottom Panel** exhibit evidence of the regular series of peaks that are identified as normal (straight-chained) and branched-chain alkanes.[4] These normal alkanes are absent in RW-11-1 indicating a weathered middle distillate component present.

Apportionment of the percentages of automotive gasoline and middle distillate material in the NAPL was calculated by manual range integrations of the chromatograms splitting up the proportions of gasoline-range to diesel-range hydrocarbons. There is some overlap in the carbon ranges of the gasoline and the diesel fuel that occurs in the C_9-C_{12} range, therefore the apportionment should be considered as a reasonable estimate of true composition. These manual range integration areas allowed for the following percentages calculations (**Table 1**) found below. The bulk chemical makeup of the NAPL studied is summarized in the following sections.

Table 1. Whole Oil Estimated Carbon Ranges Identified as % Gasoline and % Diesel Range Hydrocarbons

Client ID	% Gasoline	% Diesel
RW-11-1	59	41

% Gasoline Range Integration (After Solvent to after C_{10})
% Diesel Range Integration (After C_{10} to after C_{26})

PIANO Volatiles NAPL Sample RW-11-1 Summary

The PIANO histogram of RW-11-1 is presented in **Figure 2, Panel 1**. The overall composition of the automotive gasoline is consistent with modern, unleaded gasoline as observed in the regular grade gasoline laboratory reference sample **Figure 2, Panel 2**.

The PIANO analysis includes the five modern oxygenated compounds analyzed (e.g., TBA, MTBE, DIPE, ETBE, TAME). None of the five modern oxygenates were detected in NAPL RW-11-1. Fresh (unweathered) oxygenated gasoline historically contained these compounds in the 10,000 to 100,000+ ppm range. These oxygenate compounds are very water-soluble and partition from gasoline into groundwater relatively quickly. The absence of these water-soluble compounds in NAPL sample does not rule out that the fresh gasoline could have contained oxygenates at one time.

[4] Stout, S.A. and Wang, Z. (2007). Chemical fingerprinting of spilled or discharged petroleum: Methods and factors affecting petroleum fingerprints in the environment. In Wang, Z. and Stout, S. (eds). Oil Spill Environmental Forensics. Fingerprinting and Source Identification. Academic Press, Burlington MA.

The use of these ethers was banned in U.S. gasolines since (effectively) the Spring 2006 following EPA's elimination of the oxygen requirement in gasolines.[5] Many states banned the use of MTBE in years prior although still allowed incidental concentrations < 5000 mg/kg. Thus, despite the effective or actual bans on MTBE, the incidental occurrence of TBA, MTBE, DIPE, ETBE and/or TAME in modern gasolines in not unexpected due to ethers continuing production in the U.S. (mostly for export).

The RW-11-1 alkylate component differs greatly from the fresh dispensed gasoline reference sample included in **Figure 2**. Isooctane is present at 30,600 ppm in RW-11-1, while the laboratory reference dispensed gasoline sample contained a considerably lower concentration of 15,800 ppm. This observation may be evidence for a possible higher-octane gasoline being identified in the NAPL RW-11-1.

Weathering state of the gasoline component of RW-11-1

The three major weathering processes that can affect the composition of fugitive gasoline in the subsurface are evaporation, water washing, and biodegradation. The chromatographic data for the NAPL RW-11-1 is consistent with fuel that has undergone considerable environmental alteration.
The further quantitative volatiles analysis that was performed on the NAPL aids in confirming the qualitative fingerprint observation discussed above. **Figure 2, Panel 2** provides an example of fresh dispensed gasoline to assist in observing the loss of the most volatile fraction of the gasoline present in NAPL sample RW-11-1 (**Figure 2, Panel 1**).

The most volatile chemical measured in gasoline is isopentane. The isopentane concentration in NAPL RW-11-1 was 2,450 mg/Kg. This value is considerably less than the nominal range of isopentane in fresh gasoline (71,000-88,000 mg/kg[6])—a result of evaporative weathering of the most volatile components in gasoline. The reference gasoline sample presented herein contained 84,800 mg/kg isopentane.

The NAPL RW-11-1 has experienced a considerable amount of water washing. The most water-soluble hydrocarbon compounds in gasoline are monoaromatic compounds (BTEX), with benzene (solubility=1,440 ppm at 25˚C) being the most soluble of the group and is present at 350 parts per million (ppm). Benzene concentrations vary in gasoline but are typically found in the 6,500-8,000-ppm range. The reference gasoline sample presented herein contained 10,200 mg/kg benzene. The diminished benzene concentration suggests gasoline that has experienced significant water washing.

The gasoline fraction of RW-11-1 has undergone water washing, i.e., removal of water-soluble gasoline constituents through contact with water infiltrating vadose zone soils, or through direct contact with groundwater. Fresh gasoline contains abundant benzene and toluene relative to ethylbenzene and xylene. Benzene and toluene preferentially dissolve from NAPL into groundwater, leading to diminishing values for the ratio as gasoline weathers. Kaplan (1997) reports ratio values between 0.64 and 1.13 for fresh, unleaded gasoline. NewFields research library of dispensed gasoline fuels shows that 90% of its 100 samples have B+T/E+X that fall between 0.6 and 1.5, with a median value of 0.9. The B+T/E+X ratio for the NAPL RW-11-1 was 0.04, exhibiting a highly water washed gasoline component present.

Weathering Features of the Middle Distillate in RW-11-1 NAPL

The weathered middle distillate fraction makes up 41% of NAPL RW-11-1. The normal alkane n-C_{17} and the branched chain isoprenoid pristane are abundant in fresh diesel fuel (and other mid-boiling petroleum products and crude oils). The n-alkane n-C_{17} can be preferentially biodegraded compared to the more stable isoprenoid pristane identified in **Figure 1, Panel 1** relative to the reference fresh diesel fuel

[5] Energy Policy Act (2005)
[6] Potter, T.L.and Simmons, K.E. (1998). Total Petroleum Hydrocarbon Criteria Working Group Series. Volume 2. Composition of petroleum mixtures. Amherst Scientific Publishers, Amherst MA.

presented in **Figure 1, Panel 5**. Thus, the ratio decreases with increasing degree of biodegradation. This ratio is routinely used as an indicator of petroleum weathering state.[7,3] The ratio of n-C_{17}/pristane in fresh diesel fuel has been documented to be approximately 2.0. [8] The n-C_{17}/pristane ratio measured in the RW-11-1 NAPL sample was 0.00 suggesting the middle distillate component of the sample aliquot collected is highly weathered. This ratio was calculated manually from the integration area values of the whole oil fingerprints.

Conclusion

The requested analysis of NAPL sample RW-11-1 for chemical fingerprinting collected at the Holly Frontier Refinery in Artesia, New Mexico allows for the following conclusions:

- The RW-11-1 NAPL sample is composed predominantly of automotive gasoline (59%) with less amount of middle distillate/diesel fuel (41%).
- The gasoline and diesel components of the RW-11-1 NAPL both appear weathered.
- The gasoline component of the RW-11-1 NAPL is likely predominantly modern, alkylate rich fuel.
- Organic Lead and PAH analysis were not requested on this NAPL sample.

Please do not hesitate to contact me if you have any questions regarding this letter.

Sincerely,

Ted Healey

Ted Healey
Senior Scientist

[7] Kaplan, I.R. (2003). Age dating of environmental organic residues. Environ. Forensics. 4: 95-141.
[8] Morrison, R. Environmental Forensics: Principles and Applications. 1999. CRC Press.

Table 2. Volatile Hydrocarbon Compounds Measured in the Study Samples

Abbr.	Analytes	Abbr.	Analytes
IP	Isopentane	C8	Octane
1P	1-Pentene	12DBE	1,2-Dibromoethane
2M1B	2-Methyl-1-butene	EB	Ethylbenzene
C5	Pentane	2ETHIO	2-Ethylthiophene
T2P	2-Pentene (trans)	MPX	p/m-Xylene
C2P	2-Pentene (cis)	1N	1-Nonene
TBA	Tertiary butanol	C9	Nonane
CYP	Cyclopentane	STY	Styrene
23DMB	2,3-Dimethylbutane	OX	o-Xylene
2MP	2-Methylpentane	IPB	Isopropylbenzene
MTBE	MTBE	PROPB	n-Propylbenzene
3MP	3-Methylpentane	1M3EB	1-Methyl-3-ethylbenzene
1HEX	1-Hexene	1M4EB	1-Methyl-4-ethylbenzene
C6	Hexane	135TMB	1,3,5-Trimethylbenzene
DIPE	Diisopropyl Ether	1D	1-Decene
ETBE	Ethyl Tertiary Butyl Ether	1M2EB	1-Methyl-2-ethylbenzene
22DMP	2,2-Dimethylpentane	C10	Decane
MCYP	Methylcyclopentane	124TMB	1,2,4-Trimethylbenzene
24DMP	2,4-Dimethylpentane	SECBUT	sec-Butylbenzene
12DCA	1,2-Dichloroethane	1M3IPB	1-Methyl-3-isopropylbenzene
CH	Cyclohexane	1M4IPB	1-Methyl-4-isopropylbenzene
2MH	2-Methylhexane	1M2IPB	1-Methyl-2-isopropylbenzene
B	Benzene	IN	Indan
23DMP	2,3-Dimethylpentane	1M3PB	1-Methyl-3-propylbenzene
THIO	Thiophene	1M4PB	1-Methyl-4-propylbenzene
3MH	3-Methylhexane	BUTB	n-Butylbenzene
TAME	TAME	12DM4EB	1,2-Dimethyl-4-ethylbenzene
1H	1-Heptene/1,2-DMCP (trans)	12DEB	1,2-Diethylbenzene
ISO	Isooctane	1M2PB	1-Methyl-2-propylbenzene
C7	Heptane	14DM2EB	1,4-Dimethyl-2-ethylbenzene
MCYH	Methylcyclohexane	C11	Undecane
25DMH	2,5-Dimethylhexane	13DM4EB	1,3-Dimethyl-4-ethylbenzene
24DMH	2,4-Dimethylhexane	13DM5EB	1,3-Dimethyl-5-ethylbenzene
223TMP	2,2,3-Trimethylpentane	13DM2EB	1,3-Dimethyl-2-ethylbenzene
234TMP	2,3,4-Trimethylpentane	12DM3EB	1,2-Dimethyl-3-ethylbenzene
233TMP	2,3,3-Trimethylpentane	1245TMP	1,2,4,5-Tetramethylbenzene
23DMH	2,3-Dimethylhexane	PENTB	Pentylbenzene
3EH	3-Ethylhexane	C12	Dodecane
2MHEP	2-Methylheptane	N0	Naphthalene
3MHEP	3-Methylheptane	BT0	Benzothiophene
T	Toluene	MMT	MMT
2MTHIO	2-Methylthiophene	C13	Tridecane
3MTHIO	3-Methylthiophene	2MN	2-Methylnaphthalene
1O	1-Octene	1MN	1-Methylnaphthalene

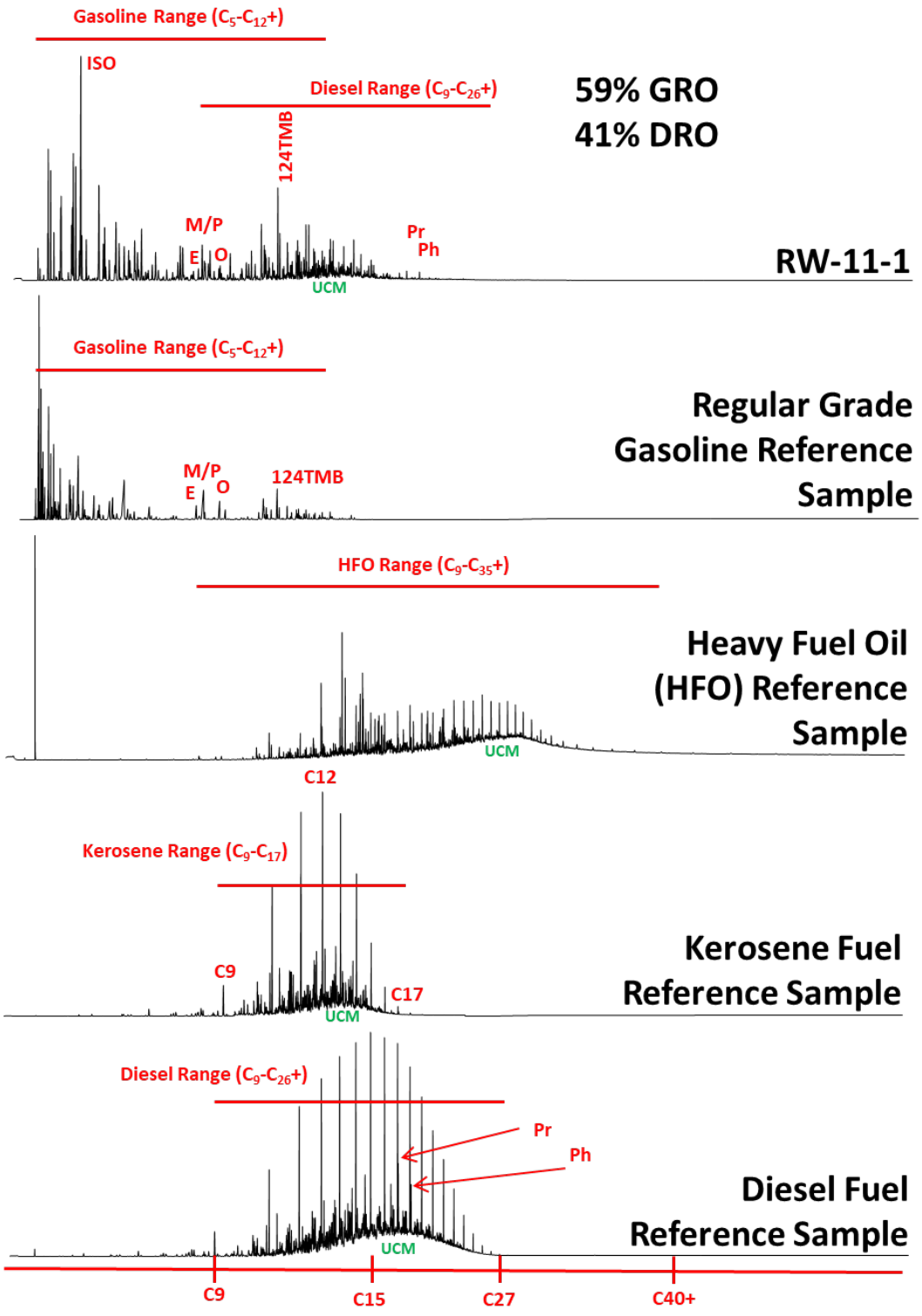


Figure 1. Whole oil GC/FID chromatograms of NAPL sample RW-11-1 and Laboratory Reference Products.

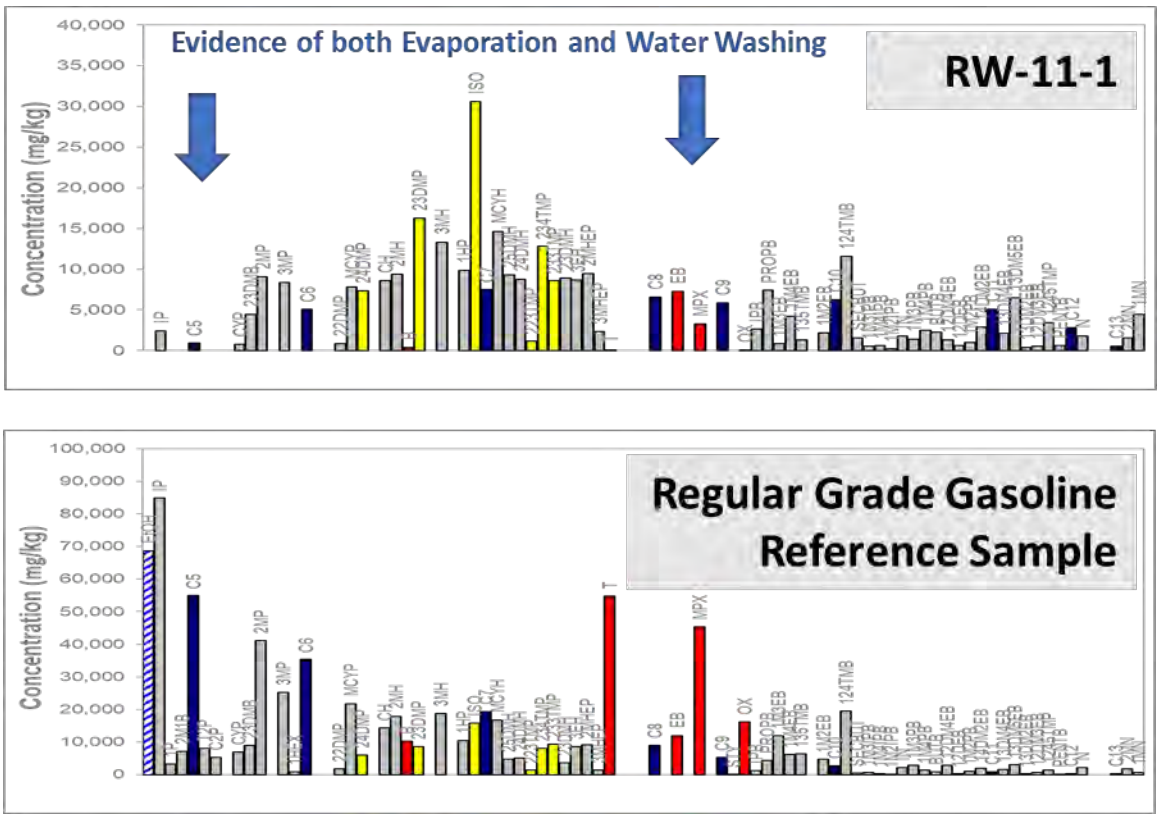


Figure 2. Histograms of the volatile (gasoline range) PIANO compounds that compose the NAPL sample RW-11-1 along with a Dispenser Regular Grade Gasoline Laboratory Reference Sample.
Key code: Blue – normal alkanes; Red – BTEX compounds, Yellow – octane isomers

Attachment

ANALYTICAL REPORT

Lab Number:	L2350302
Client:	NewFields 300 Ledgewood Place Suite 205 Rockland, MA 02370
ATTN:	Ted Healey
Phone:	(781) 264-4950
Project Name:	HOLLY FRONTIER
Project Number:	212C-HN-02363
Report Date:	10/18/23

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Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0825), DoD (L2474), FL (E87814), IL (200081), IN (C-MA-04), KY (KY98046), LA (85084), ME (MA00030), MD (350), MI (99110) , NJ (MA015), NY (11627), NC (685), OH (CL106), OR (MA-0262), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #525-23-107-88708), USFWS (Permit #206964).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Released to Imaging: 6/28/2024 11:23:28 AM

Project Name: HOLLY FRONTIER
Project Number: 212C-HN-02363

Lab Number: L2350302
Report Date: 10/18/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2350302-01	RW-11-1	OIL	ARTESIA, NM	08/29/23 15:20	08/30/23

Project Name:	HOLLY FRONTIER	**Lab Number:**	L2350302
Project Number:	212C-HN-02363	**Report Date:**	10/18/23

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	HOLLY FRONTIER	**Lab Number:**	L2350302
Project Number:	212C-HN-02363	**Report Date:**	10/18/23

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

L2350302-01D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

L2350302-01D2: The sample was re-analyzed on dilution in order to quantitate the results within the calibration range. The result(s) should be considered estimated, and are qualified with an E flag, for any compound(s) that exceeded the calibration range in the initial analysis. The re-analysis was performed only for the compound(s) that exceeded the calibration range.

The WG1835678-6 Method Blank, associated with L2350302-01D and -01D2, has concentrations below the reporting limits and "J" qualified. Associated field sample results are "B" qualified if the concentrations are less than 10x the concentrations in the blank.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Susan E O'Neil Susan O' Neil

Title: Technical Director/Representative Date: 10/18/23

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ORGANICS

VOLATILES

Project Name: HOLLY FRONTIER
Lab Number: L2350302
Project Number: 212C-HN-02363
Report Date: 10/18/23

SAMPLE RESULTS

Lab ID: L2350302-01 D2
Client ID: RW-11-1
Sample Location: ARTESIA, NM
Date Collected: 08/29/23 15:20
Date Received: 08/30/23
Field Prep: Not Specified

Sample Depth:
Matrix: Oil
Analytical Method: 1,8260D(M)
Analytical Date: 10/12/23 06:35
Analyst: RAY
Percent Solids: Results reported on an 'AS RECEIVED' basis.

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PIANO Volatile Organics by GC/MS - Mansfield Lab						
2-Methylpentane	9070		mg/kg	1940	525.	200
3-Methylpentane	8390		mg/kg	1940	307.	200
Methylcyclopentane	7820		mg/kg	1940	259.	200
2,4-Dimethylpentane	7350		mg/kg	1940	239.	200
2-Methylhexane	9360		mg/kg	1940	451.	200
2,3-Dimethylpentane	16300		mg/kg	1940	256.	200
3-Methylhexane	13300		mg/kg	1940	310.	200
Isooctane	30600		mg/kg	1940	211.	200
Methylcyclohexane	14600		mg/kg	1940	261.	200
2,4-Dimethylhexane	8770		mg/kg	1940	235.	200
2,3,4-Trimethylpentane	12800		mg/kg	1940	253.	200
2,3,3-Trimethylpentane	8560		mg/kg	1940	384.	200
1,2,4-Trimethylbenzene	11600		mg/kg	1940	200.	200

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Dibromofluoromethane	104		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	99		70-130

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Project Name: HOLLY FRONTIER
Lab Number: L2350302
Project Number: 212C-HN-02363
Report Date: 10/18/23

SAMPLE RESULTS

Lab ID: L2350302-01 D
Client ID: RW-11-1
Sample Location: ARTESIA, NM
Date Collected: 08/29/23 15:20
Date Received: 08/30/23
Field Prep: Not Specified

Sample Depth:
Matrix: Oil
Analytical Method: 1,8260D(M)
Analytical Date: 10/12/23 03:01
Analyst: RAY
Percent Solids: Results reported on an 'AS RECEIVED' basis.

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PIANO Volatile Organics by GC/MS - Mansfield Lab						
Isopentane	2450		mg/kg	96.8	17.7	10
1-Pentene	ND		mg/kg	96.8	17.7	10
2-Methyl-1-Butene	ND		mg/kg	96.8	15.0	10
Pentane	908		mg/kg	96.8	30.2	10
trans-2-Pentene	ND		mg/kg	96.8	13.1	10
cis-2-Pentene	ND		mg/kg	96.8	15.6	10
Tertiary Butanol	ND		mg/kg	1210	392.	10
Cyclopentane	778		mg/kg	96.8	25.1	10
2,3-Dimethylbutane	4470		mg/kg	96.8	40.0	10
2-Methylpentane	13400	E	mg/kg	96.8	26.2	10
Methyl tert butyl ether	ND		mg/kg	96.8	19.9	10
3-Methylpentane	12000	E	mg/kg	96.8	15.3	10
1-Hexene	ND		mg/kg	96.8	13.6	10
n-Hexane	5050		mg/kg	96.8	15.9	10
Isopropyl Ether	ND		mg/kg	96.8	11.7	10
Ethyl-Tert-Butyl-Ether	ND		mg/kg	96.8	14.7	10
2,2-Dimethylpentane	837		mg/kg	96.8	13.0	10
Methylcyclopentane	10500	E	mg/kg	96.8	13.0	10
2,4-Dimethylpentane	10000	E	mg/kg	96.8	12.0	10
1,2-Dichloroethane	ND		mg/kg	96.8	14.3	10
Cyclohexane	8560		mg/kg	96.8	12.0	10
2-Methylhexane	12500	E	mg/kg	96.8	22.6	10
Benzene	350		mg/kg	96.8	14.8	10
2,3-Dimethylpentane	21200	E	mg/kg	96.8	12.8	10
Thiophene	ND		mg/kg	96.8	13.7	10
3-Methylhexane	18000	E	mg/kg	96.8	15.5	10
Tertiary-Amyl Methyl Ether	ND		mg/kg	96.8	11.9	10
1-Heptene/1,2-DMCP (trans)	9860		mg/kg	194	28.3	10

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Project Name: HOLLY FRONTIER
Lab Number: L2350302
Project Number: 212C-HN-02363
Report Date: 10/18/23

SAMPLE RESULTS

Lab ID: L2350302-01 D
Client ID: RW-11-1
Sample Location: ARTESIA, NM
Date Collected: 08/29/23 15:20
Date Received: 08/30/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PIANO Volatile Organics by GC/MS - Mansfield Lab						
Isooctane	38100	E	mg/kg	96.8	10.6	10
Heptane	7470		mg/kg	96.8	16.8	10
Methylcyclohexane	18400	E	mg/kg	96.8	13.1	10
2,5-Dimethylhexane	9290		mg/kg	96.8	16.8	10
2,4-Dimethylhexane	10700	E	mg/kg	96.8	11.8	10
2,2,3-Trimethylpentane	1180		mg/kg	96.8	16.8	10
2,3,4-Trimethylpentane	15800	E	mg/kg	96.8	12.6	10
2,3,3-Trimethylpentane	10500	E	mg/kg	96.8	19.2	10
2,3-Dimethylhexane	8920		mg/kg	96.8	23.5	10
2-Methylheptane	8700		mg/kg	96.8	22.4	10
3-Methylheptane	9460		mg/kg	96.8	13.8	10
3-Ethylhexane	2350		mg/kg	96.8	17.3	10
Toluene	64.8	J	mg/kg	96.8	13.1	10
2-Methylthiophene	ND		mg/kg	96.8	8.23	10
3-Methylthiophene	ND		mg/kg	96.8	11.3	10
1-Octene	ND		mg/kg	242	14.8	10
Octane	6600		mg/kg	96.8	11.4	10
1,2-Dibromoethane	ND		mg/kg	96.8	15.5	10
Ethylbenzene	7290		mg/kg	96.8	10.4	10
2-Ethylthiophene	ND		mg/kg	96.8	10.6	10
p/m-Xylene	3300		mg/kg	194	18.4	10
1-Nonene	ND		mg/kg	242	13.1	10
Nonane (C9)	5880		mg/kg	96.8	15.0	10
Styrene	ND		mg/kg	96.8	9.78	10
o-Xylene	54.0	J	mg/kg	96.8	10.1	10
Isopropylbenzene	2620		mg/kg	96.8	16.2	10
n-Propylbenzene	7420		mg/kg	96.8	8.57	10
1-Methyl-3-Ethylbenzene	832		mg/kg	96.8	15.3	10
1-Methyl-4-Ethylbenzene	4190		mg/kg	96.8	13.6	10
1,3,5-Trimethylbenzene	1350		mg/kg	96.8	11.1	10
1-Decene	ND		mg/kg	96.8	12.6	10
1-Methyl-2-Ethylbenzene	2170		mg/kg	96.8	8.23	10
Decane (C10)	6260		mg/kg	96.8	13.1	10
1,2,4-Trimethylbenzene	13800	E	mg/kg	96.8	10.0	10
sec-Butylbenzene	1570		mg/kg	96.8	12.5	10
1-Methyl-3-Isopropylbenzene	561		mg/kg	96.8	12.5	10
1-Methyl-4-Isopropylbenzene	619		mg/kg	96.8	10.3	10

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Project Name: HOLLY FRONTIER
Lab Number: L2350302
Project Number: 212C-HN-02363
Report Date: 10/18/23

SAMPLE RESULTS

Lab ID: L2350302-01 D
Client ID: RW-11-1
Sample Location: ARTESIA, NM
Date Collected: 08/29/23 15:20
Date Received: 08/30/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PIANO Volatile Organics by GC/MS - Mansfield Lab						
1-Methyl-2-Isopropylbenzene	207		mg/kg	96.8	10.5	10
Indane	1780		mg/kg	96.8	5.95	10
1-Methyl-3-N-Propylbenzene	1410		mg/kg	96.8	9.78	10
1-Methyl-4-N-Propylbenzene	2520		mg/kg	96.8	12.1	10
n-Butylbenzene	2230		mg/kg	96.8	9.54	10
1,2-Dimethyl-4-Ethylbenzene	1330		mg/kg	96.8	11.8	10
1,2-Diethylbenzene	604		mg/kg	96.8	14.3	10
1-Methyl-2-N-Propylbenzene	1020		mg/kg	96.8	12.0	10
1,4-Dimethyl-2-Ethylbenzene	2850		mg/kg	96.8	9.05	10
Undecane	5090		mg/kg	96.8	10.7	10
1,3-Dimethyl-4-Ethylbenzene	2120		mg/kg	96.8	9.39	10
1,3-Dimethyl-5-Ethylbenzene	6480		mg/kg	96.8	11.4	10
1,3-Dimethyl-2-Ethylbenzene	412		mg/kg	96.8	7.21	10
1,2-Dimethyl-3-Ethylbenzene	532		mg/kg	96.8	6.15	10
1,2,4,5-Tetramethylbenzene	3440		mg/kg	96.8	7.50	10
N-Pentylbenzene	610		mg/kg	96.8	12.0	10
Dodecane (C12)	2830		mg/kg	242	31.8	10
Naphthalene	1820		mg/kg	96.8	40.4	10
Benzothiophene	ND		mg/kg	96.8	51.3	10
MMT	ND		mg/kg	242	62.4	10
Tridecane	508		mg/kg	242	67.3	10
2-Methylnaphthalene	1530		mg/kg	242	63.9	10
1-Methylnaphthalene	4470		mg/kg	242	71.2	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Dibromofluoromethane	97		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	99		70-130

Released to Imaging: 6/28/2024 11:23:28 AM

Project Name: HOLLY FRONTIER
Project Number: 212C-HN-02363
Lab Number: L2350302
Report Date: 10/18/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D(M)
Analytical Date: 10/11/23 16:18
Analyst: RAY

Parameter	Result	Qualifier	Units	RL	MDL
PIANO Volatile Organics by GC/MS - Mansfield Lab for sample(s): 01 Batch: WG1835678-6					
Isopentane	ND		mg/kg	10.0	1.83
1-Pentene	ND		mg/kg	10.0	1.82
2-Methyl-1-Butene	ND		mg/kg	10.0	1.56
Pentane	ND		mg/kg	10.0	3.12
trans-2-Pentene	ND		mg/kg	10.0	1.35
cis-2-Pentene	ND		mg/kg	10.0	1.61
Tertiary Butanol	ND		mg/kg	125	40.5
Cyclopentane	ND		mg/kg	10.0	2.60
2,3-Dimethylbutane	ND		mg/kg	10.0	4.13
2-Methylpentane	ND		mg/kg	10.0	2.71
Methyl tert butyl ether	ND		mg/kg	10.0	2.06
3-Methylpentane	ND		mg/kg	10.0	1.58
1-Hexene	ND		mg/kg	10.0	1.40
n-Hexane	ND		mg/kg	10.0	1.64
Isopropyl Ether	ND		mg/kg	10.0	1.21
Ethyl-Tert-Butyl-Ether	ND		mg/kg	10.0	1.52
2,2-Dimethylpentane	ND		mg/kg	10.0	1.34
Methylcyclopentane	ND		mg/kg	10.0	1.34
2,4-Dimethylpentane	ND		mg/kg	10.0	1.24
1,2-Dichloroethane	ND		mg/kg	10.0	1.48
Cyclohexane	ND		mg/kg	10.0	1.24
2-Methylhexane	ND		mg/kg	10.0	2.33
Benzene	ND		mg/kg	10.0	1.52
2,3-Dimethylpentane	ND		mg/kg	10.0	1.32
Thiophene	ND		mg/kg	10.0	1.42
3-Methylhexane	ND		mg/kg	10.0	1.60
Tertiary-Amyl Methyl Ether	ND		mg/kg	10.0	1.23
1-Heptene/1,2-DMCP (trans)	ND		mg/kg	20.0	2.92
Isooctane	ND		mg/kg	10.0	1.09

Released to Imaging: 6/28/2024 11:23:28 AM

Project Name: HOLLY FRONTIER
Project Number: 212C-HN-02363
Lab Number: L2350302
Report Date: 10/18/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D(M)
Analytical Date: 10/11/23 16:18
Analyst: RAY

Parameter	Result	Qualifier	Units	RL	MDL
PIANO Volatile Organics by GC/MS - Mansfield Lab for sample(s): 01 Batch: WG1835678-6					
Heptane	ND		mg/kg	10.0	1.74
Methylcyclohexane	ND		mg/kg	10.0	1.35
2,5-Dimethylhexane	ND		mg/kg	10.0	1.74
2,4-Dimethylhexane	ND		mg/kg	10.0	1.22
2,2,3-Trimethylpentane	ND		mg/kg	10.0	1.74
2,3,4-Trimethylpentane	ND		mg/kg	10.0	1.30
2,3,3-Trimethylpentane	ND		mg/kg	10.0	1.98
2,3-Dimethylhexane	ND		mg/kg	10.0	2.42
2-Methylheptane	ND		mg/kg	10.0	2.32
3-Methylheptane	ND		mg/kg	10.0	1.42
3-Ethylhexane	ND		mg/kg	10.0	1.79
Toluene	ND		mg/kg	10.0	1.36
2-Methylthiophene	ND		mg/kg	10.0	0.850
3-Methylthiophene	ND		mg/kg	10.0	1.17
1-Octene	ND		mg/kg	25.0	1.54
Octane	ND		mg/kg	10.0	1.18
1,2-Dibromoethane	ND		mg/kg	10.0	1.60
Ethylbenzene	ND		mg/kg	10.0	1.08
2-Ethylthiophene	ND		mg/kg	10.0	1.10
p/m-Xylene	ND		mg/kg	20.0	1.90
1-Nonene	ND		mg/kg	25.0	1.35
Nonane (C9)	ND		mg/kg	10.0	1.56
Styrene	ND		mg/kg	10.0	1.01
o-Xylene	ND		mg/kg	10.0	1.04
Isopropylbenzene	ND		mg/kg	10.0	1.67
n-Propylbenzene	ND		mg/kg	10.0	0.885
1-Methyl-3-Ethylbenzene	ND		mg/kg	10.0	1.58
1-Methyl-4-Ethylbenzene	ND		mg/kg	10.0	1.41
1,3,5-Trimethylbenzene	ND		mg/kg	10.0	1.15

Released to Imaging: 6/28/2024 11:23:28 AM

Project Name: HOLLY FRONTIER
Project Number: 212C-HN-02363
Lab Number: L2350302
Report Date: 10/18/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D(M)
Analytical Date: 10/11/23 16:18
Analyst: RAY

Parameter	Result	Qualifier	Units	RL	MDL
PIANO Volatile Organics by GC/MS - Mansfield Lab for sample(s): 01 Batch: WG1835678-6					
1-Decene	ND		mg/kg	10.0	1.30
1-Methyl-2-Ethylbenzene	ND		mg/kg	10.0	0.850
Decane (C10)	ND		mg/kg	10.0	1.36
1,2,4-Trimethylbenzene	ND		mg/kg	10.0	1.04
sec-Butylbenzene	ND		mg/kg	10.0	1.30
1-Methyl-3-Isopropylbenzene	ND		mg/kg	10.0	1.29
1-Methyl-4-Isopropylbenzene	ND		mg/kg	10.0	1.06
1-Methyl-2-Isopropylbenzene	ND		mg/kg	10.0	1.08
Indane	ND		mg/kg	10.0	0.615
1-Methyl-3-N-Propylbenzene	ND		mg/kg	10.0	1.01
1-Methyl-4-N-Propylbenzene	ND		mg/kg	10.0	1.25
n-Butylbenzene	ND		mg/kg	10.0	0.985
1,2-Dimethyl-4-Ethylbenzene	ND		mg/kg	10.0	1.22
1,2-Diethylbenzene	ND		mg/kg	10.0	1.48
1-Methyl-2-N-Propylbenzene	ND		mg/kg	10.0	1.24
1,4-Dimethyl-2-Ethylbenzene	ND		mg/kg	10.0	0.935
Undecane	ND		mg/kg	10.0	1.11
1,3-Dimethyl-4-Ethylbenzene	ND		mg/kg	10.0	0.970
1,3-Dimethyl-5-Ethylbenzene	ND		mg/kg	10.0	1.18
1,3-Dimethyl-2-Ethylbenzene	ND		mg/kg	10.0	0.745
1,2-Dimethyl-3-Ethylbenzene	ND		mg/kg	10.0	0.635
1,2,4,5-Tetramethylbenzene	ND		mg/kg	10.0	0.775
N-Pentylbenzene	ND		mg/kg	10.0	1.24
Dodecane (C12)	ND		mg/kg	25.0	3.28
Naphthalene	0.640	J	mg/kg	10.0	4.18
Benzothiophene	ND		mg/kg	10.0	5.30
MMT	ND		mg/kg	25.0	6.45
Tridecane	ND		mg/kg	25.0	6.95
2-Methylnaphthalene	1.02	J	mg/kg	25.0	6.60

Released to Imaging: 6/28/2024 11:23:28 AM

Project Name: HOLLY FRONTIER
Project Number: 212C-HN-02363
Lab Number: L2350302
Report Date: 10/18/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D(M)
Analytical Date: 10/11/23 16:18
Analyst: RAY

Parameter	Result	Qualifier	Units	RL	MDL
PIANO Volatile Organics by GC/MS - Mansfield Lab for sample(s): 01 Batch: WG1835678-6					
1-Methylnaphthalene	0.570	J	mg/kg	25.0	7.35

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Dibromofluoromethane	104		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	94		70-130

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Lab Control Sample Analysis

Batch Quality Control

Project Name: HOLLY FRONTIER
Project Number: 212C-HN-02363

Lab Number: L2350302
Report Date: 10/18/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
PIANO Volatile Organics by GC/MS - Mansfield Lab Associated sample(s): 01 Batch: WG1835678-3 WG1835678-4								
1-Pentene	89		87		50-130	2		30
Pentane	98		97		50-130	1		30
Tertiary Butanol	97		94		50-130	3		30
Cyclopentane	97		94		50-130	3		30
2-Methylpentane	107		104		50-130	3		30
Methyl tert butyl ether	105		103		50-130	2		30
3-Methylpentane	108		105		50-130	3		30
1-Hexene	106		104		50-130	2		30
n-Hexane	96		95		50-130	1		30
Isopropyl Ether	113		109		50-130	4		30
Ethyl-Tert-Butyl-Ether	106		103		50-130	3		30
Methylcyclopentane	106		103		50-130	3		30
2,4-Dimethylpentane	109		102		50-130	7		30
Cyclohexane	110		106		50-130	4		30
2-Methylhexane	109		106		50-130	3		30
Benzene	108		106		50-130	2		30
2,3-Dimethylpentane	112		108		50-130	4		30
3-Methylhexane	99		97		50-130	2		30
Tertiary-Amyl Methyl Ether	96		93		50-130	3		30
Isooctane	104		102		50-130	2		30
Heptane	109		108		50-130	1		30
Methylcyclohexane	105		102		50-130	3		30
2-Methylheptane	108		106		50-130	2		30

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Lab Control Sample Analysis

Batch Quality Control

Project Name: HOLLY FRONTIER
Project Number: 212C-HN-02363

Lab Number: L2350302
Report Date: 10/18/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
PIANO Volatile Organics by GC/MS - Mansfield Lab Associated sample(s): 01 Batch: WG1835678-3 WG1835678-4								
3-Methylheptane	106		106		50-130	0		30
Toluene	107		105		50-130	2		30
Octane	107		103		50-130	4		30
Ethylbenzene	102		101		50-130	1		30
p/m-Xylene	107		105		50-130	2		30
Nonane (C9)	98		96		50-130	2		30
o-Xylene	106		105		50-130	1		30
Isopropylbenzene	104		104		50-130	0		30
n-Propylbenzene	106		106		50-130	0		30
1-Methyl-3-Ethylbenzene	104		103		50-130	1		30
1-Methyl-4-Ethylbenzene	107		107		50-130	0		30
1,3,5-Trimethylbenzene	105		104		50-130	1		30
1-Decene	83		82		50-130	1		30
1-Methyl-2-Ethylbenzene	103		103		50-130	0		30
Decane (C10)	92		90		50-130	2		30
1,2,4-Trimethylbenzene	103		103		50-130	0		30
sec-Butylbenzene	106		106		50-130	0		30
1-Methyl-4-N-Propylbenzene	96		97		50-130	1		30
n-Butylbenzene	103		103		50-130	0		30
1,2-Diethylbenzene	104		104		50-130	0		30
Undecane	70		65		50-130	7		30
N-Pentylbenzene	100		103		50-130	3		30
Dodecane (C12)	63		55		50-130	14		30

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Lab Control Sample Analysis

Batch Quality Control

Project Name: HOLLY FRONTIER
Project Number: 212C-HN-02363

Lab Number: L2350302
Report Date: 10/18/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
PIANO Volatile Organics by GC/MS - Mansfield Lab Associated sample(s): 01 Batch: WG1835678-3 WG1835678-4								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Dibromofluoromethane	104		104		70-130
Toluene-d8	100		99		70-130
4-Bromofluorobenzene	98		98		70-130

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Received by OCD: 6/12/2024 3:31:05 PM

Lab Duplicate Analysis
Batch Quality Control

Project Name: HOLLY FRONTIER
Project Number: 212C-HN-02363

Lab Number: L2350302
Report Date: 10/18/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
PIANO Volatile Organics by GC/MS - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1835678-7 QC Sample: L2350302-01 Client ID: RW-11-1						
Isopentane	2450	2260	mg/kg	8		30
1-Pentene	ND	ND	mg/kg	NC		30
2-Methyl-1-Butene	ND	ND	mg/kg	NC		30
Pentane	908	854	mg/kg	6		30
trans-2-Pentene	ND	ND	mg/kg	NC		30
cis-2-Pentene	ND	ND	mg/kg	NC		30
Tertiary Butanol	ND	ND	mg/kg	NC		30
Cyclopentane	778	753	mg/kg	3		30
2,3-Dimethylbutane	4470	4410	mg/kg	1		30
2-Methylpentane	13400E	12600E	mg/kg	6		30
Methyl tert butyl ether	ND	ND	mg/kg	NC		30
3-Methylpentane	12000E	11600E	mg/kg	3		30
1-Hexene	ND	ND	mg/kg	NC		30
n-Hexane	5050	4900	mg/kg	3		30
Isopropyl Ether	ND	ND	mg/kg	NC		30
Ethyl-Tert-Butyl-Ether	ND	ND	mg/kg	NC		30
2,2-Dimethylpentane	837	814	mg/kg	3		30
Methylcyclopentane	10500E	10100E	mg/kg	4		30
2,4-Dimethylpentane	10000E	9630E	mg/kg	4		30
1,2-Dichloroethane	ND	ND	mg/kg	NC		30
Cyclohexane	8560	8330	mg/kg	3		30

Released to Imaging: 6/28/2024 11:23:28 AM

Received by OCD: 6/12/2024 3:31:05 PM

Lab Duplicate Analysis
Batch Quality Control

Project Name: HOLLY FRONTIER
Project Number: 212C-HN-02363

Lab Number: L2350302
Report Date: 10/18/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
PIANO Volatile Organics by GC/MS - Mansfield Lab	Associated sample(s): 01	QC Batch ID: WG1835678-7		QC Sample: L2350302-01		Client ID: RW-11-1
2-Methylhexane	12500E	12100E	mg/kg	3		30
Benzene	350	338	mg/kg	3		30
2,3-Dimethylpentane	21200E	20600E	mg/kg	3		30
Thiophene	ND	ND	mg/kg	NC		30
3-Methylhexane	18000E	17400E	mg/kg	3		30
Tertiary-Amyl Methyl Ether	ND	ND	mg/kg	NC		30
1-Heptene/1,2-DMCP (trans)	9860	9880	mg/kg	0		30
Isooctane	38100E	36900E	mg/kg	3		30
Heptane	7470	7260	mg/kg	3		30
Methylcyclohexane	18400E	18200E	mg/kg	1		30
2,5-Dimethylhexane	9290	9060	mg/kg	3		30
2,4-Dimethylhexane	10700E	10500E	mg/kg	2		30
2,2,3-Trimethylpentane	1180	1170	mg/kg	1		30
2,3,4-Trimethylpentane	15800E	15200E	mg/kg	4		30
2,3,3-Trimethylpentane	10500E	10100E	mg/kg	4		30
2,3-Dimethylhexane	8920	8600	mg/kg	4		30
2-Methylheptane	8700	8510	mg/kg	2		30
3-Methylheptane	9460	8990	mg/kg	5		30
3-Ethylhexane	2350	2350	mg/kg	0		30
Toluene	64.8J	48.1J	mg/kg	NC		30
2-Methylthiophene	ND	ND	mg/kg	NC		30

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Lab Duplicate Analysis
Batch Quality Control

Project Name: HOLLY FRONTIER
Project Number: 212C-HN-02363

Lab Number: L2350302
Report Date: 10/18/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
PIANO Volatile Organics by GC/MS - Mansfield Lab	Associated sample(s): 01	QC Batch ID: WG1835678-7		QC Sample: L2350302-01		Client ID: RW-11-1
3-Methylthiophene	ND	ND	mg/kg	NC		30
1-Octene	ND	ND	mg/kg	NC		30
Octane	6600	6360	mg/kg	4		30
1,2-Dibromoethane	ND	ND	mg/kg	NC		30
Ethylbenzene	7290	7070	mg/kg	3		30
2-Ethylthiophene	ND	ND	mg/kg	NC		30
p/m-Xylene	3300	3210	mg/kg	3		30
1-Nonene	ND	ND	mg/kg	NC		30
Nonane (C9)	5880	5520	mg/kg	6		30
Styrene	ND	ND	mg/kg	NC		30
o-Xylene	54.0J	57.3J	mg/kg	NC		30
Isopropylbenzene	2620	2550	mg/kg	3		30
n-Propylbenzene	7420	7190	mg/kg	3		30
1-Methyl-3-Ethylbenzene	832	796	mg/kg	4		30
1-Methyl-4-Ethylbenzene	4190	4080	mg/kg	3		30
1,3,5-Trimethylbenzene	1350	1320	mg/kg	2		30
1-Decene	ND	ND	mg/kg	NC		30
1-Methyl-2-Ethylbenzene	2170	2120	mg/kg	2		30
Decane (C10)	6260	5750	mg/kg	8		30
1,2,4-Trimethylbenzene	13800E	13400E	mg/kg	3		30
sec-Butylbenzene	1570	1530	mg/kg	3		30

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Lab Duplicate Analysis
Batch Quality Control

Project Name: HOLLY FRONTIER
Project Number: 212C-HN-02363

Lab Number: L2350302
Report Date: 10/18/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
PIANO Volatile Organics by GC/MS - Mansfield Lab	Associated sample(s): 01	QC Batch ID: WG1835678-7		QC Sample: L2350302-01		Client ID: RW-11-1
1-Methyl-3-Isopropylbenzene	561	551	mg/kg	2		30
1-Methyl-4-Isopropylbenzene	619	604	mg/kg	2		30
1-Methyl-2-Isopropylbenzene	207	205	mg/kg	1		30
Indane	1780	1720	mg/kg	3		30
1-Methyl-3-N-Propylbenzene	1410	1380	mg/kg	2		30
1-Methyl-4-N-Propylbenzene	2520	2460	mg/kg	2		30
n-Butylbenzene	2230	2170	mg/kg	3		30
1,2-Dimethyl-4-Ethylbenzene	1330	1310	mg/kg	2		30
1,2-Diethylbenzene	604	588	mg/kg	3		30
1-Methyl-2-N-Propylbenzene	1020	1010	mg/kg	1		30
1,4-Dimethyl-2-Ethylbenzene	2850	2800	mg/kg	2		30
Undecane	5090	4740	mg/kg	7		30
1,3-Dimethyl-4-Ethylbenzene	2120	2070	mg/kg	2		30
1,3-Dimethyl-5-Ethylbenzene	6480	6320	mg/kg	3		30
1,3-Dimethyl-2-Ethylbenzene	412	403	mg/kg	2		30
1,2-Dimethyl-3-Ethylbenzene	532	514	mg/kg	3		30
1,2,4,5-Tetramethylbenzene	3440	3360	mg/kg	2		30
N-Pentylbenzene	610	592	mg/kg	3		30
Dodecane (C12)	2830	2520	mg/kg	12		30
Naphthalene	1820	1740	mg/kg	4		30
Benzothiophene	ND	ND	mg/kg	NC		30

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Lab Duplicate Analysis
Batch Quality Control

Project Name: HOLLY FRONTIER
Project Number: 212C-HN-02363

Lab Number: L2350302
Report Date: 10/18/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
PIANO Volatile Organics by GC/MS - Mansfield Lab	Associated sample(s): 01	QC Batch ID: WG1835678-7		QC Sample: L2350302-01		Client ID: RW-11-1
MMT	ND	ND	mg/kg	NC		30
Tridecane	508	485	mg/kg	5		30
2-Methylnaphthalene	1530	1470	mg/kg	4		30
1-Methylnaphthalene	4470	4250	mg/kg	5		30

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Dibromofluoromethane	97		100		70-130
Toluene-d8	99		100		70-130
4-Bromofluorobenzene	99		99		70-130

Released to Imaging: 6/28/2024 11:23:28 AM

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Lab Duplicate Analysis
Batch Quality Control

Project Name: HOLLY FRONTIER
Project Number: 212C-HN-02363

Lab Number: L2350302
Report Date: 10/18/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
PIANO Volatile Organics by GC/MS - Mansfield Lab	Associated sample(s): 01	QC Batch ID: WG1835678-7		QC Sample: L2350302-01		Client ID: RW-11-1
2-Methylpentane	9070	10400	mg/kg	14		30
3-Methylpentane	8390	9510	mg/kg	13		30
Methylcyclopentane	7820	8900	mg/kg	13		30
2,4-Dimethylpentane	7350	8100	mg/kg	10		30
2-Methylhexane	9360	10700	mg/kg	13		30
2,3-Dimethylpentane	16300	18200	mg/kg	11		30
3-Methylhexane	13300	15500	mg/kg	15		30
Isooctane	30600	34300	mg/kg	11		30
Methylcyclohexane	14600	16100	mg/kg	10		30
2,4-Dimethylhexane	8770	10000	mg/kg	13		30
2,3,4-Trimethylpentane	12800	14100	mg/kg	10		30
2,3,3-Trimethylpentane	8560	9470	mg/kg	10		30
1,2,4-Trimethylbenzene	11600	12100	mg/kg	4		30

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Dibromofluoromethane	104		100		70-130
Toluene-d8	99		99		70-130
4-Bromofluorobenzene	99		97		70-130

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PETROLEUM HYDROCARBONS

Project Name: HOLLY FRONTIER
Lab Number: L2350302
Project Number: 212C-HN-02363
Report Date: 10/18/23

SAMPLE RESULTS

Lab ID: L2350302-01
Client ID: RW-11-1
Sample Location: ARTESIA, NM

Date Collected: 08/29/23 15:20
Date Received: 08/30/23
Field Prep: Not Specified

Sample Depth:
Matrix: Oil
Analytical Method: 1,8015D(M)
Analytical Date: 09/13/23 00:00
Analyst: CC
Percent Solids:

Extraction Method: NA

Results reported on an 'AS RECEIVED' basis.

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Whole Oil Analysis - Mansfield Lab						
Refer To Case Narrative/Chromatograms			-	-	1.00	1

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Project Name: HOLLY FRONTIER
Project Number: 212C-HN-02363

Lab Number: L2350302
Report Date: 10/18/23

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
NA	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2350302-01A	Vial unpreserved 20ml hard-cap	NA	NA			Y	Absent		A2-WHOLEOIL(365),A2-NFPIANO8260(365)
L2350302-01B	Vial unpreserved 20ml hard-cap	NA	NA			Y	Absent		A2-WHOLEOIL(365),A2-NFPIANO8260(365)
L2350302-01C	Vial unpreserved 20ml hard-cap	NA	NA			Y	Absent		A2-WHOLEOIL(365),A2-NFPIANO8260(365)
L2350302-01D	Vial unpreserved 20ml hard-cap	NA	NA			Y	Absent		A2-WHOLEOIL(365),A2-NFPIANO8260(365)
L2350302-01E	Vial unpreserved 20ml hard-cap	NA	NA			Y	Absent		A2-WHOLEOIL(365)
L2350302-01F	Vial unpreserved 20ml hard-cap	NA	NA			Y	Absent		A2-WHOLEOIL(365)
L2350302-01X	Vial unpreserved 20ml hard-cap split	NA	NA			Y	Absent		A2-NFPIANO8260(365)
L2350302-01X1	Vial unpreserved 20ml hard-cap	NA	NA			Y	Absent		A2-NFPIANO8260(365)
L2350302-01Y	Vial unpreserved 20ml hard-cap split	NA	NA			Y	Absent		A2-NFPIANO8260(365)
L2350302-01Y1	Vial unpreserved 20ml hard-cap	NA	NA			Y	Absent		A2-NFPIANO8260(365)

*Values in parentheses indicate holding time in days

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Project Name:	HOLLY FRONTIER	**Lab Number:**	L2350302
Project Number:	212C-HN-02363	**Report Date:**	10/18/23

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	HOLLY FRONTIER	**Lab Number:**	L2350302
Project Number:	212C-HN-02363	**Report Date:**	10/18/23

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

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Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers

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Project Name: HOLLY FRONTIER
Project Number: 212C-HN-02363
Lab Number: L2350302
Report Date: 10/18/23

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

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Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

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8/30/23

Chain of Custody

L2350302

Environmental Forensics Practice LLC

Proj. No	Proj. Name
212C-HW-02363	HFS RR

SAMPLERS: Signature: Dan Wall

DATE	TIME	LAB ID	CLIENT ID	SAMPLE DESCRIPTION	MATRIX (* see below)	GC-FID-TPH (C_6+)	GCMS-Alkyl PAH	GCMS-Biomarkers	PIANO - VOA	Organic Lead	METALS	PCB	Pesticides Saturated Hydrocarbons PRESERVED		Total Number of Containers
8-29-23	1520	-01	RW-11-1	R-1	O		X		X				X	6	

ANALYSIS REQUESTED→ "NUMBER OF CONTAINERS"

Relinquished by:	Date/Time	Received by:	Date/Time
Dan Wall	8-29-23 1900	FEDEX	
FEDEX	8/30/23 0944		8/30/23 0944

* O=Oil
SO=Soil
SE=Sediment
T=Tissue
W=Water

Samples to be shipped to: Alpha Laboratory
320 Forbes Blvd.
Mansfield, MA 02048
Tel: (508) 844-4117
Attn: Sue O'Neil

Comments:

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ORIGIN ID:LBBA (806) 893-1602
TETRA TECH
STE 100
901 W WALL ST STE 100
MIDLAND, TX 79701
UNITED STATES US

SHIP DATE: 29AUG23
ACTWGT: 1.75 LB
CAD: 6994405/SSFE2422
DIMS: 8x8x10 IN
BILL THIRD PARTY

TO ALPHA LABORATORY
320 FORBES BLVD
MANSFIELD MA 02048
(508) 844-4117
INV:
PO:
REF:
DEPT:

FedEx Express
REL# 3785346

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PRIORITY OVERNIGHT

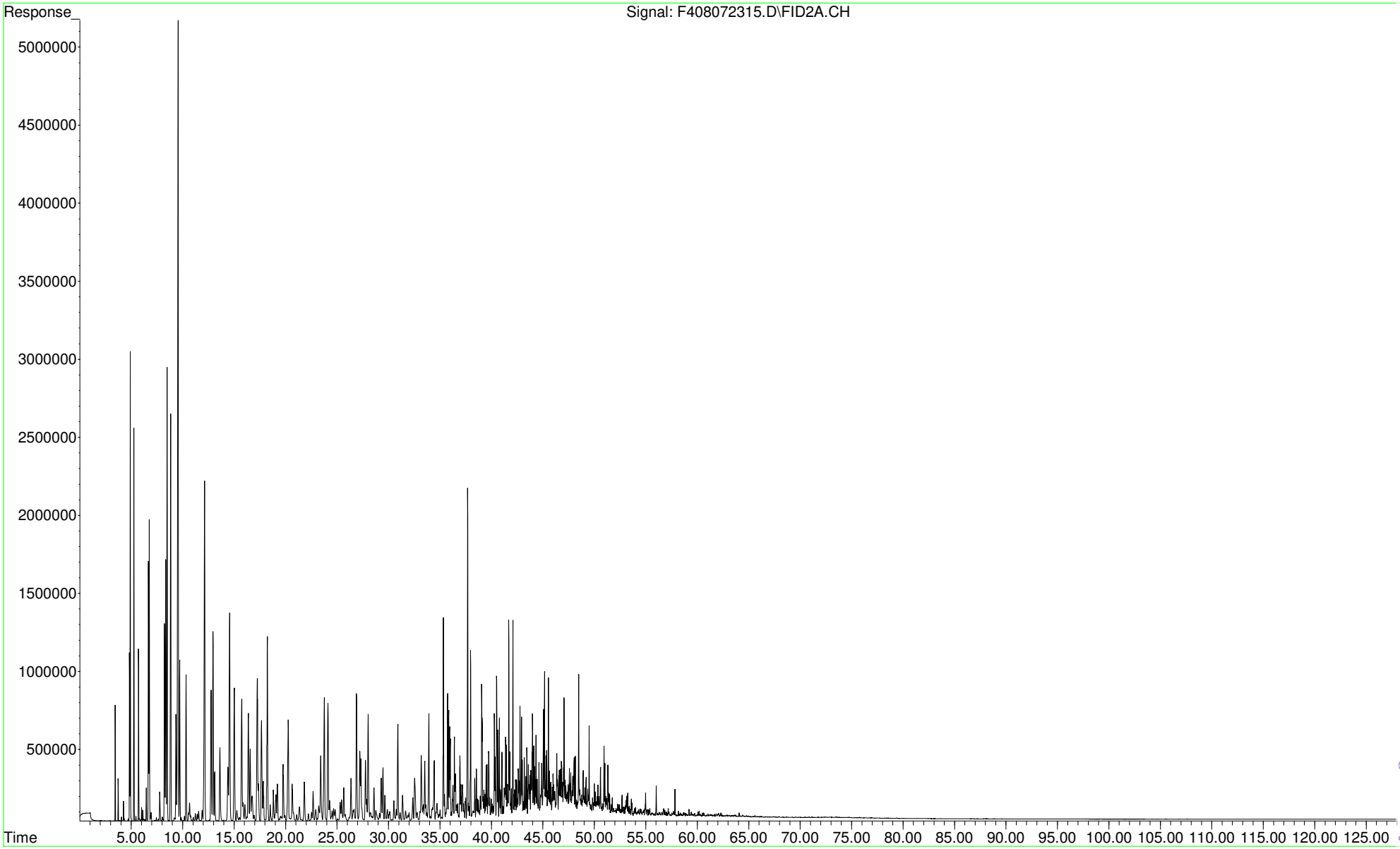
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02048
MA-US BOS

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Page 1302 of 1657

Whole Oil by GC-FID Chromatograms

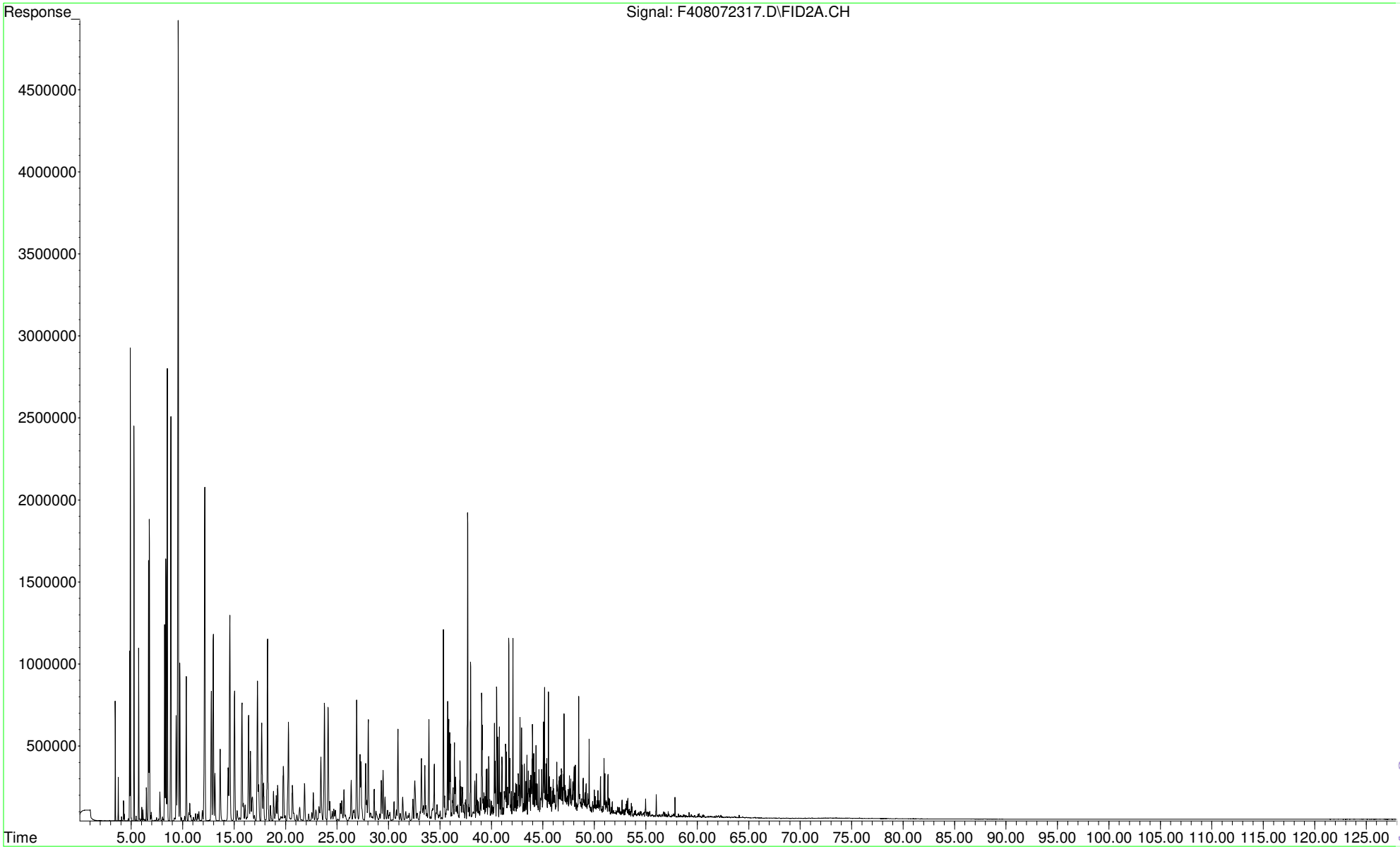
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Acquired : 11 Sep 2023 11:13 am using AcqMethod WHOIL4A.M
Instrument : PAH 4
Sample Name: l2350302-01
Misc Info : DCM
Vial Number: 57



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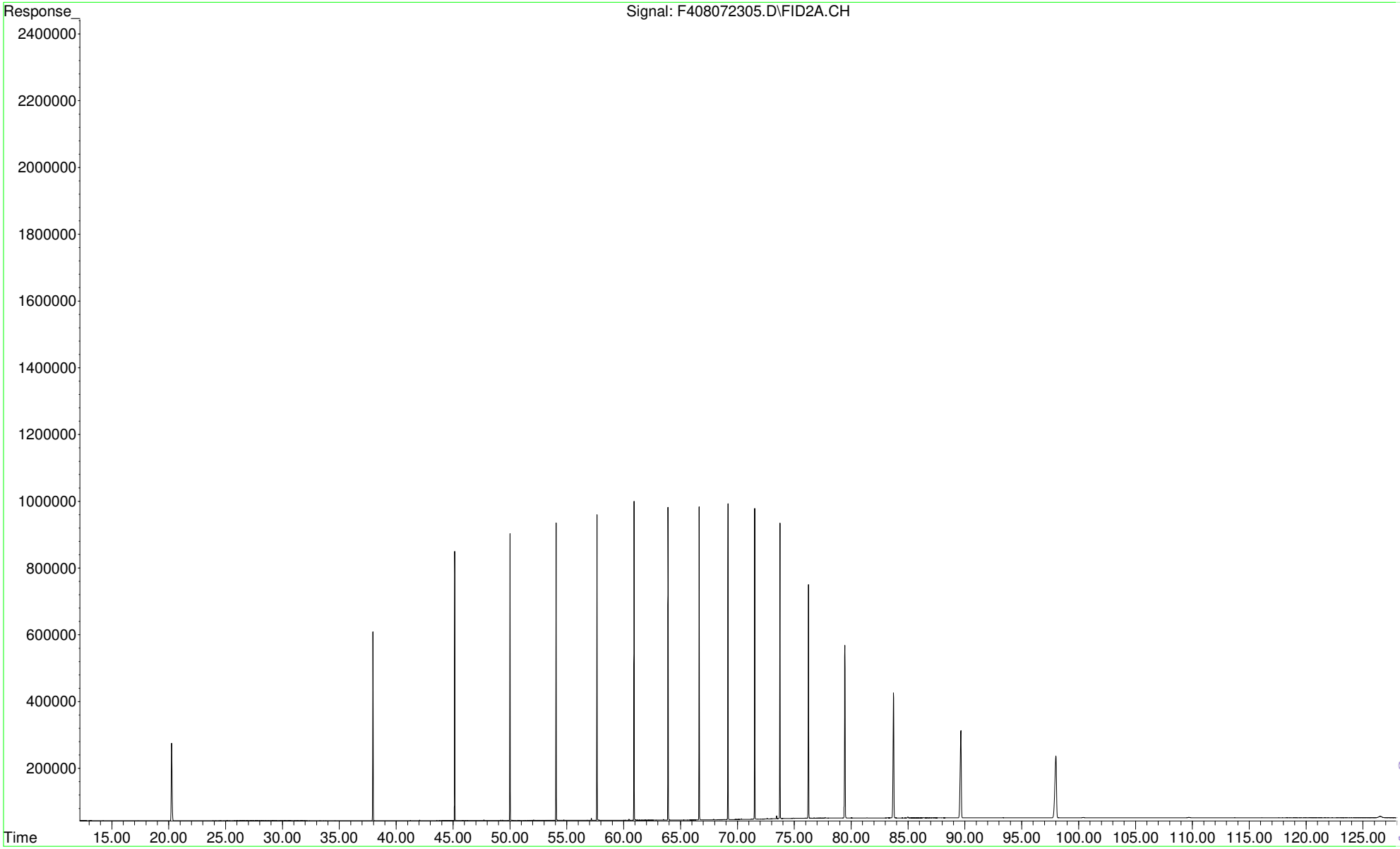
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Vial Number: 58



Whole Oil Reference Oils

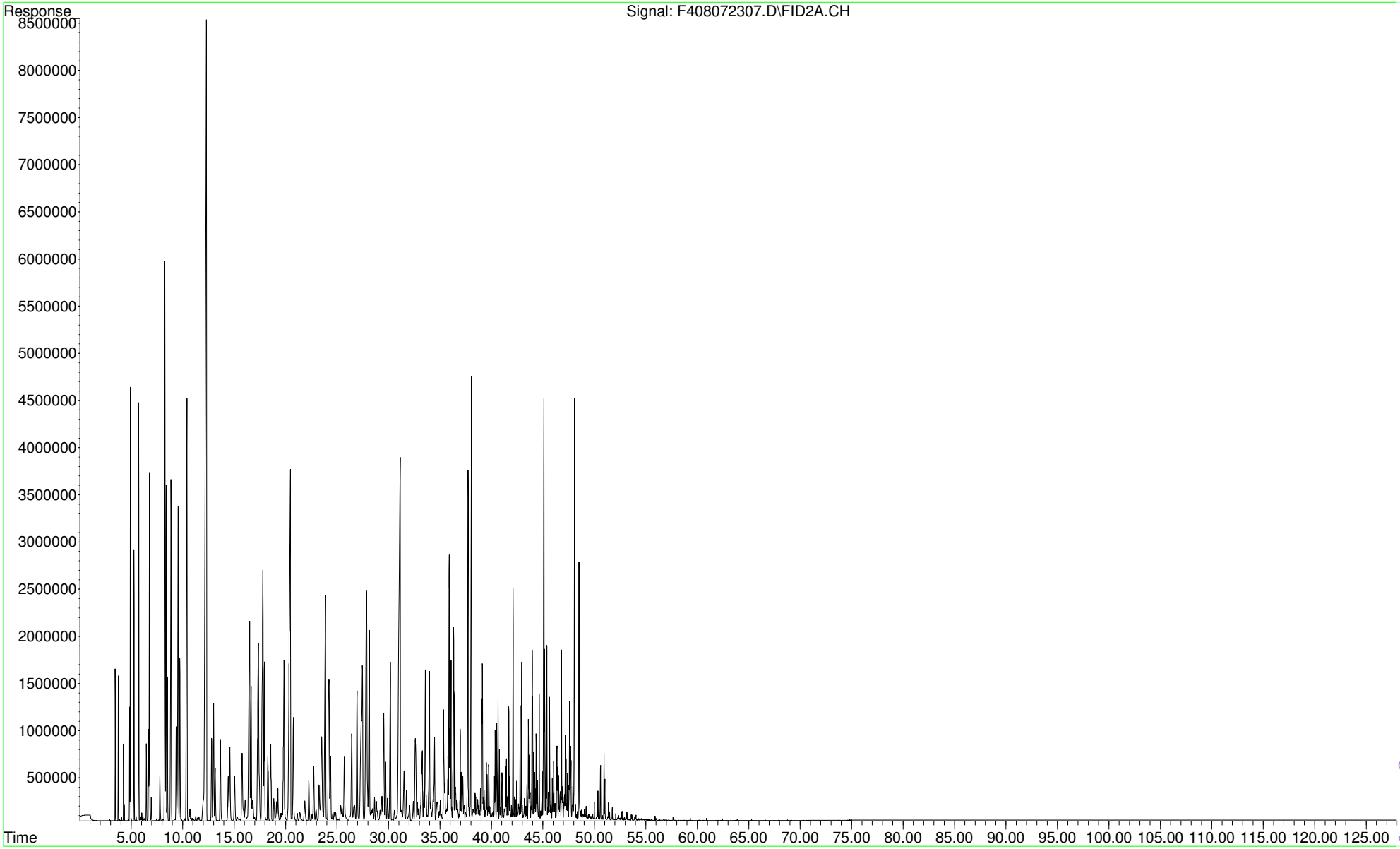
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Instrument : PAH 4
Sample Name: C409092301
Misc Info : CC
Vial Number: 52



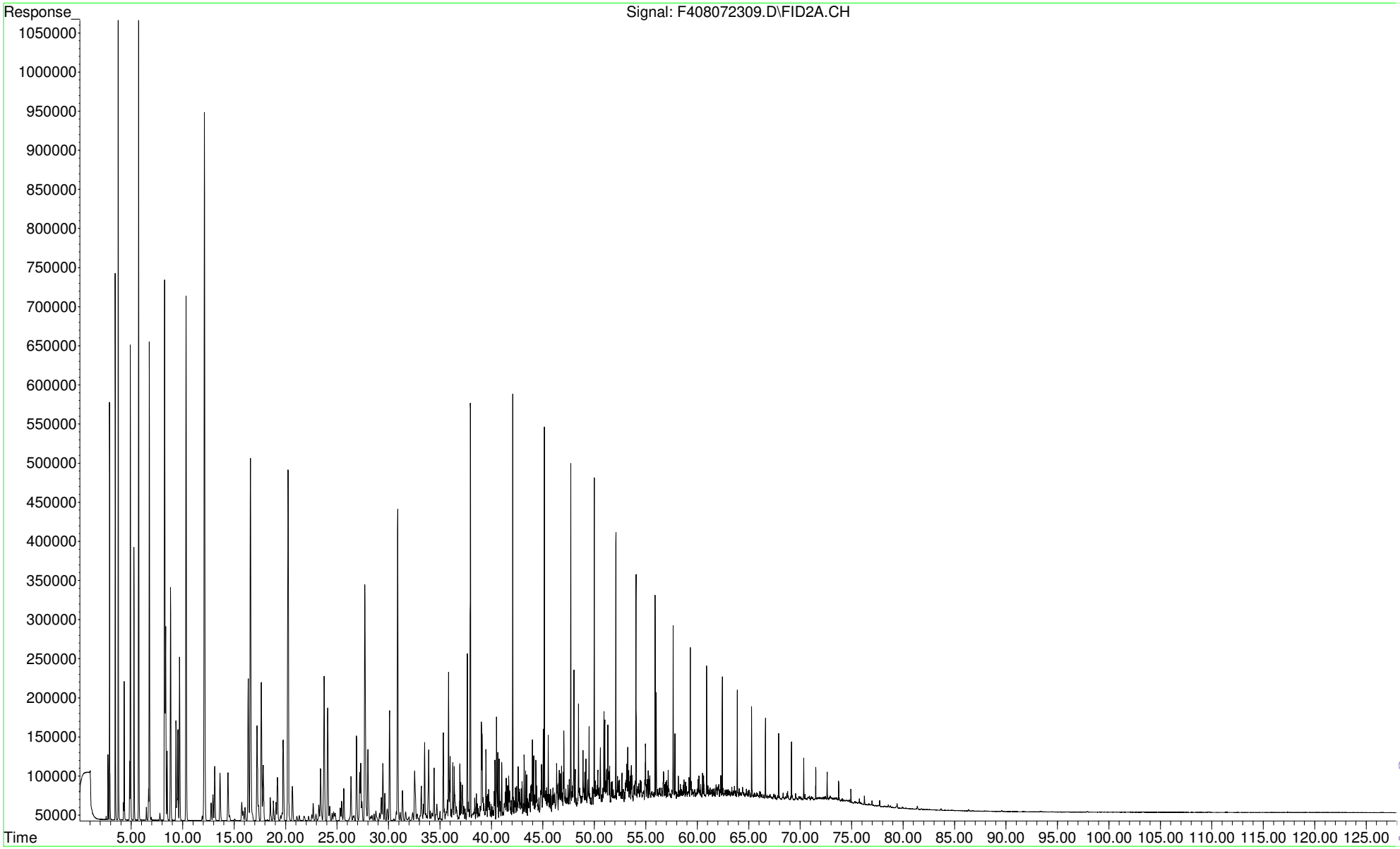
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Sample Name: LD7409092301
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Vial Number: 53



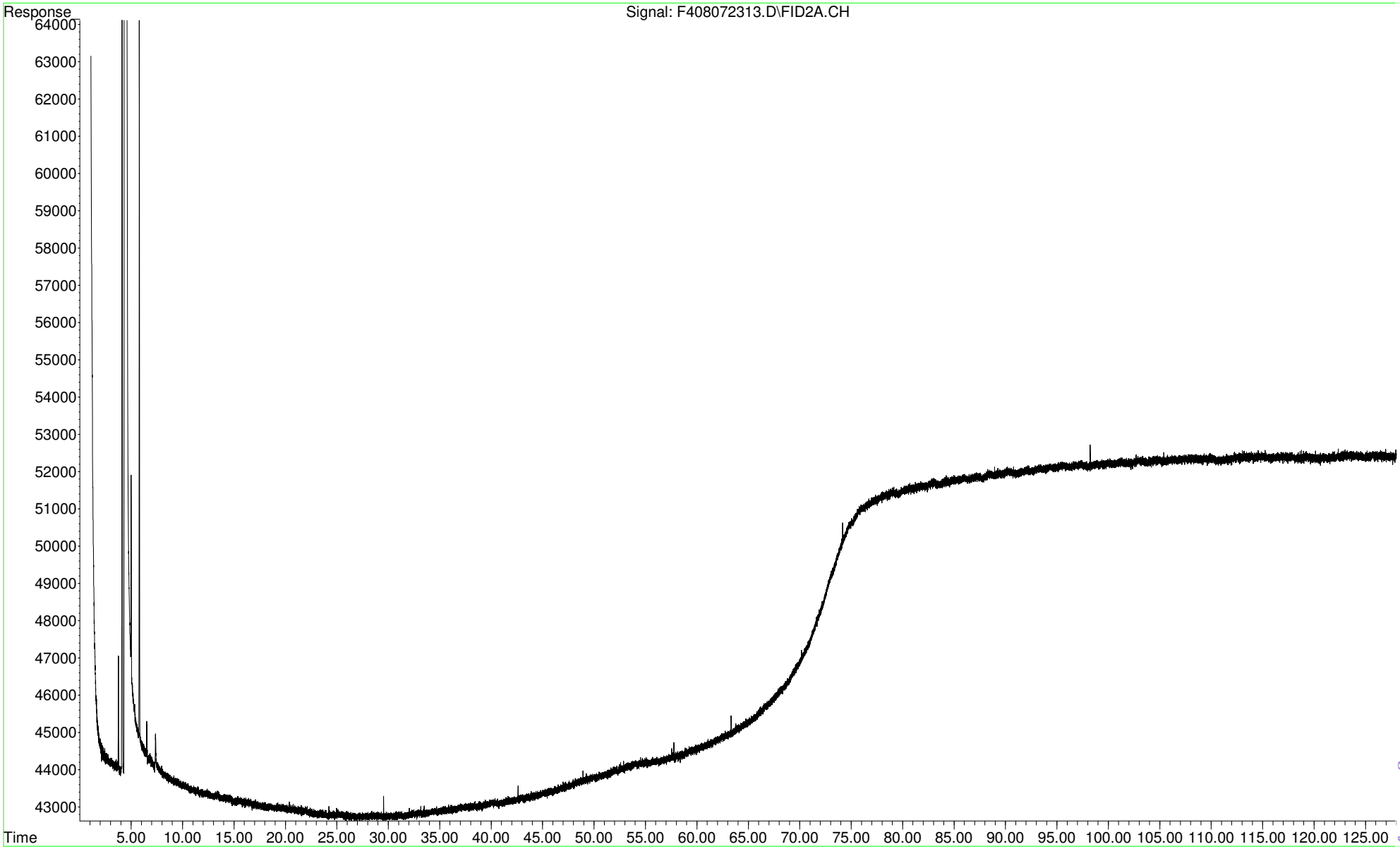
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Instrument : PAH 4
Sample Name: ANS409092301
Misc Info : F012605B
Vial Number: 54



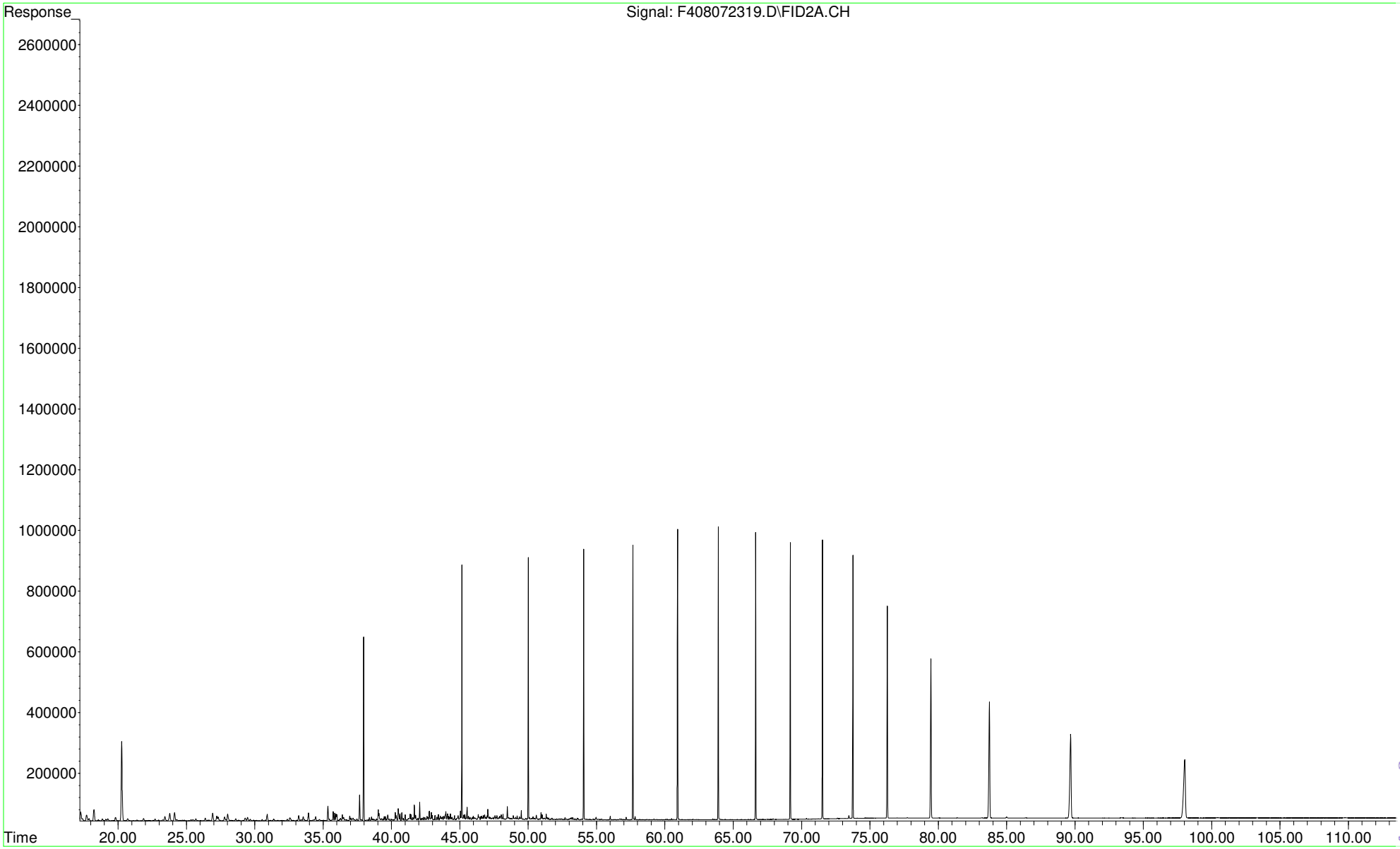
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Instrument : PAH 4
Sample Name: DCM
Misc Info : DCM
Vial Number: 56



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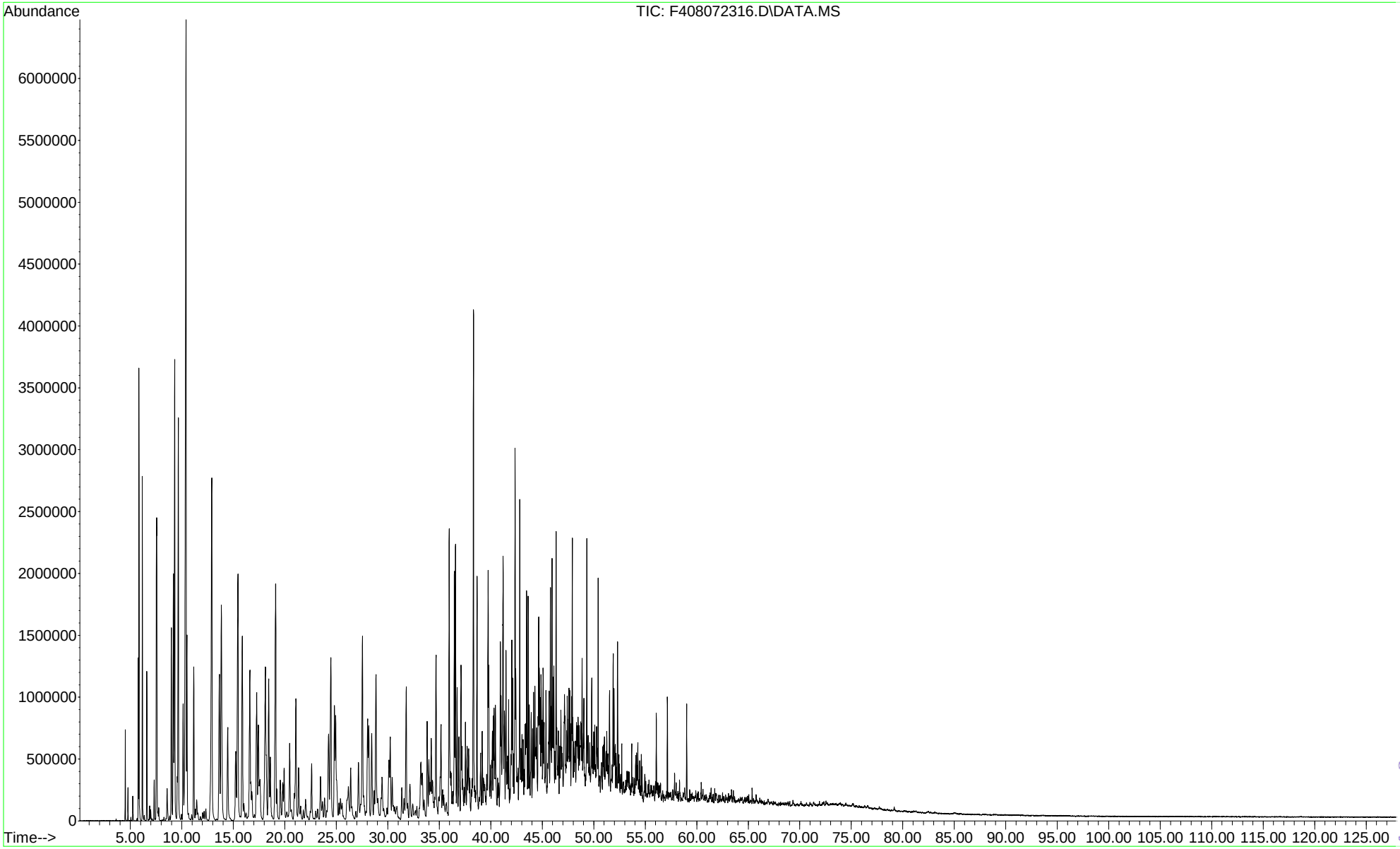
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Instrument : PAH 4
Sample Name: c409092303
Misc Info : DCM
Vial Number: 59



Whole Oil by GC-MS Chromatograms

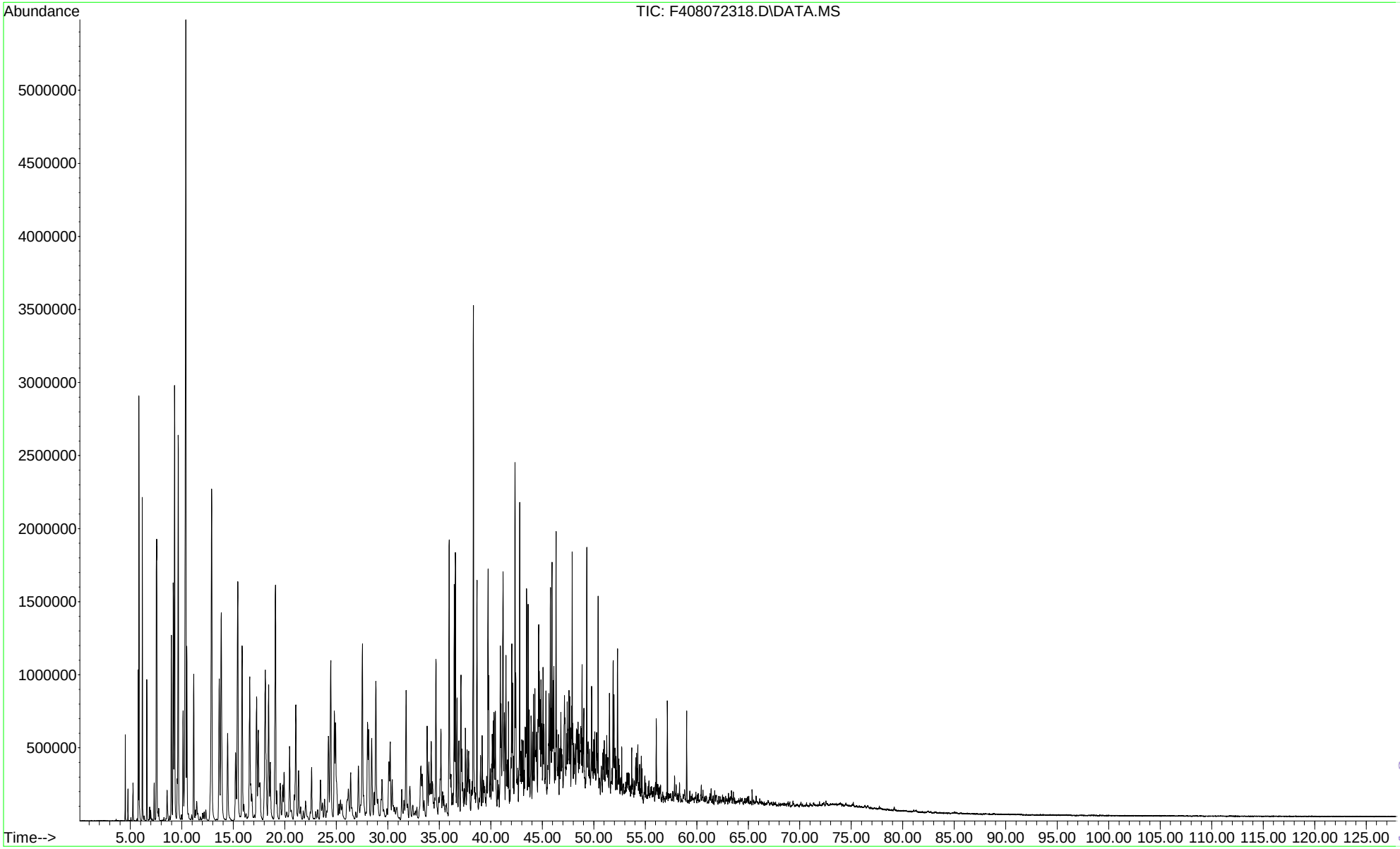
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Instrument : PAH 4
Sample Name: l2350302-01
Misc Info : DCM
Vial Number: 7



Released to Imaging: 6/28/2024 11:23:28 AM
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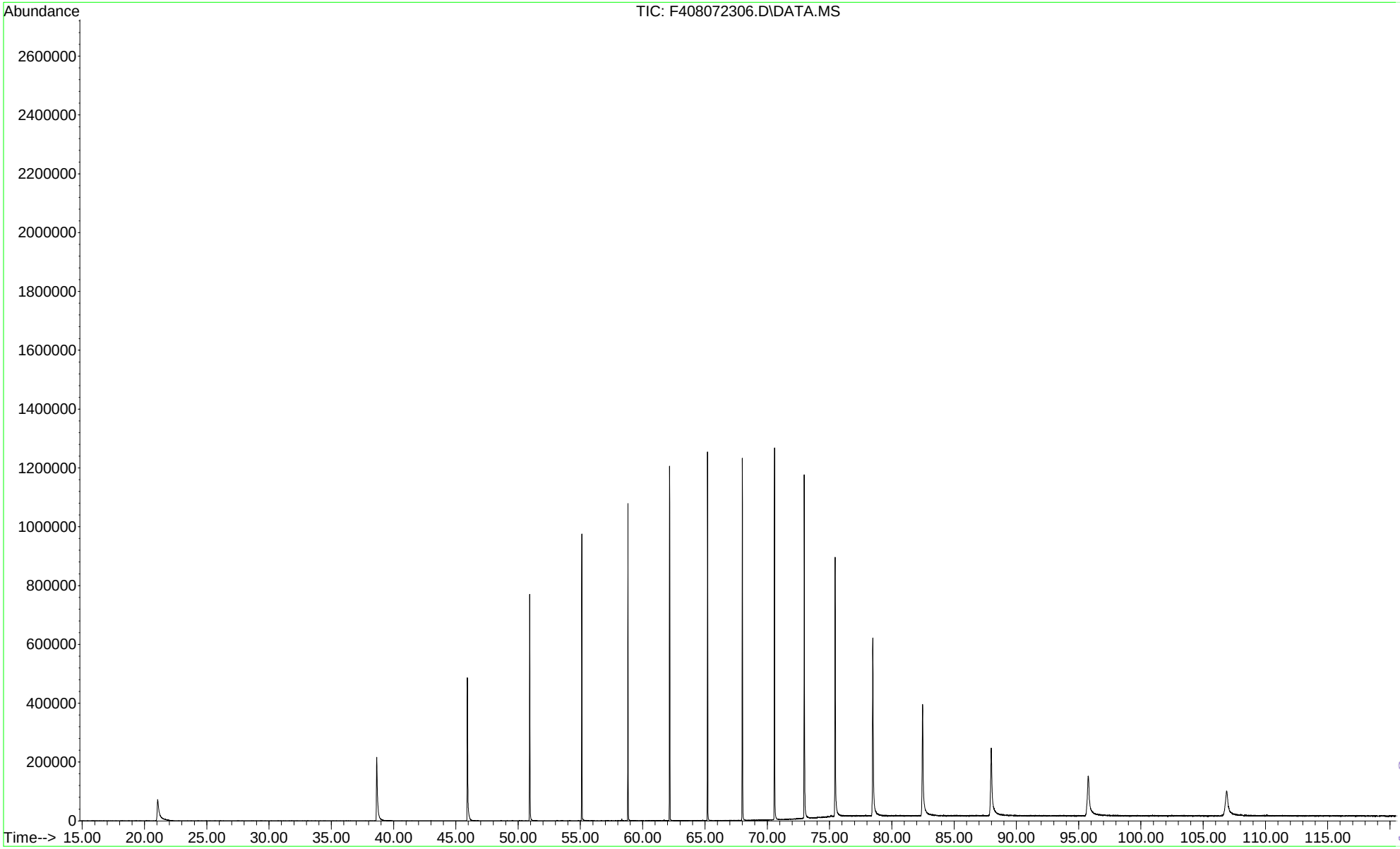
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Instrument : PAH 4
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Misc Info : DCM
Vial Number: 8



Whole Oil Reference Oils

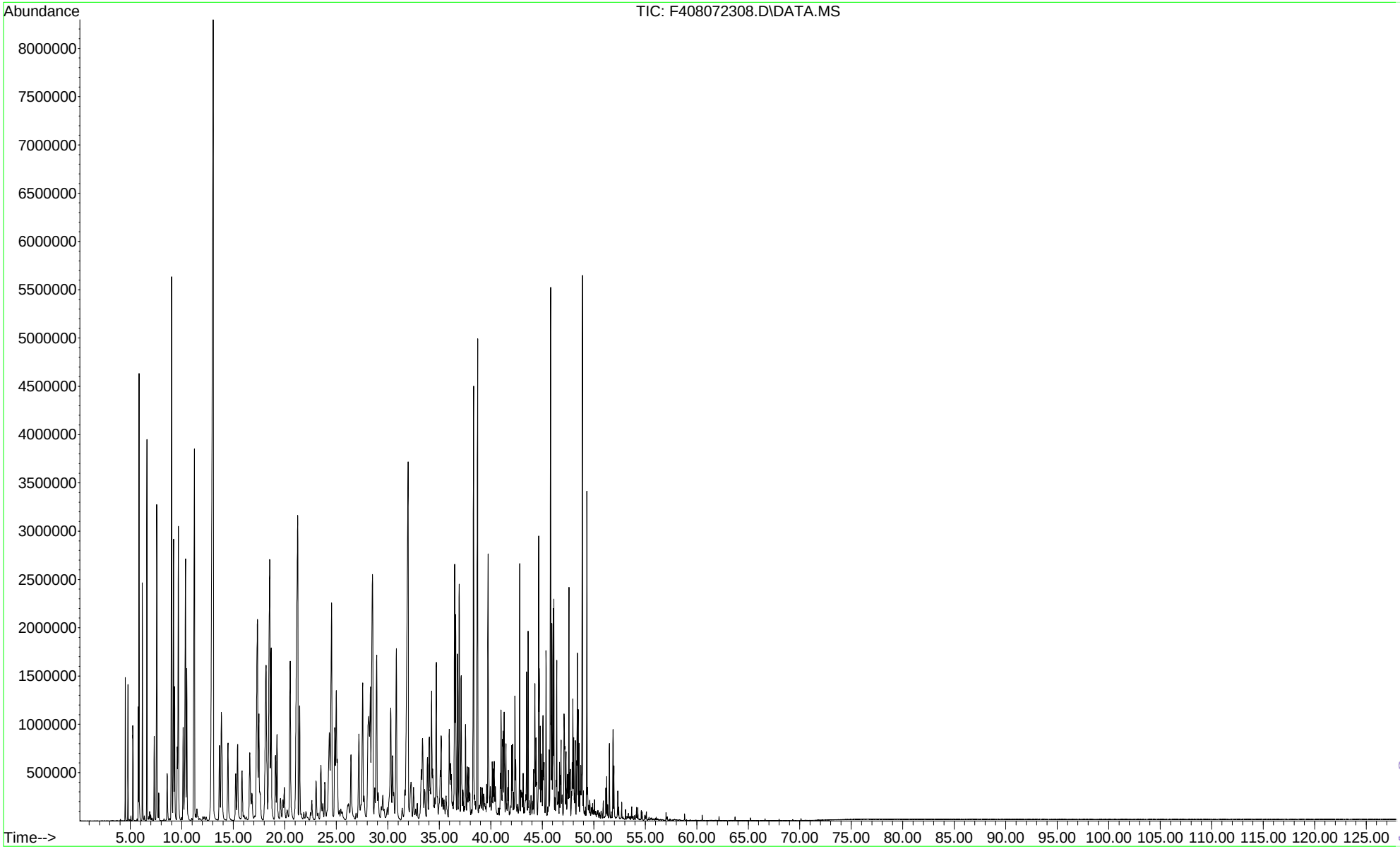
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Vial Number: 2



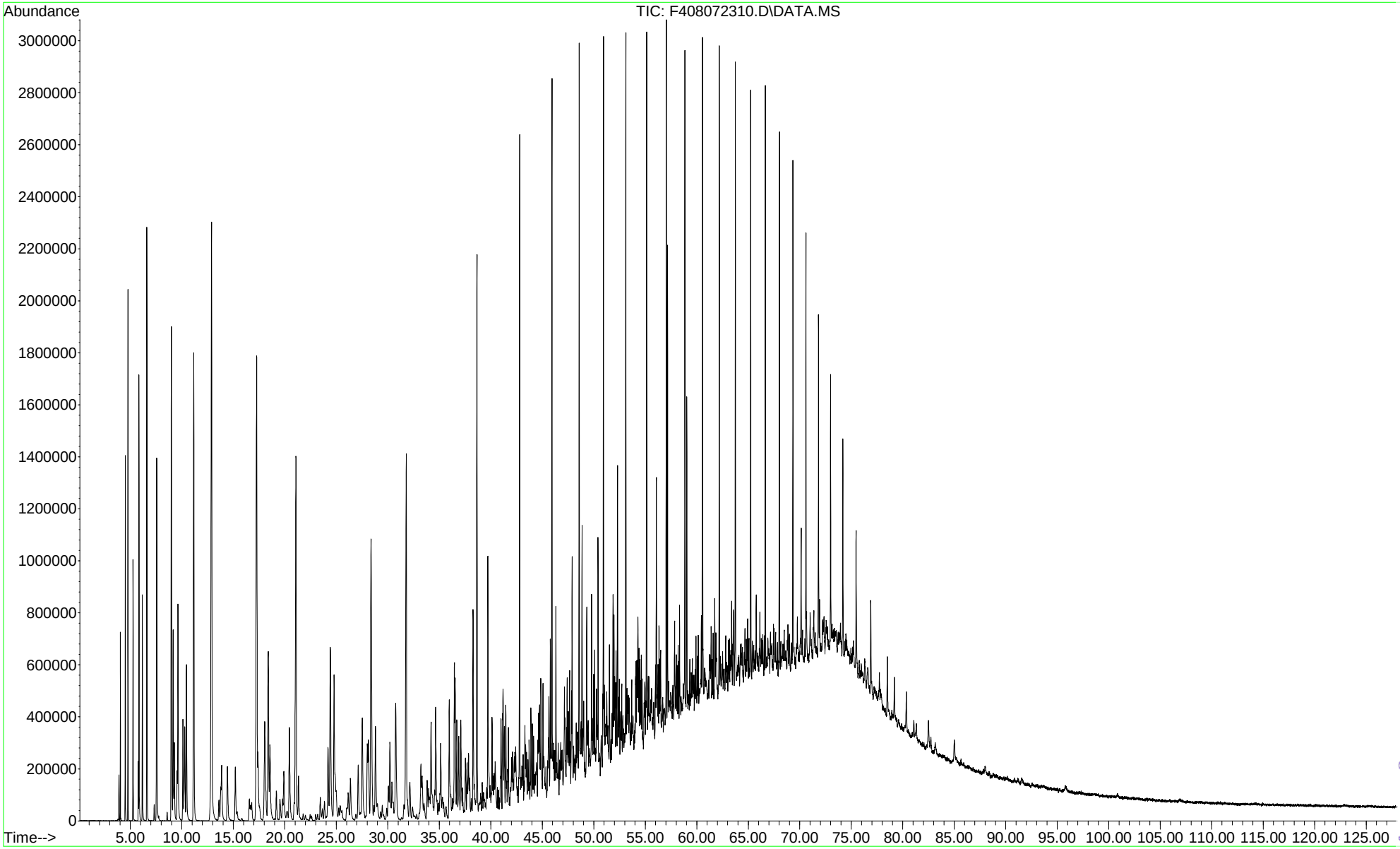
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Sample Name: LD7409092302
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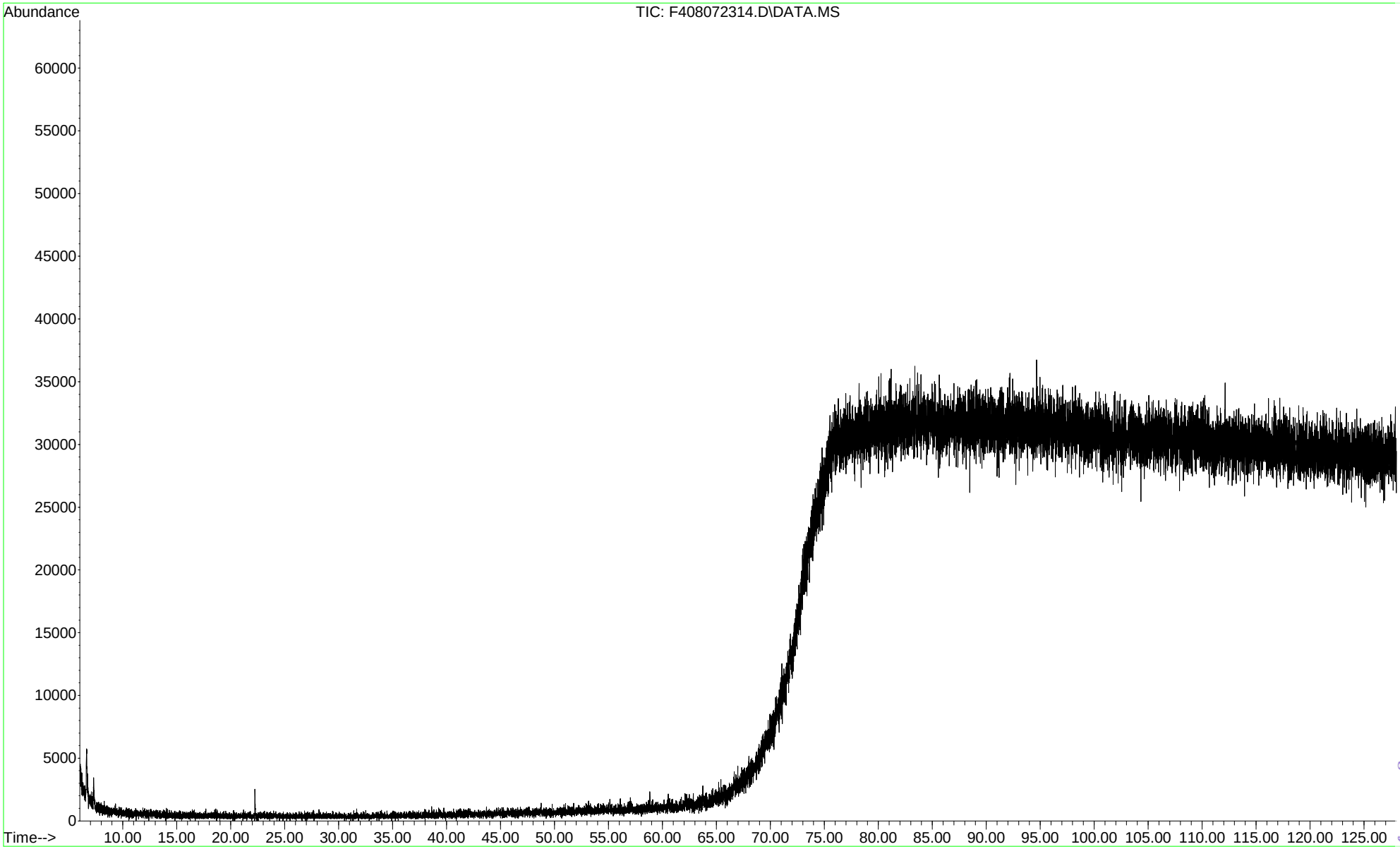
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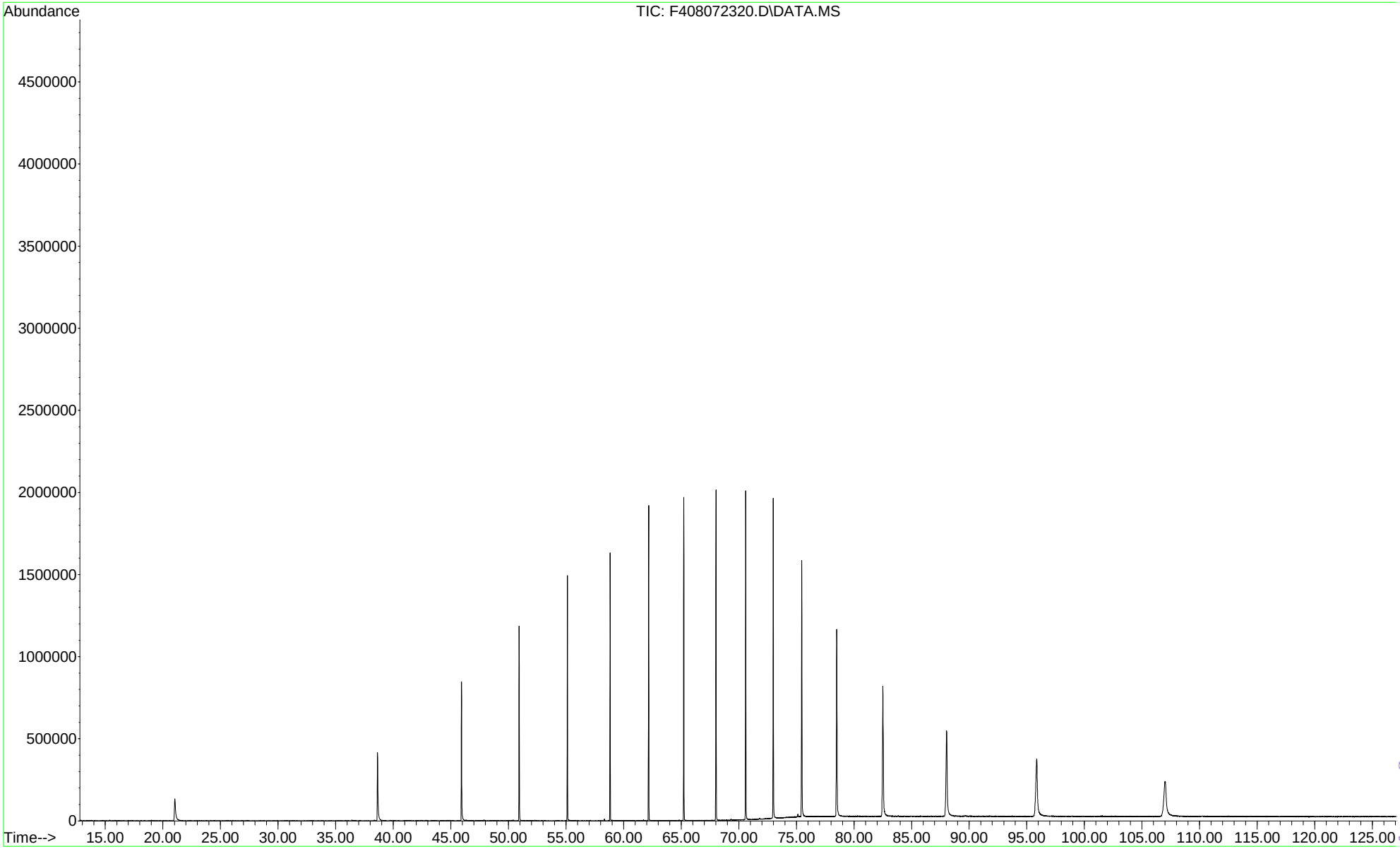
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Misc Info : DCM
Vial Number: 6



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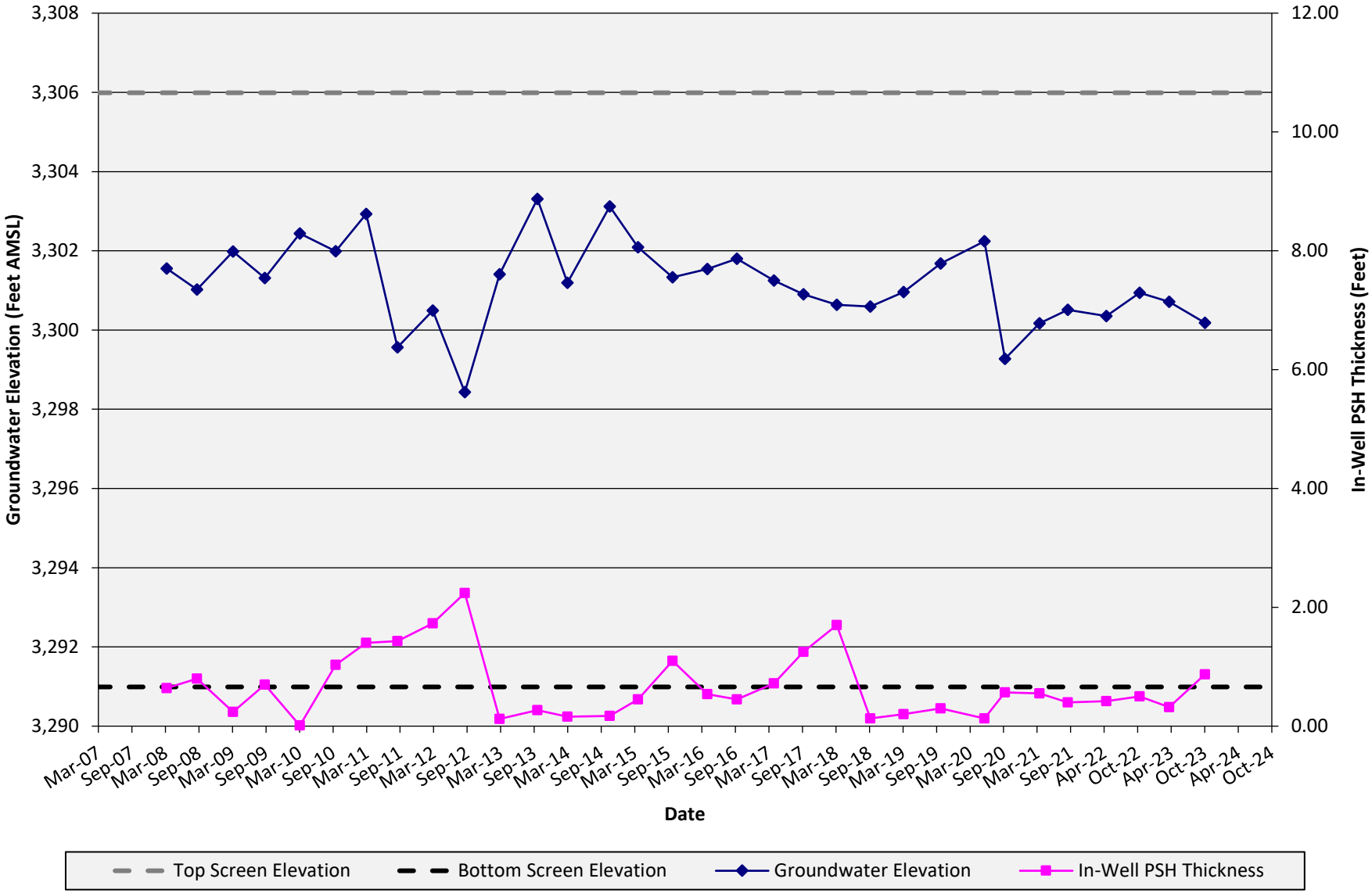
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Operator : AC
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Instrument : PAH 4
Sample Name: c409092304
Misc Info : DCM
Vial Number: 9



MW-85: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

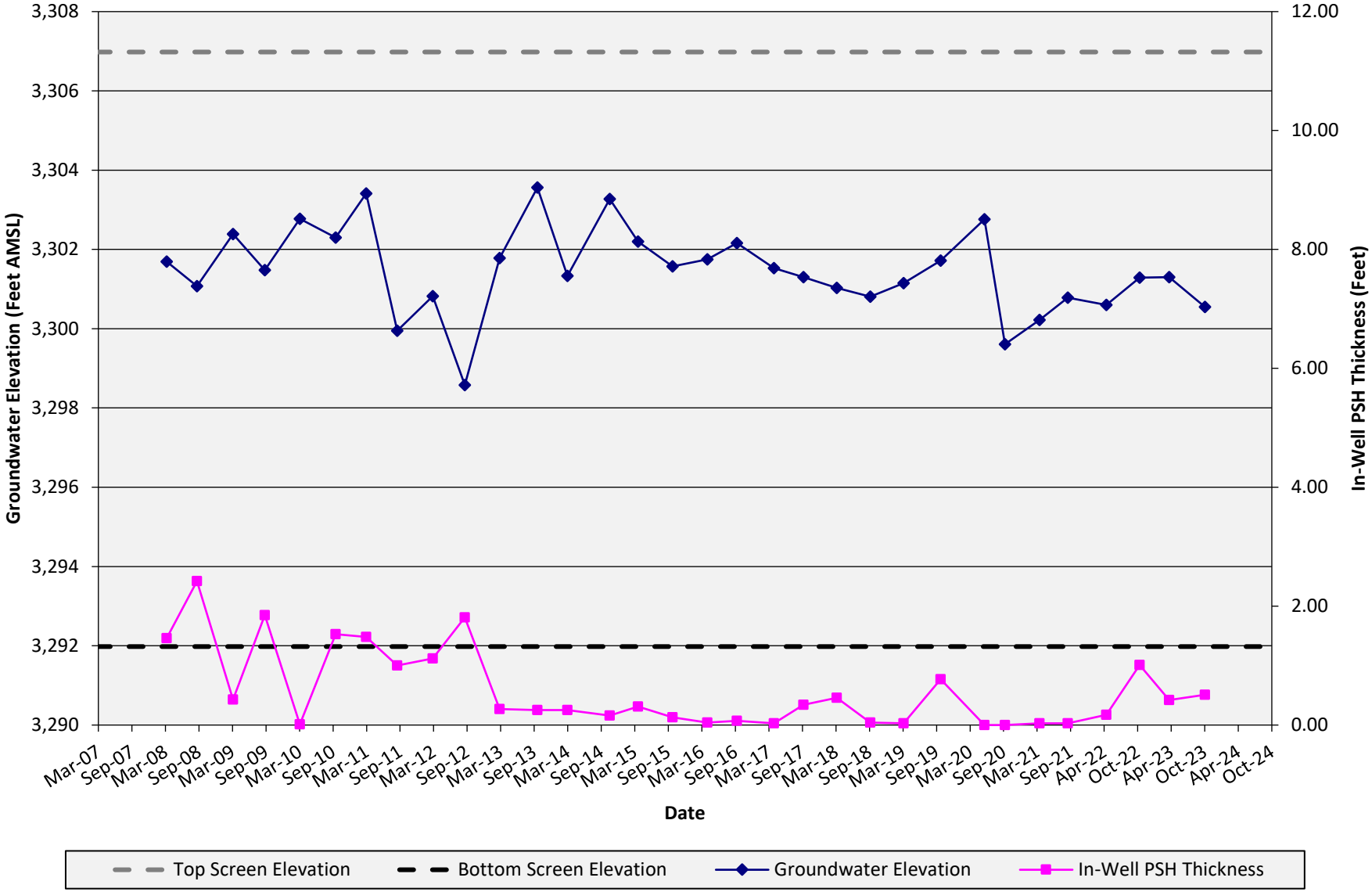
Evaporation Ponds



MW-86: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

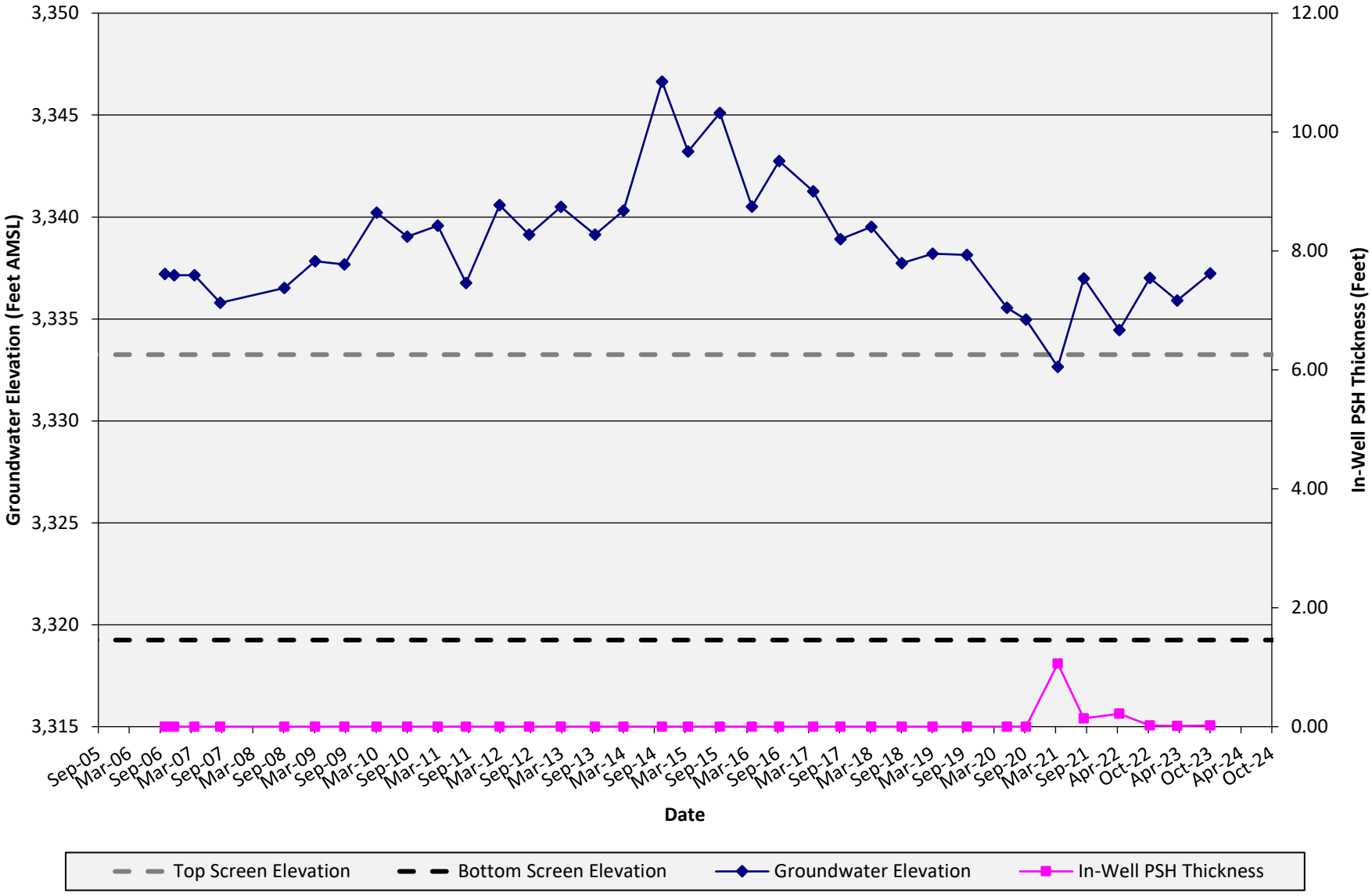
Evaporation Ponds



KWB-1A: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

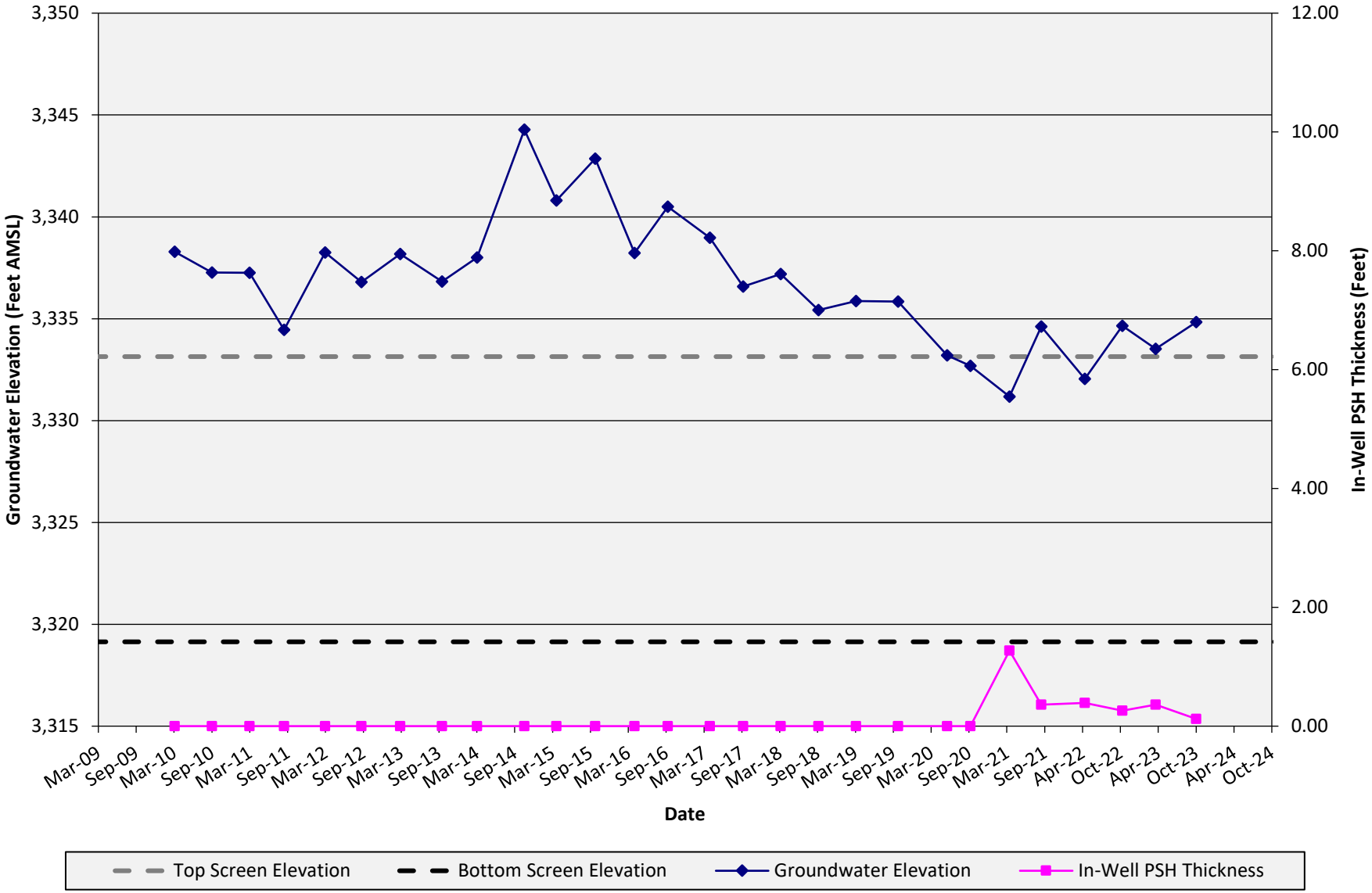
Field East of Refinery



KWB-1B: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

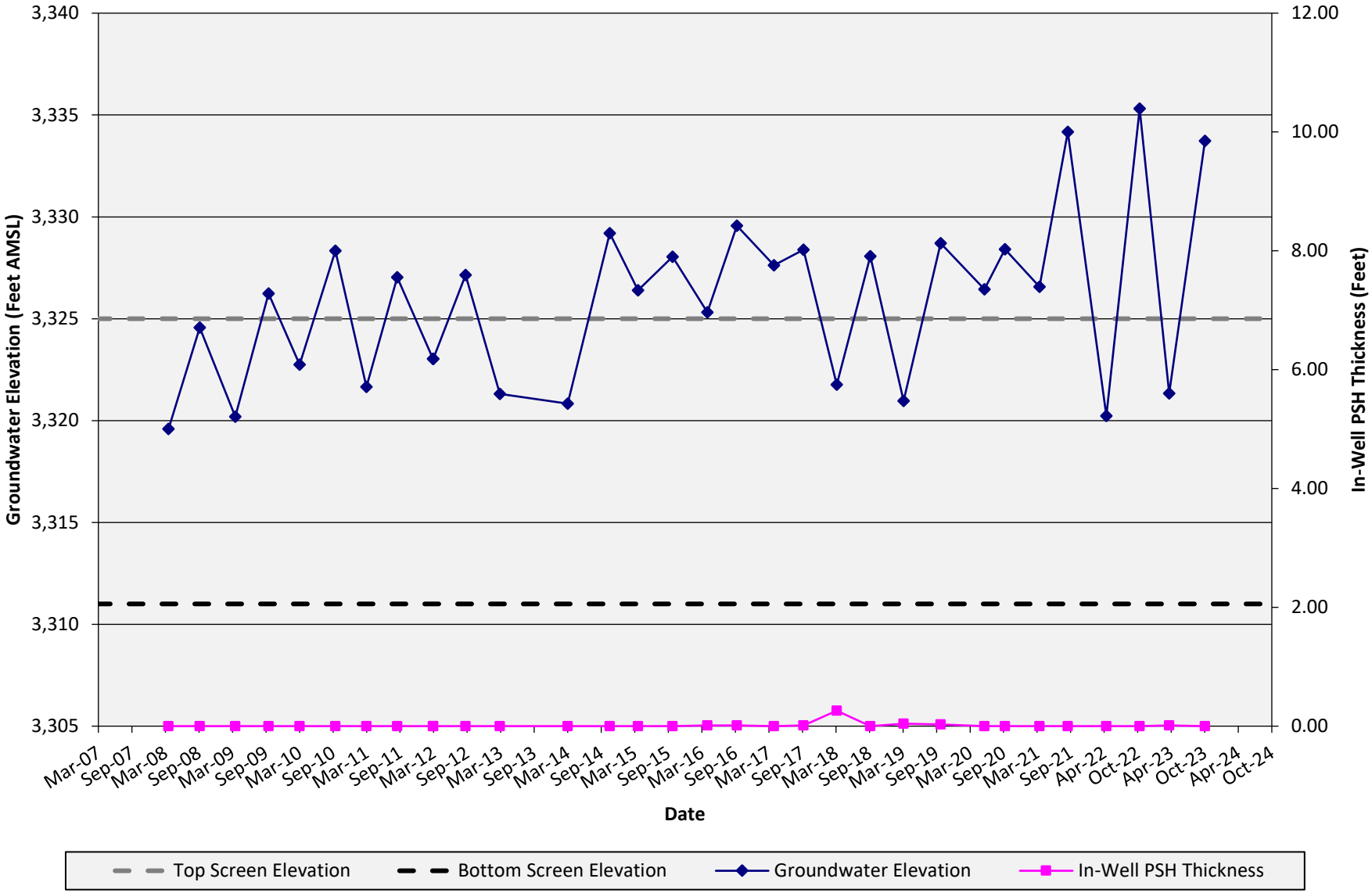
Field East of Refinery



KWB-7: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

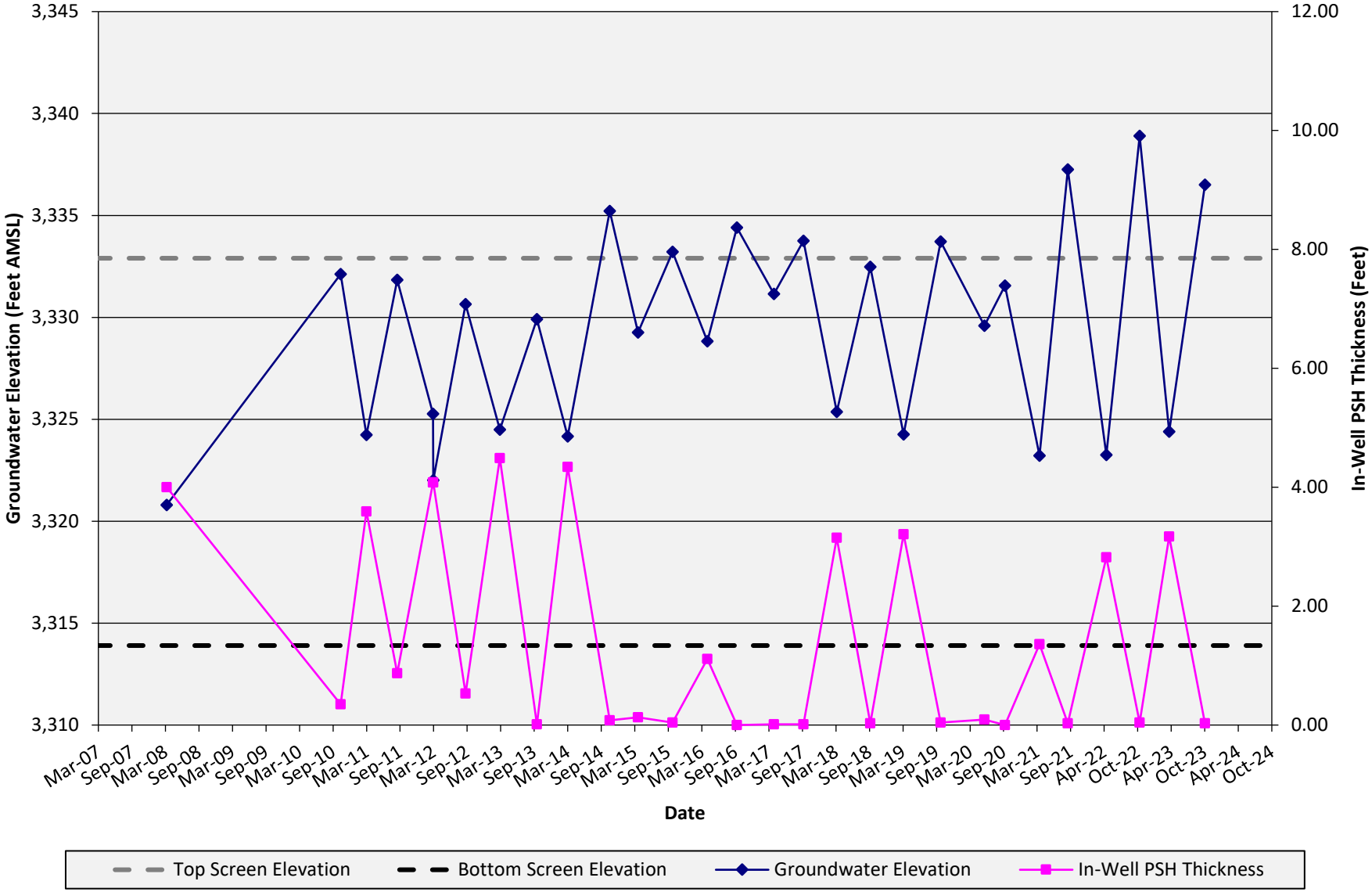
Field East of Refinery



KWB-8: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

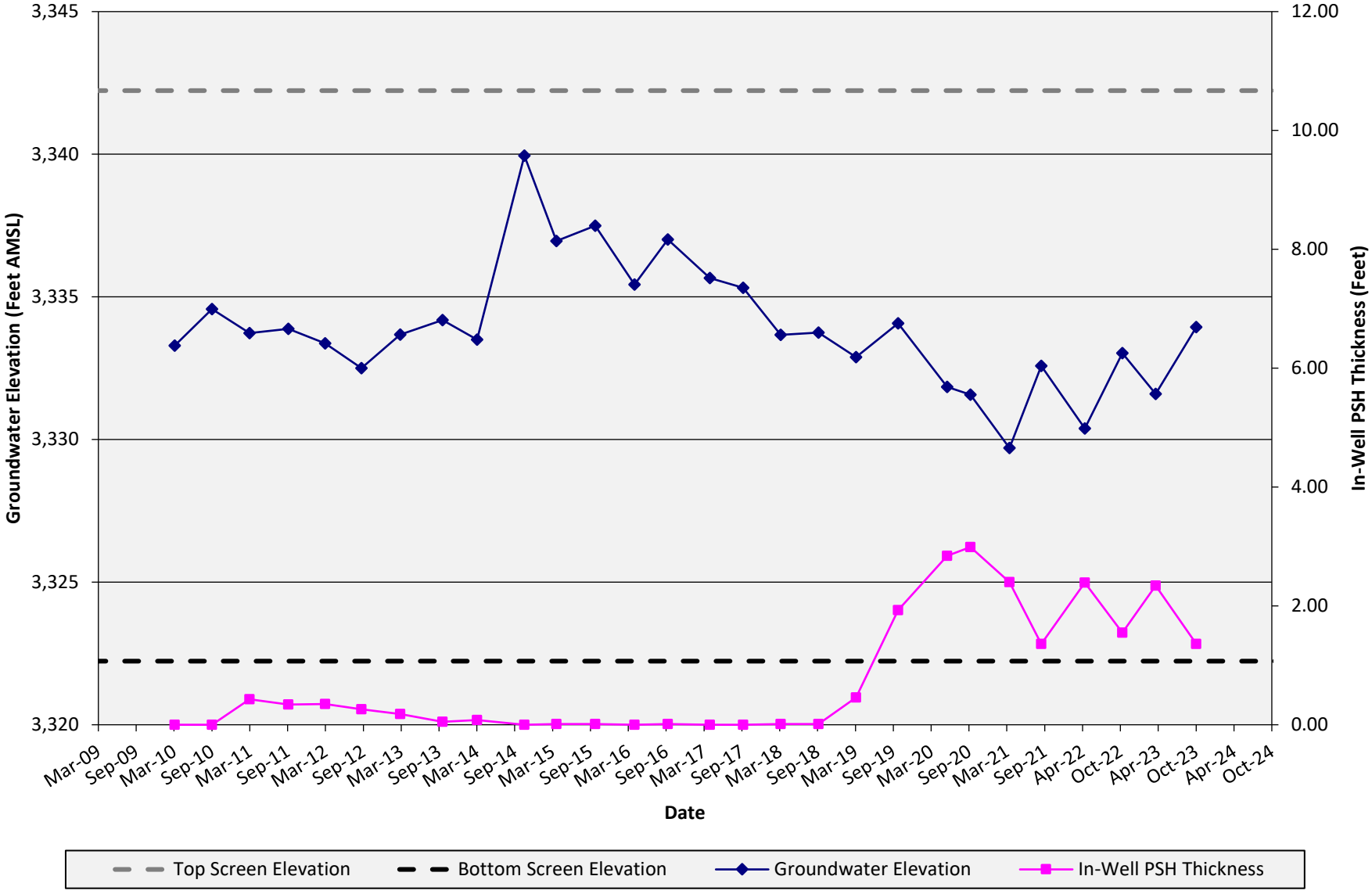
Field East of Refinery



KWB-10R: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

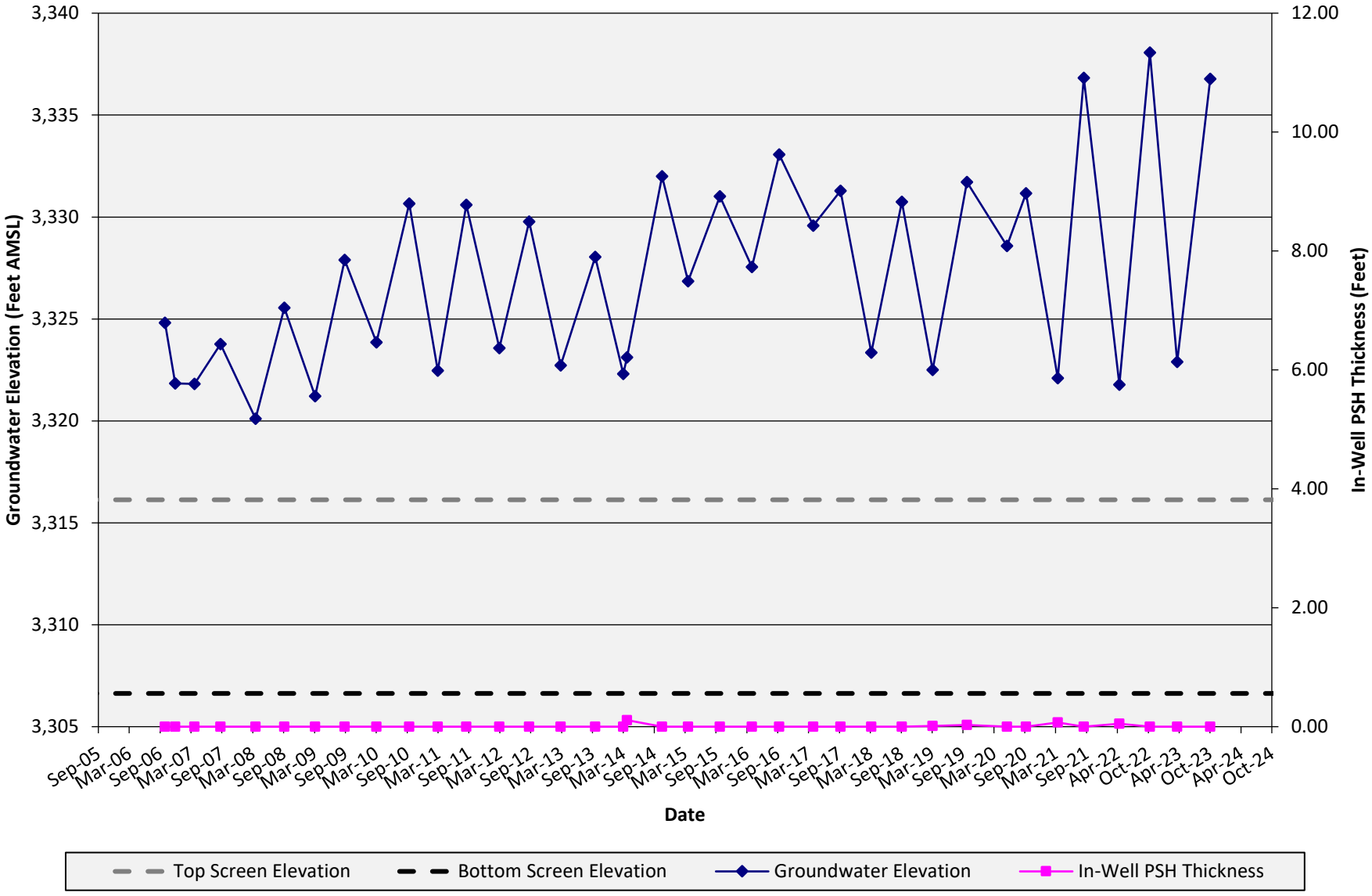
Field East of Refinery



KWB-11A: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

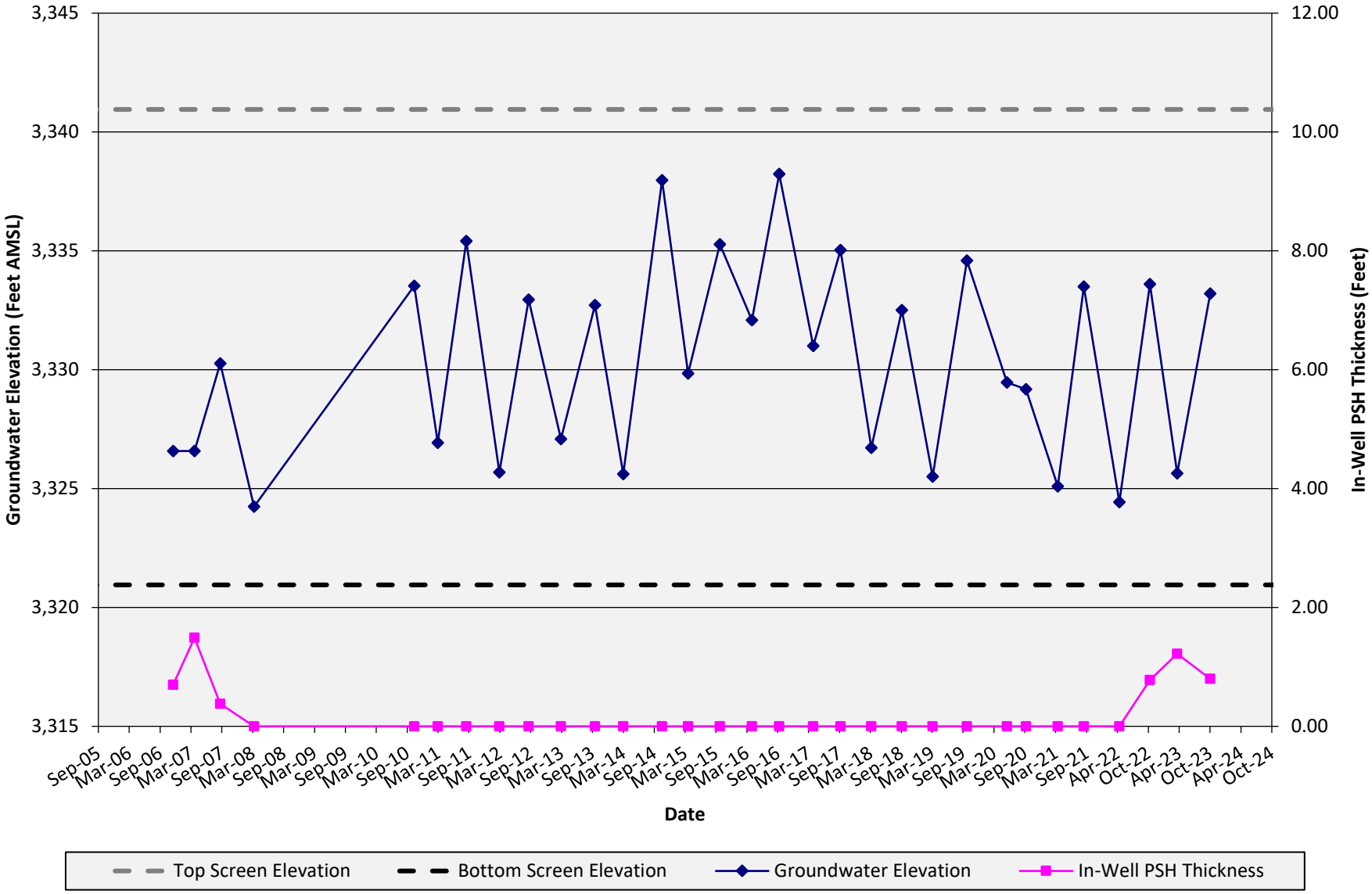
Field East of Refinery



MW-57: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

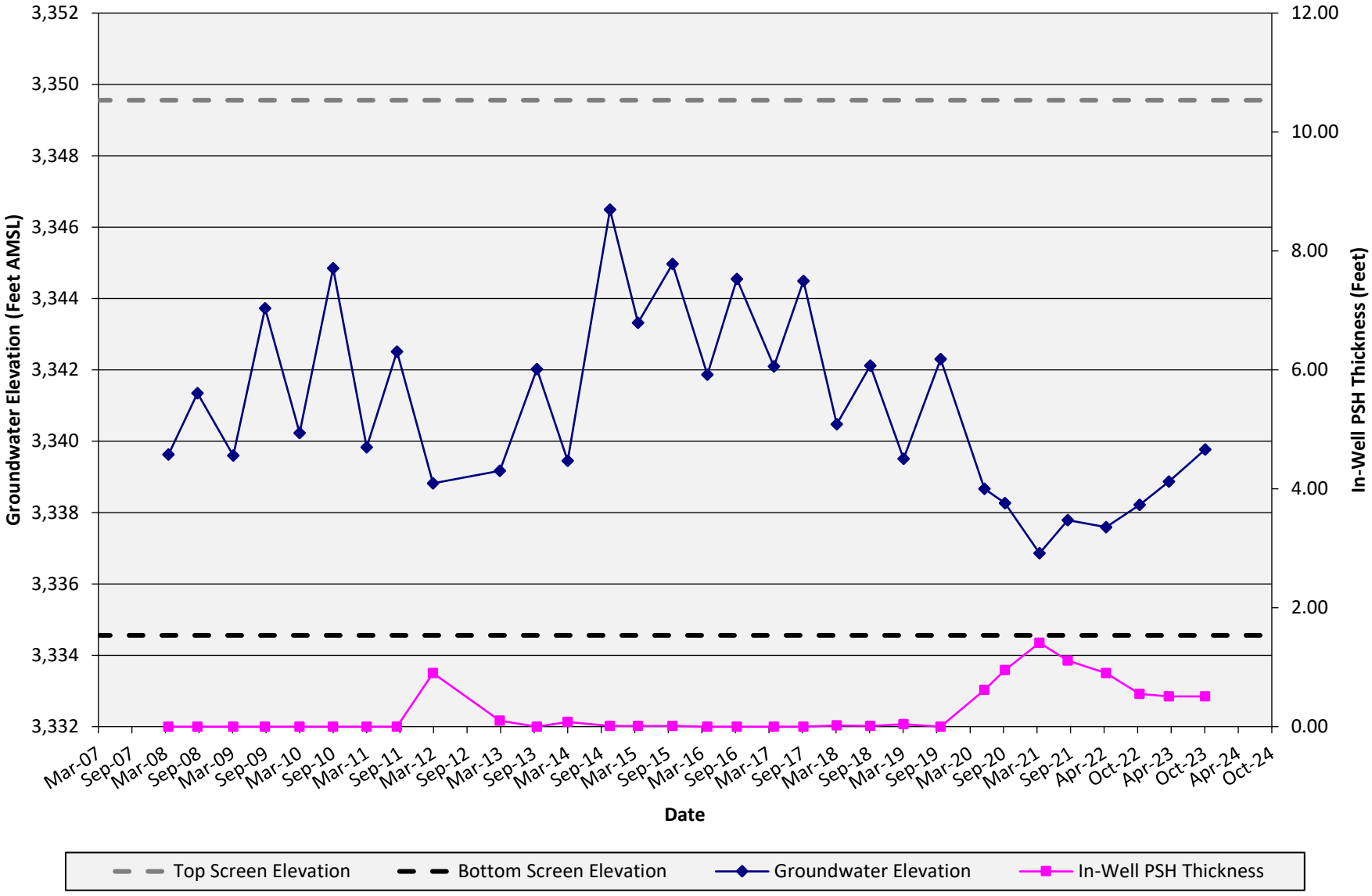
Field East of Refinery



MW-58: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

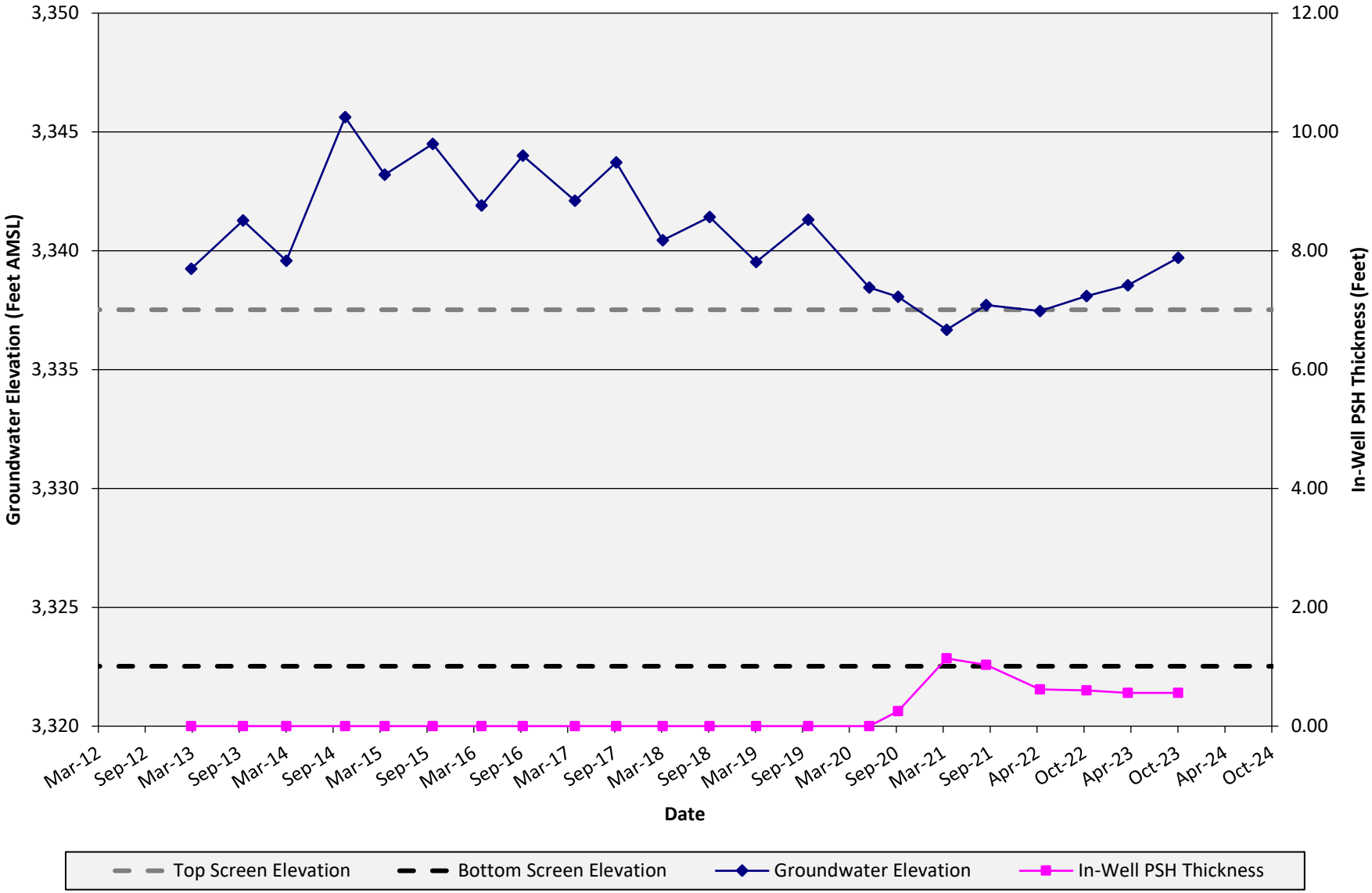
Field East of Refinery



MW-111: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

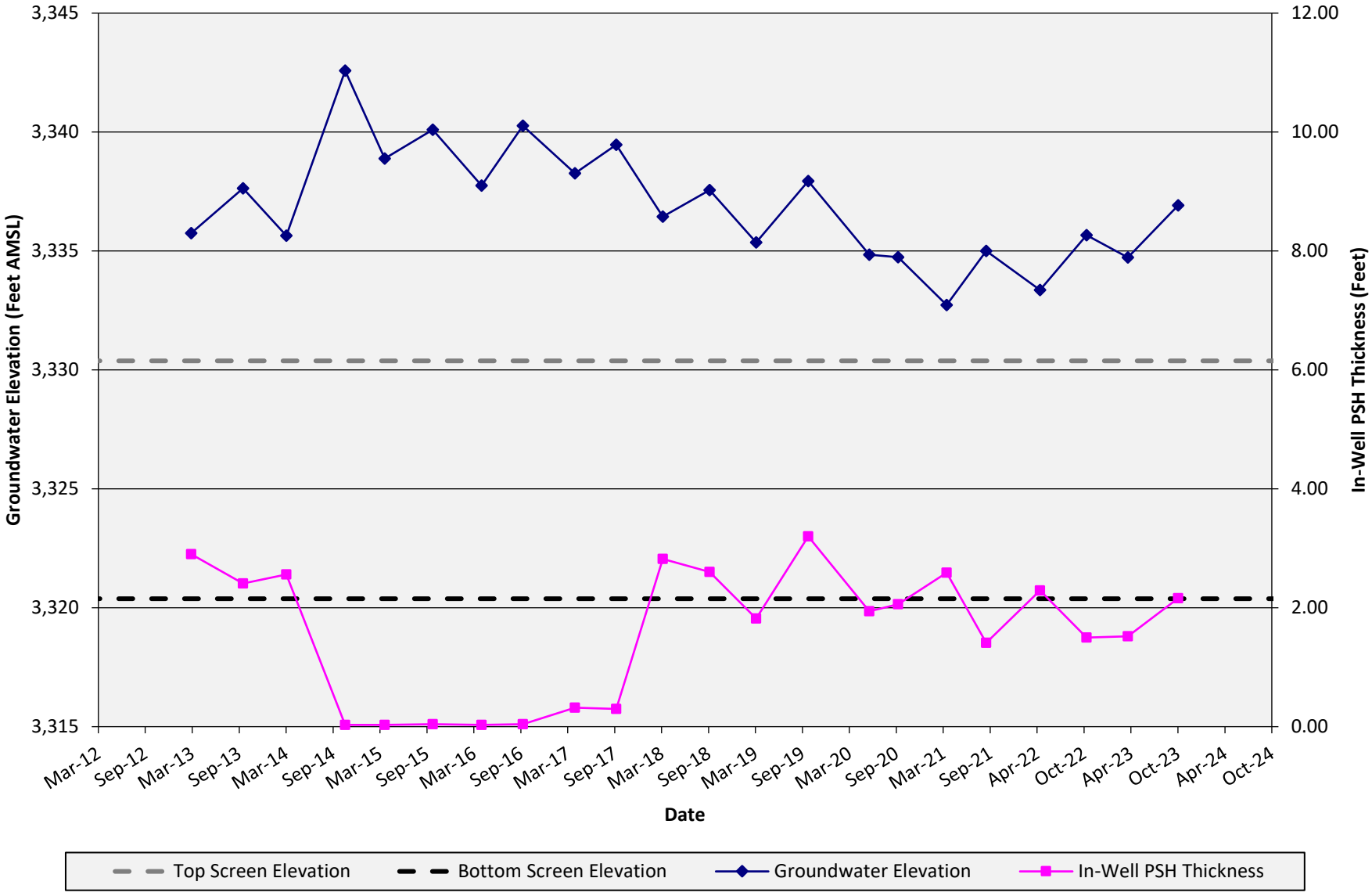
Field East of Refinery



MW-112: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

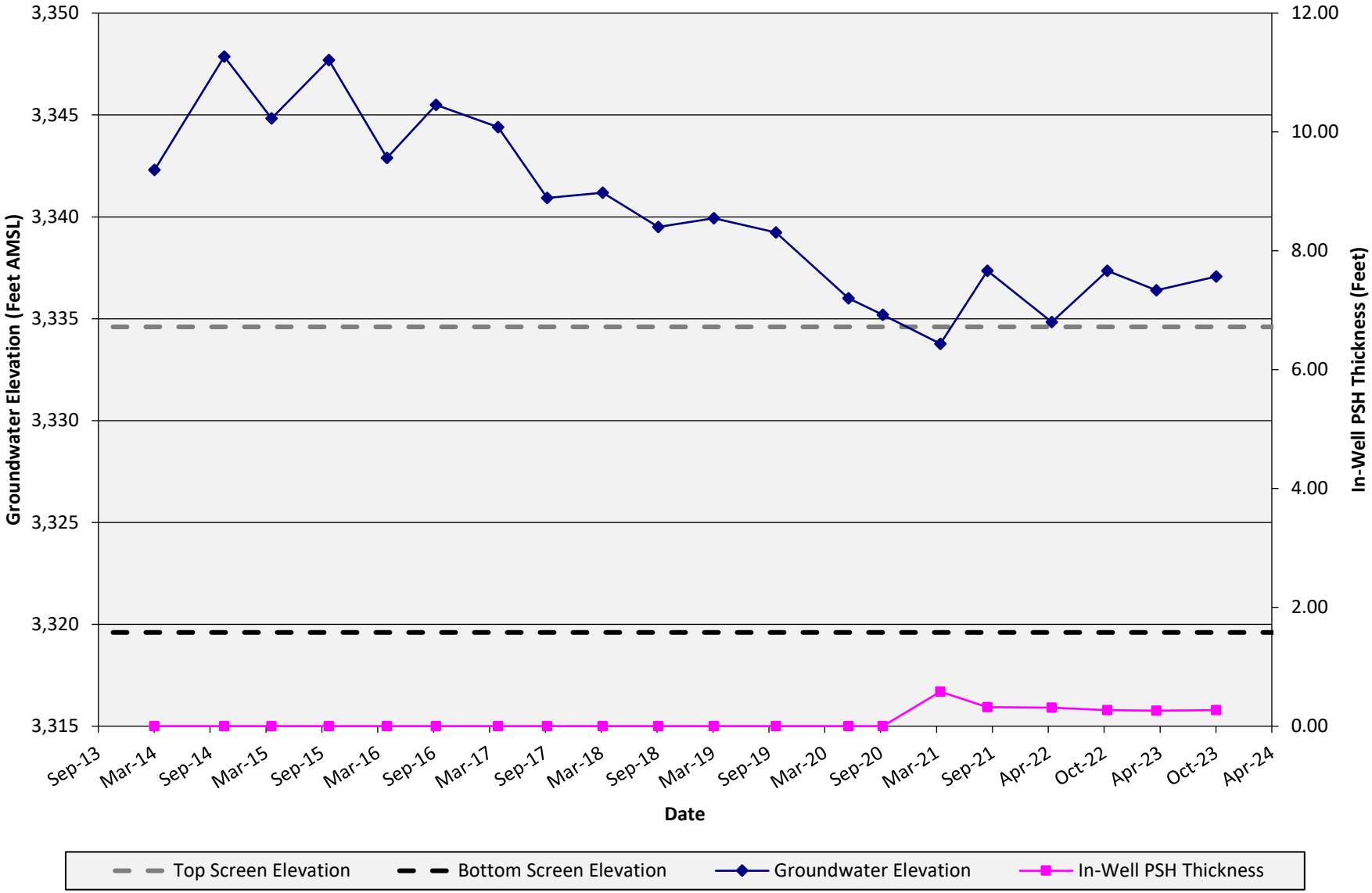
Field East of Refinery



MW-126A: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

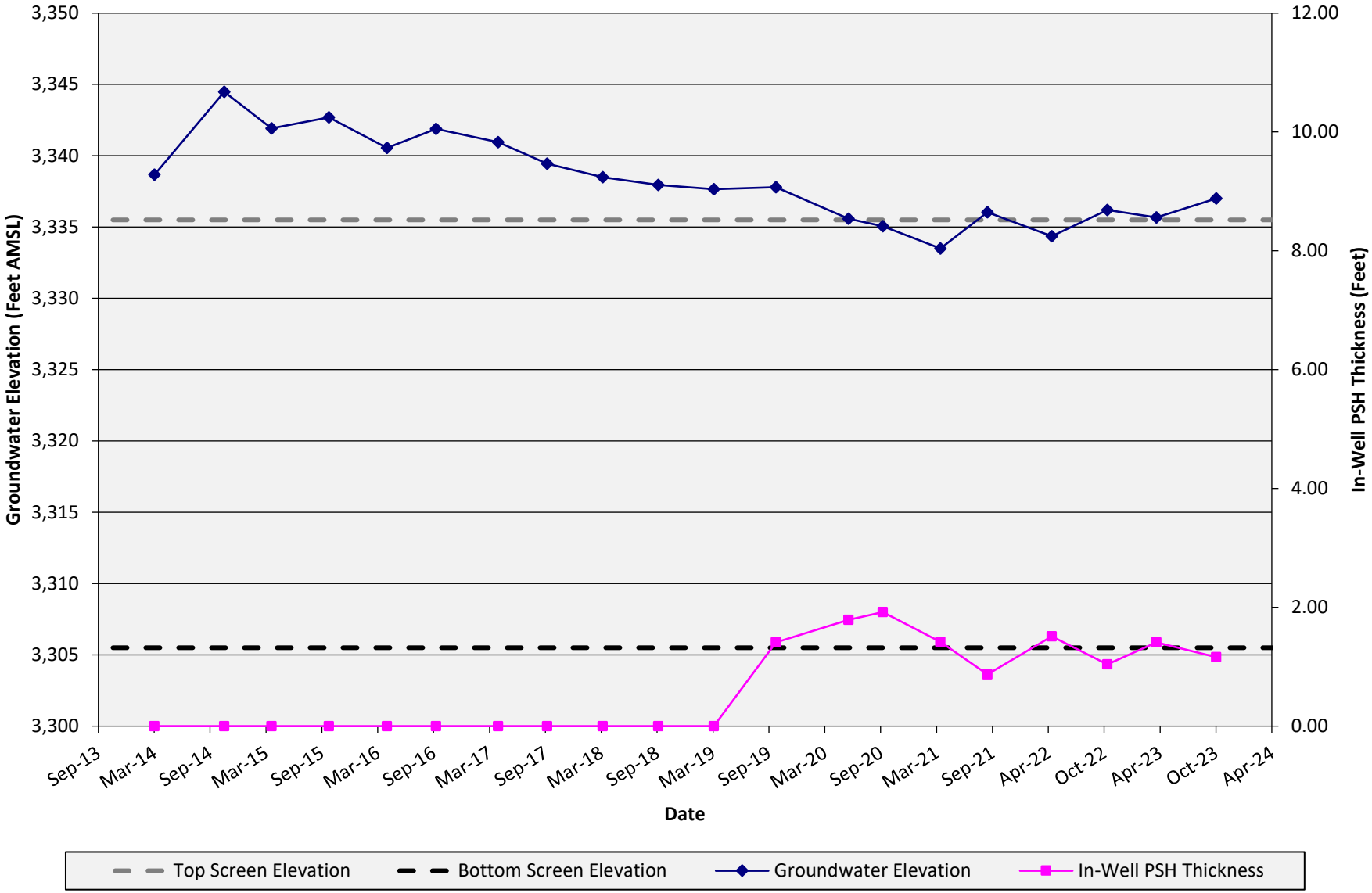
Field East of Refinery



MW-127: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

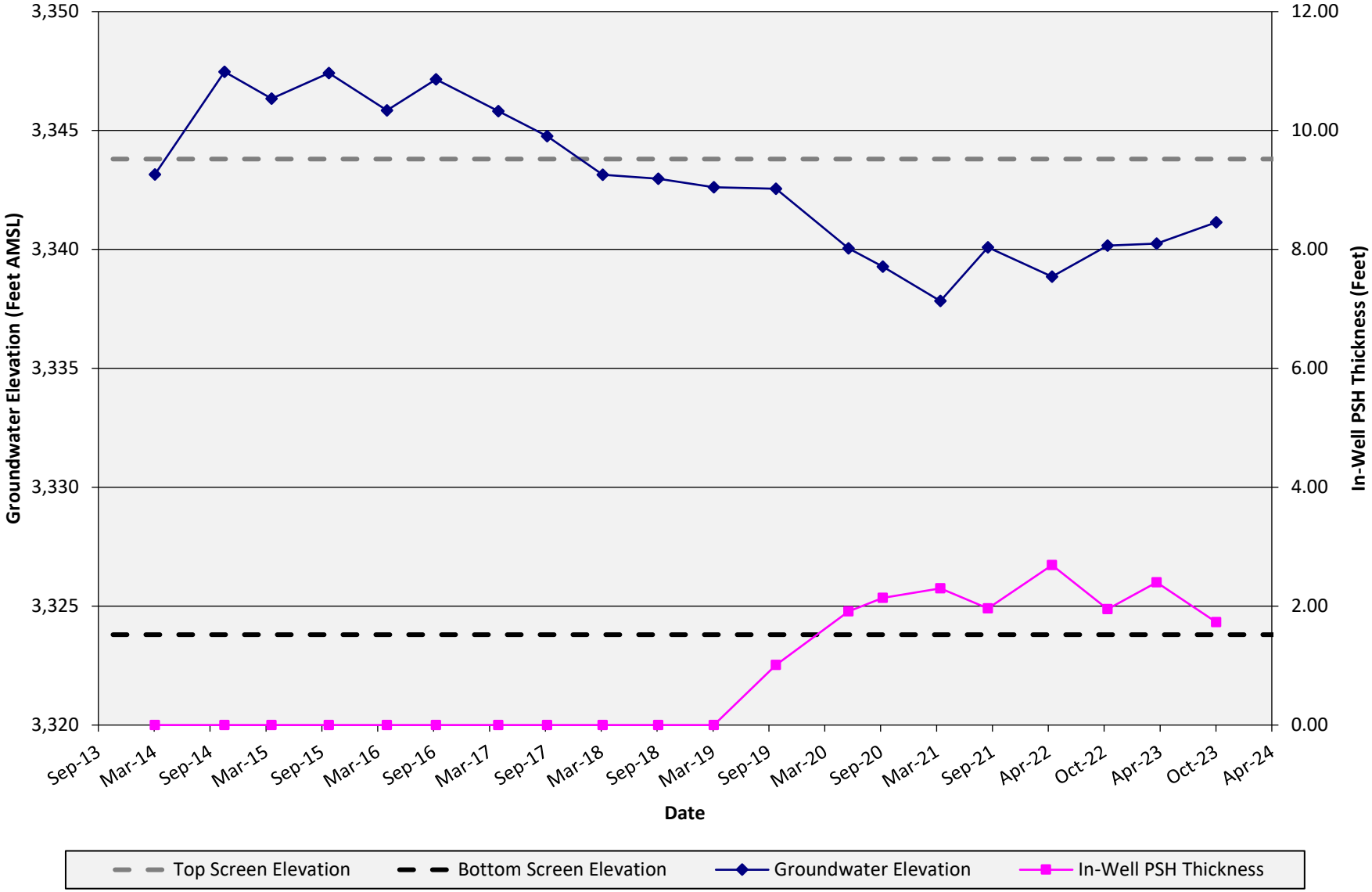
Field East of Refinery



MW-128: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

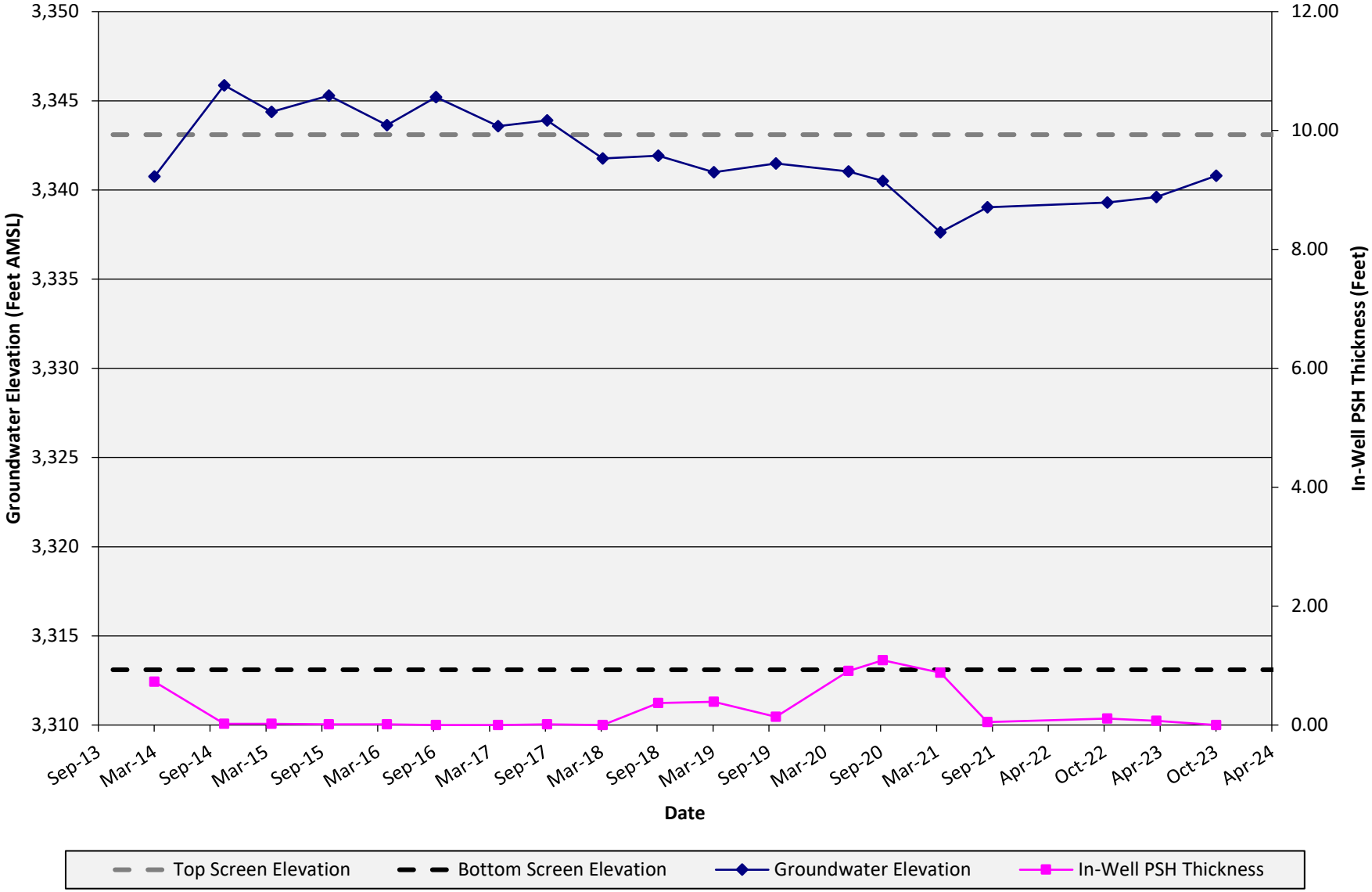
Field East of Refinery



MW-129: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

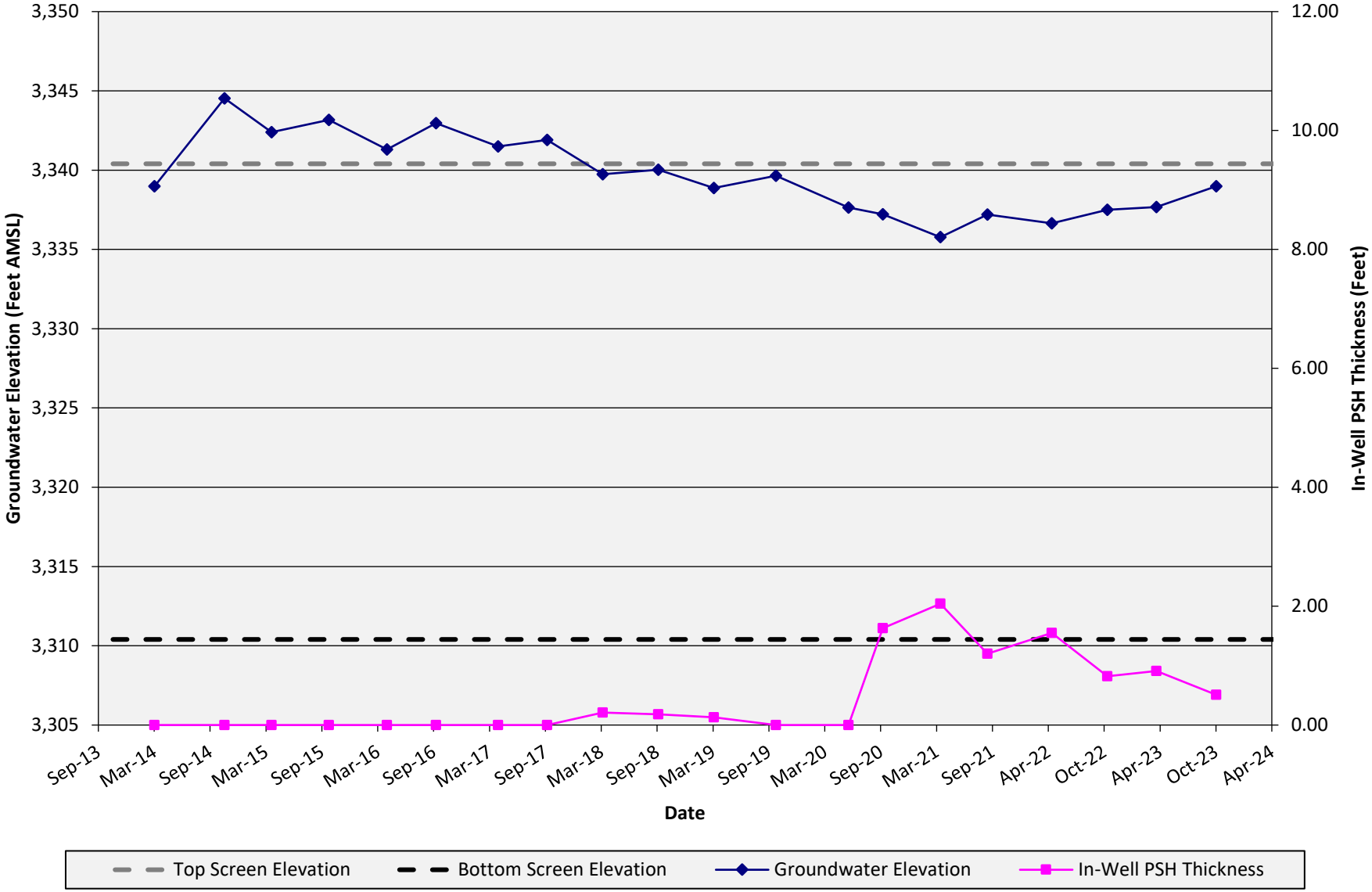
Field East of Refinery



MW-131: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

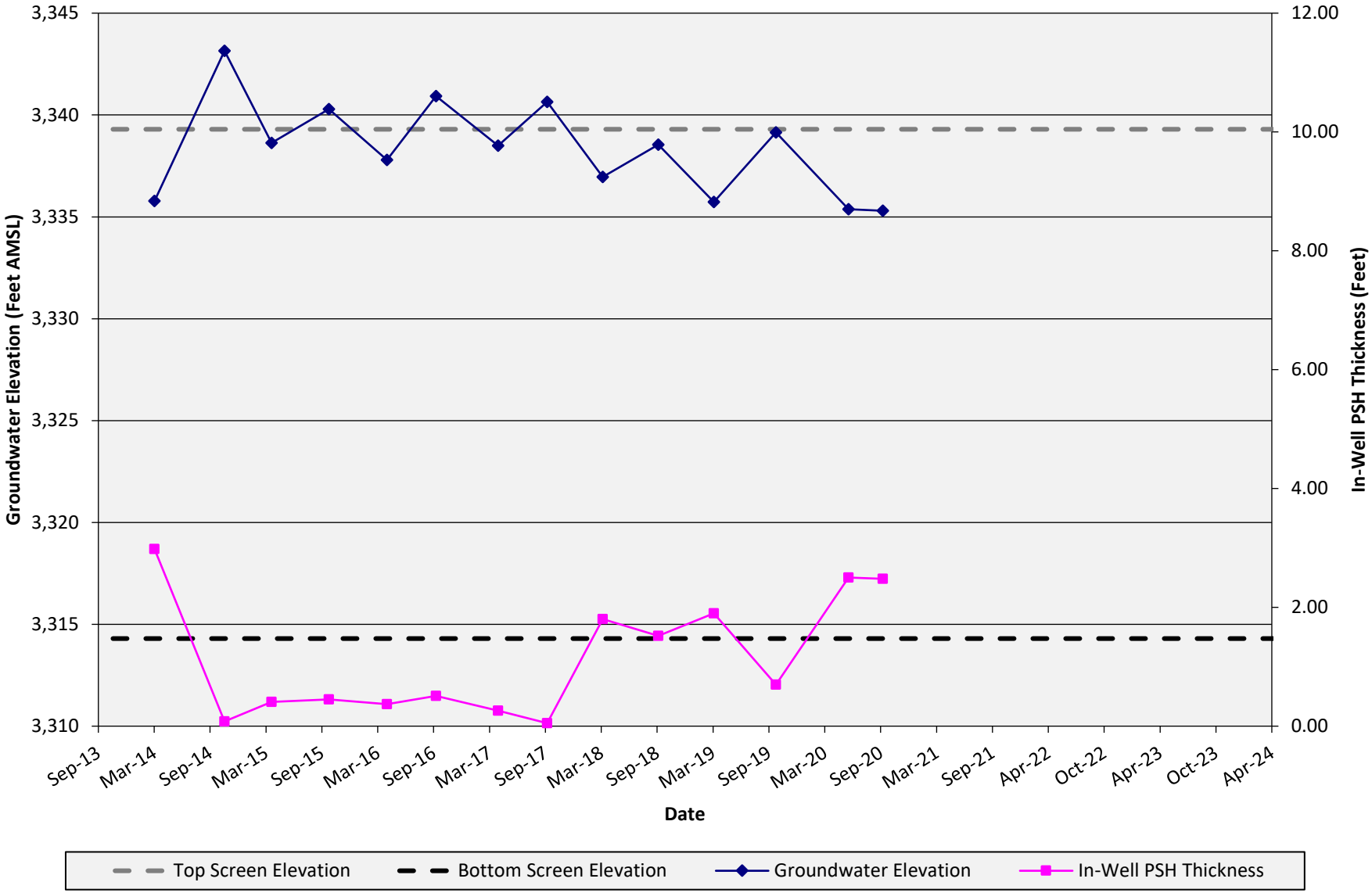
Field East of Refinery



MW-132: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

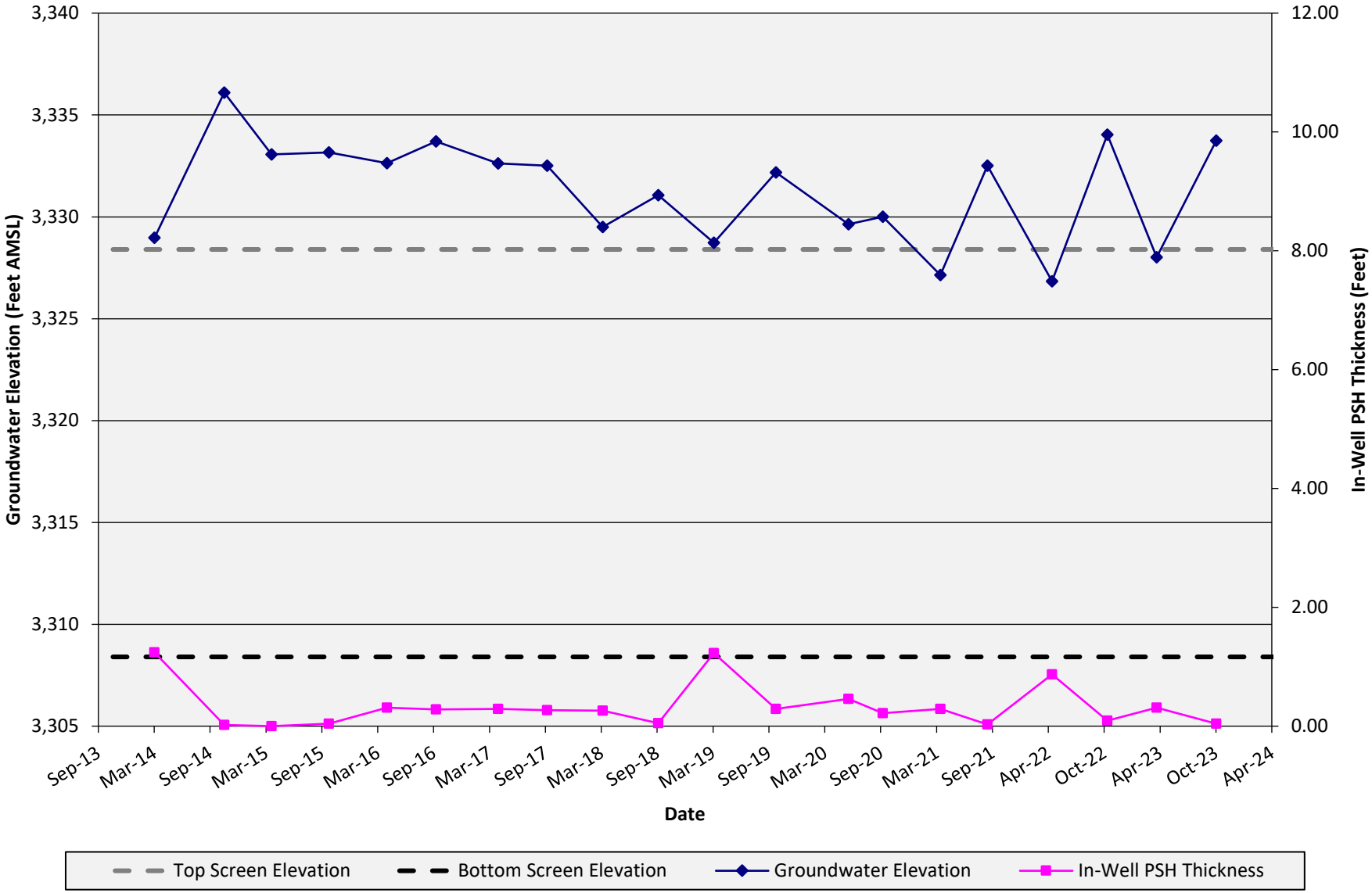
Field East of Refinery



MW-133: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

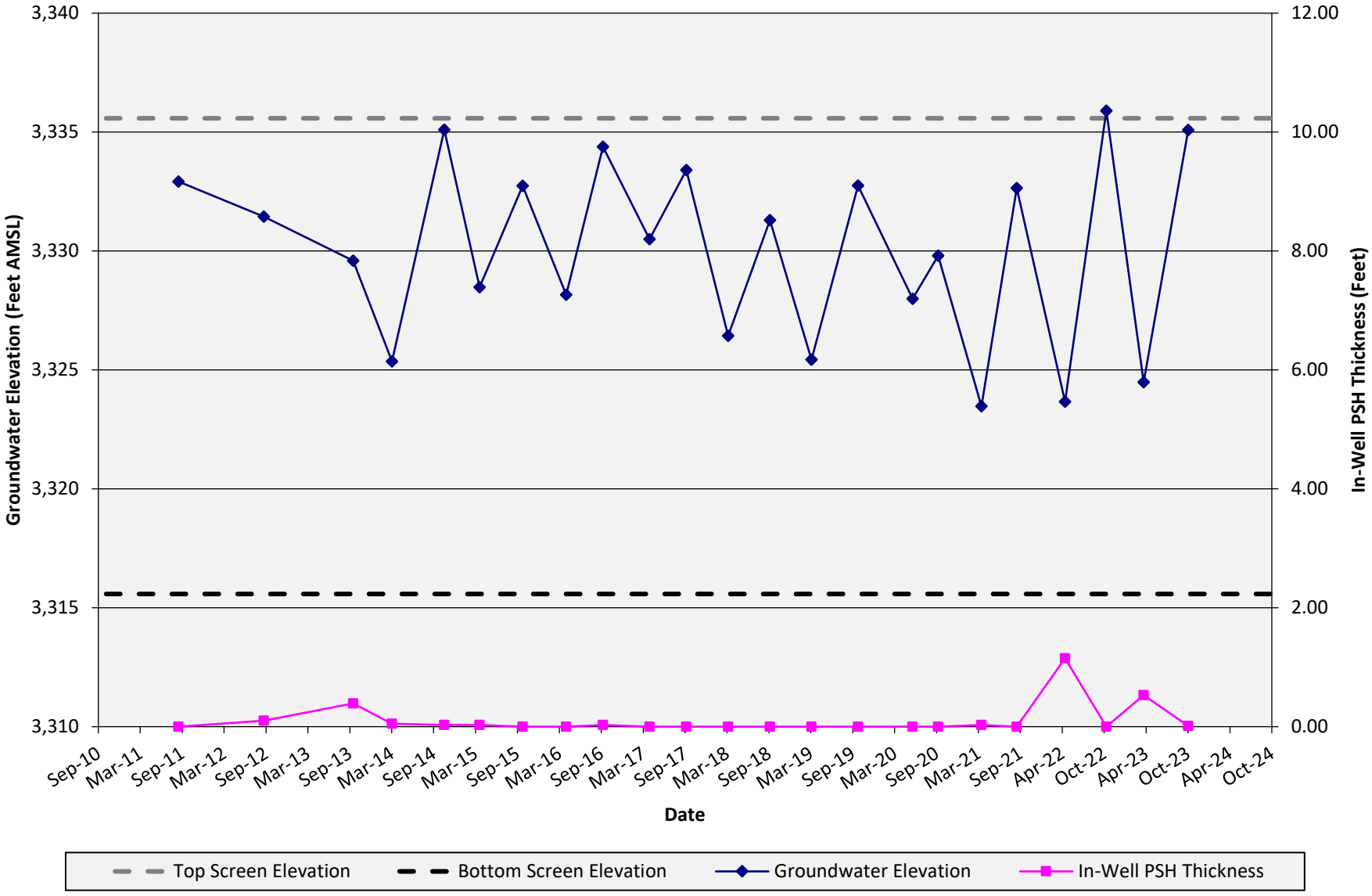
Field East of Refinery



RW-12R: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

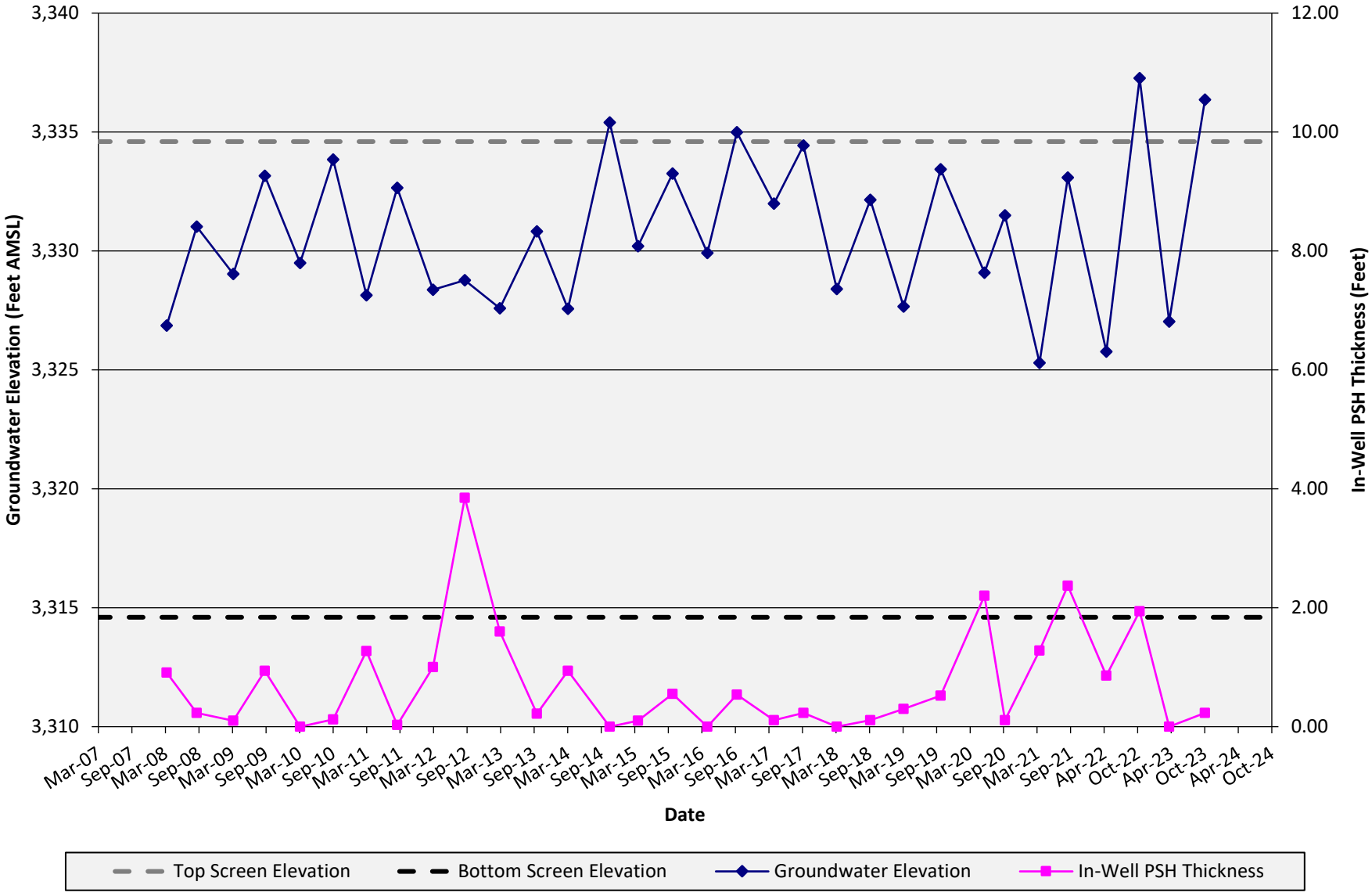
Field East of Refinery



RW-13R: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

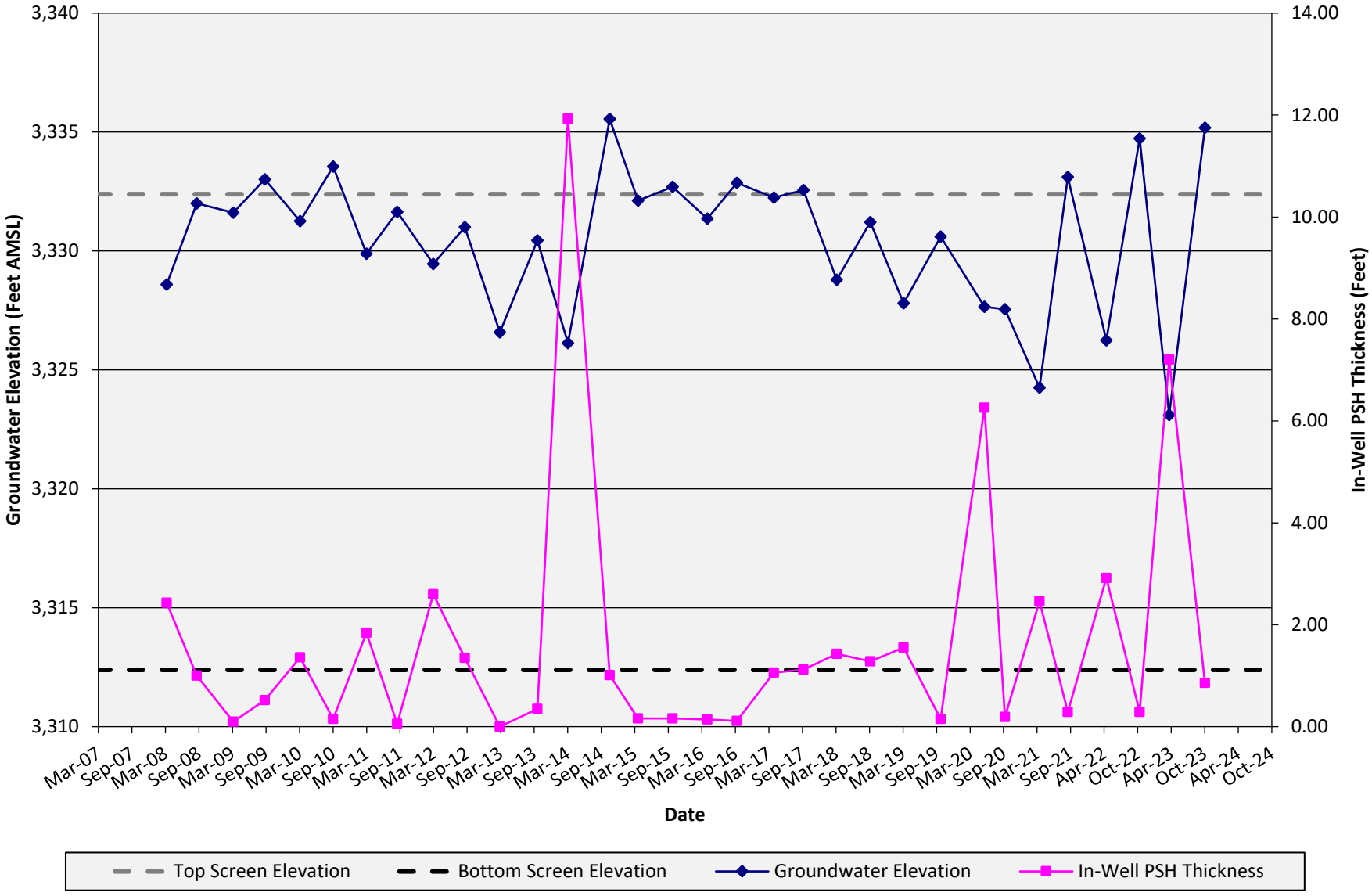
Field East of Refinery



RW-14R: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

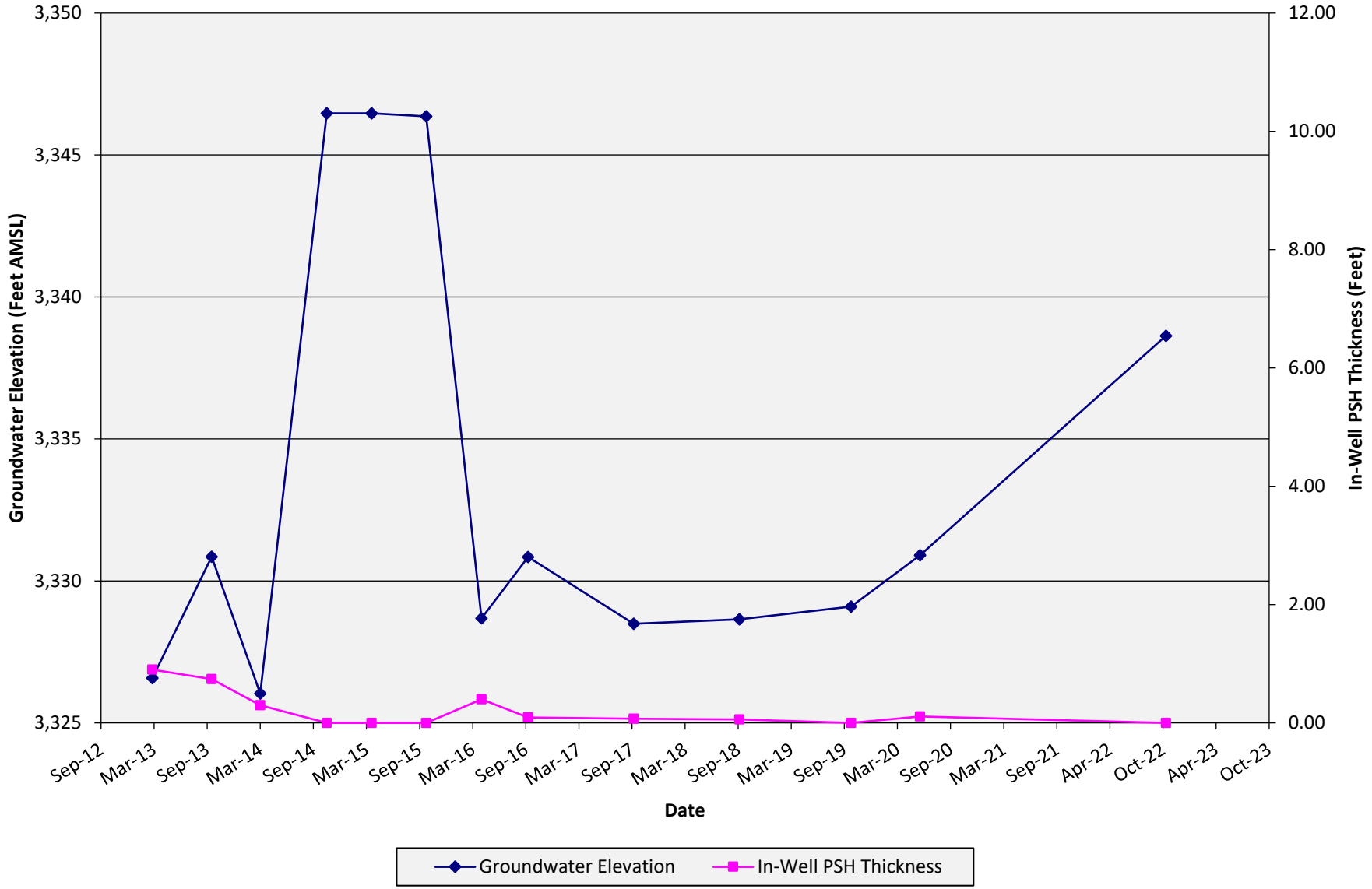
Field East of Refinery



RW-20/RW-20A: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

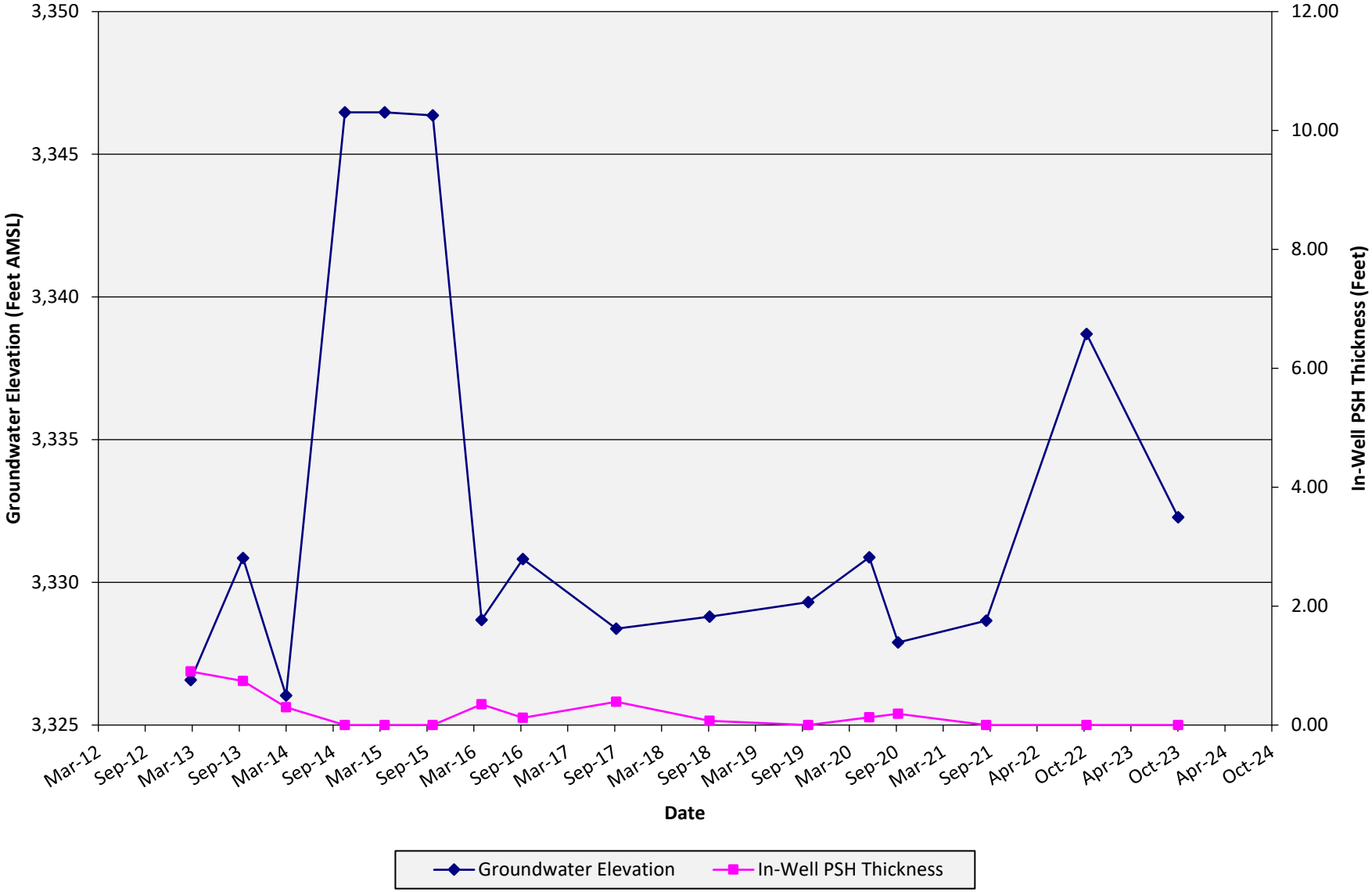
Field East of Refinery



RW-20B: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

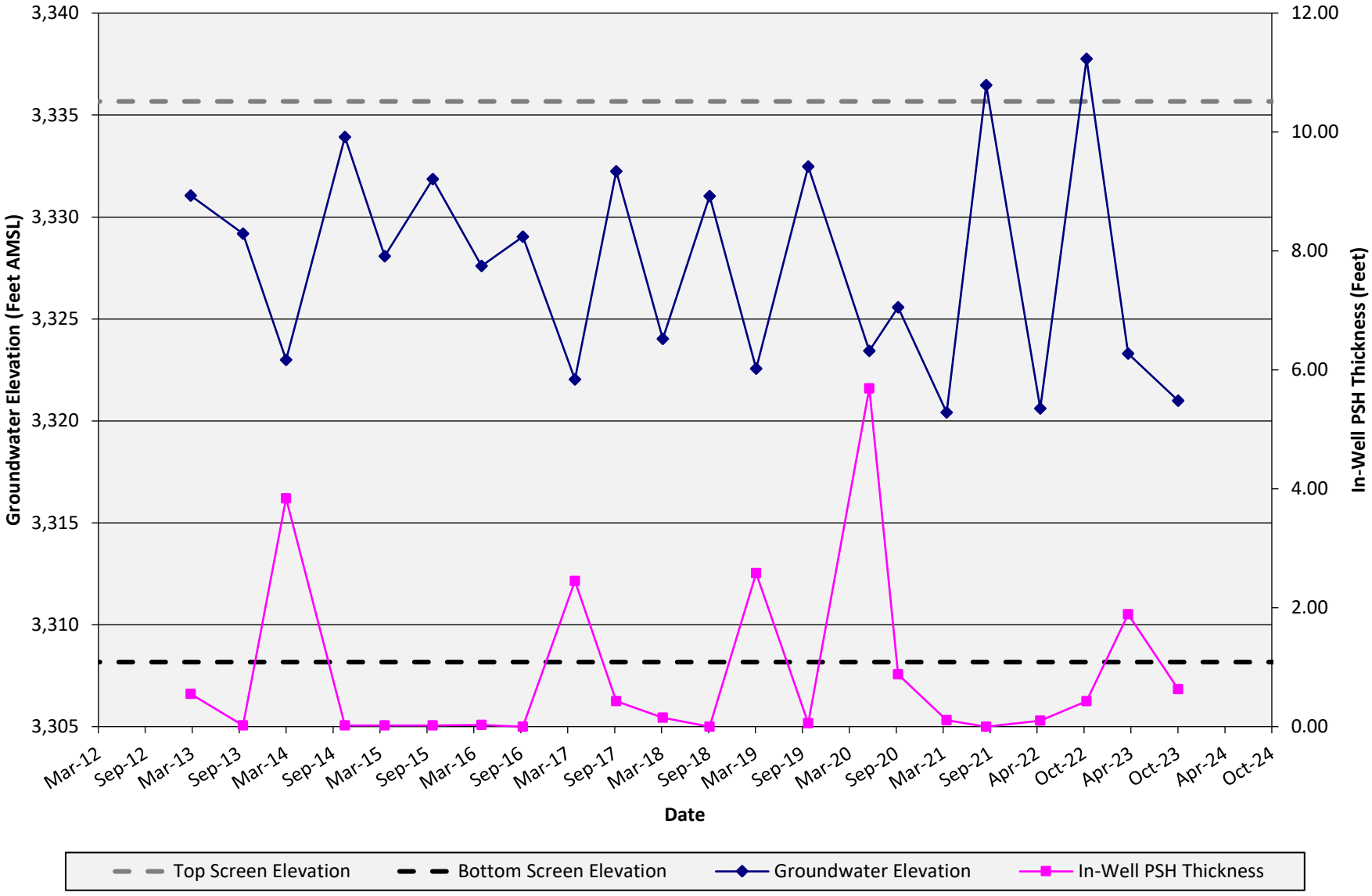
Field East of Refinery



RW-22: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

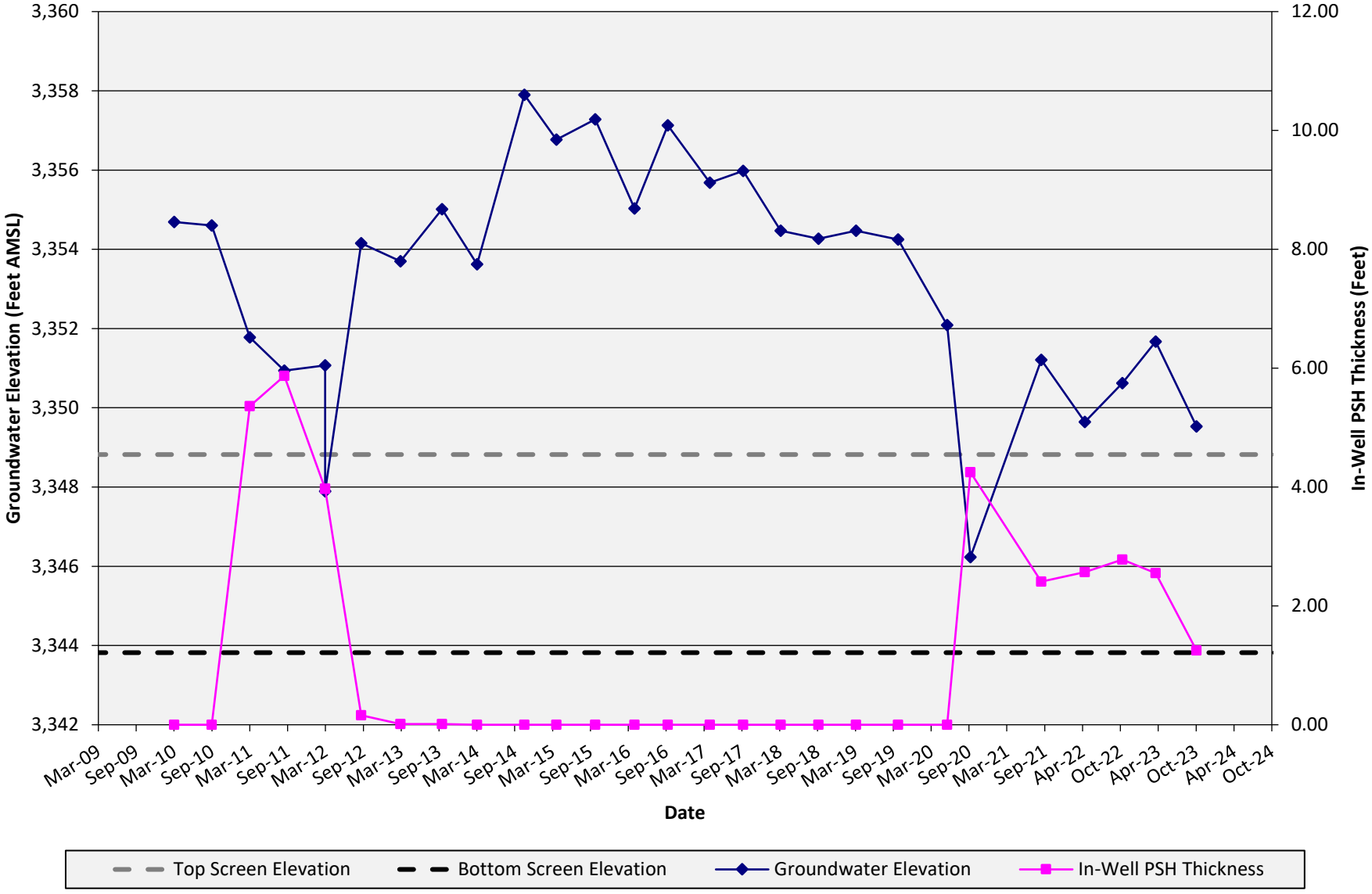
Field East of Refinery



NCL-34A: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

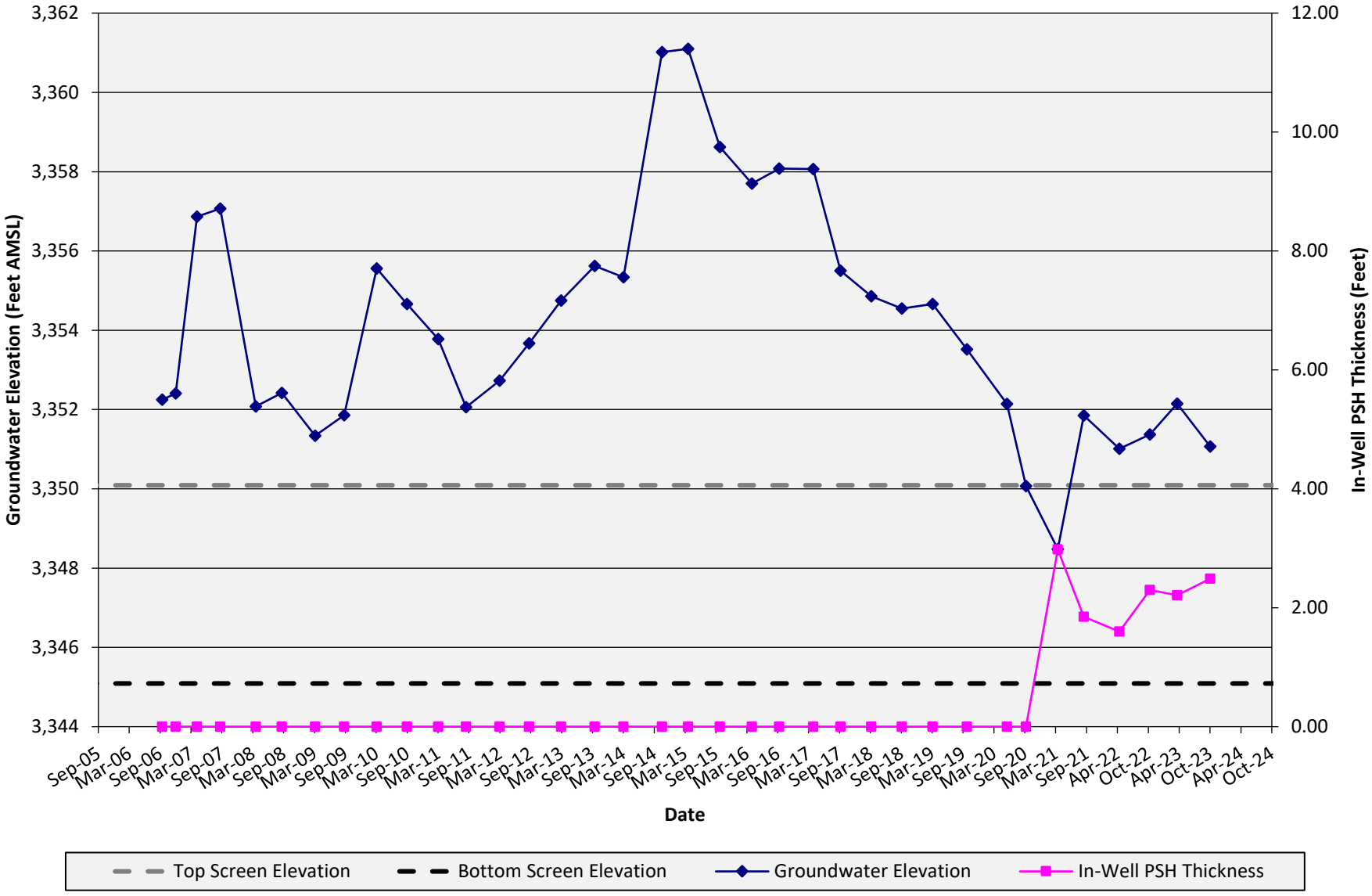
North Colony Landfarm



MW-23: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

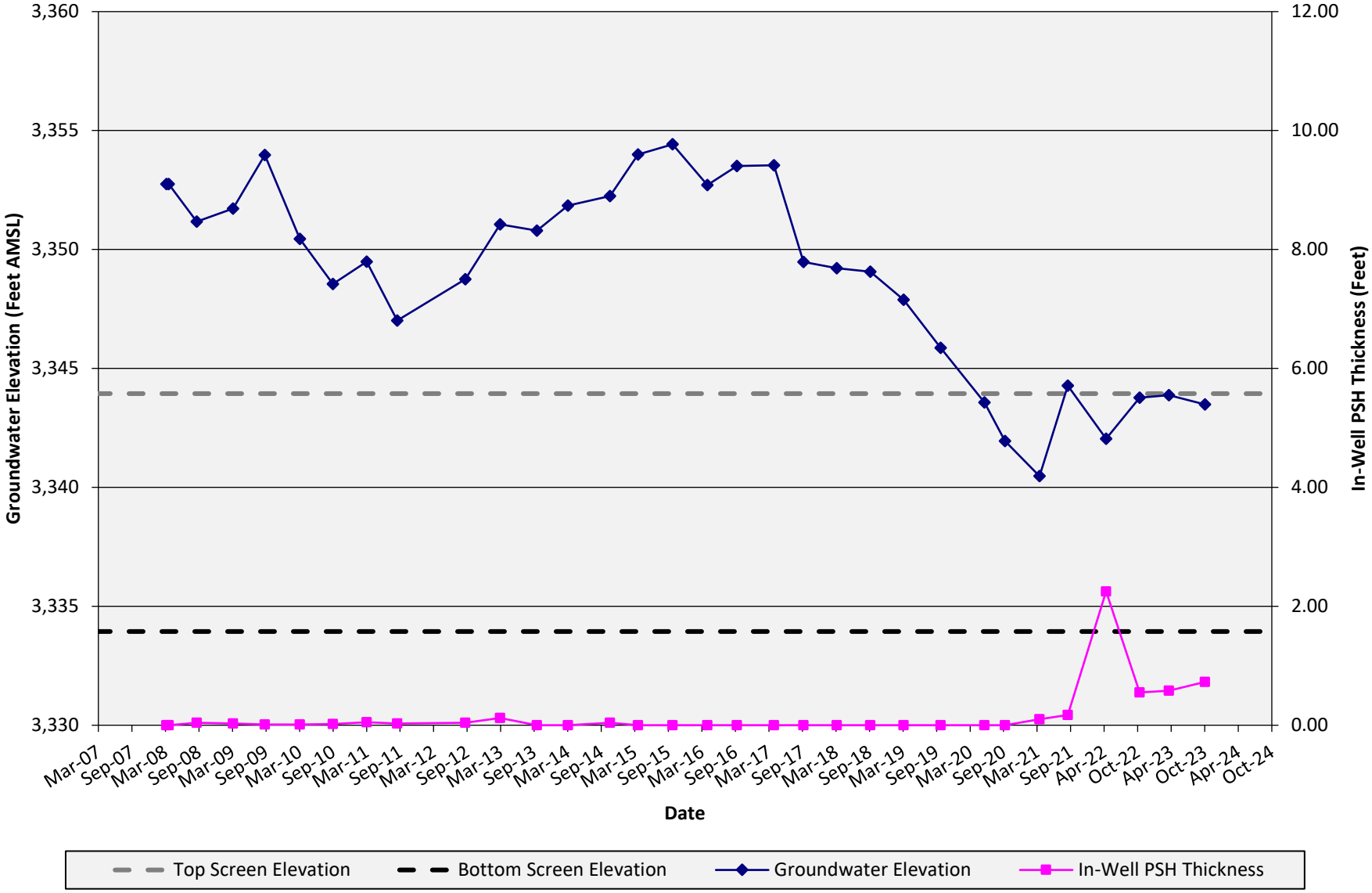
North Refinery



MW-39: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

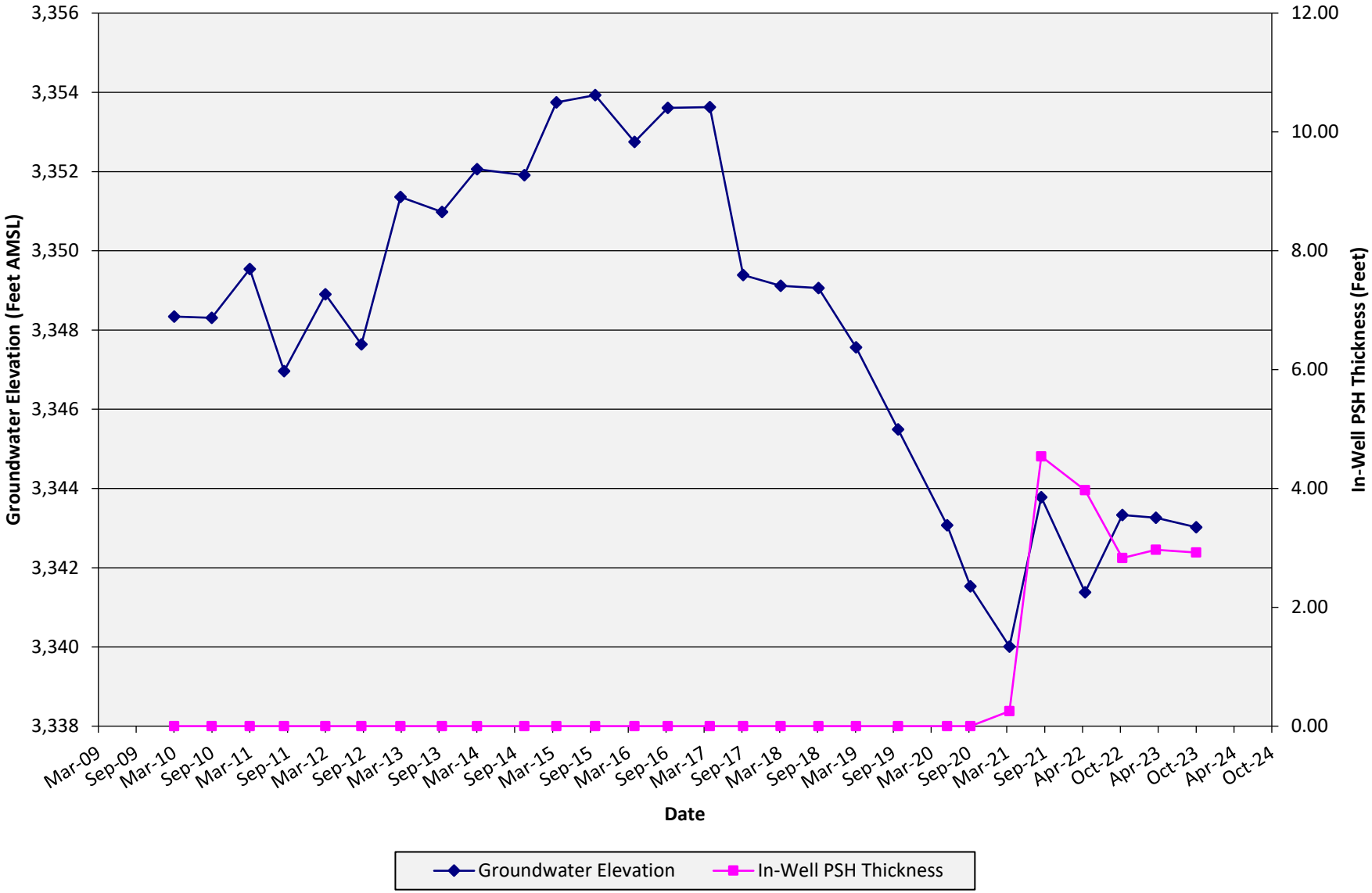
North Refinery



MW-40: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

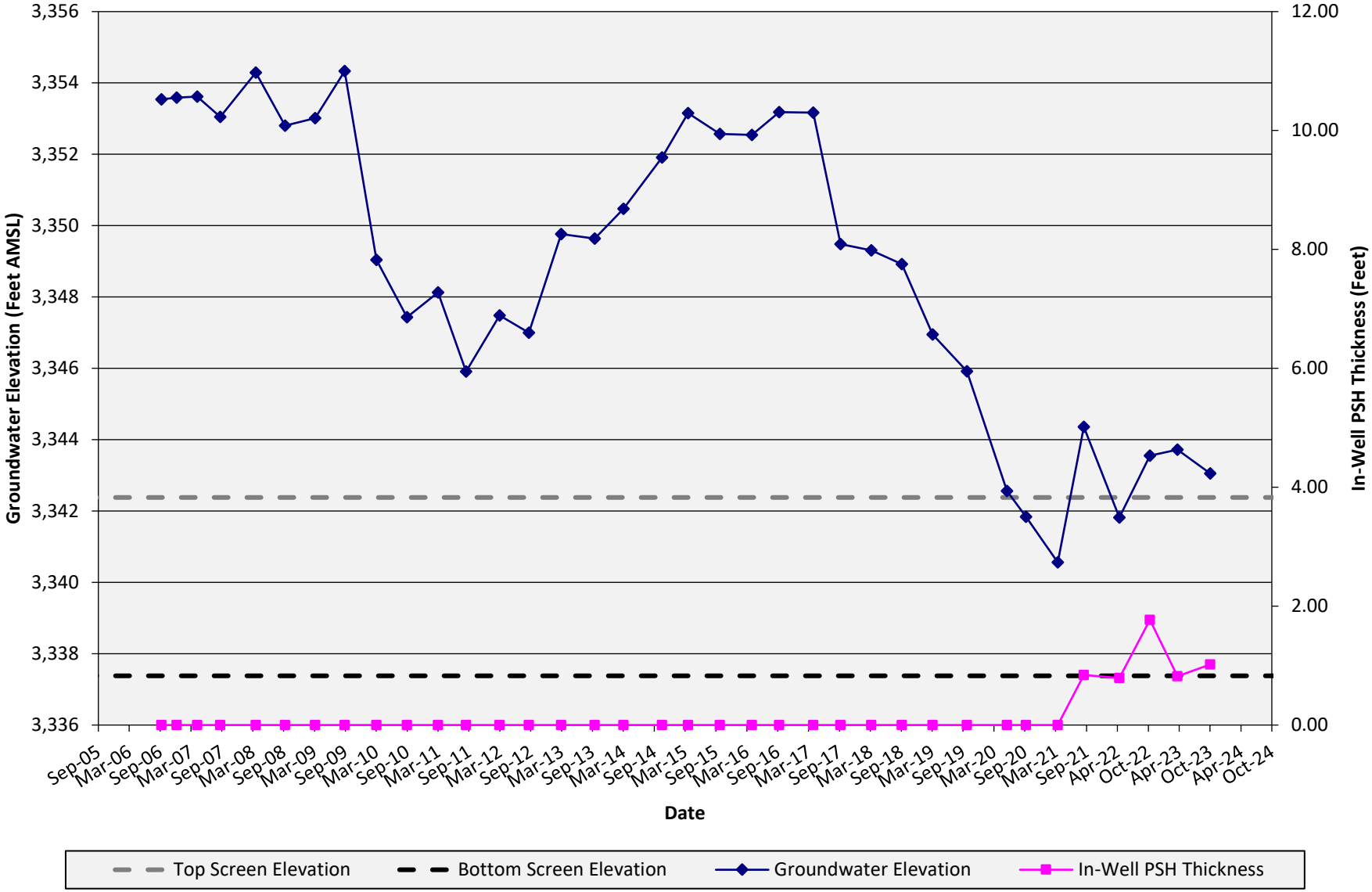
North Refinery



MW-41: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

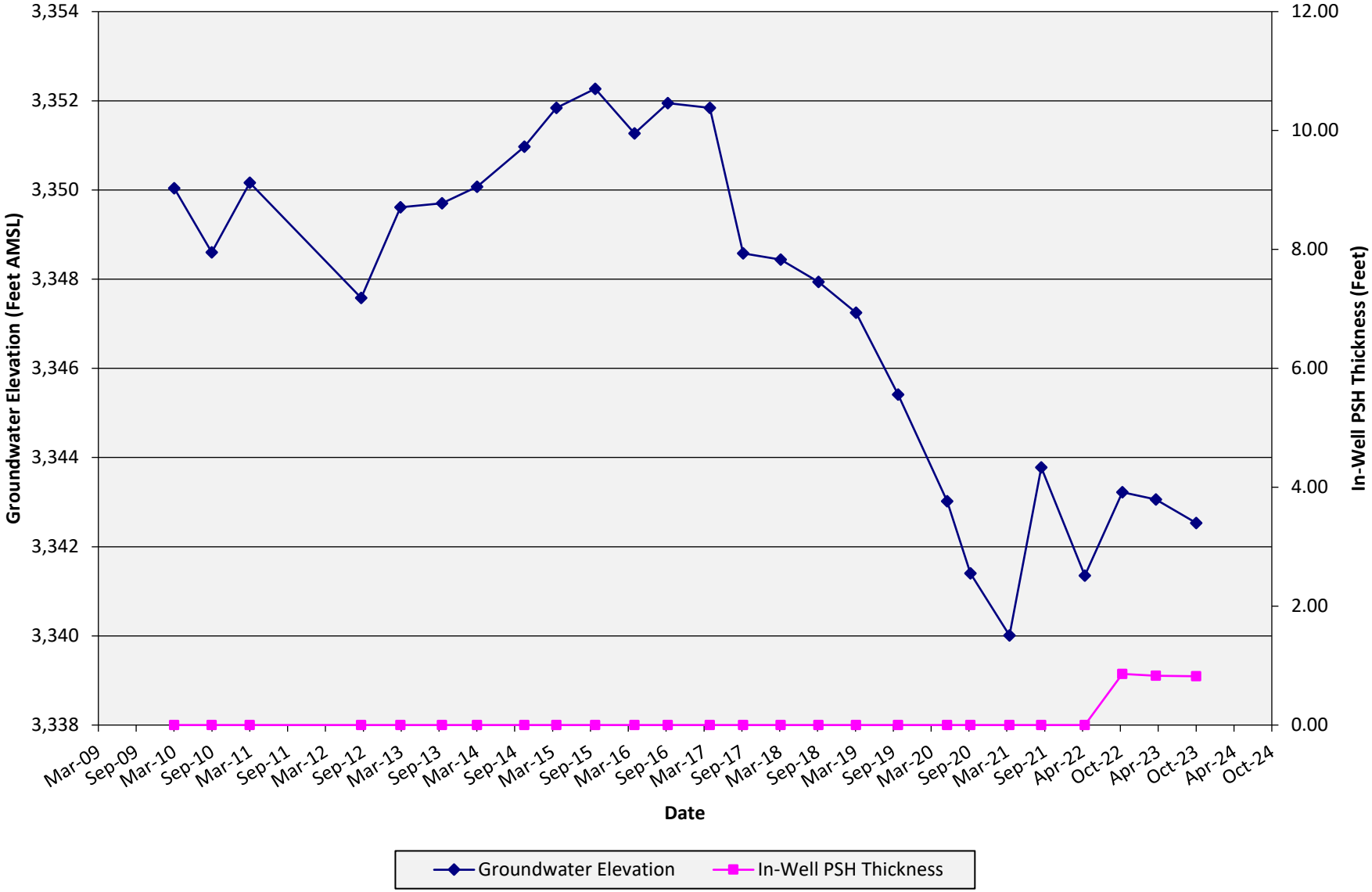
North Refinery



MW-42: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

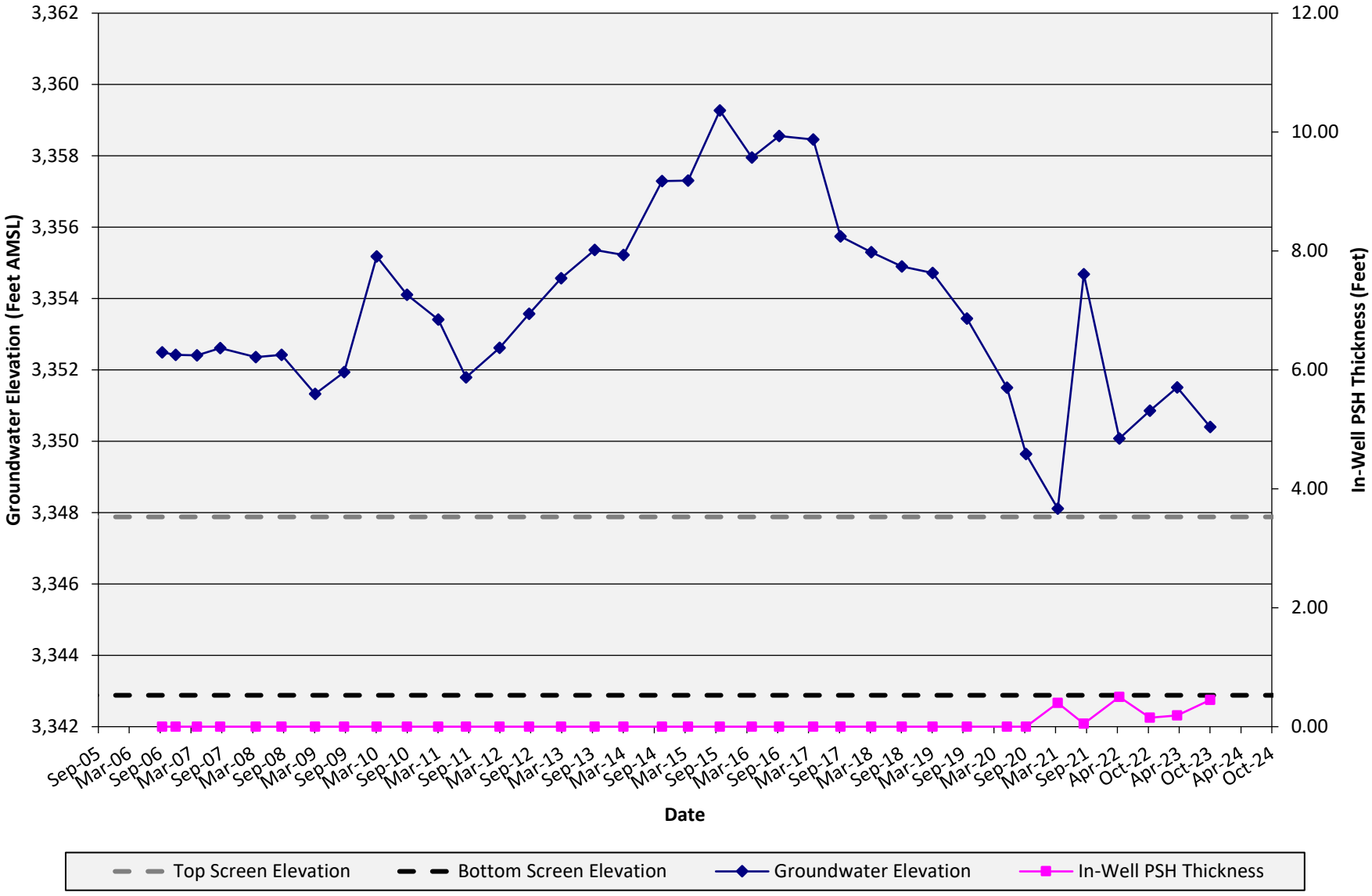
North Refinery



MW-43: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

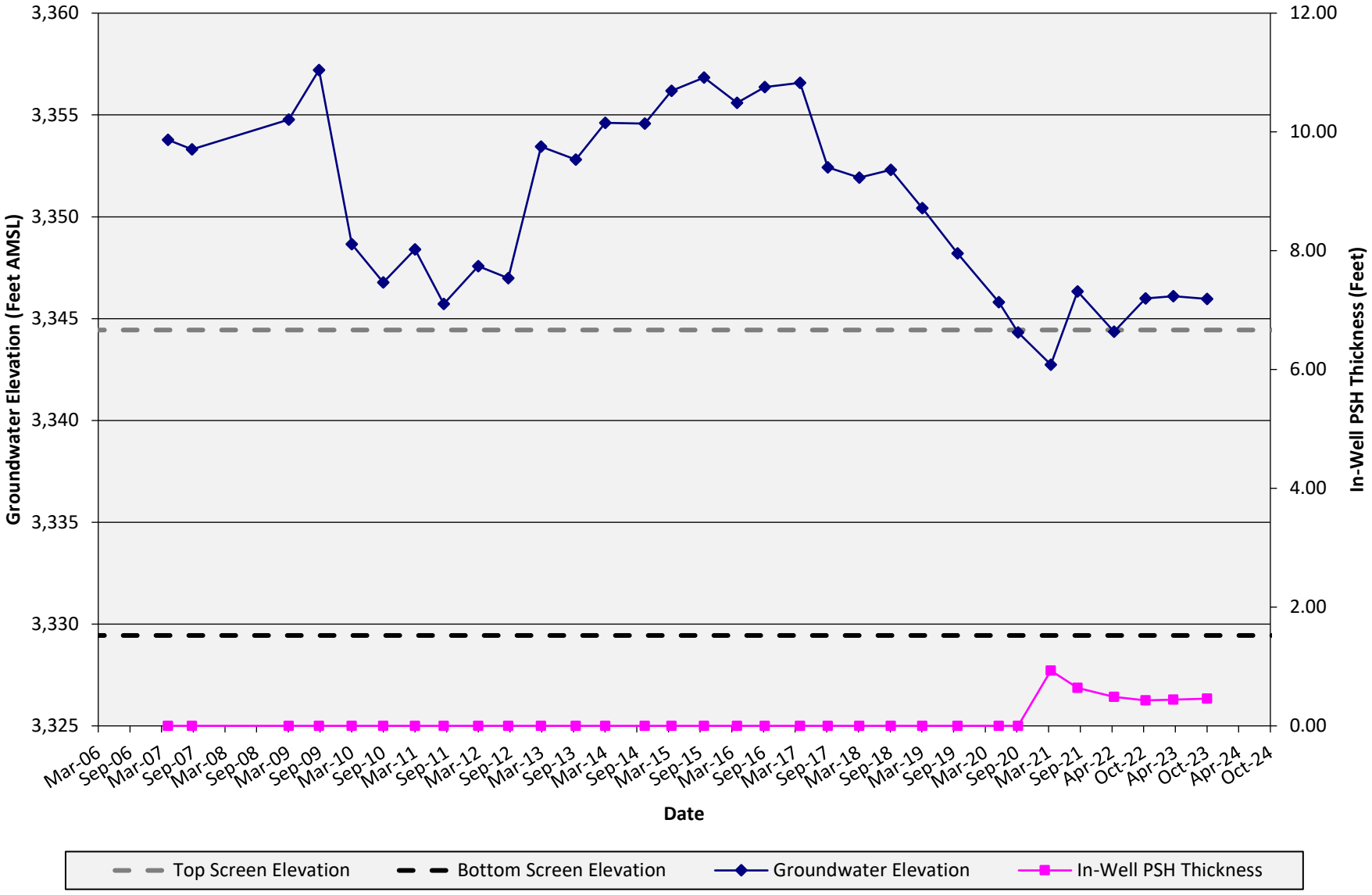
North Refinery



MW-59: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

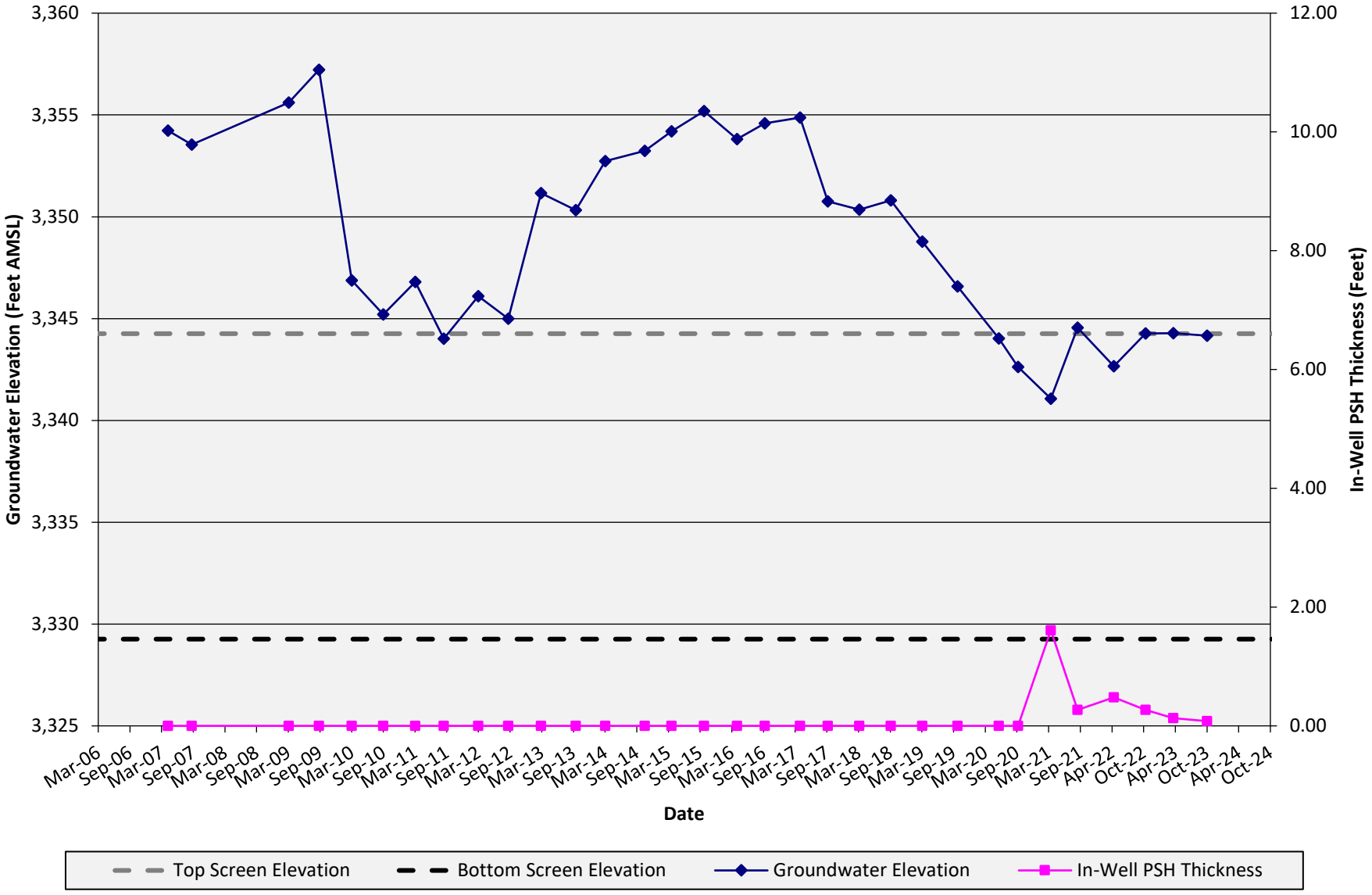
North Refinery



MW-60: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

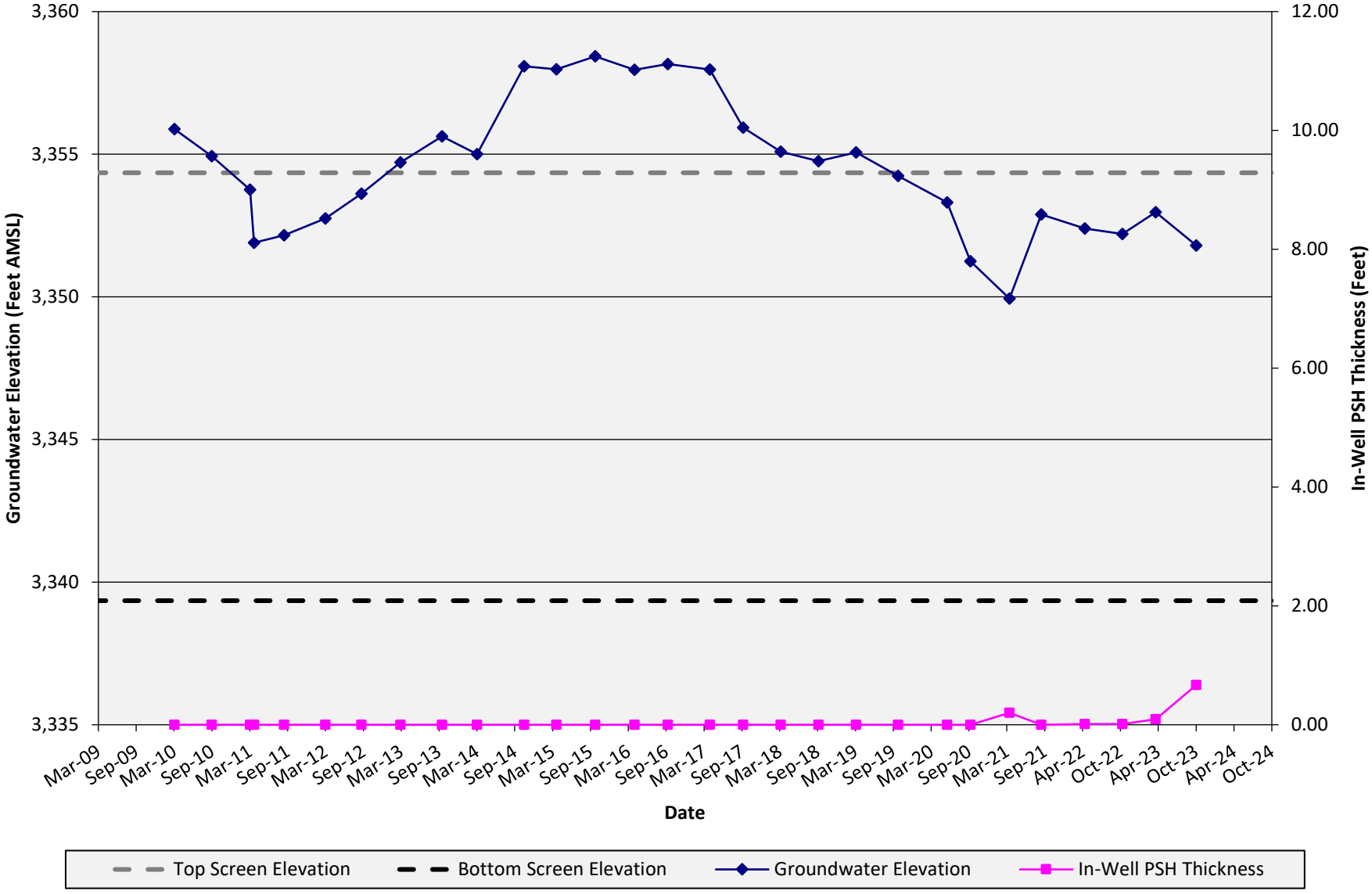
North Refinery



MW-62: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

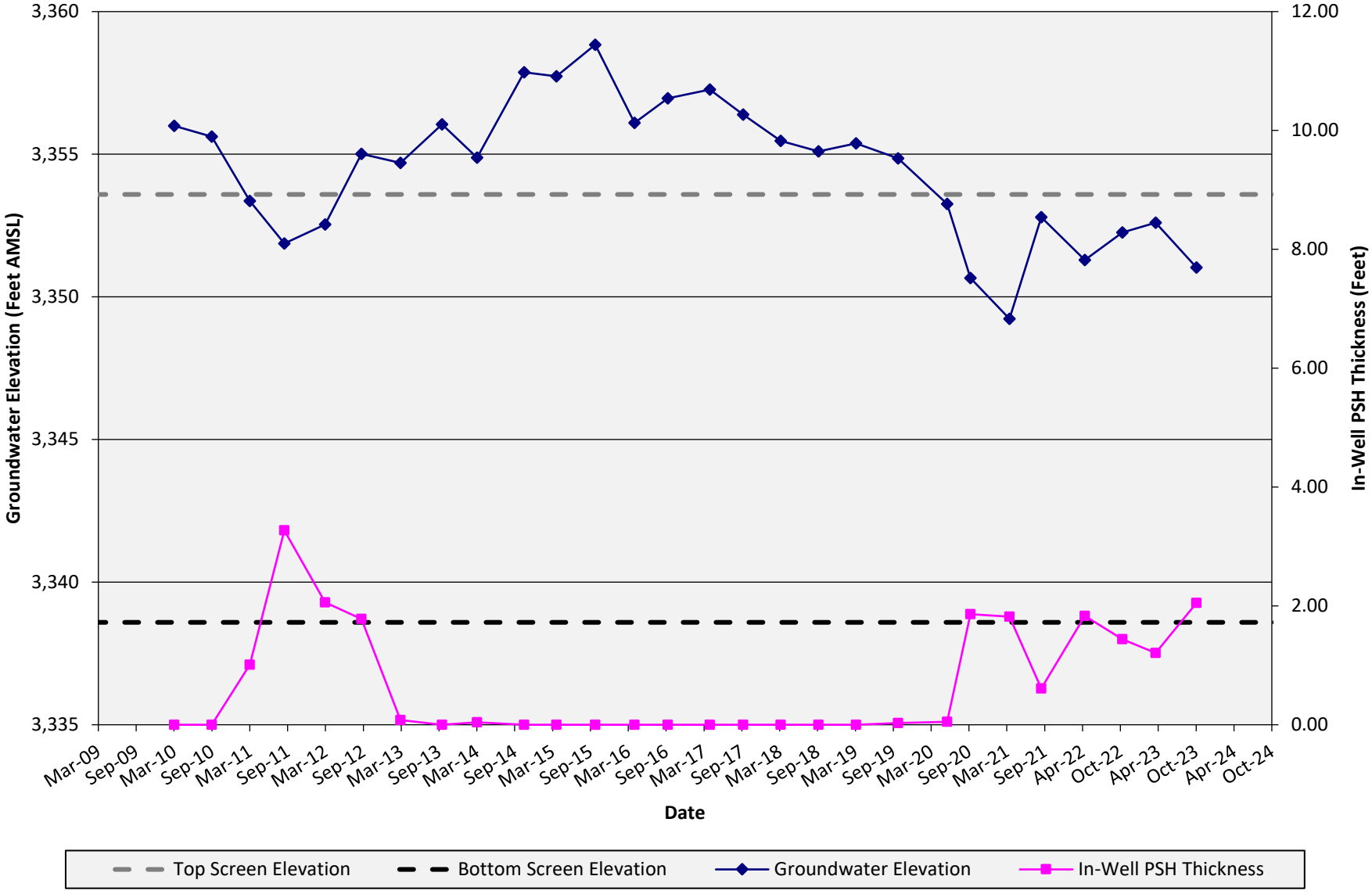
North Refinery



MW-67: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

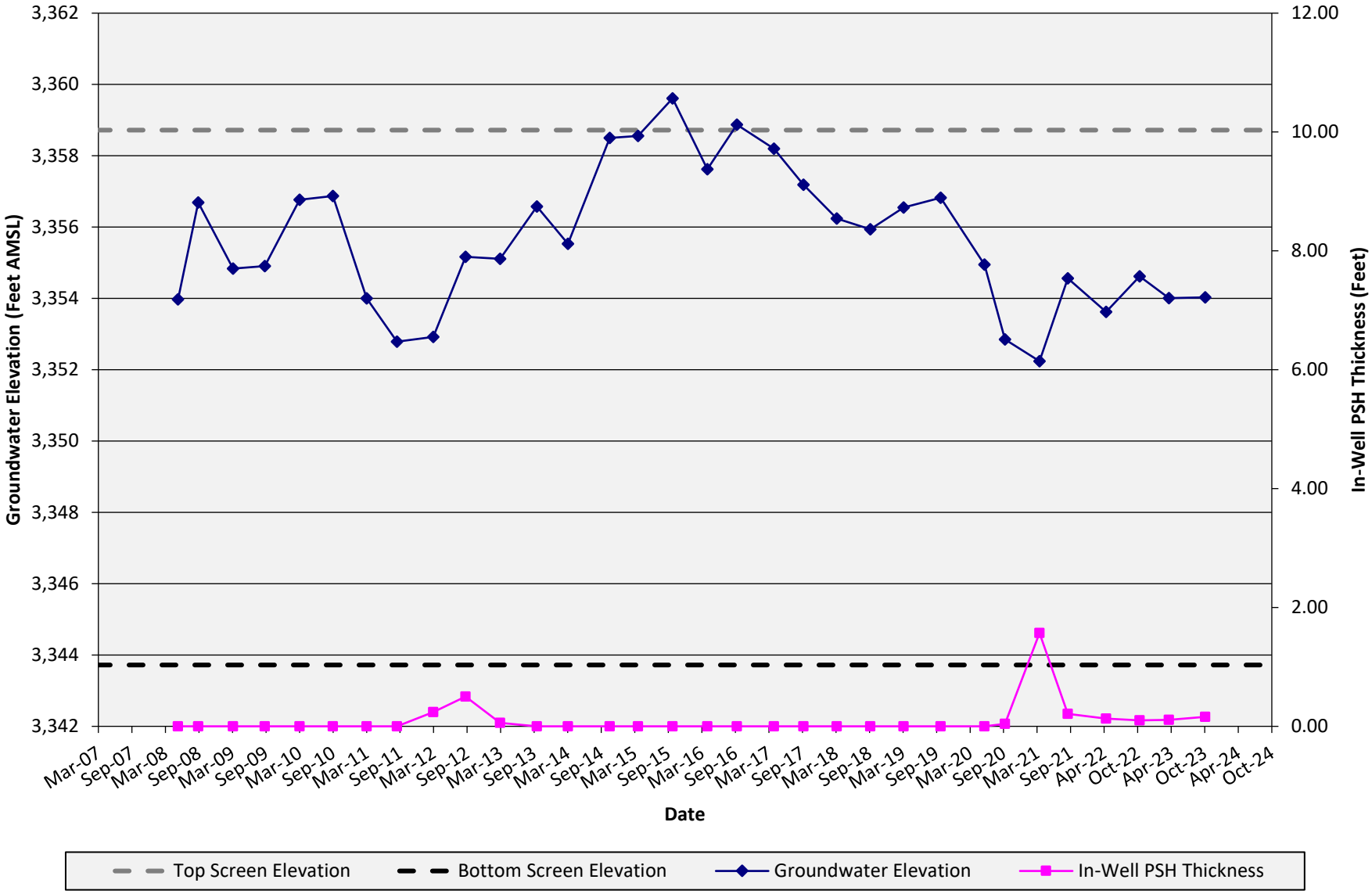
North Refinery



MW-91: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

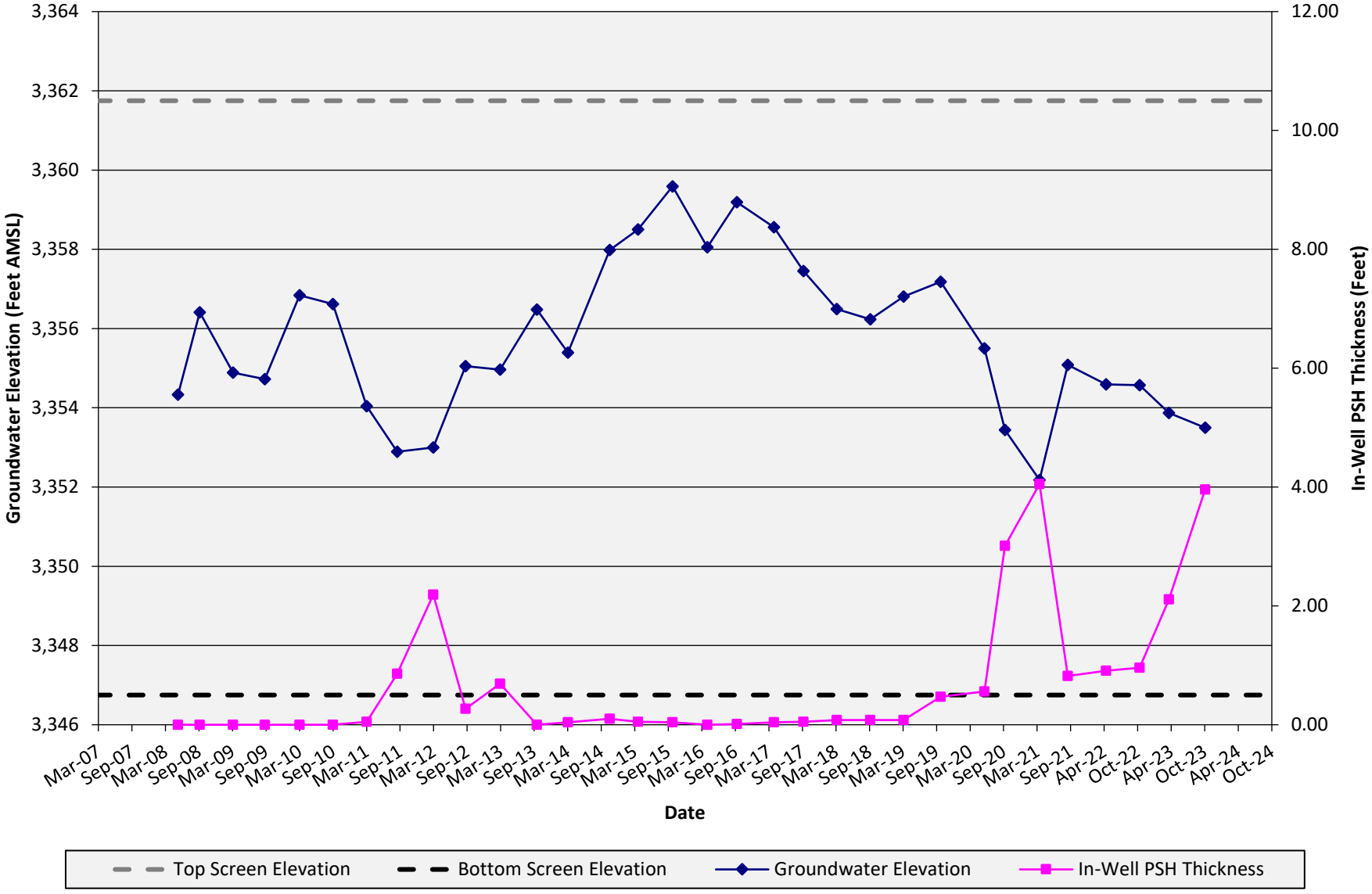
North Refinery



MW-92: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

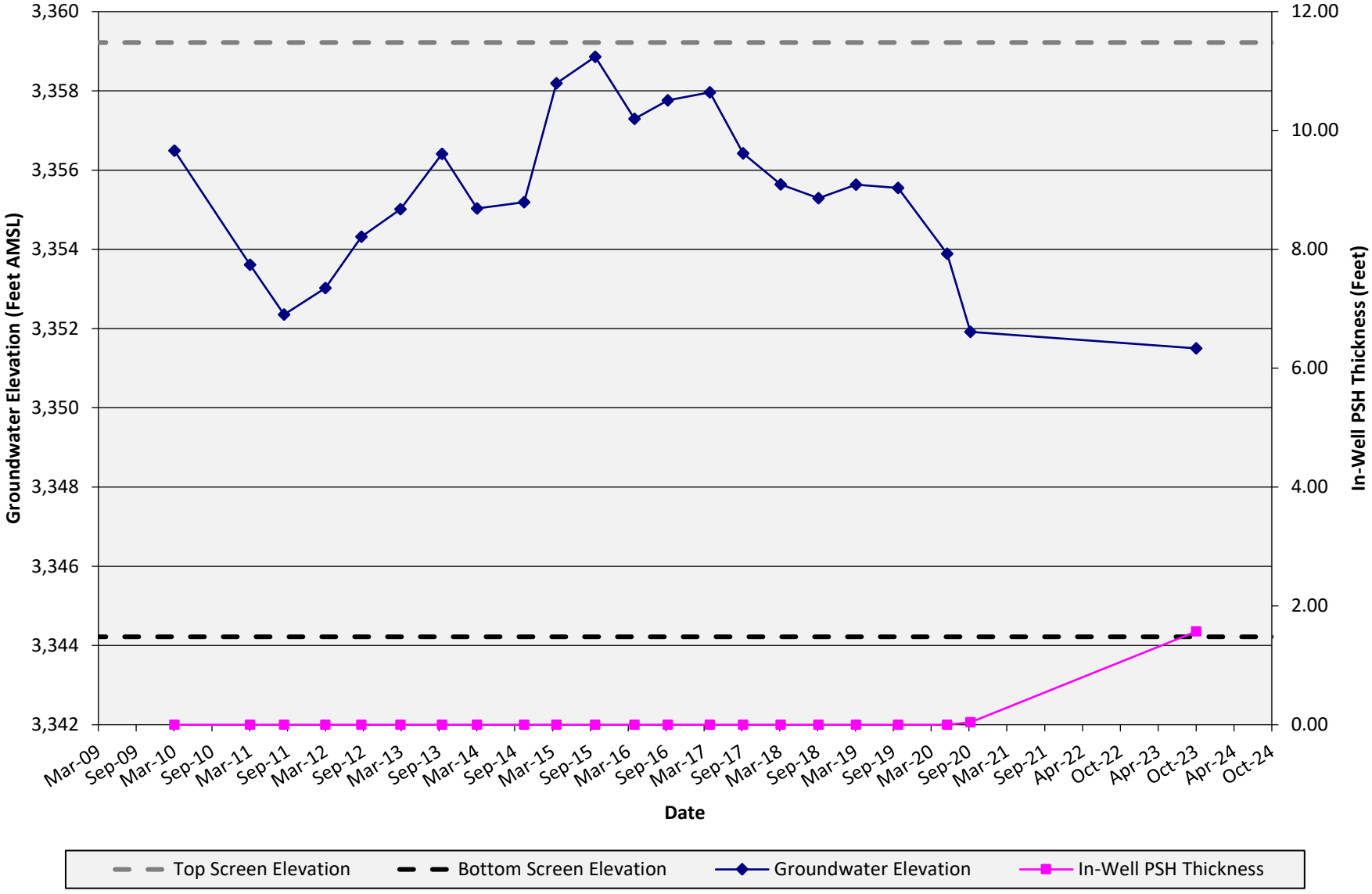
North Refinery



MW-93: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

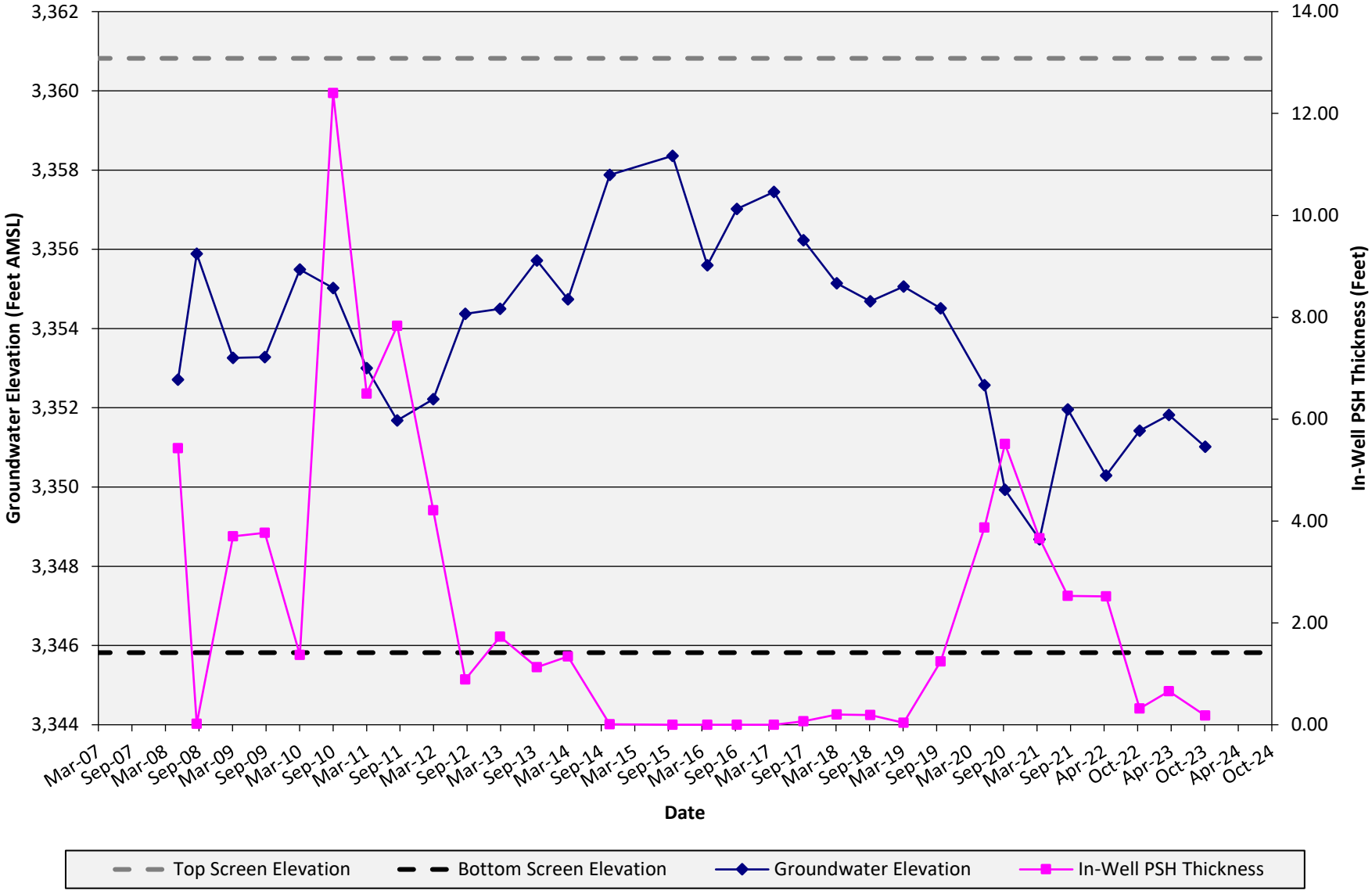
North Refinery



MW-94: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

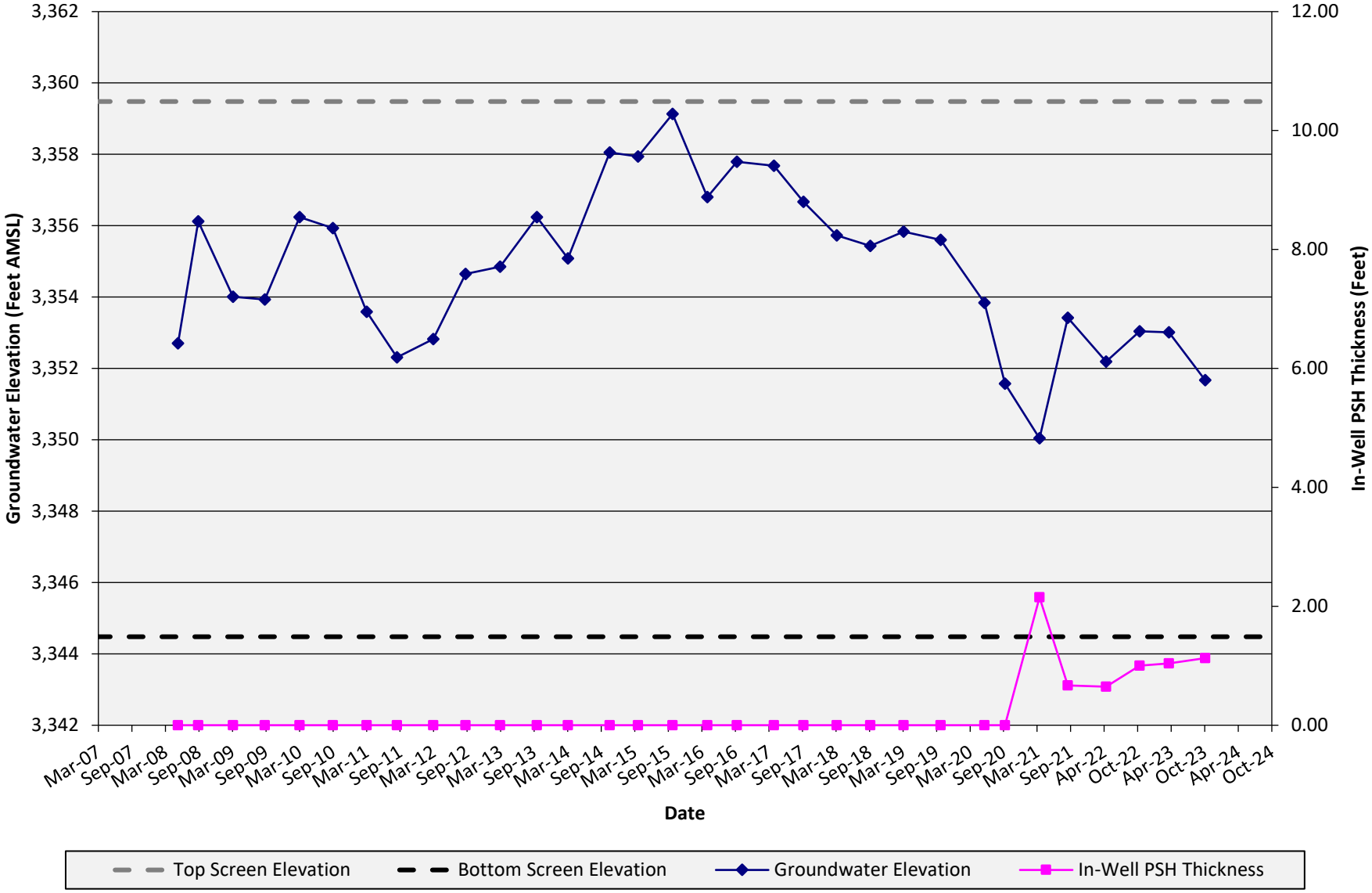
North Refinery



MW-95: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

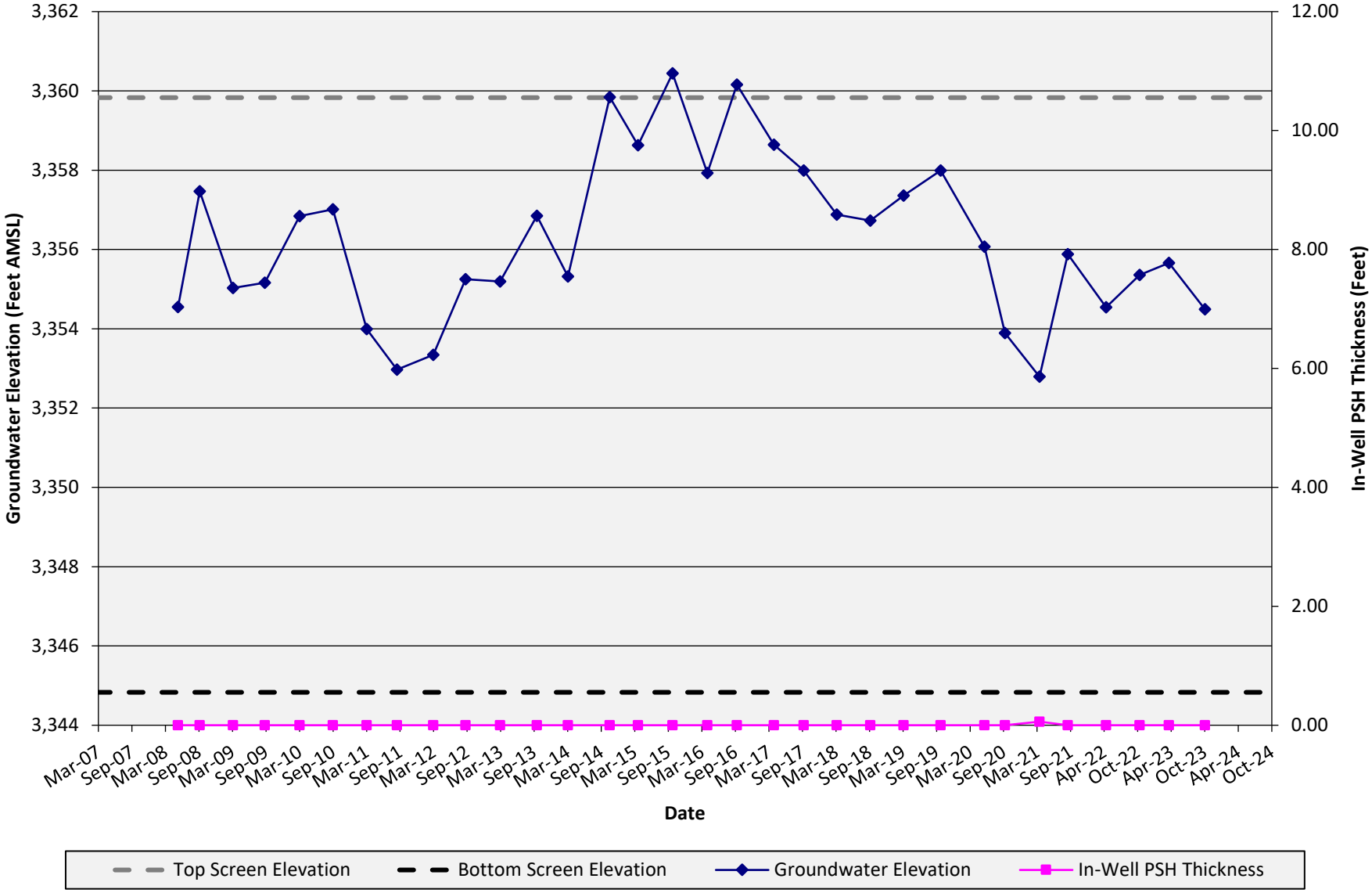
North Refinery



MW-96: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

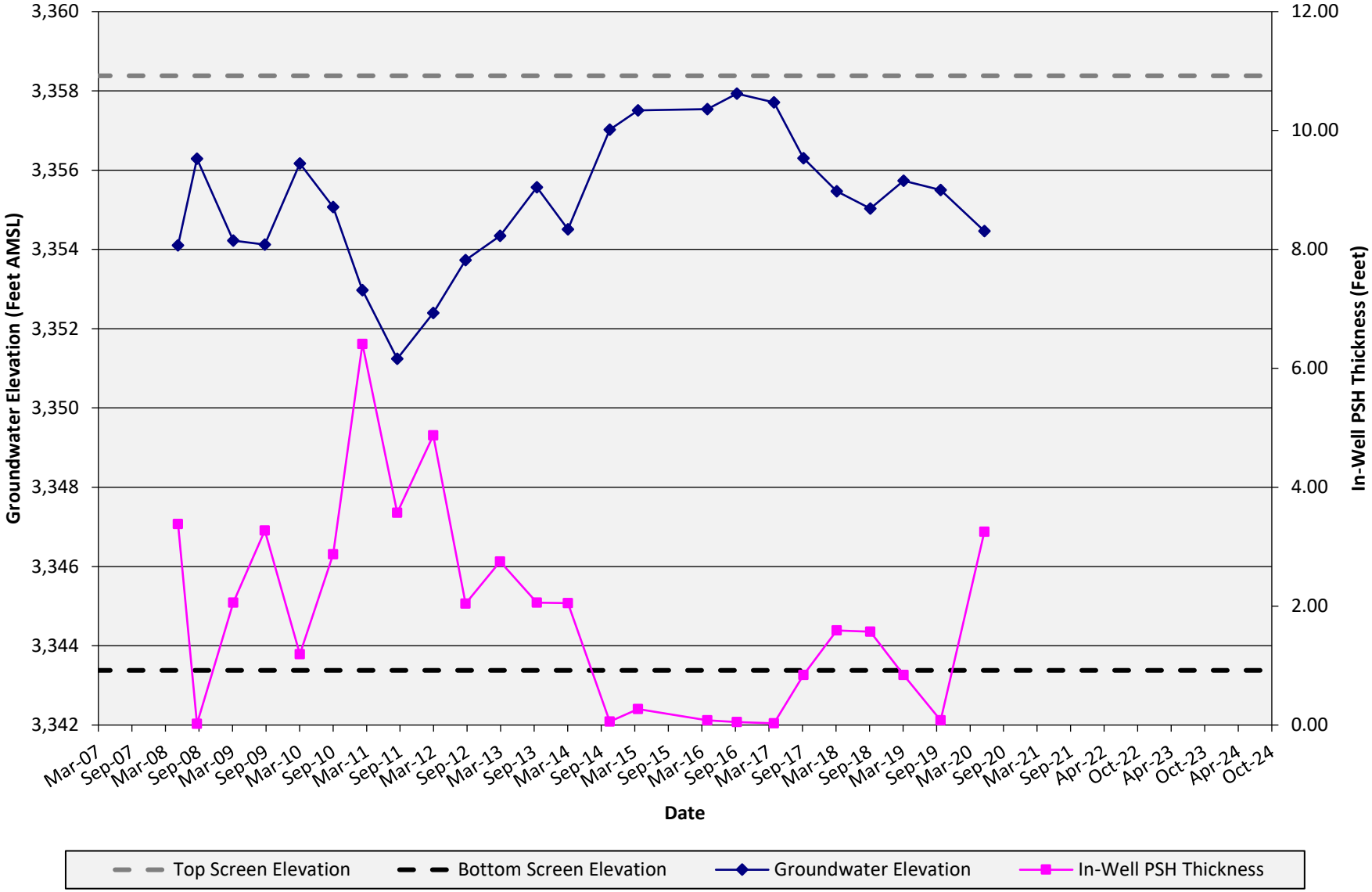
North Refinery



MW-97: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

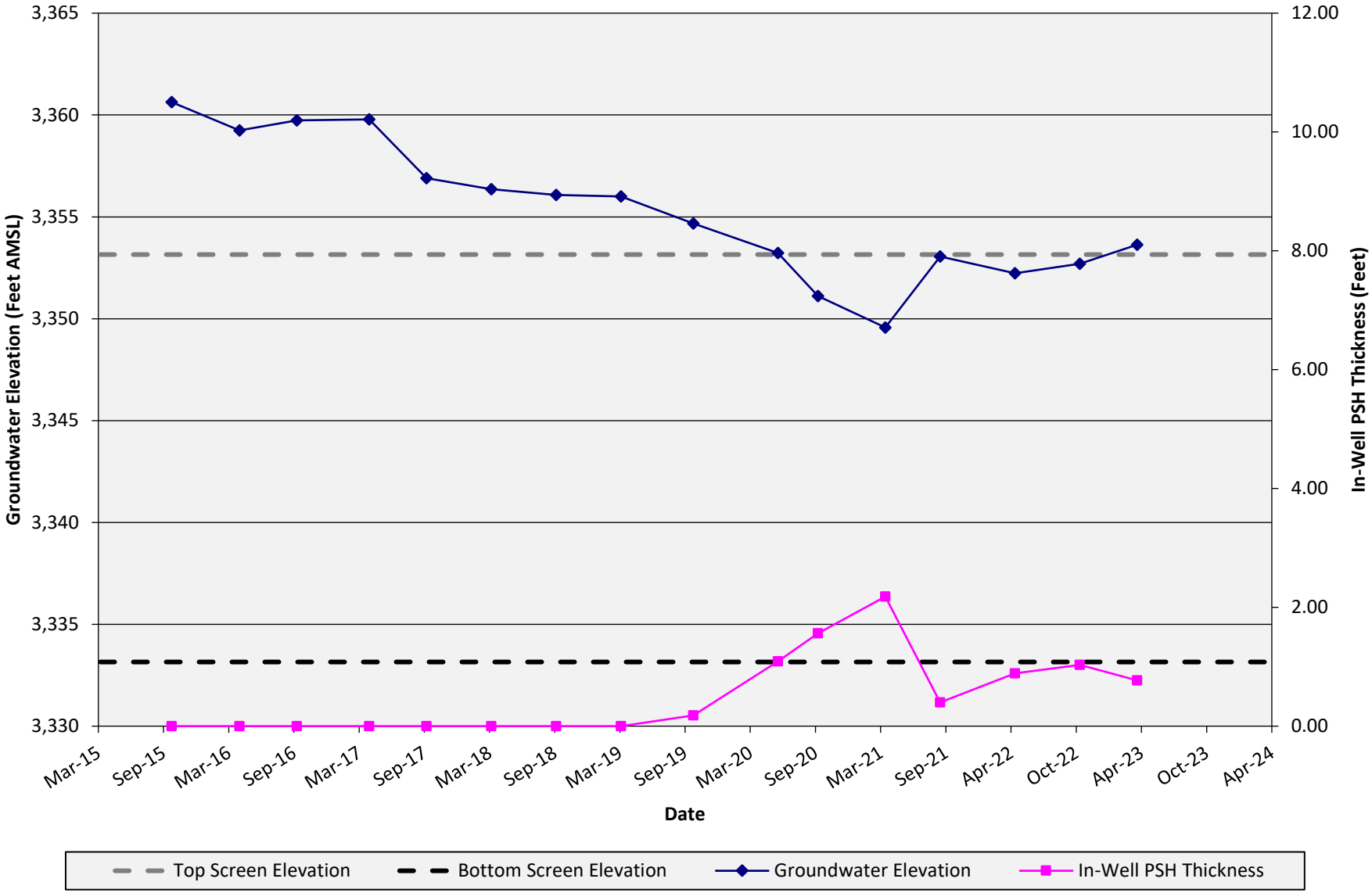
North Refinery



MW-137: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

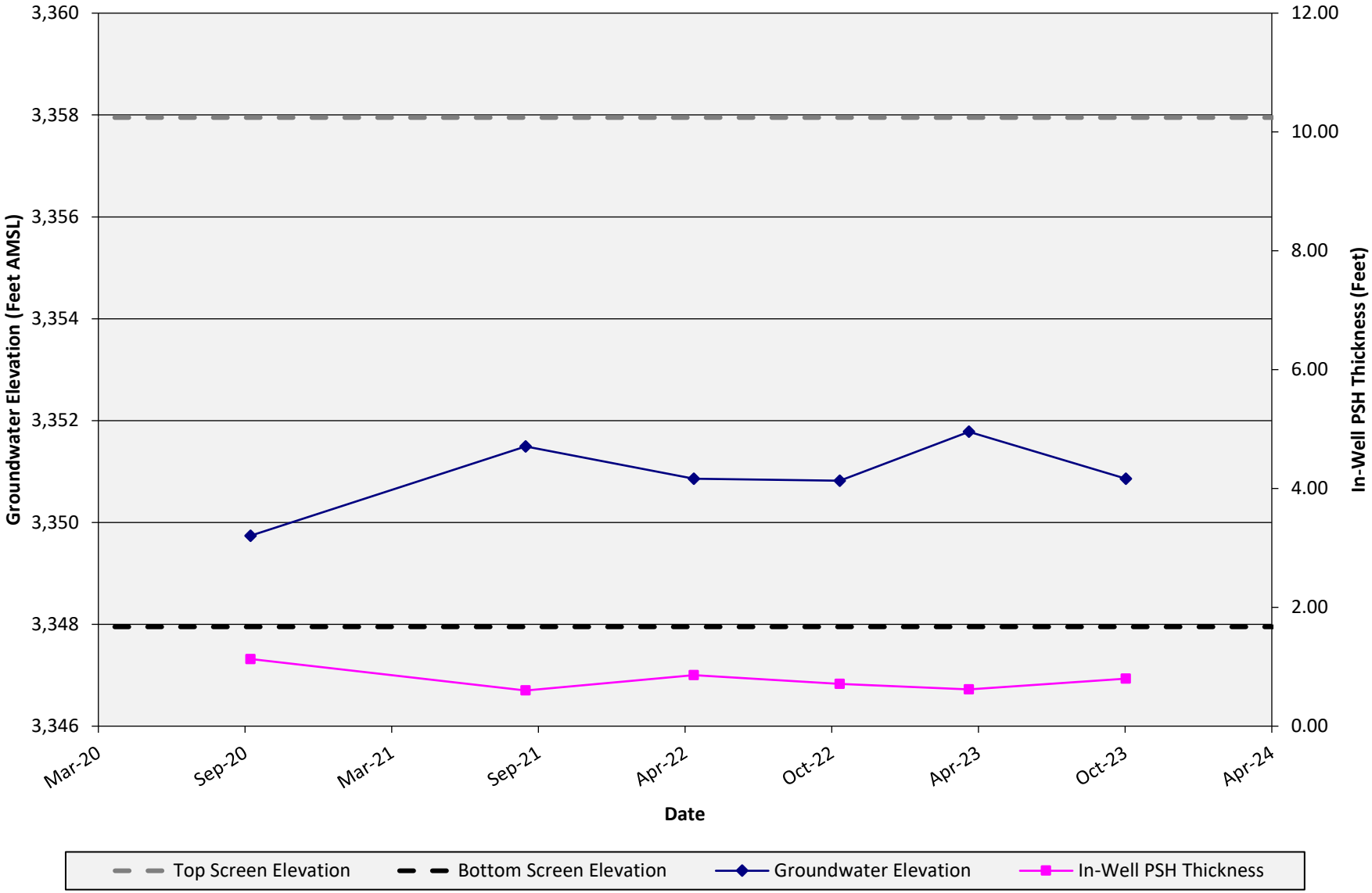
North Refinery



MW-137A: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

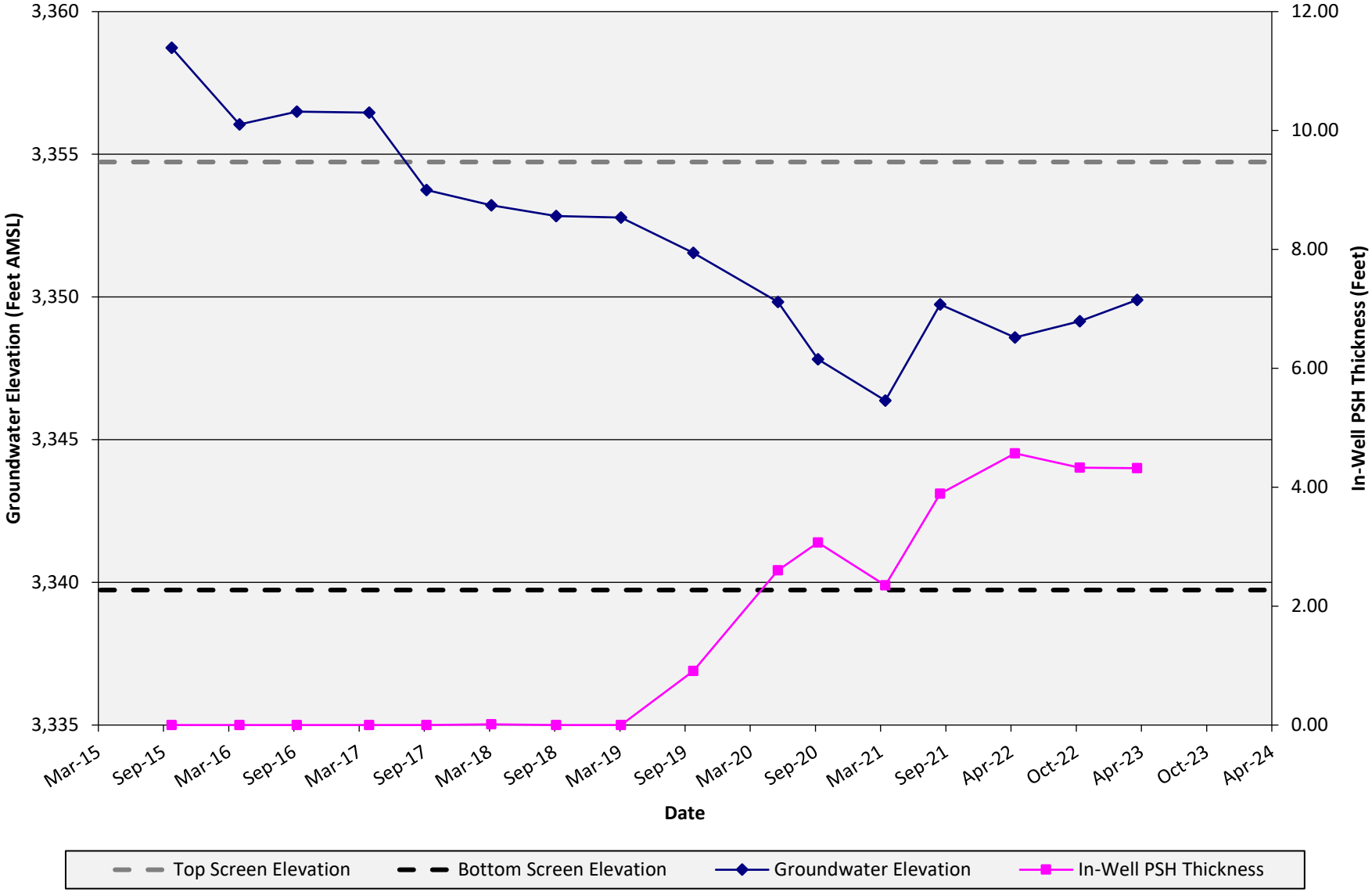
North Refinery



MW-138: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

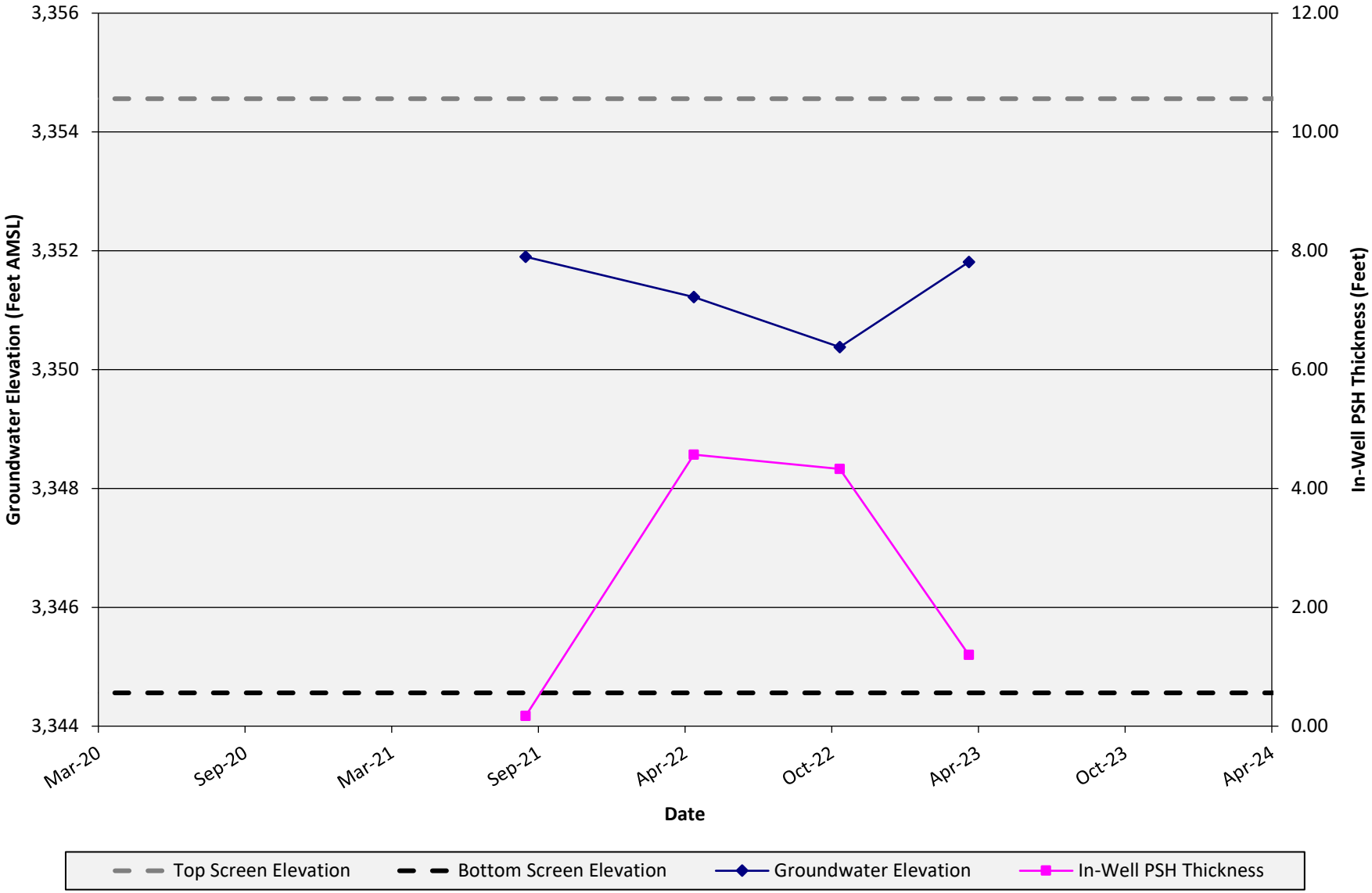
North Refinery



MW-138A: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

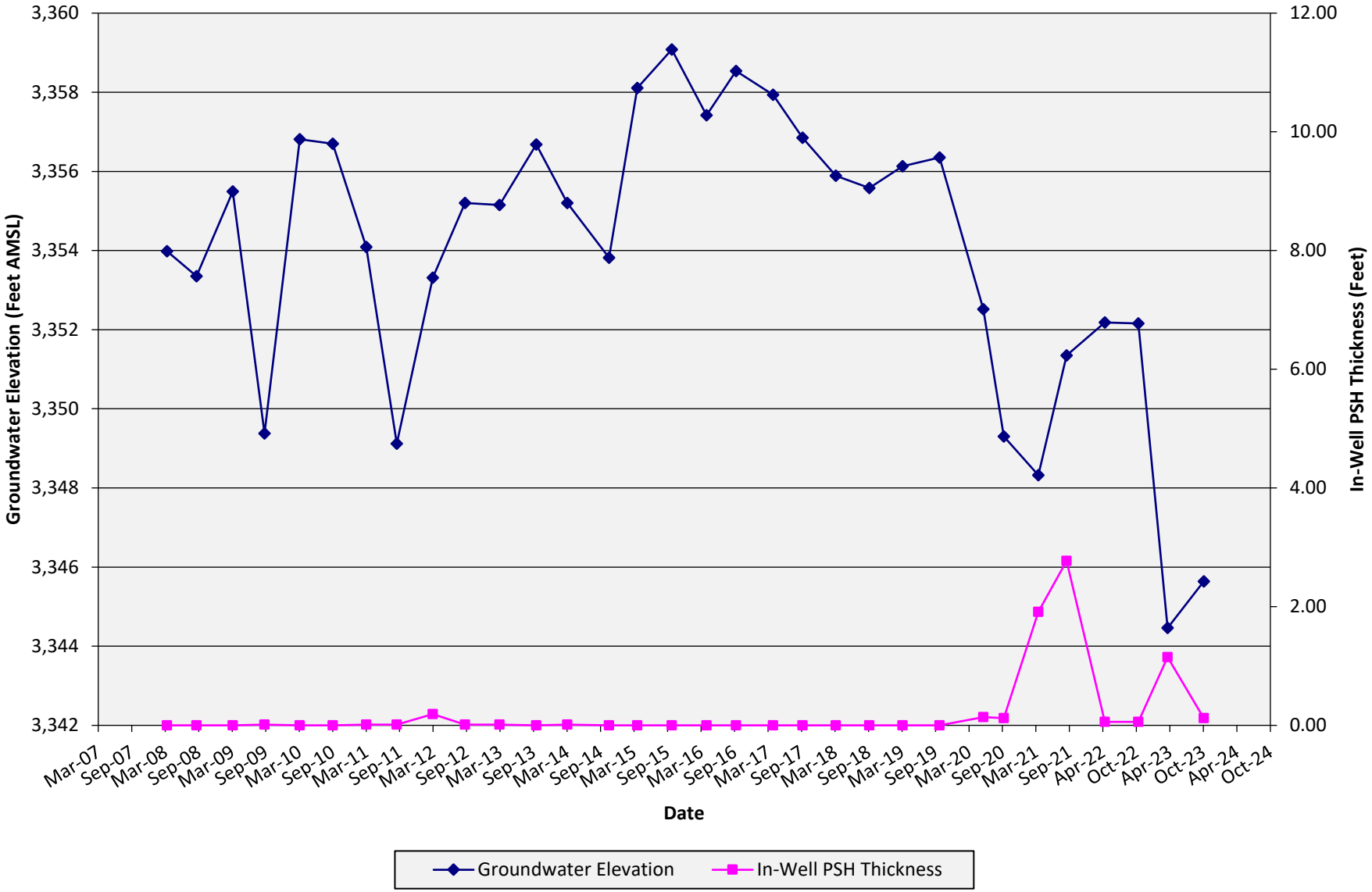
North Refinery



RW-1 & RW-1R: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

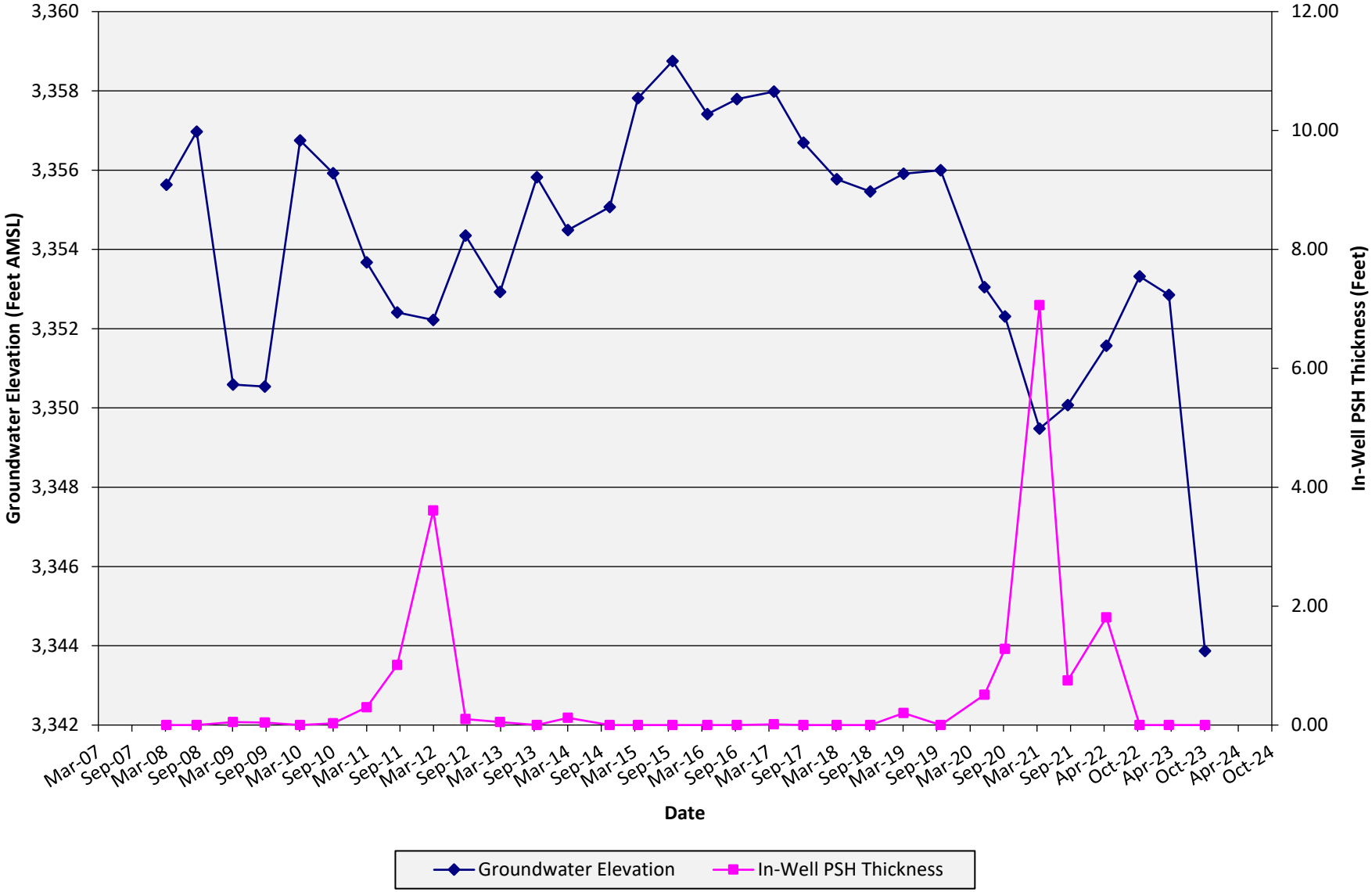
North Refinery



RW-2: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

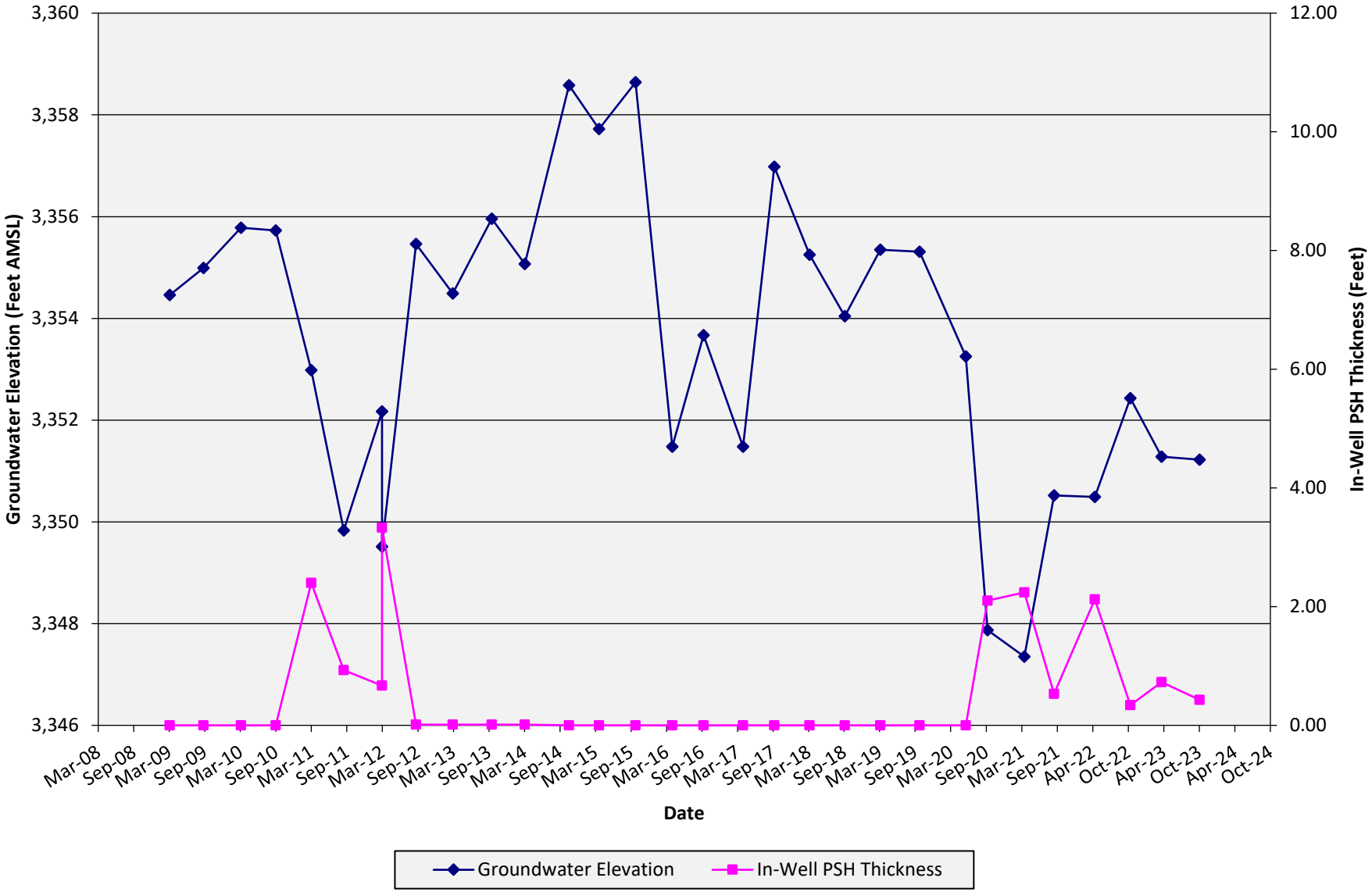
North Refinery



RW-7 & RW-7R: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

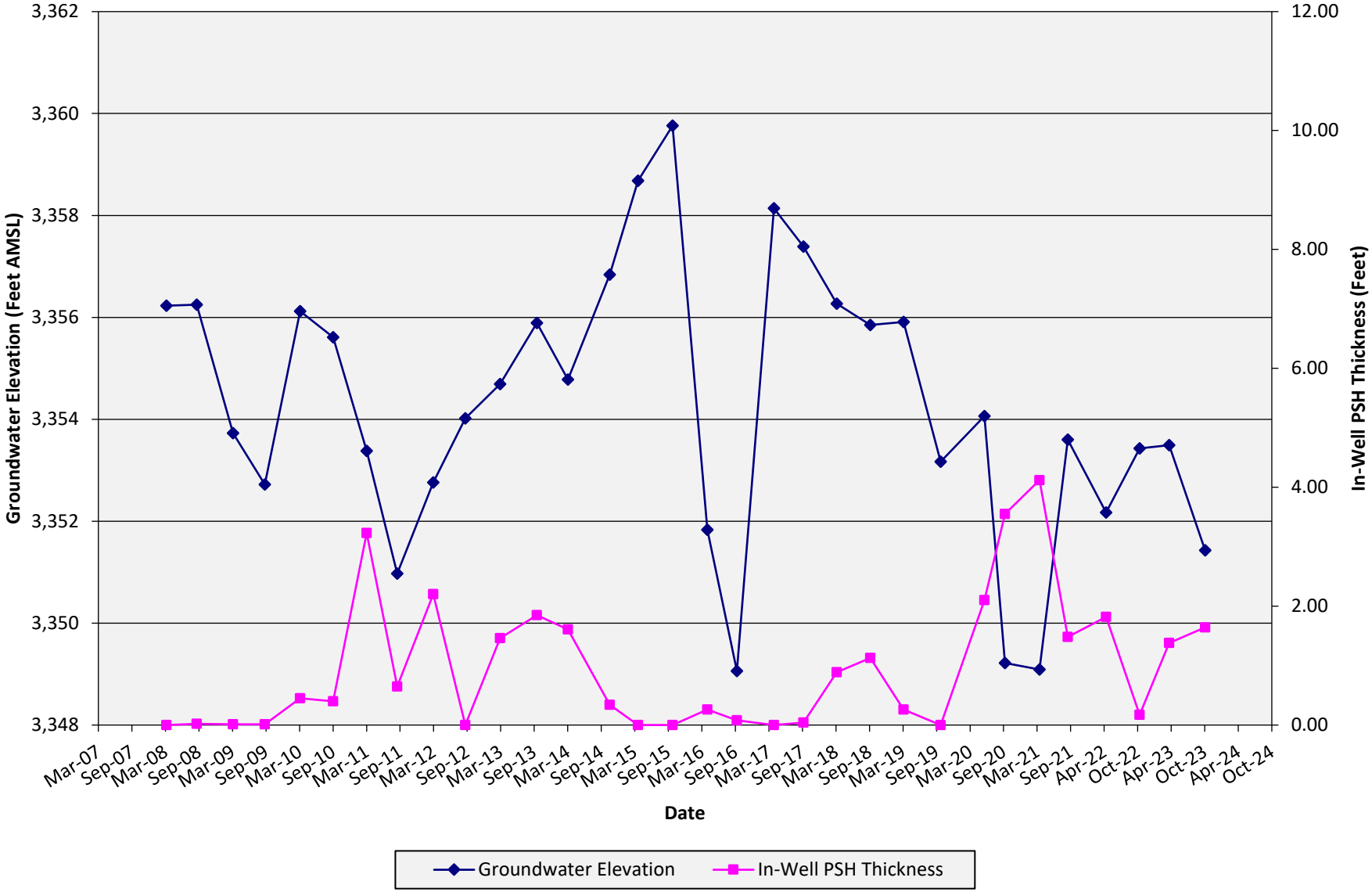
North Refinery



RW-8: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

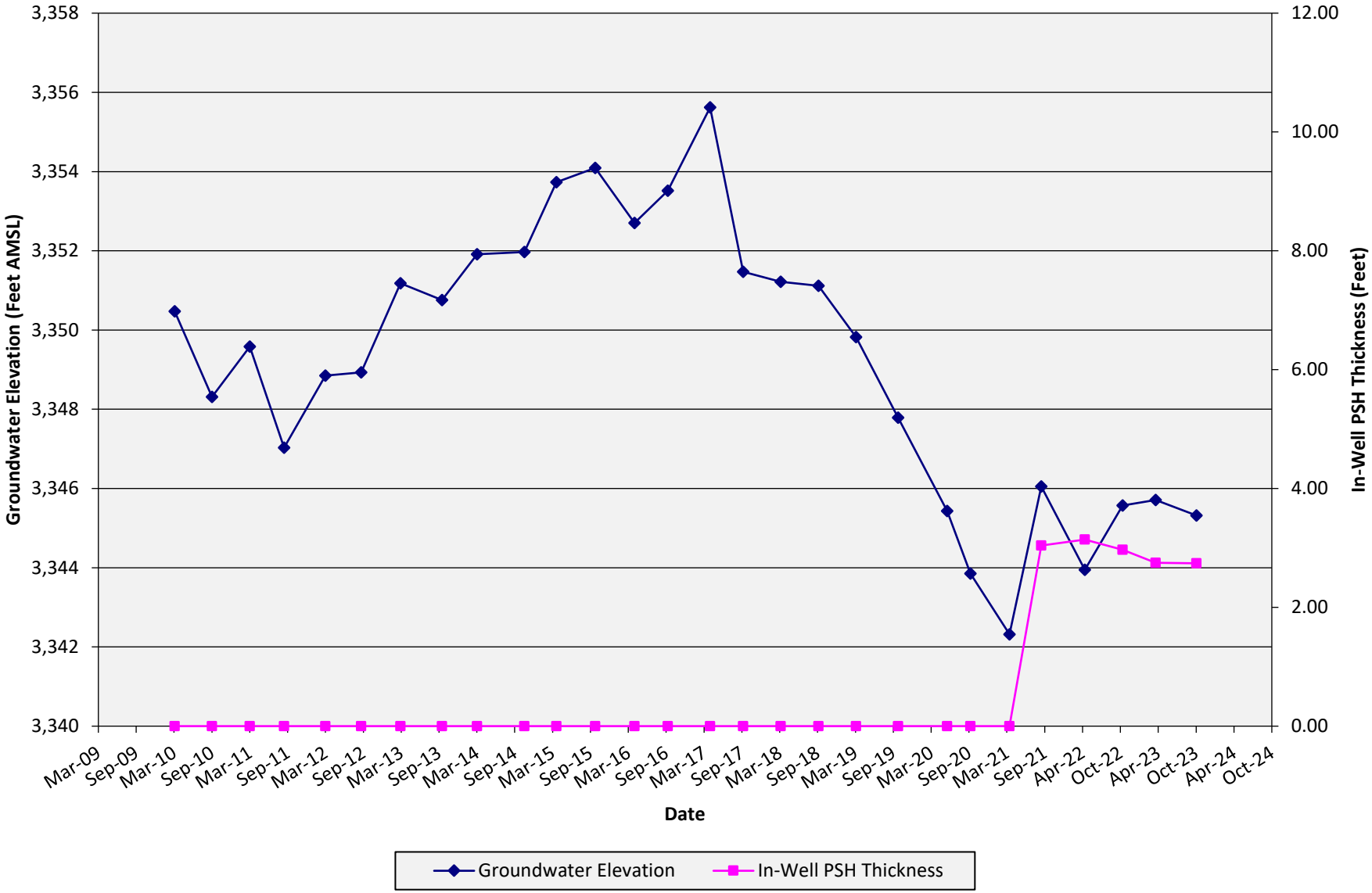
North Refinery



RW-10: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

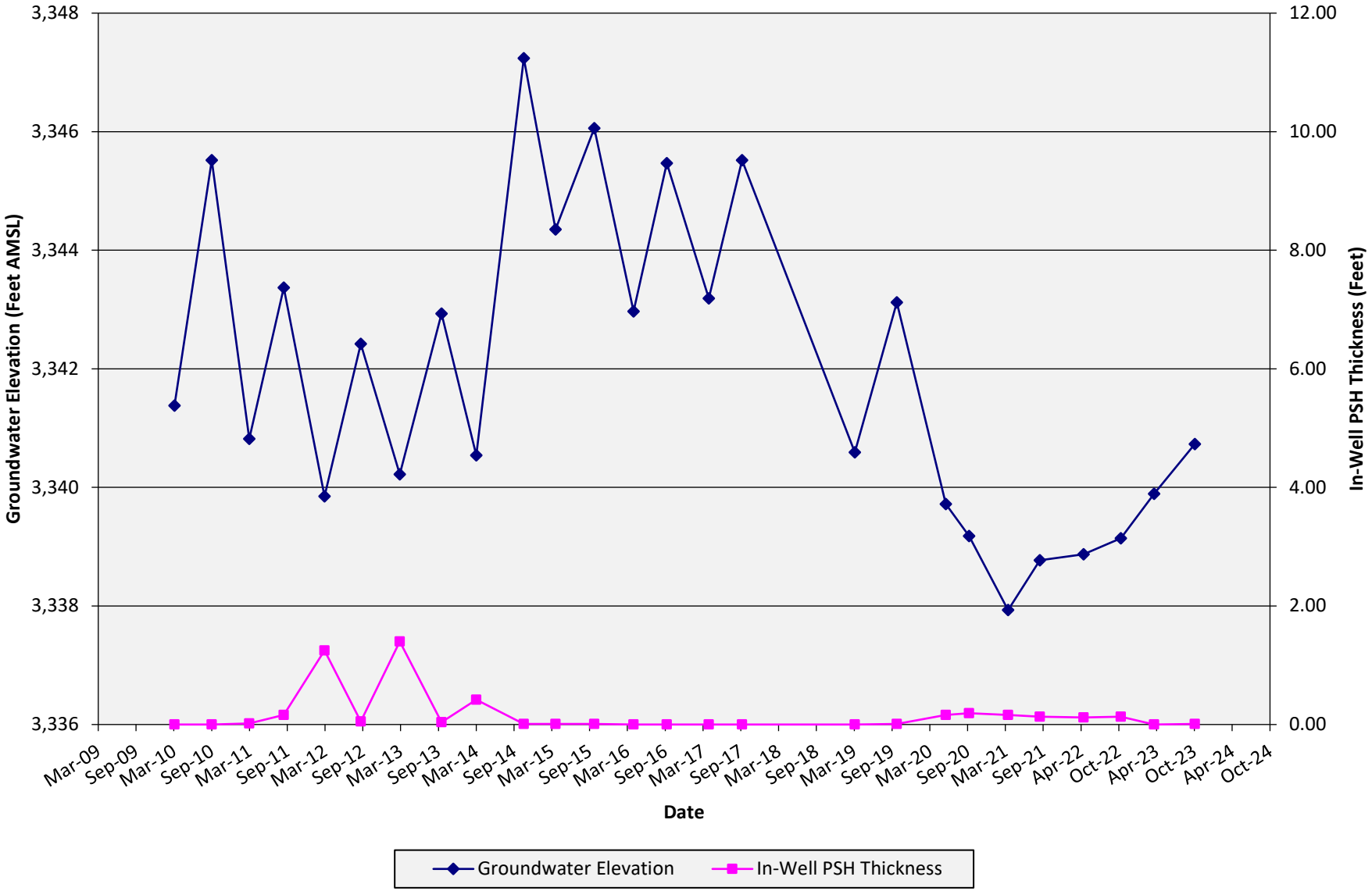
North Refinery



KWB-2R: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

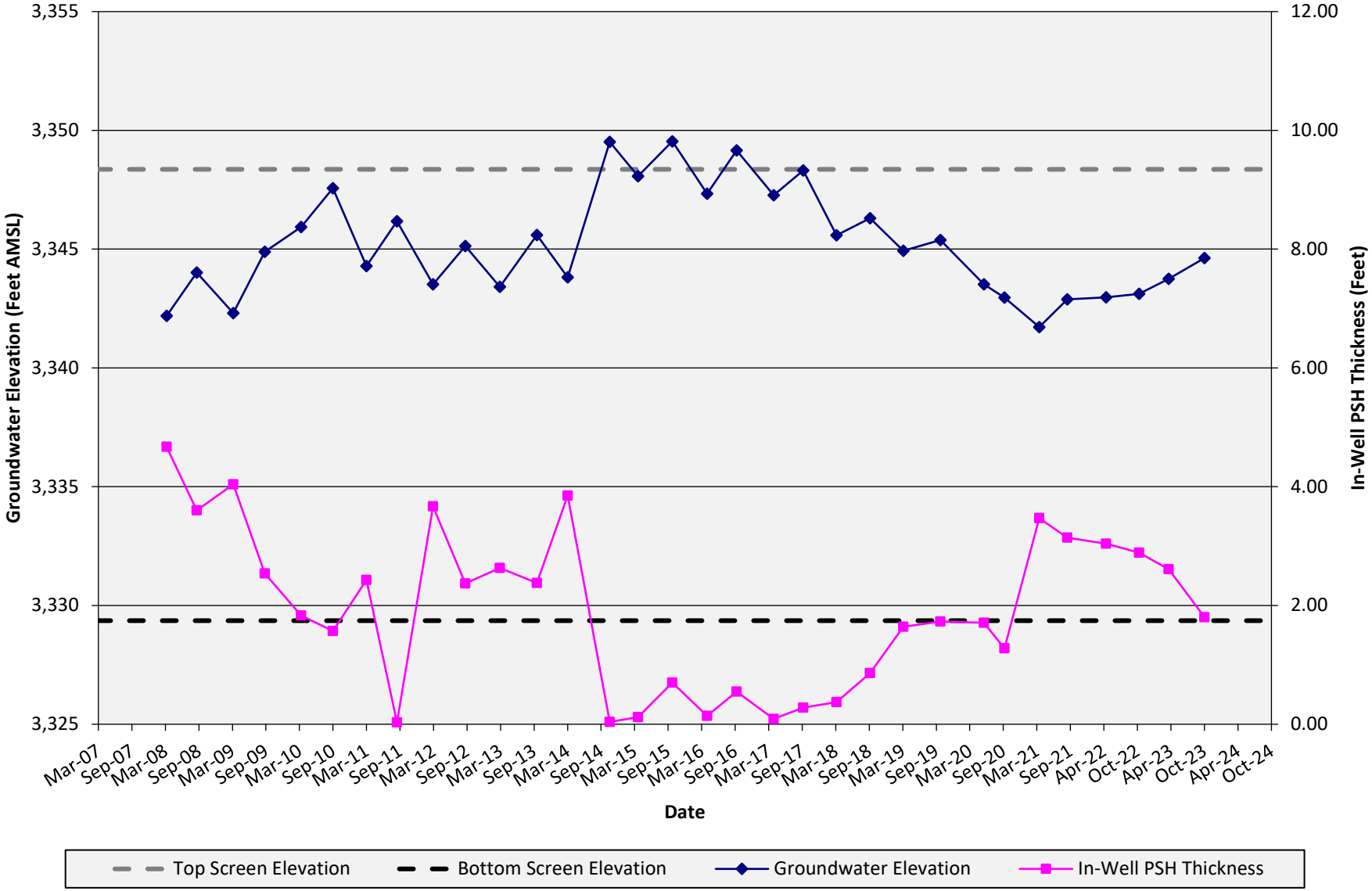
South Refinery



KWB-4: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

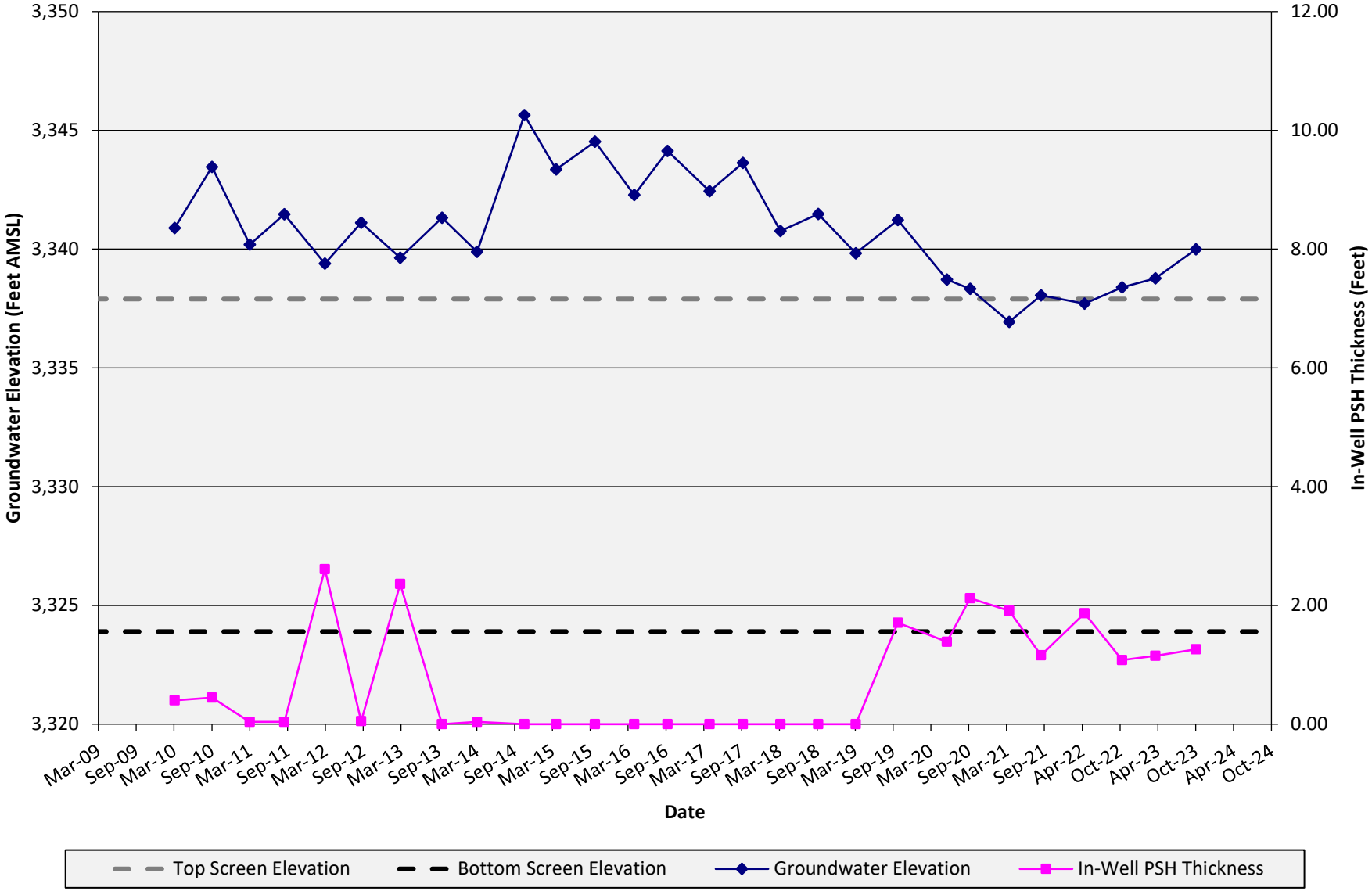
South Refinery



KWB-5: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

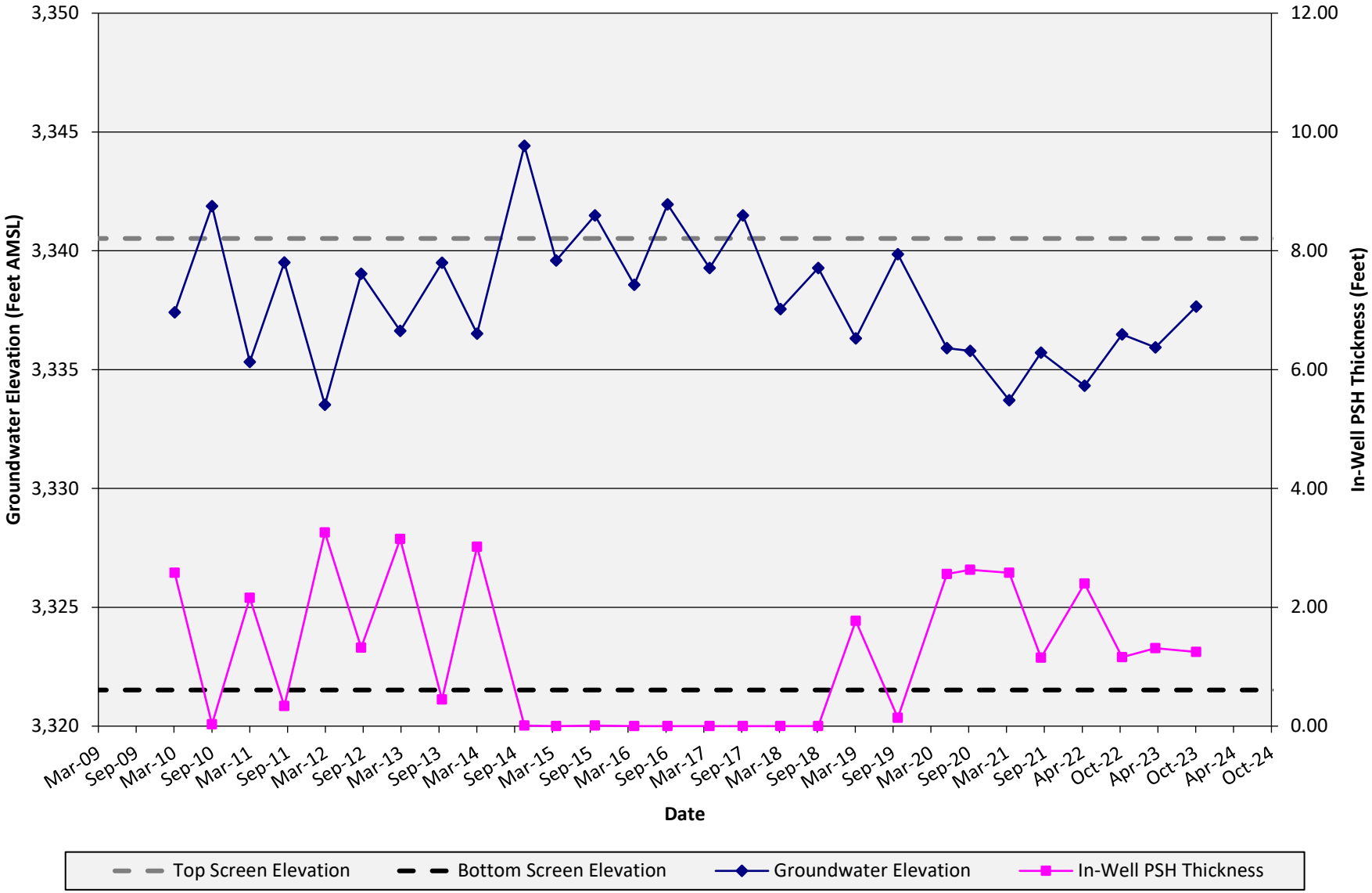
South Refinery



KWB-6: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

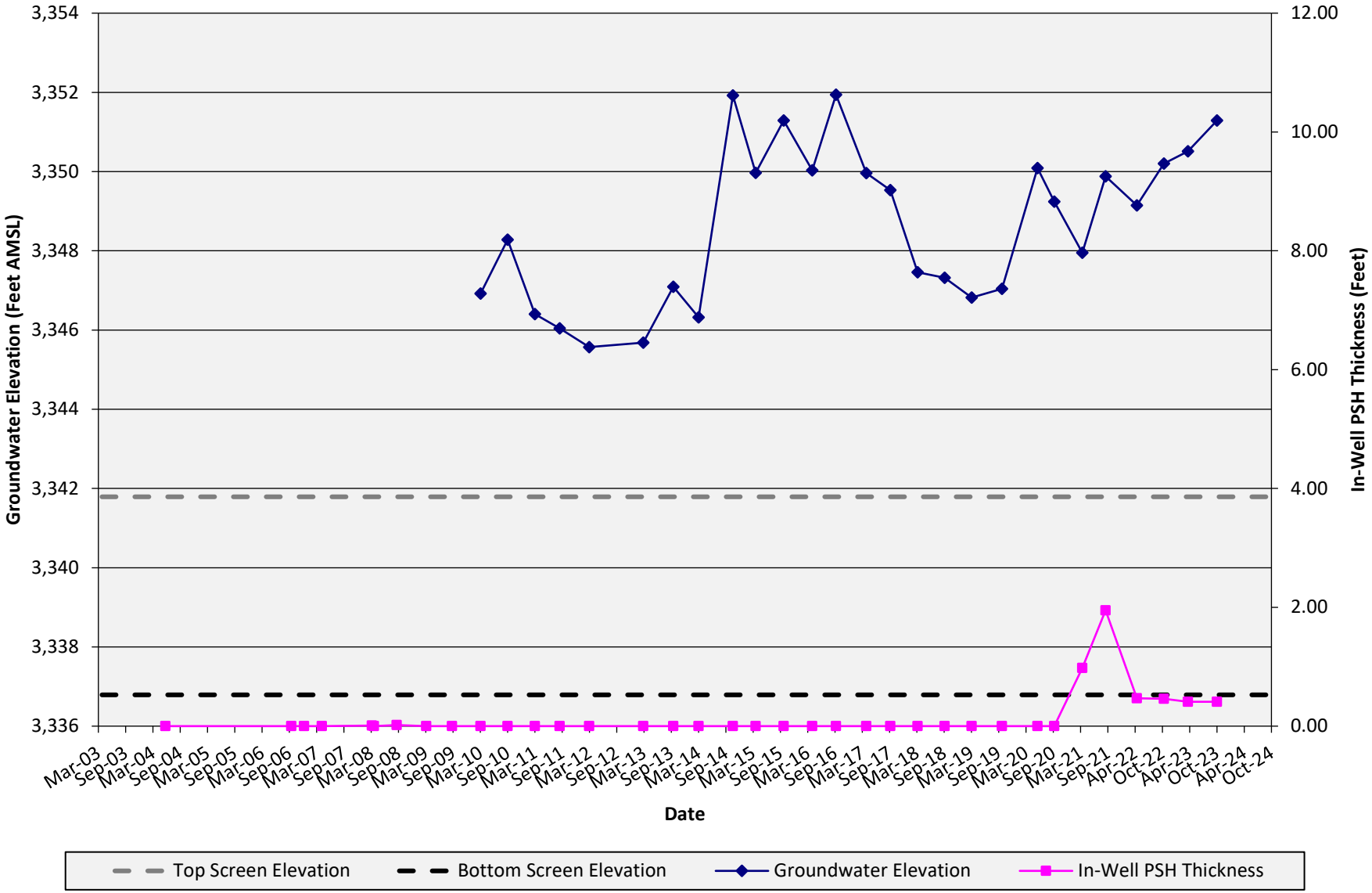
South Refinery



MW-28: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

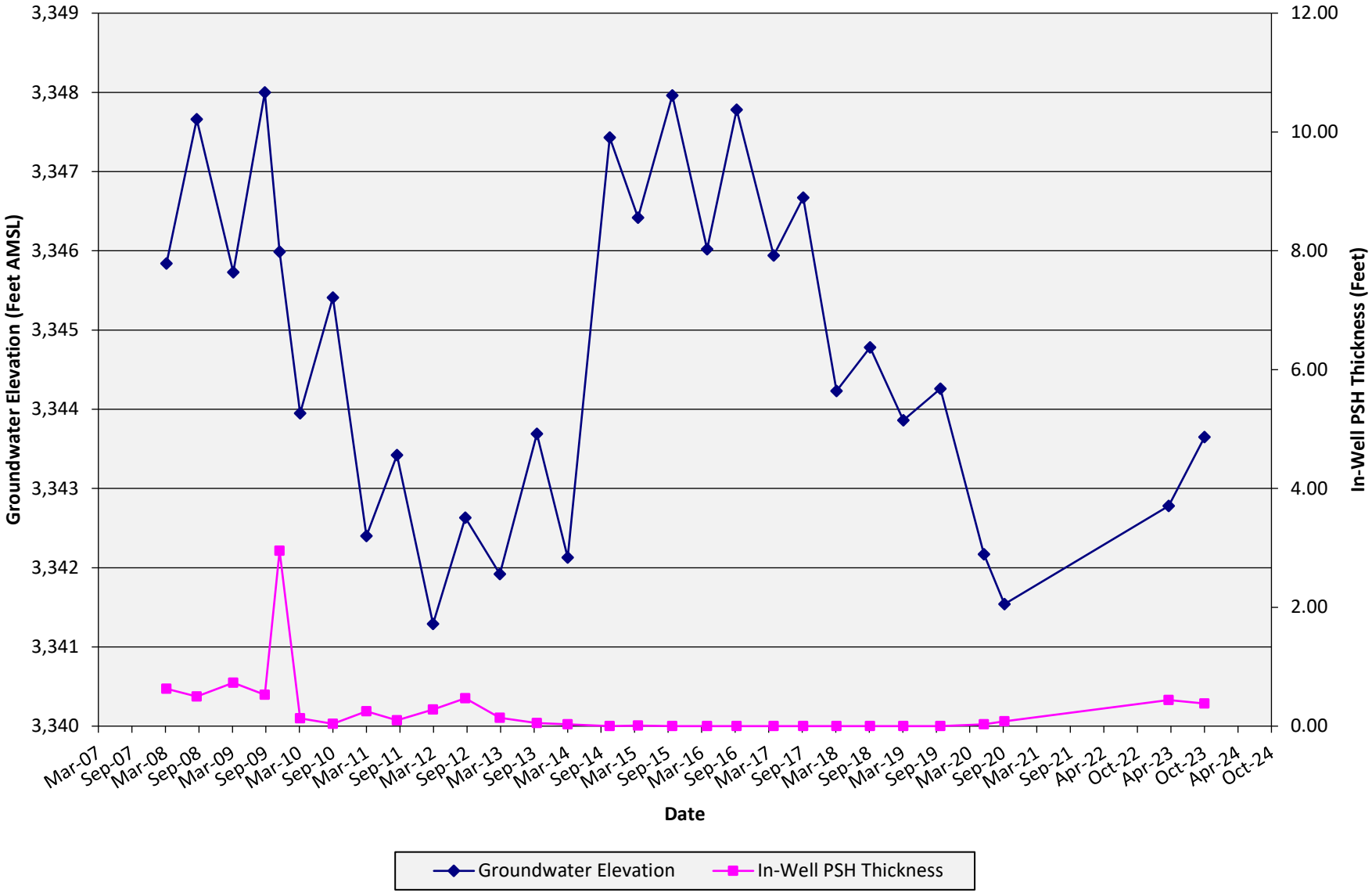
South Refinery



MW-48: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

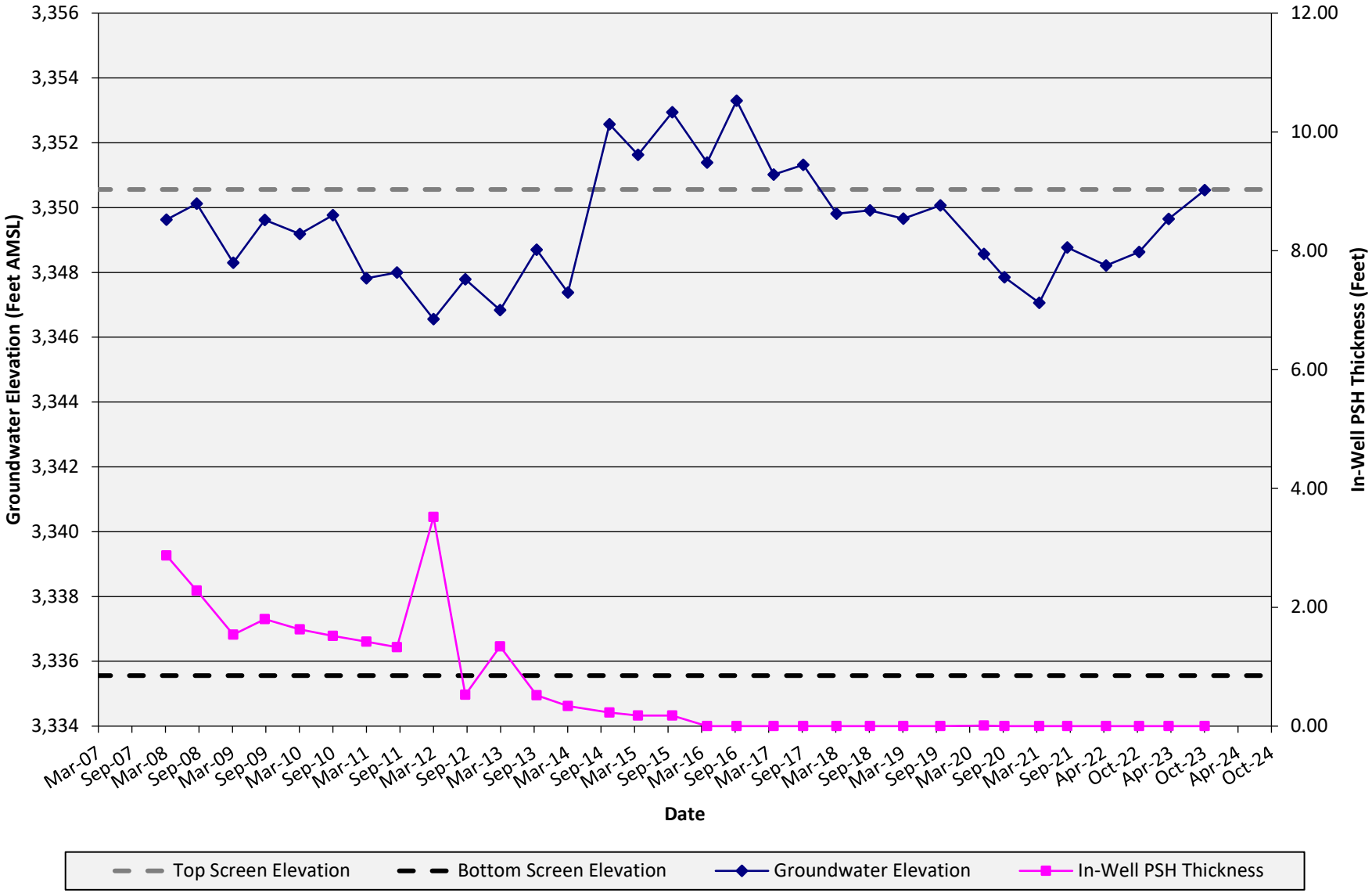
South Refinery



MW-64: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

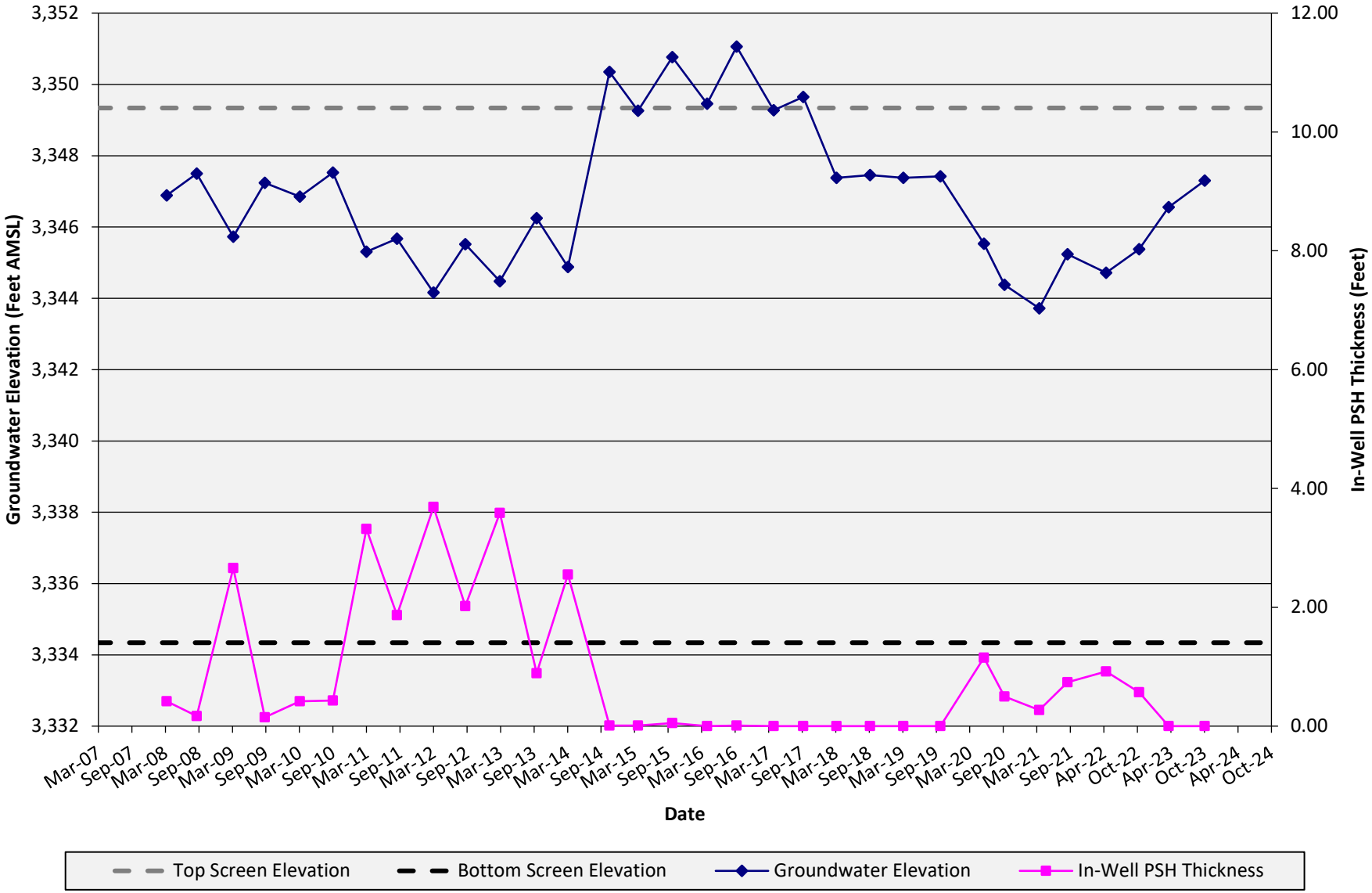
South Refinery



MW-65: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

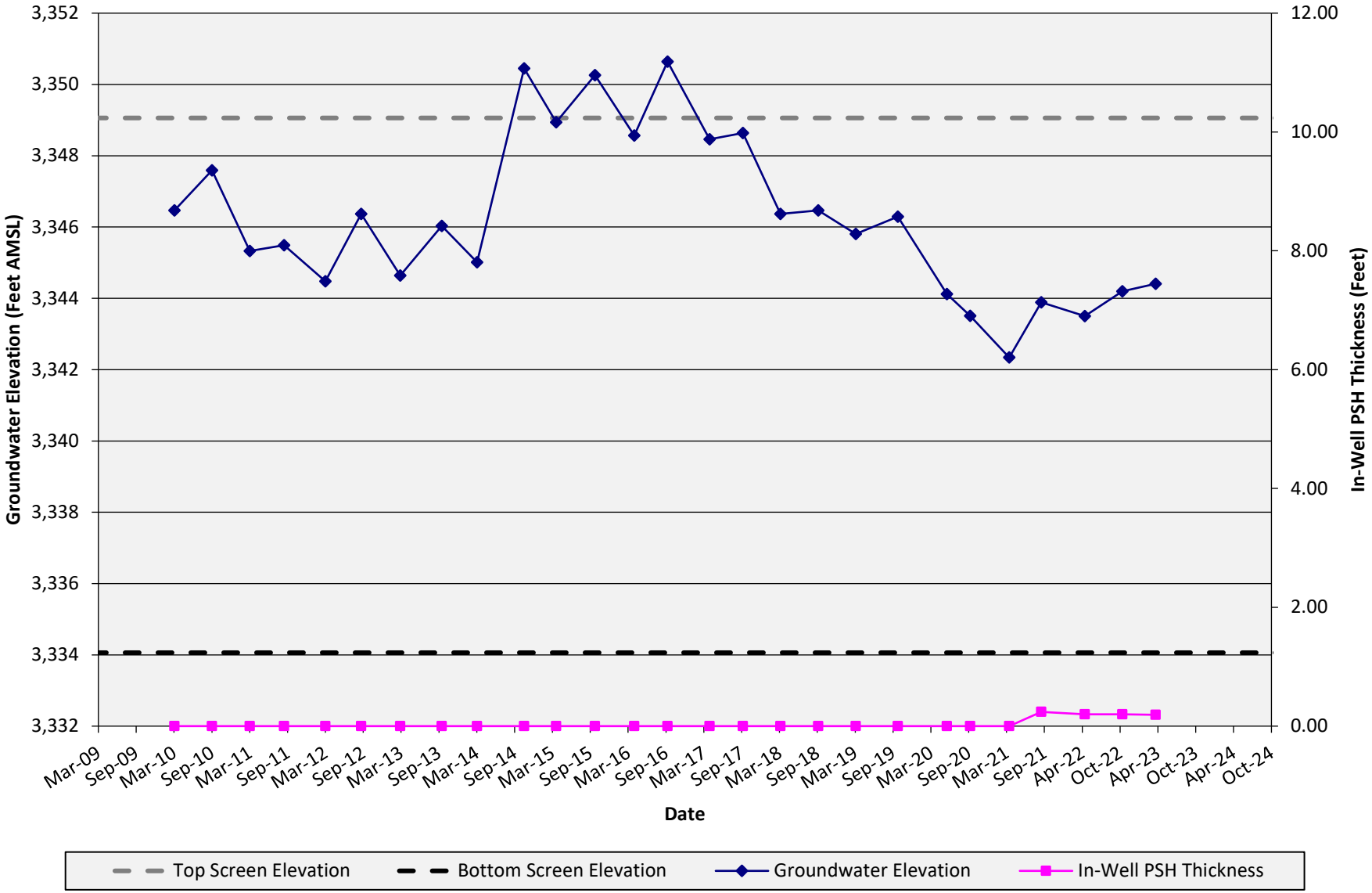
South Refinery



MW-66: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

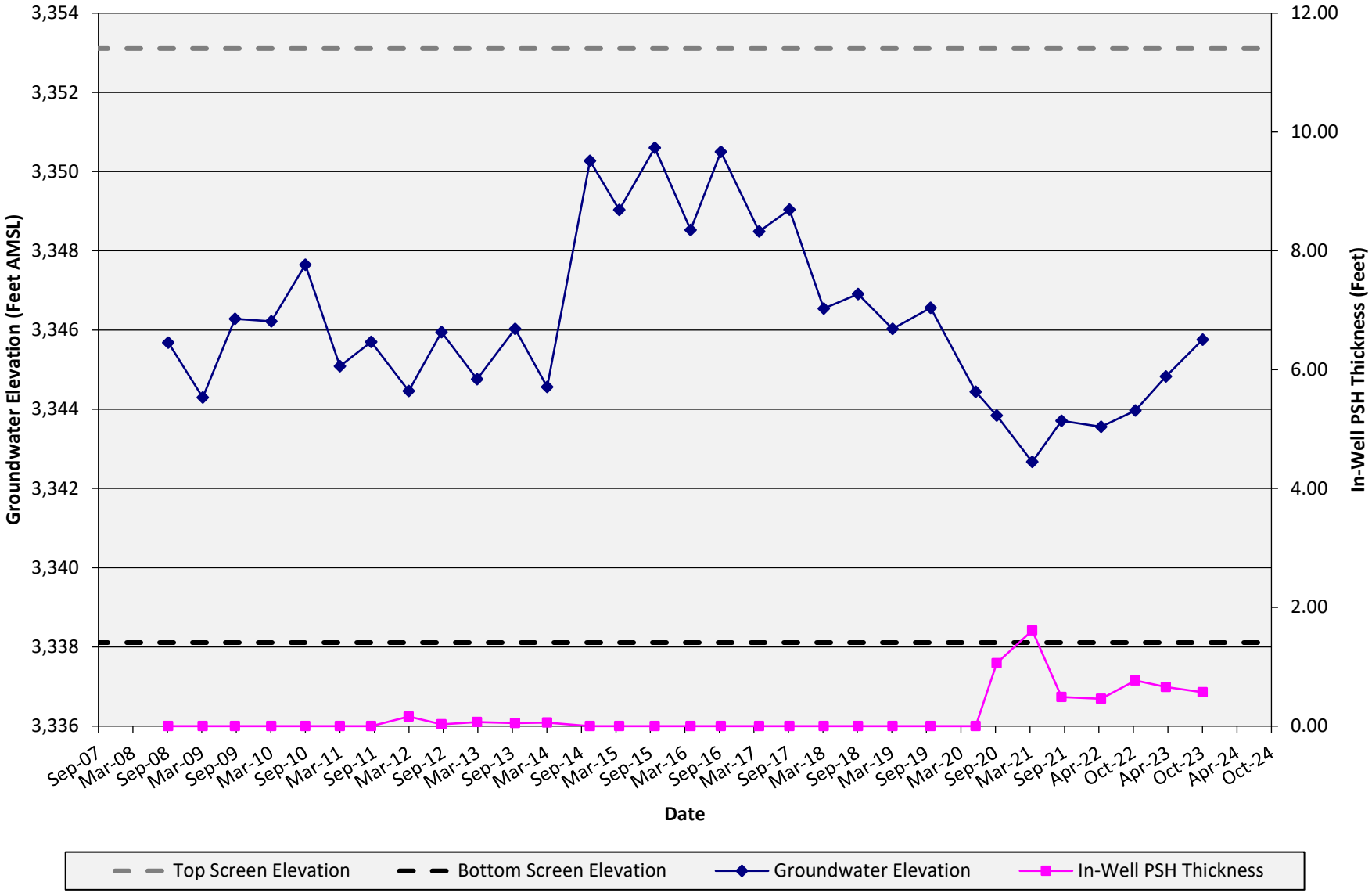
South Refinery



MW-99: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

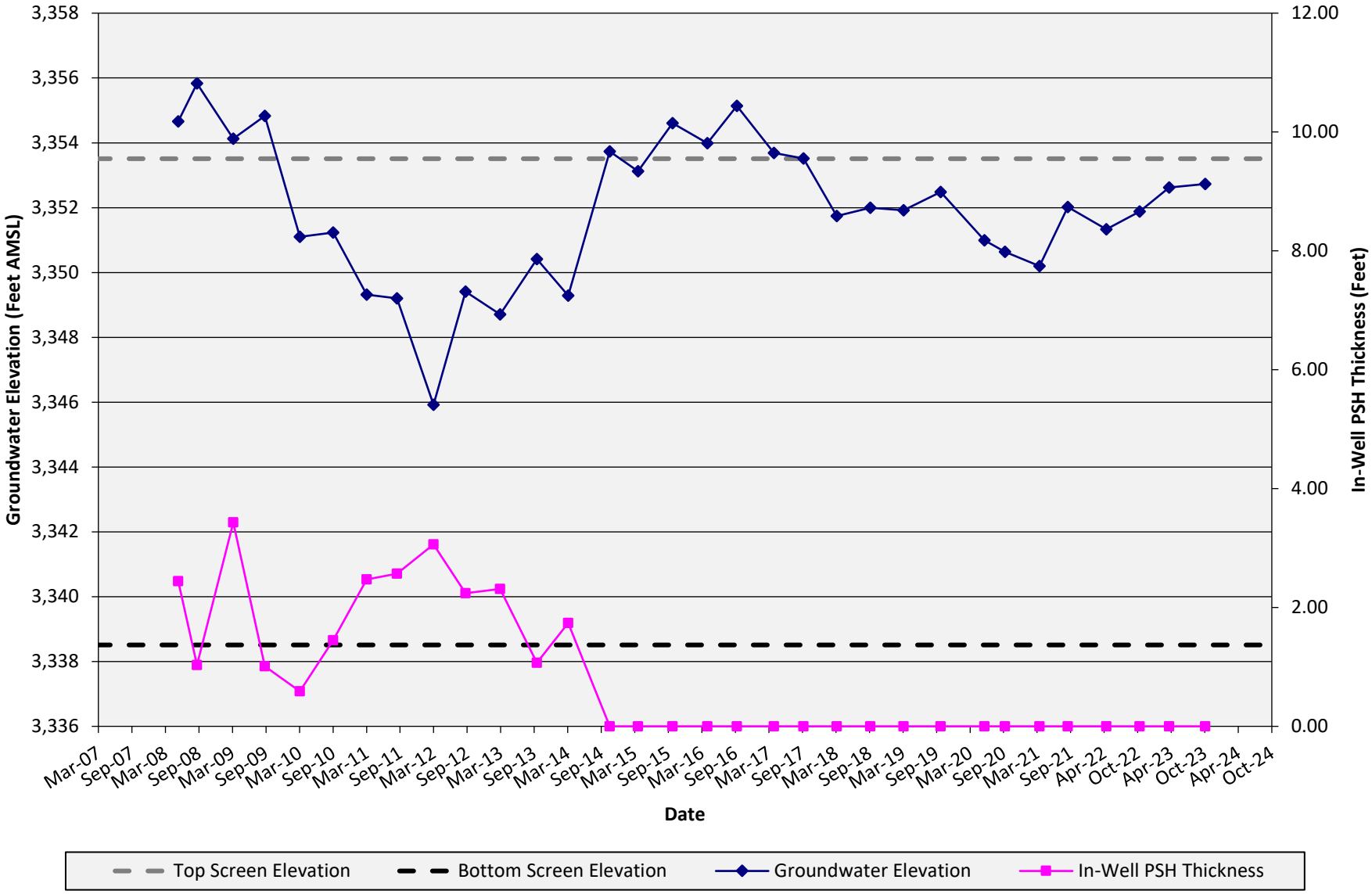
South Refinery



MW-102: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

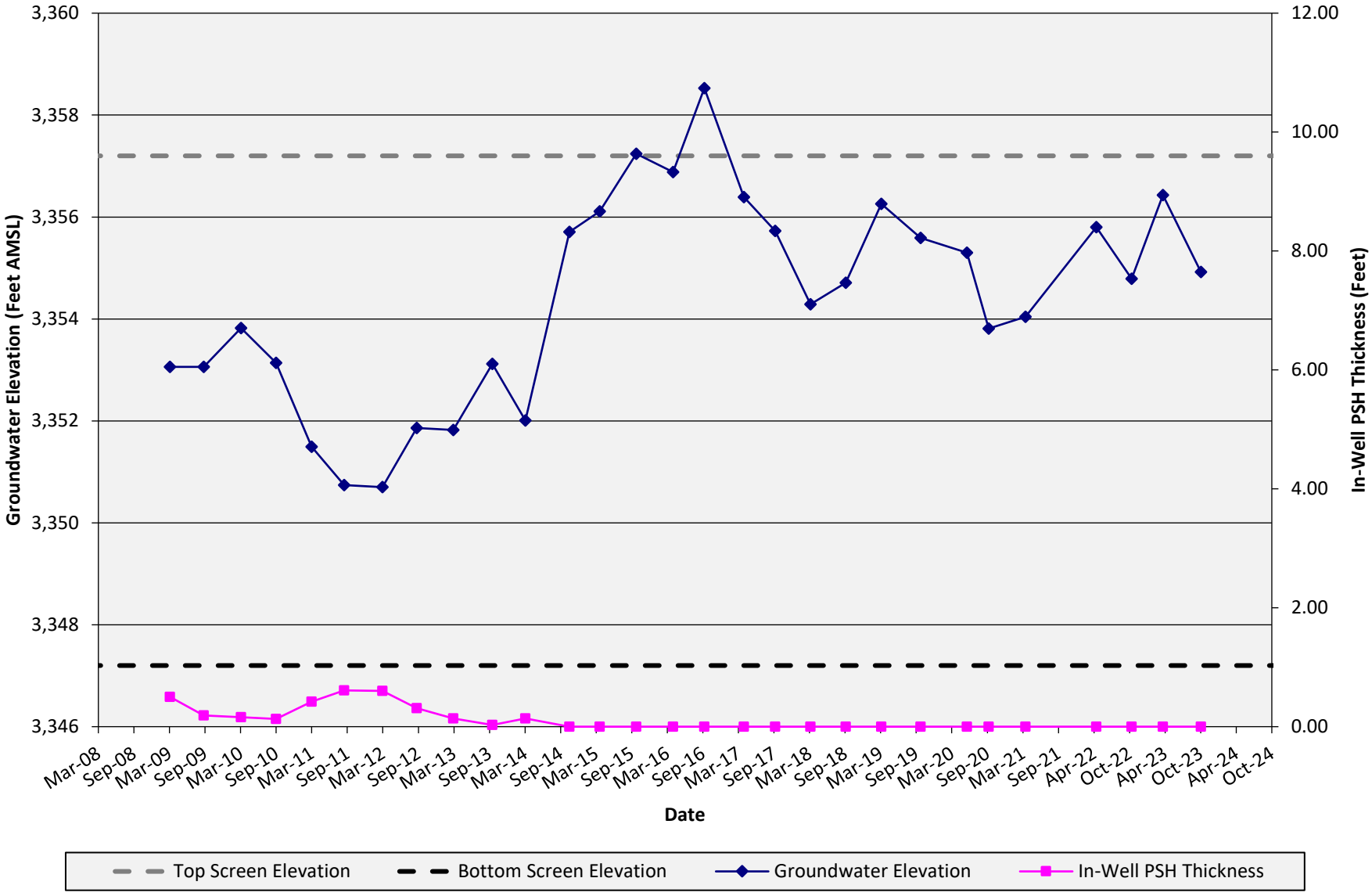
South Refinery



MW-105: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

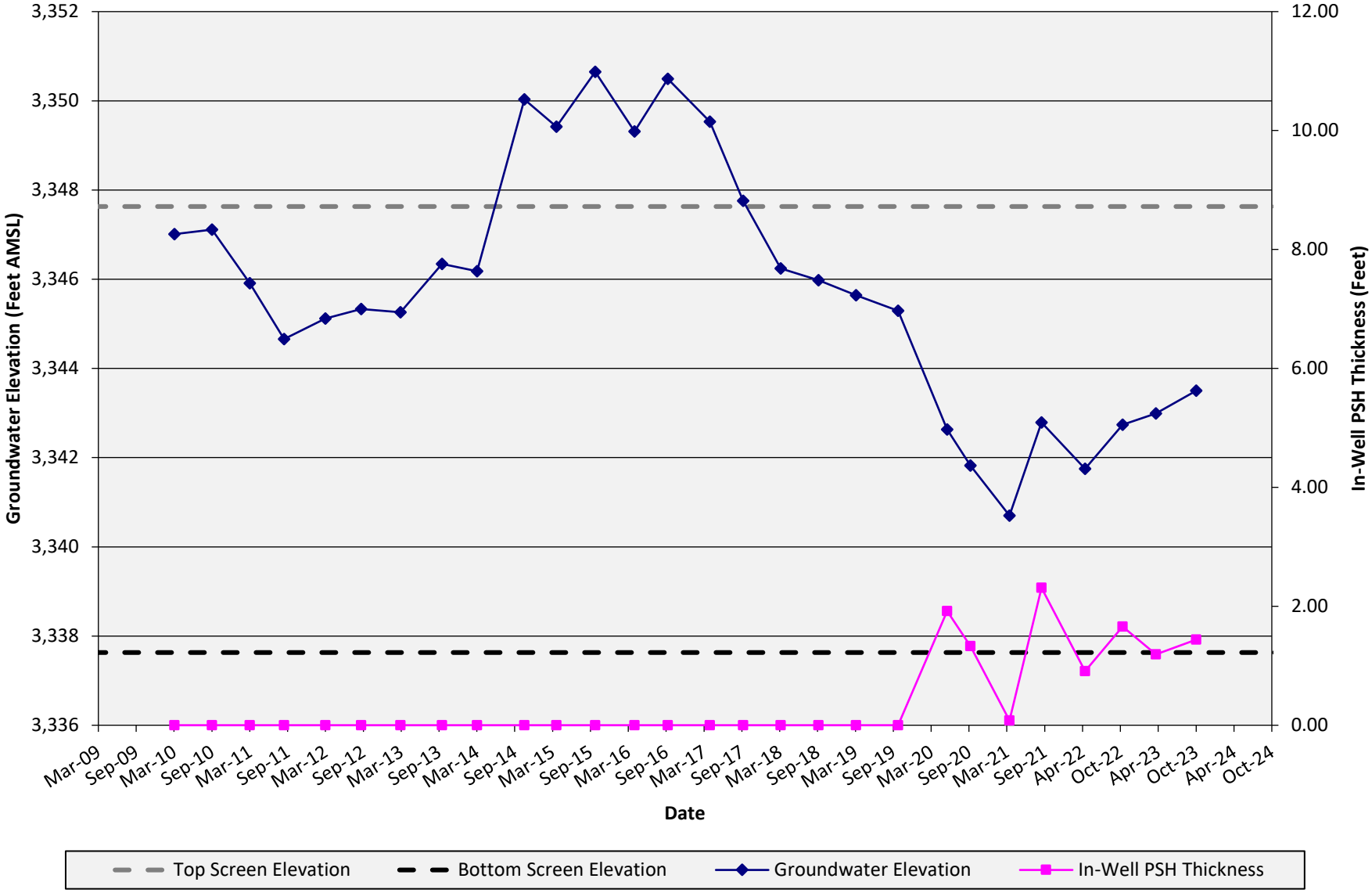
South Refinery



MW-107: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

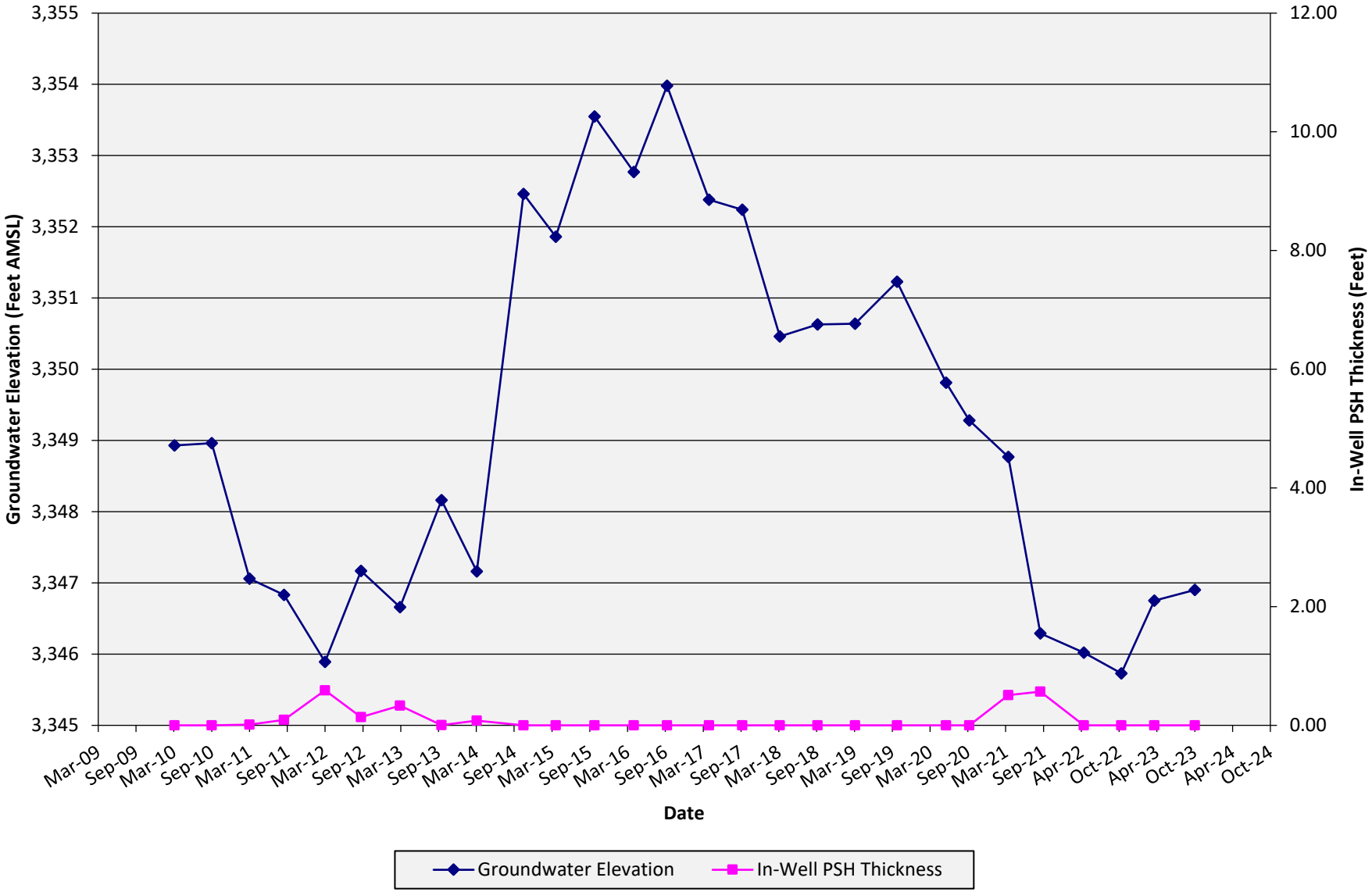
South Refinery



RW-4 & RW-4R: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

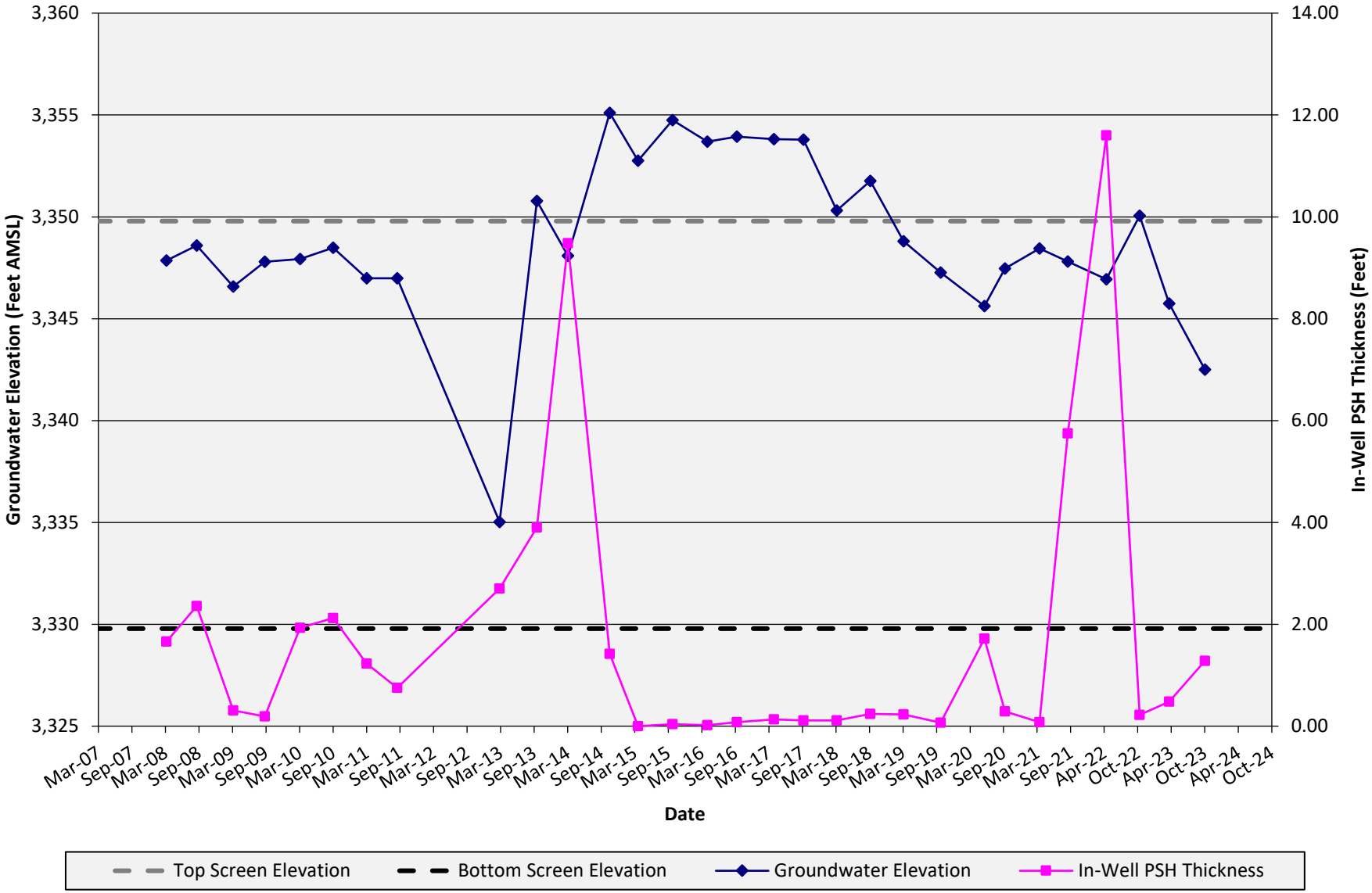
South Refinery



RW-5R: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

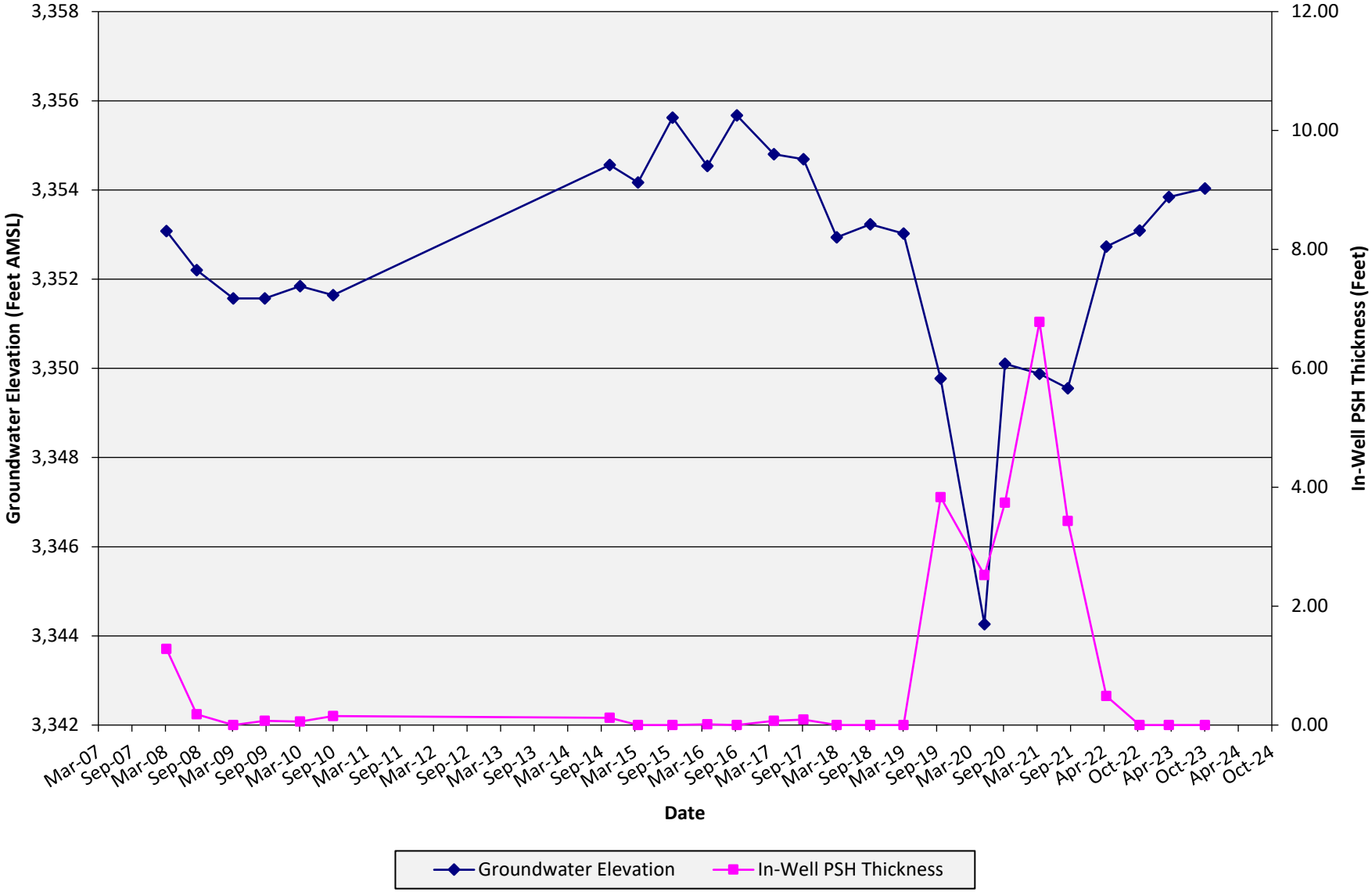
South Refinery



RW-6: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

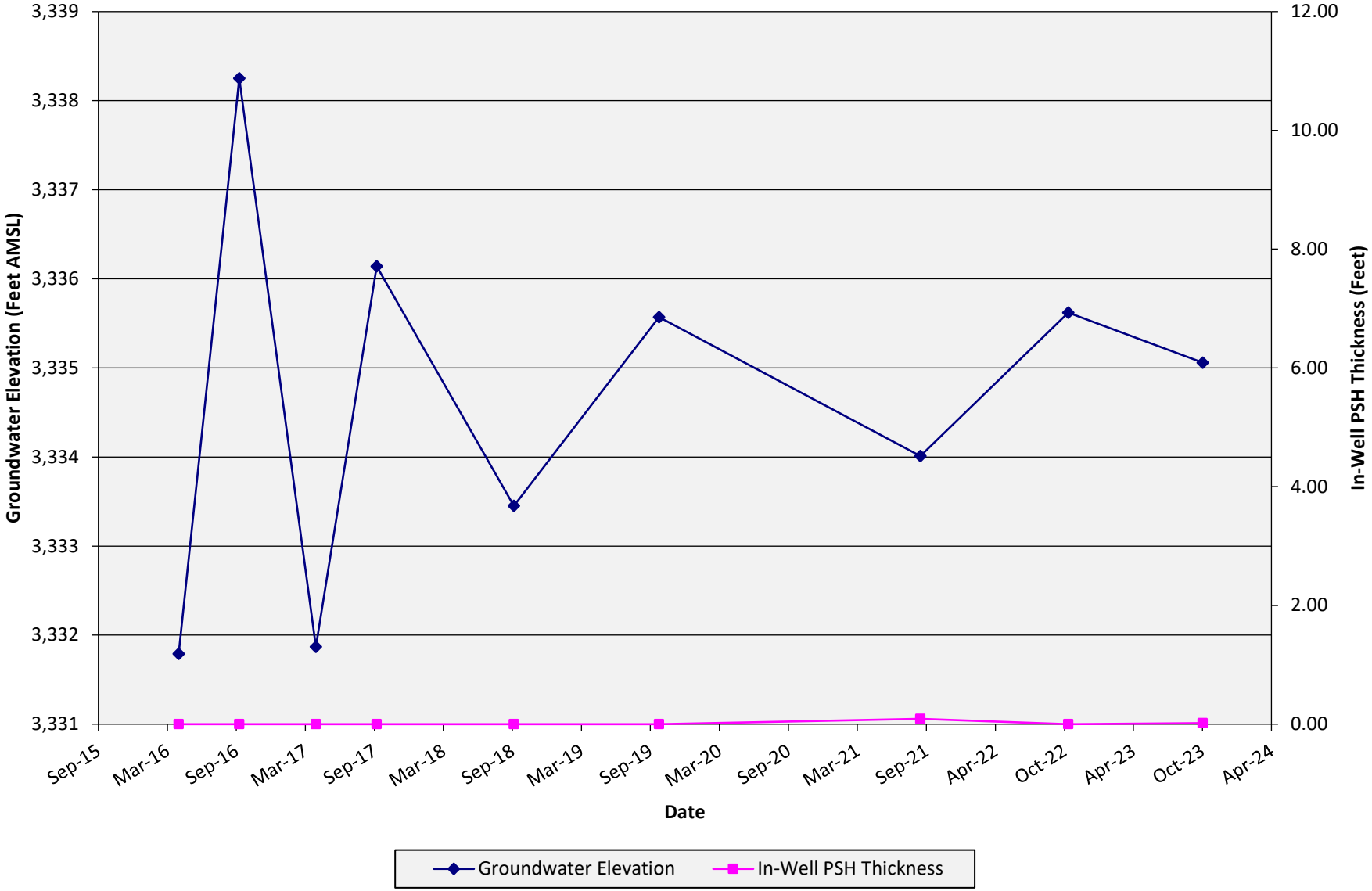
South Refinery



RW-11-0: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

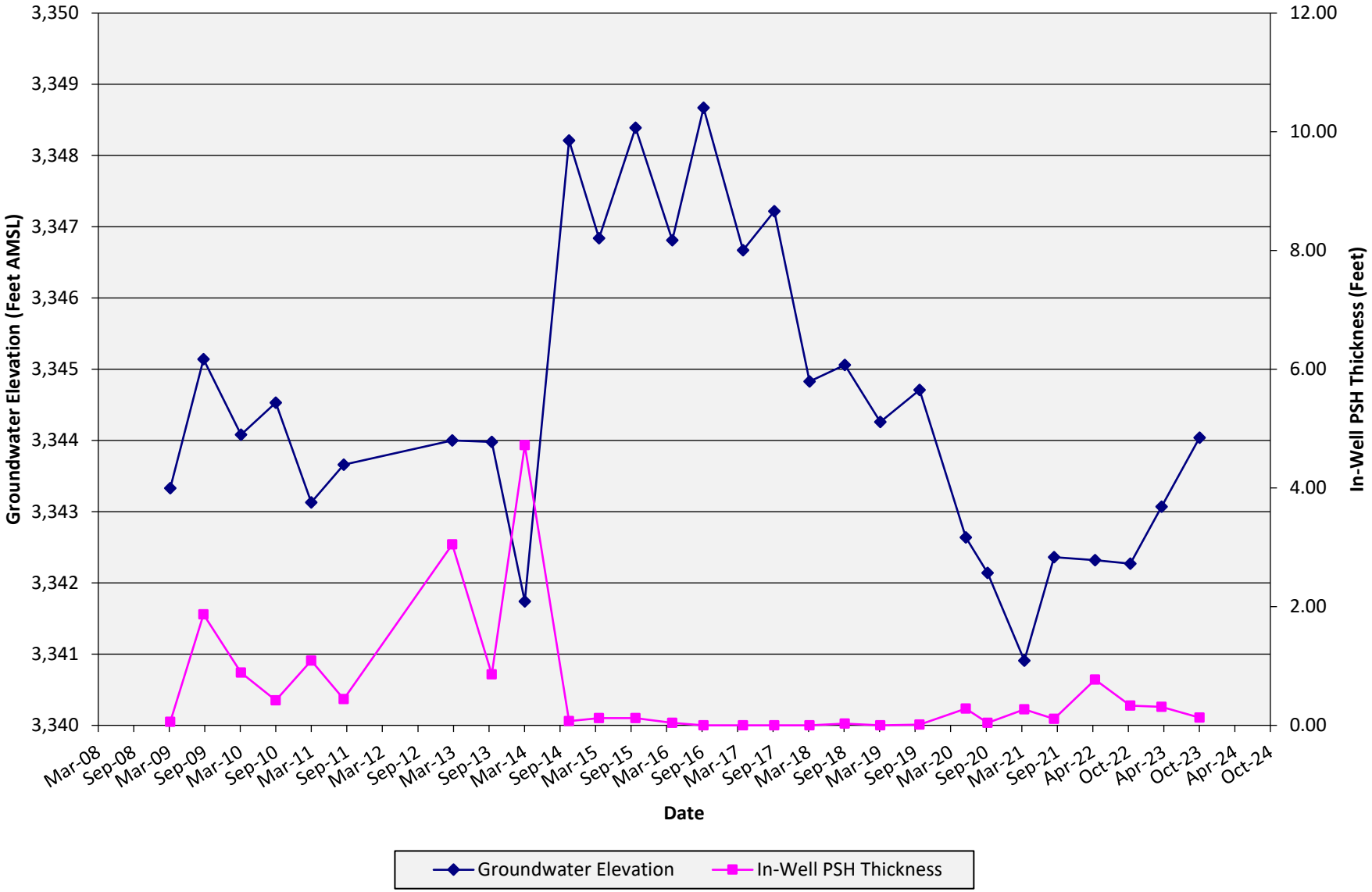
South Refinery



RW-15C: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

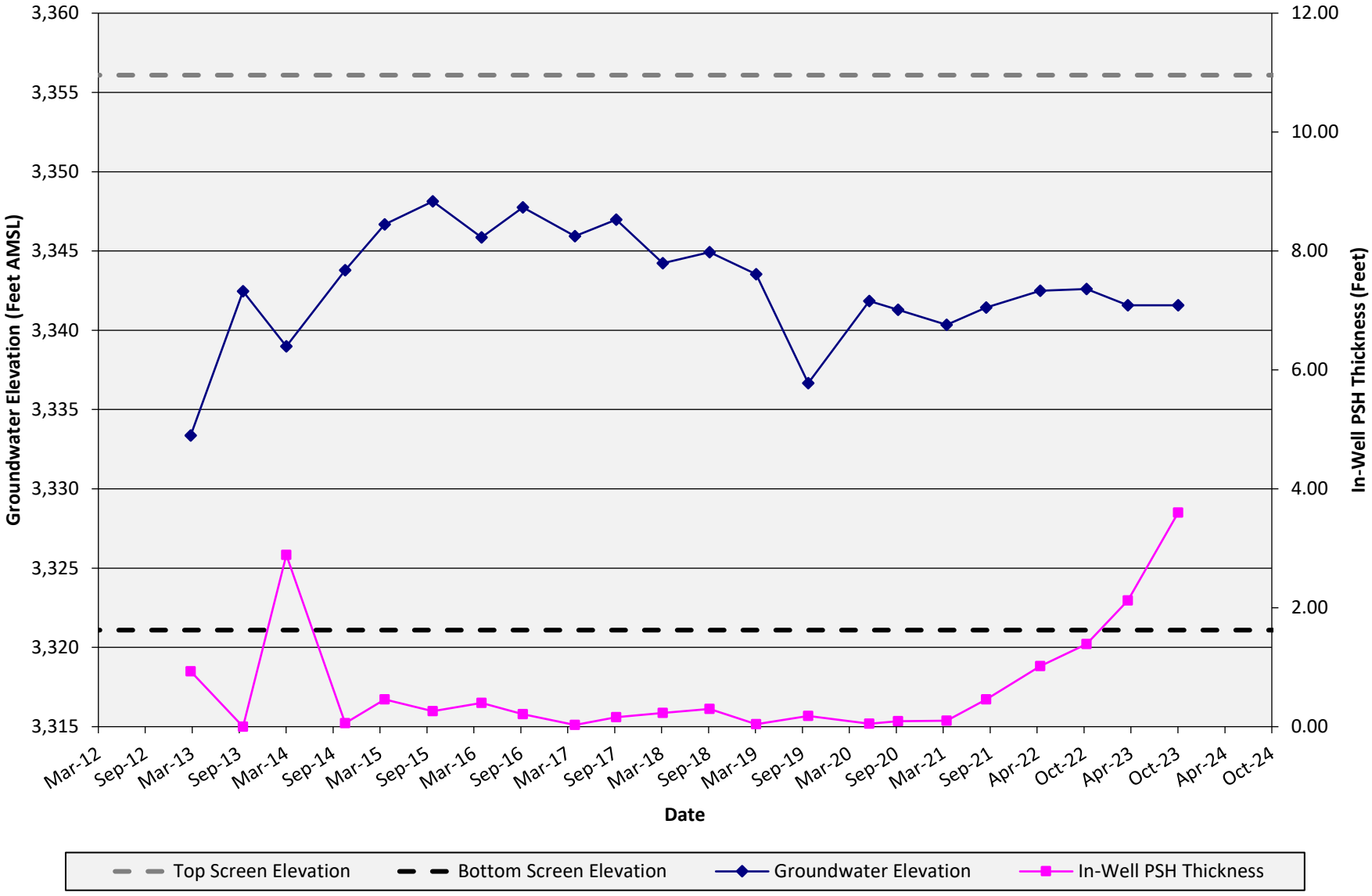
South Refinery



RW-19: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

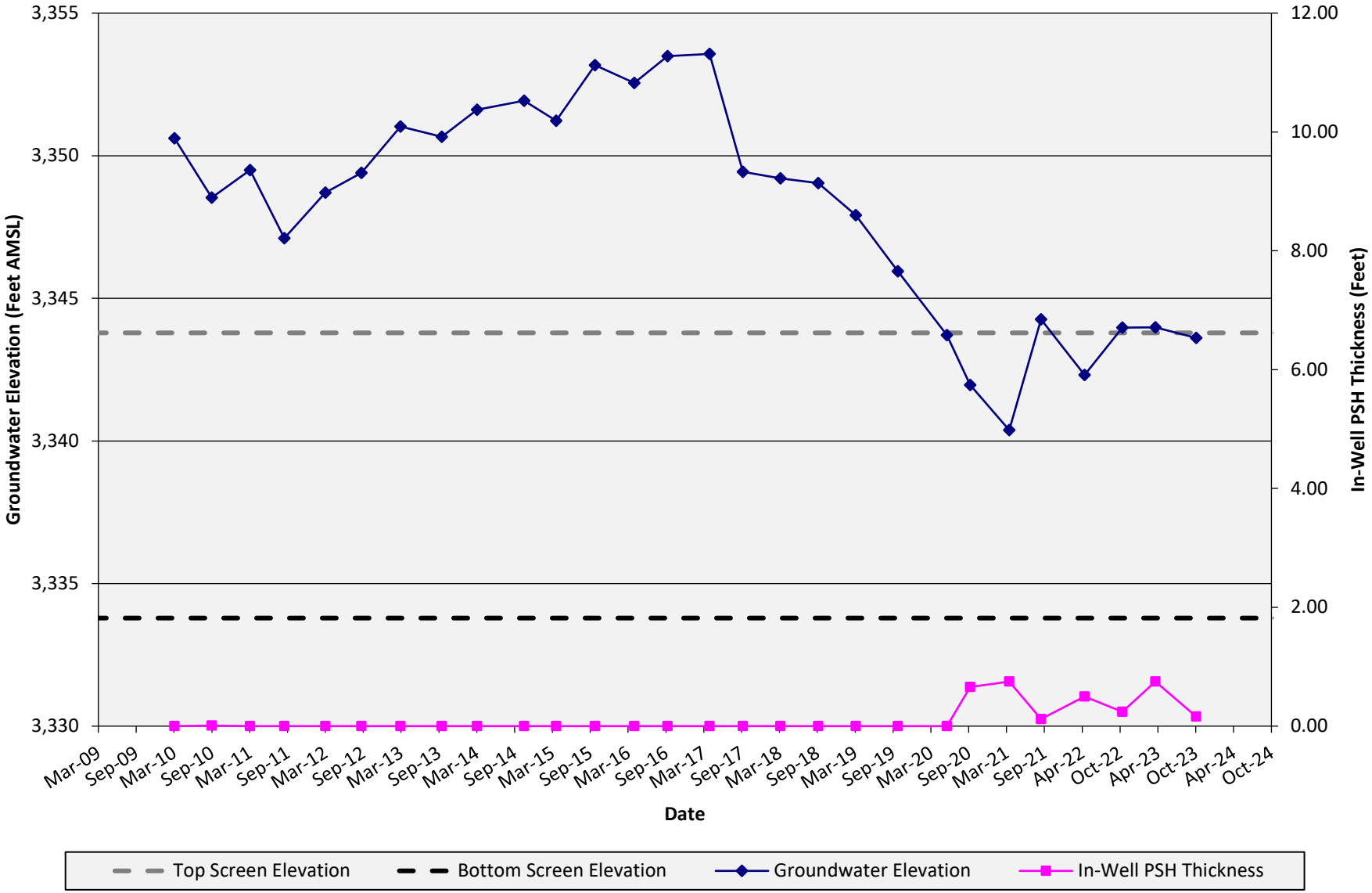
South Refinery



TEL-1: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

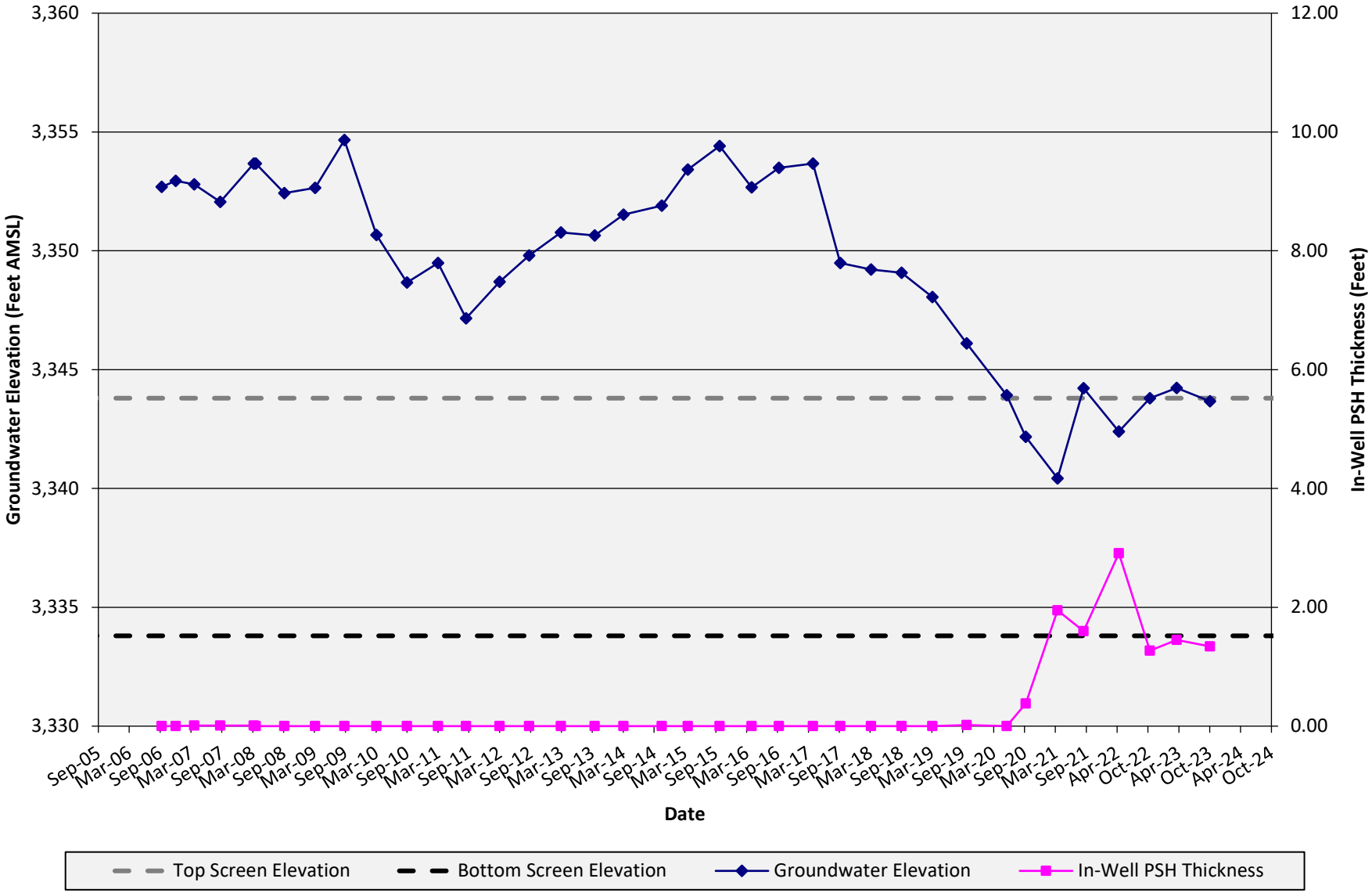
Tetra Ethyl Lead Surface Impoundment



TEL-2: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

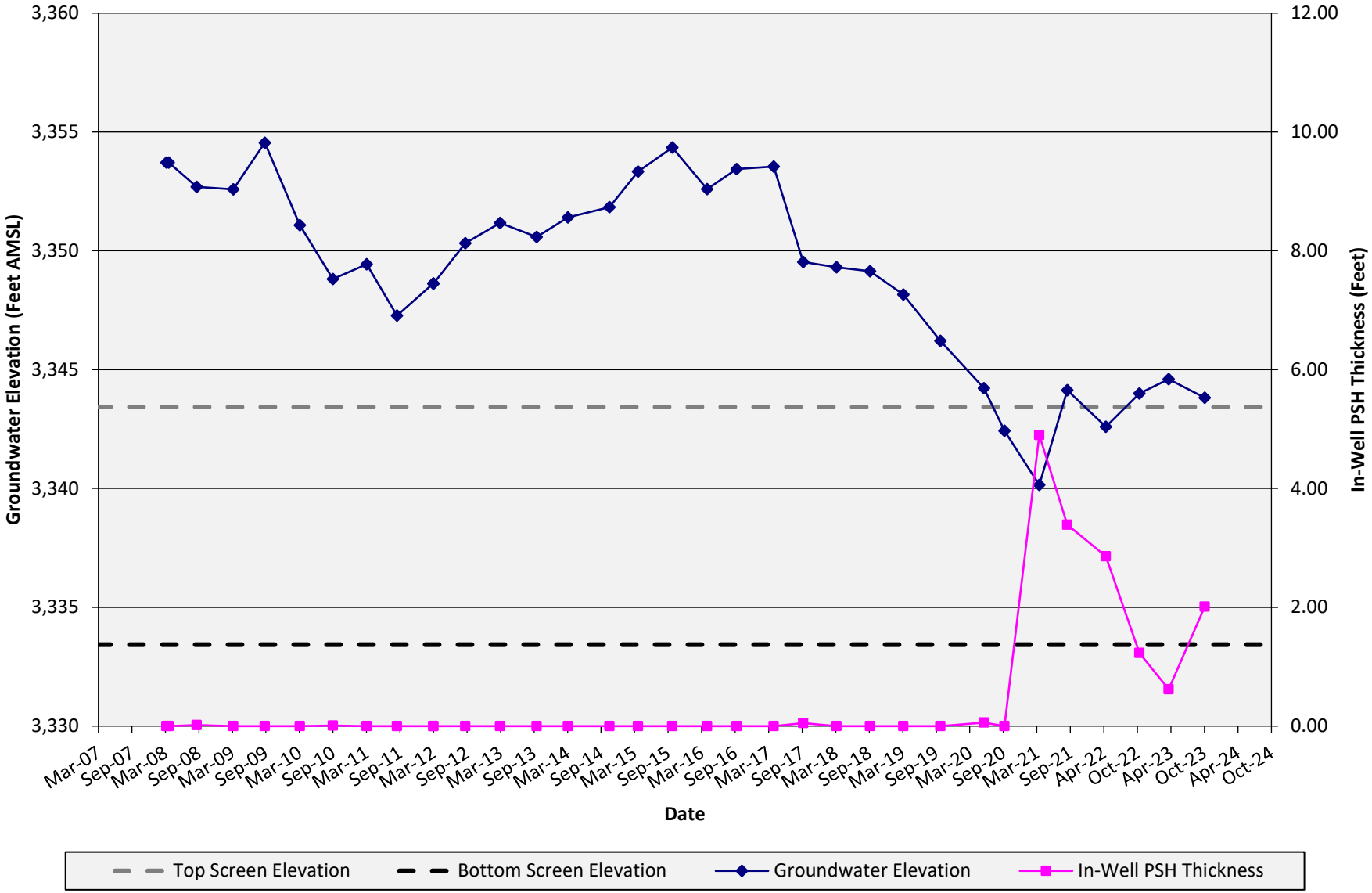
Tetra Ethyl Lead Surface Impoundment



TEL-3: Groundwater Elevations and In-Well PSH Thicknesses

HF Sinclair Navajo Refining LLC - Artesia Refinery

Tetra Ethyl Lead Surface Impoundment

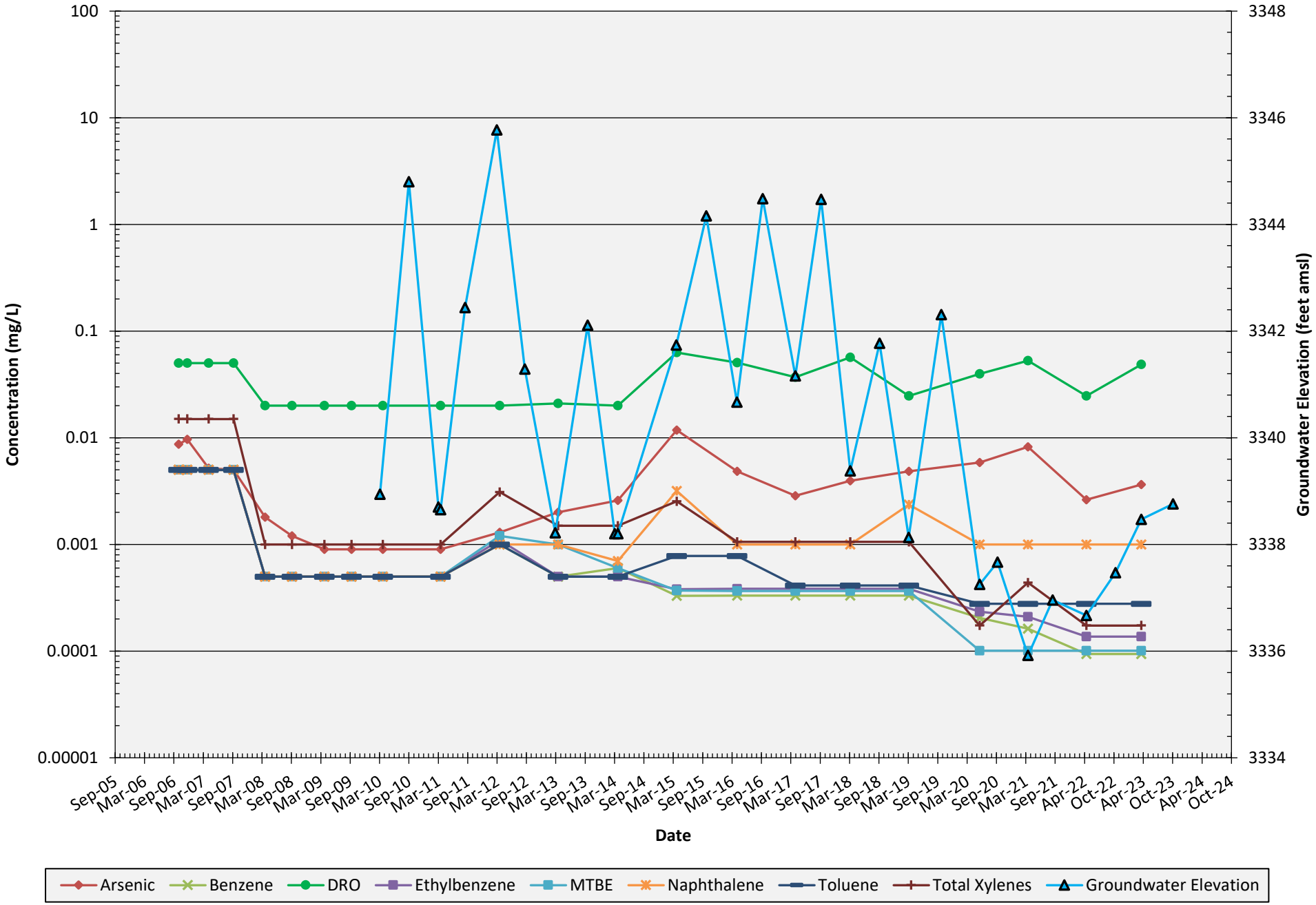


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KWB-13: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Cross-and-Up-Gradient

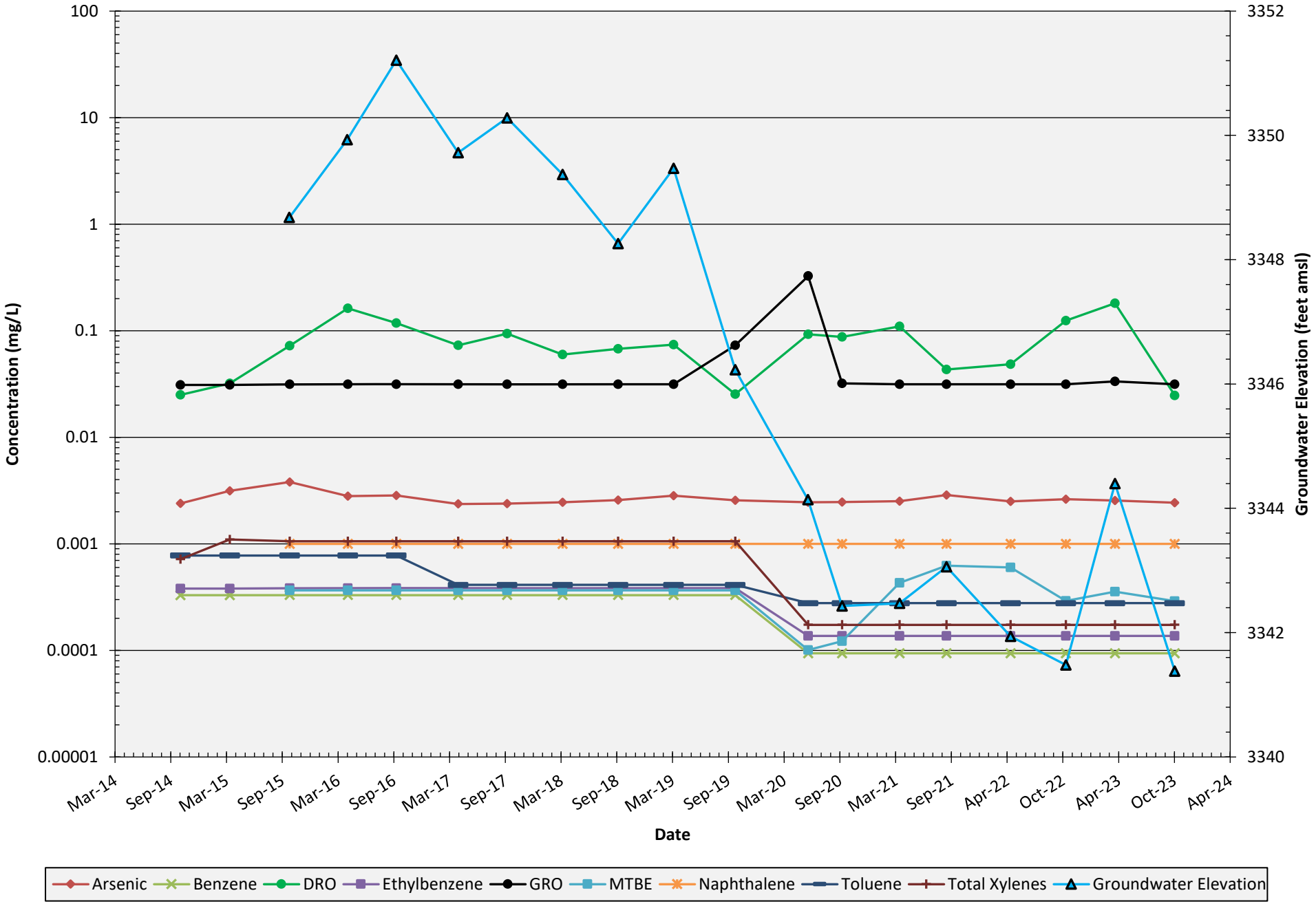


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MW-136: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Cross-and-Up-Gradient

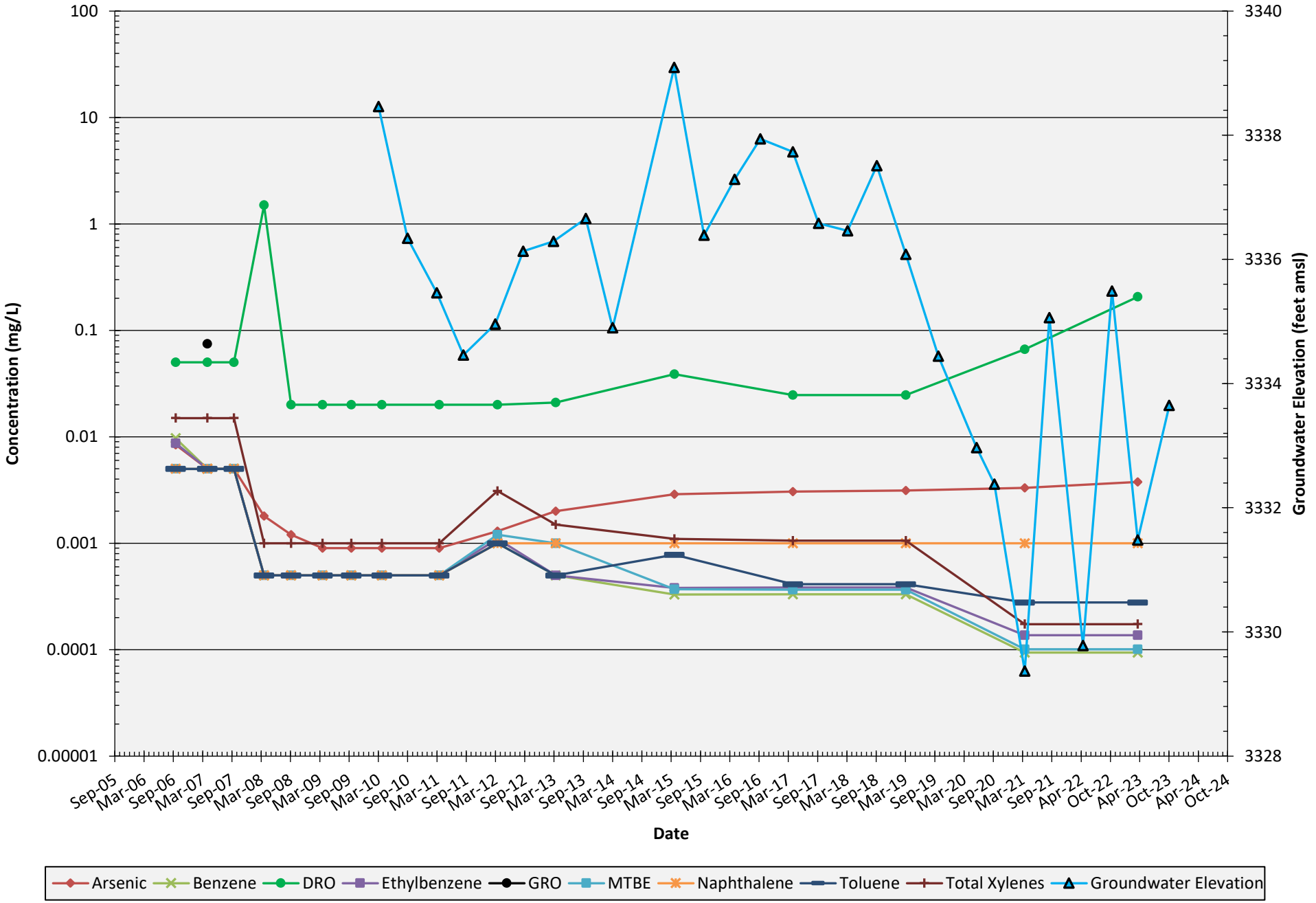


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NP-5: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Cross-and-Up-Gradient

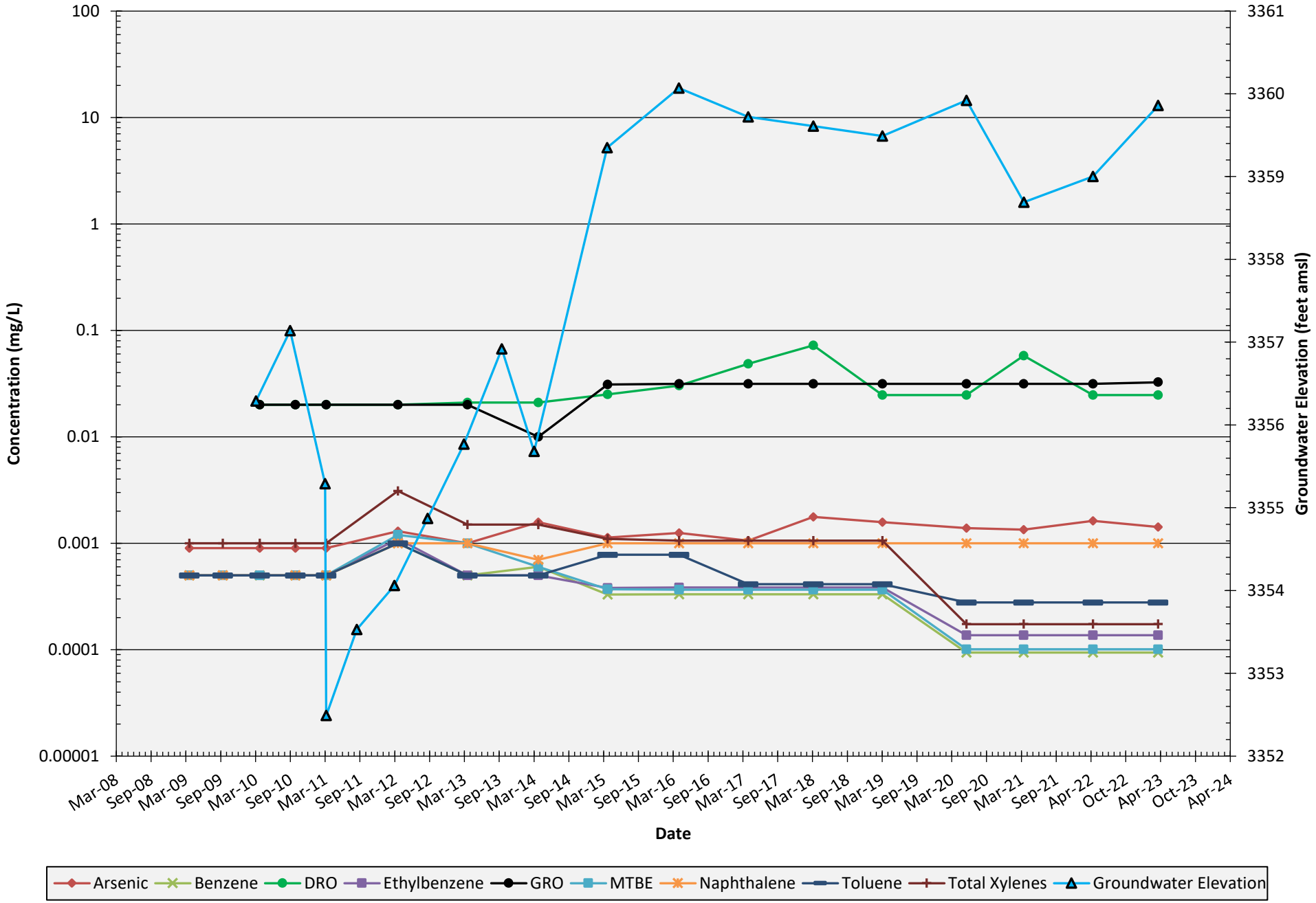


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UG-1: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Cross-and-Up-Gradient

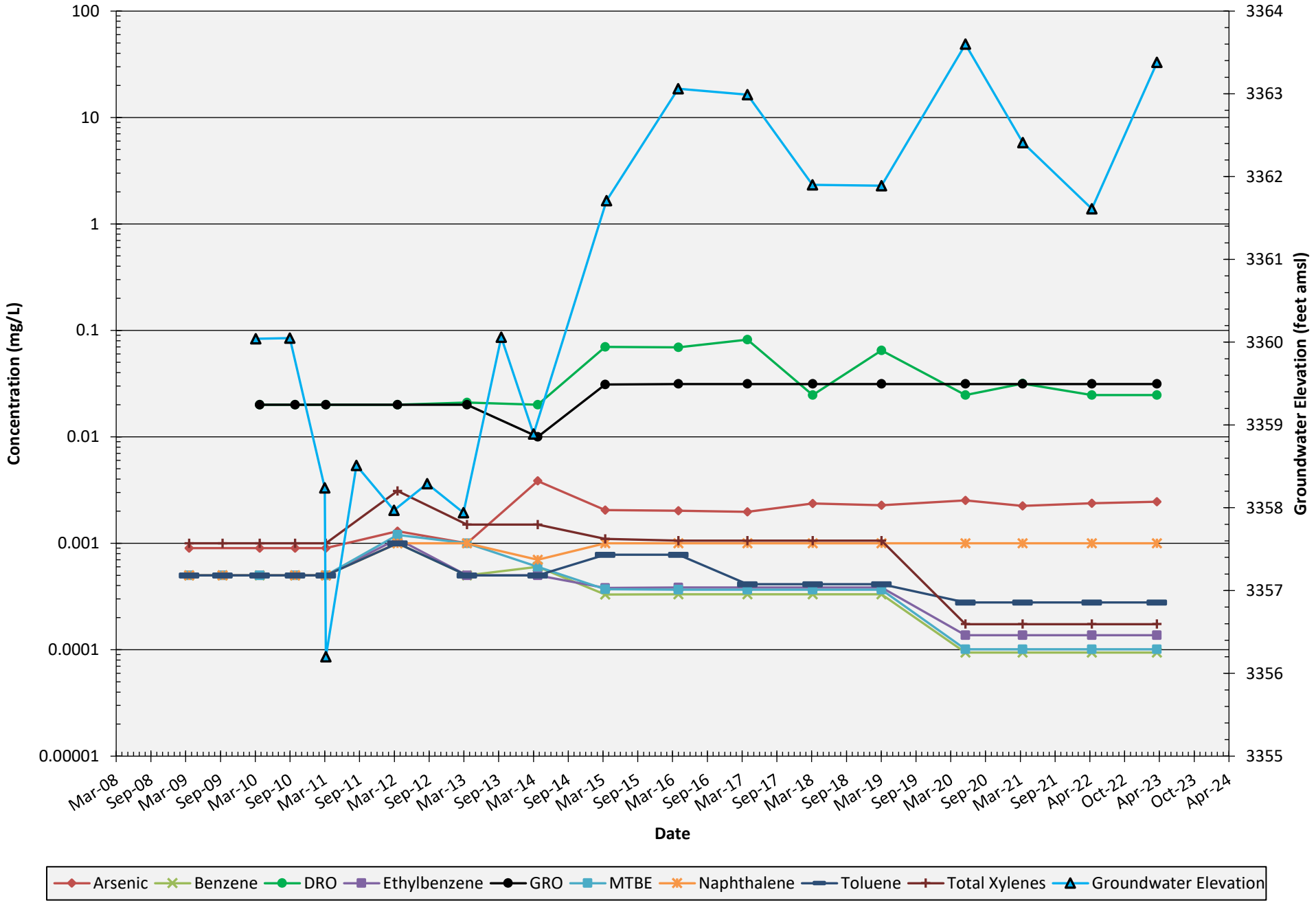


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UG-2: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Cross-and-Up-Gradient

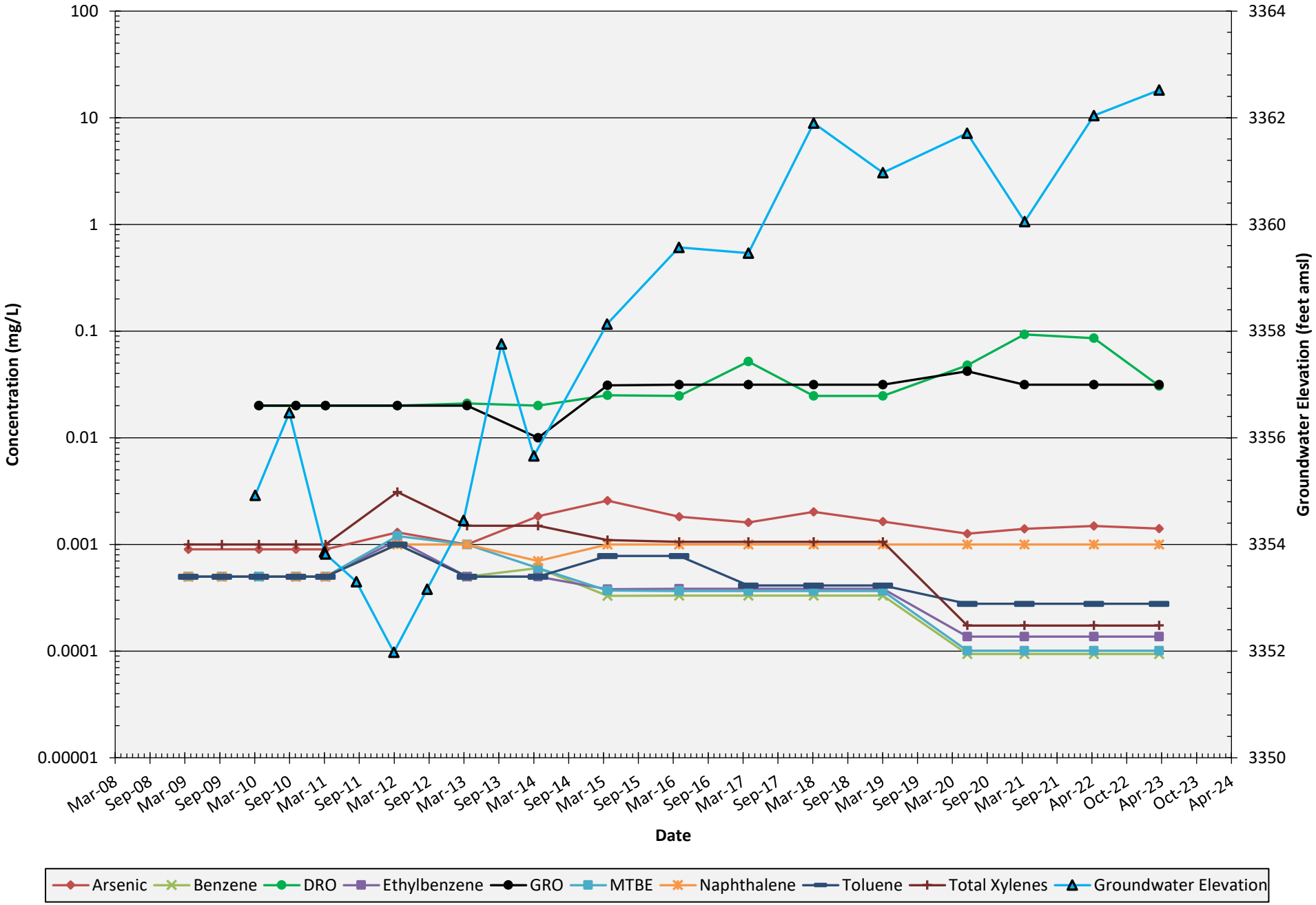


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UG-3R: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Cross-and-Up-Gradient

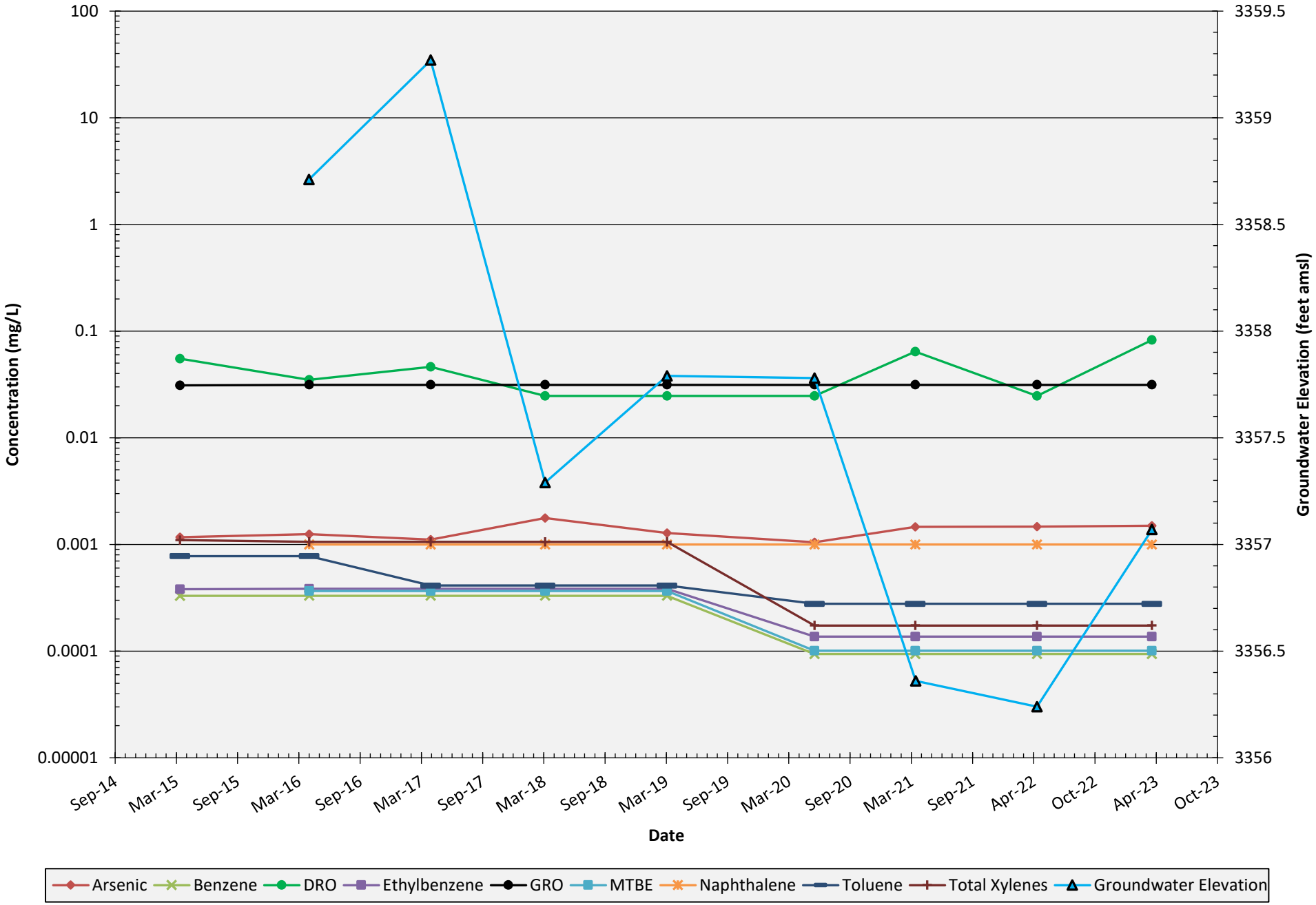


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UG-4: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Cross-and-Up-Gradient

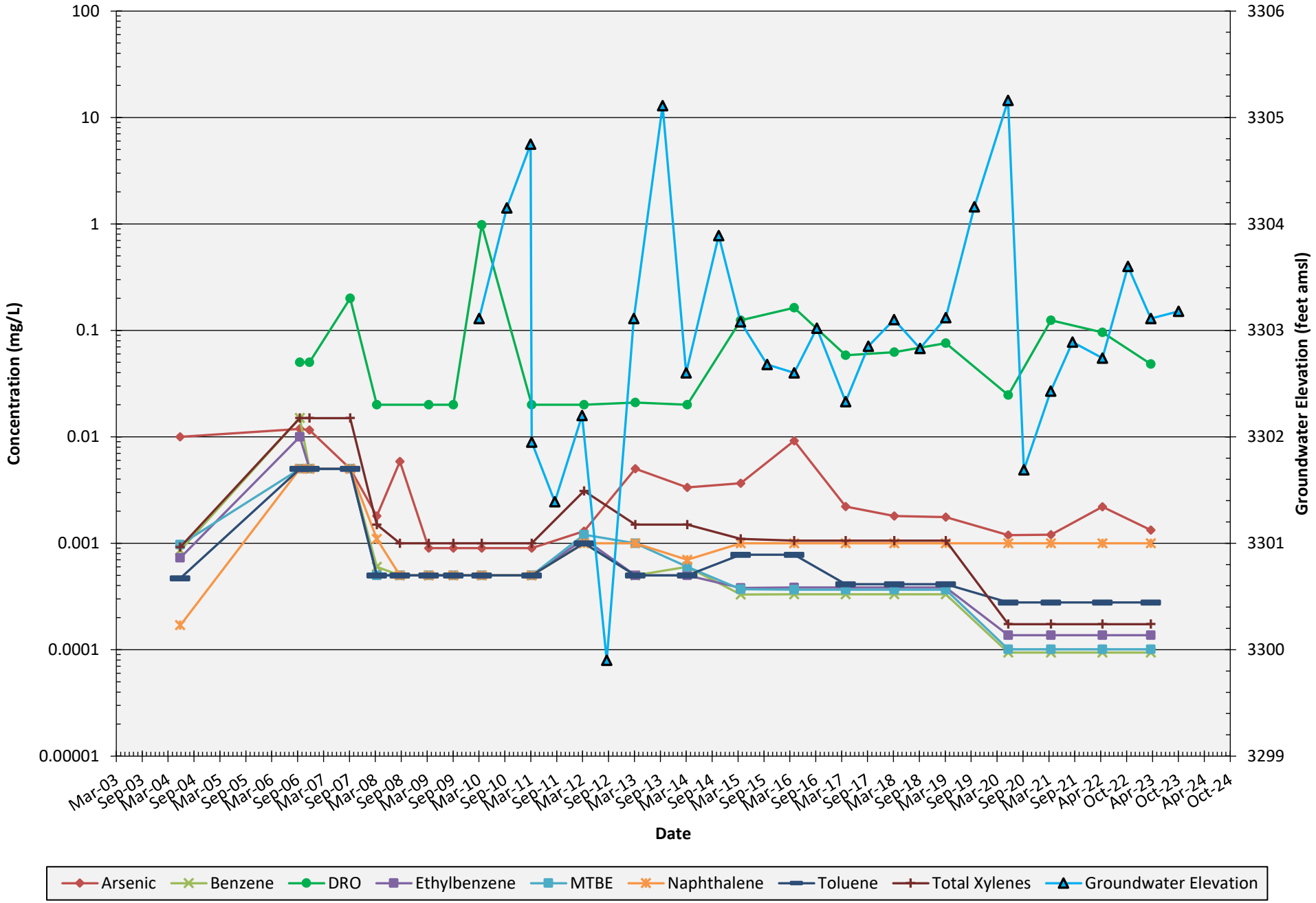


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MW-1R: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

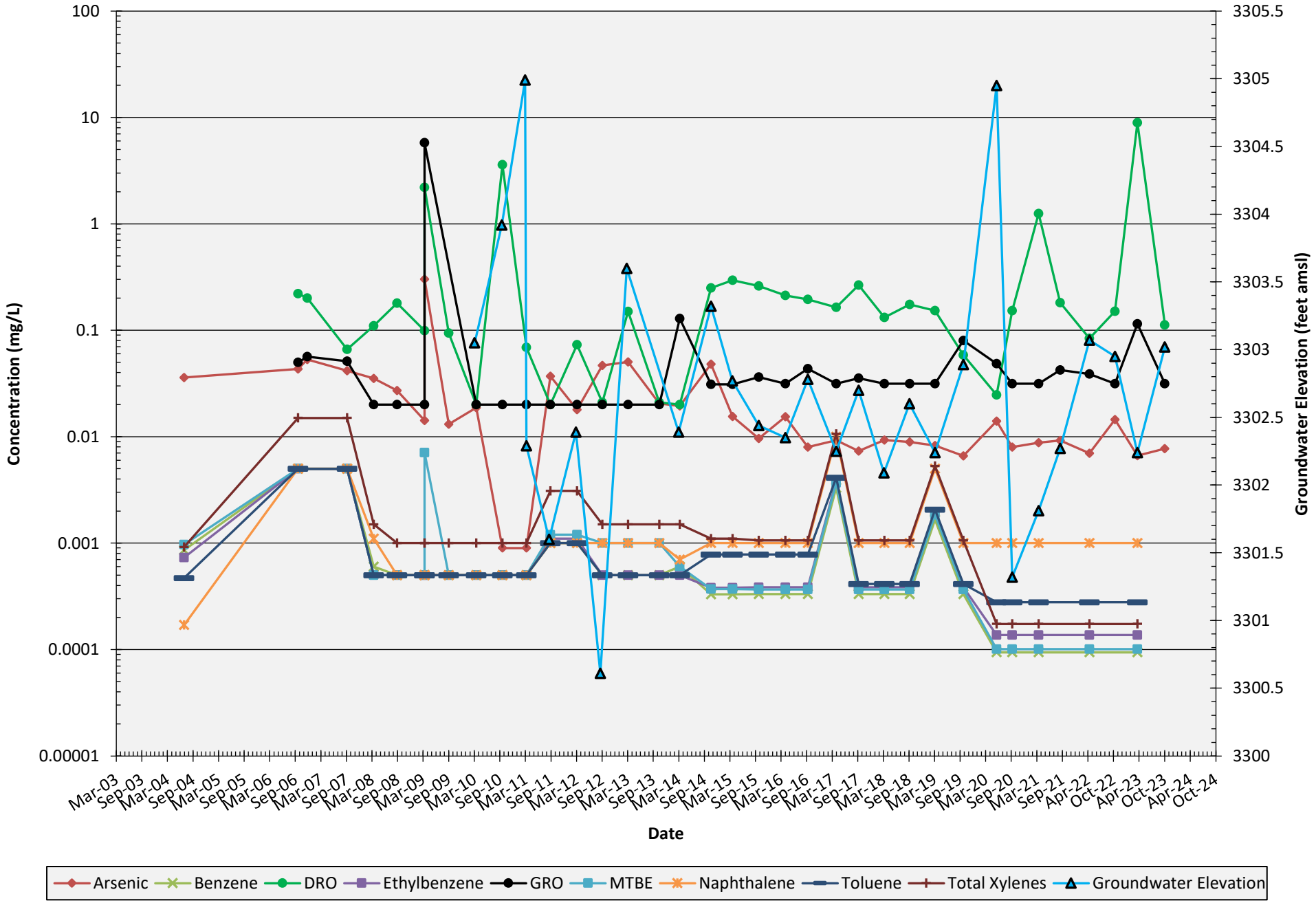


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MW-2A: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

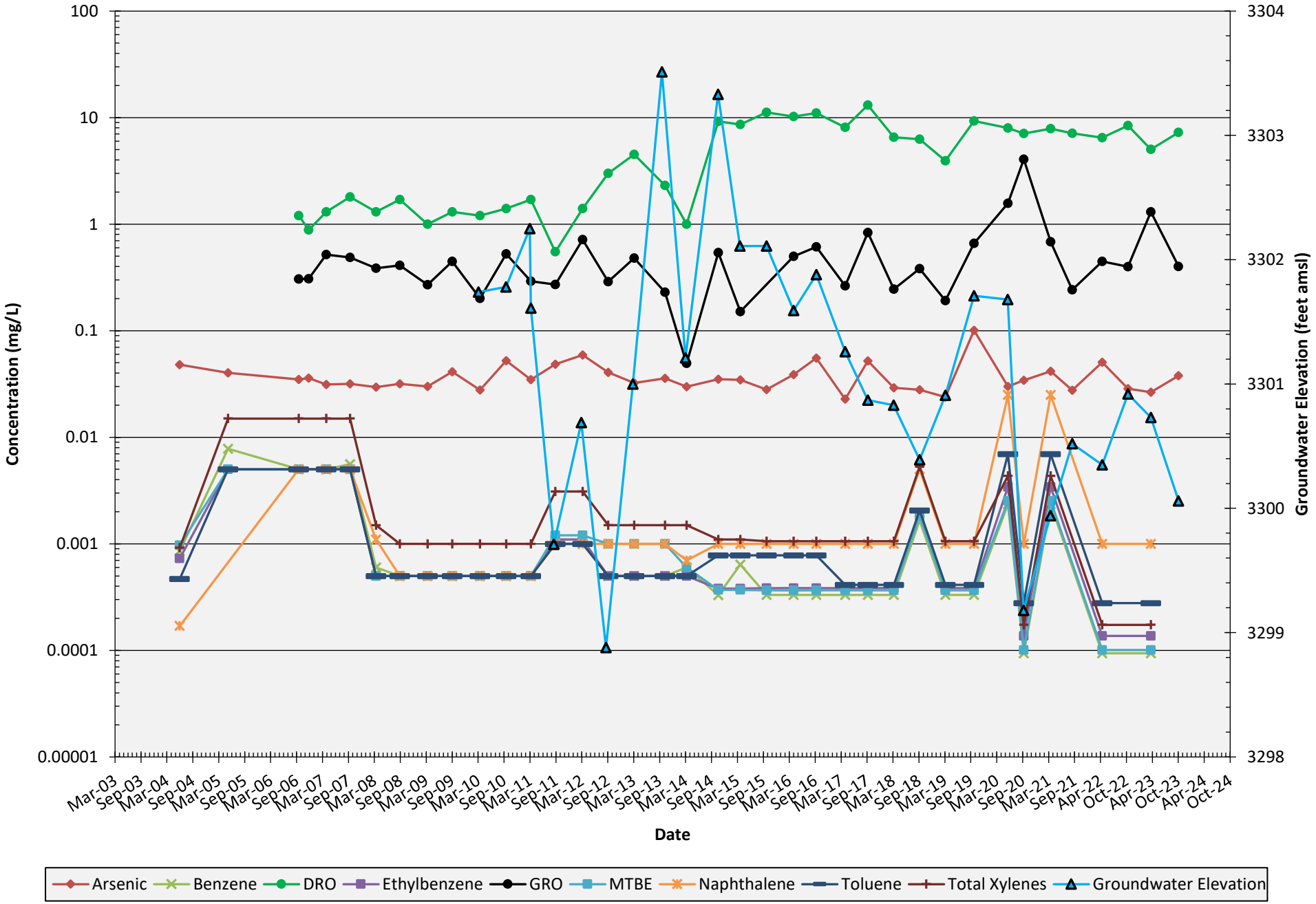


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MW-3: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

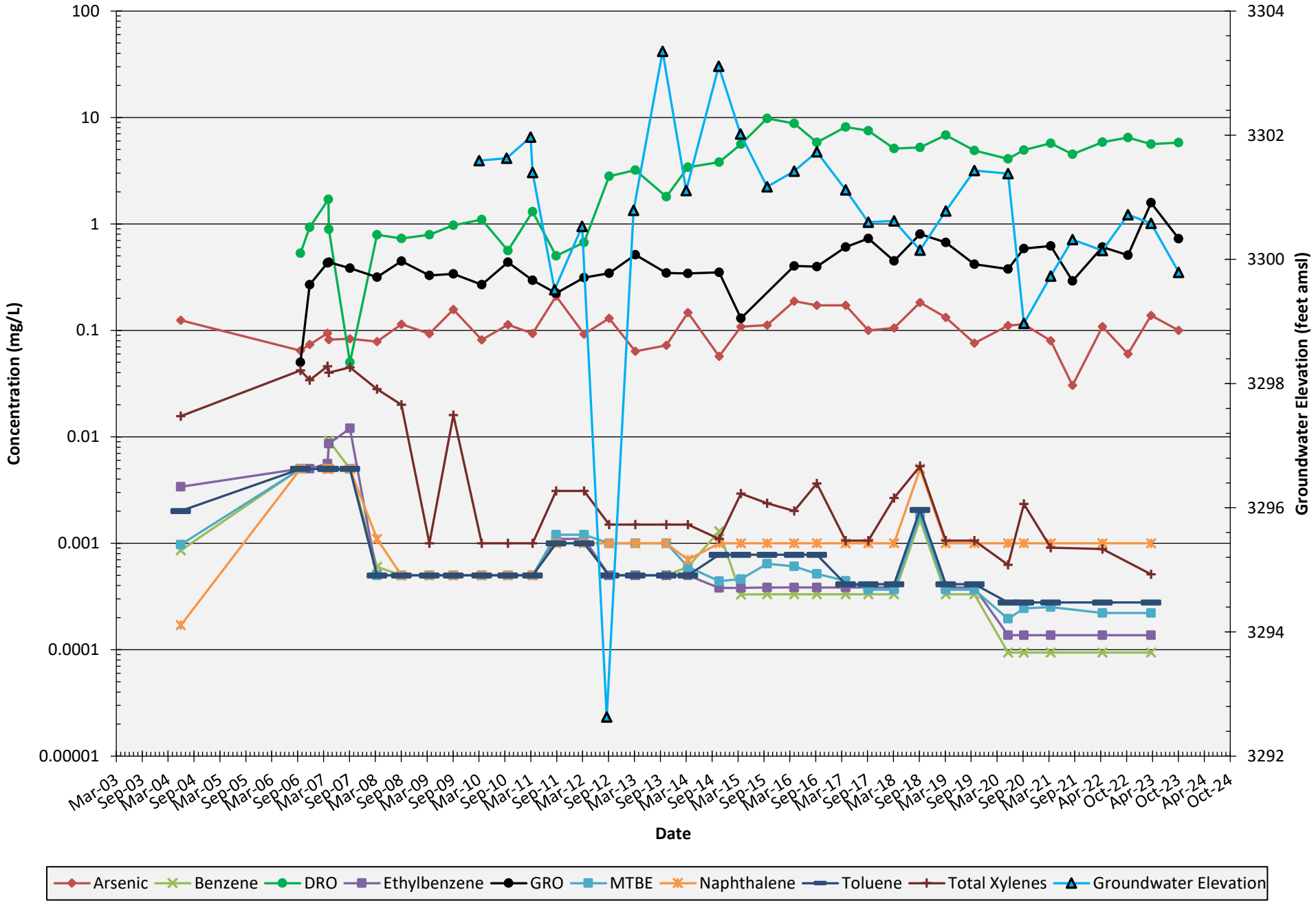


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MW-4A: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

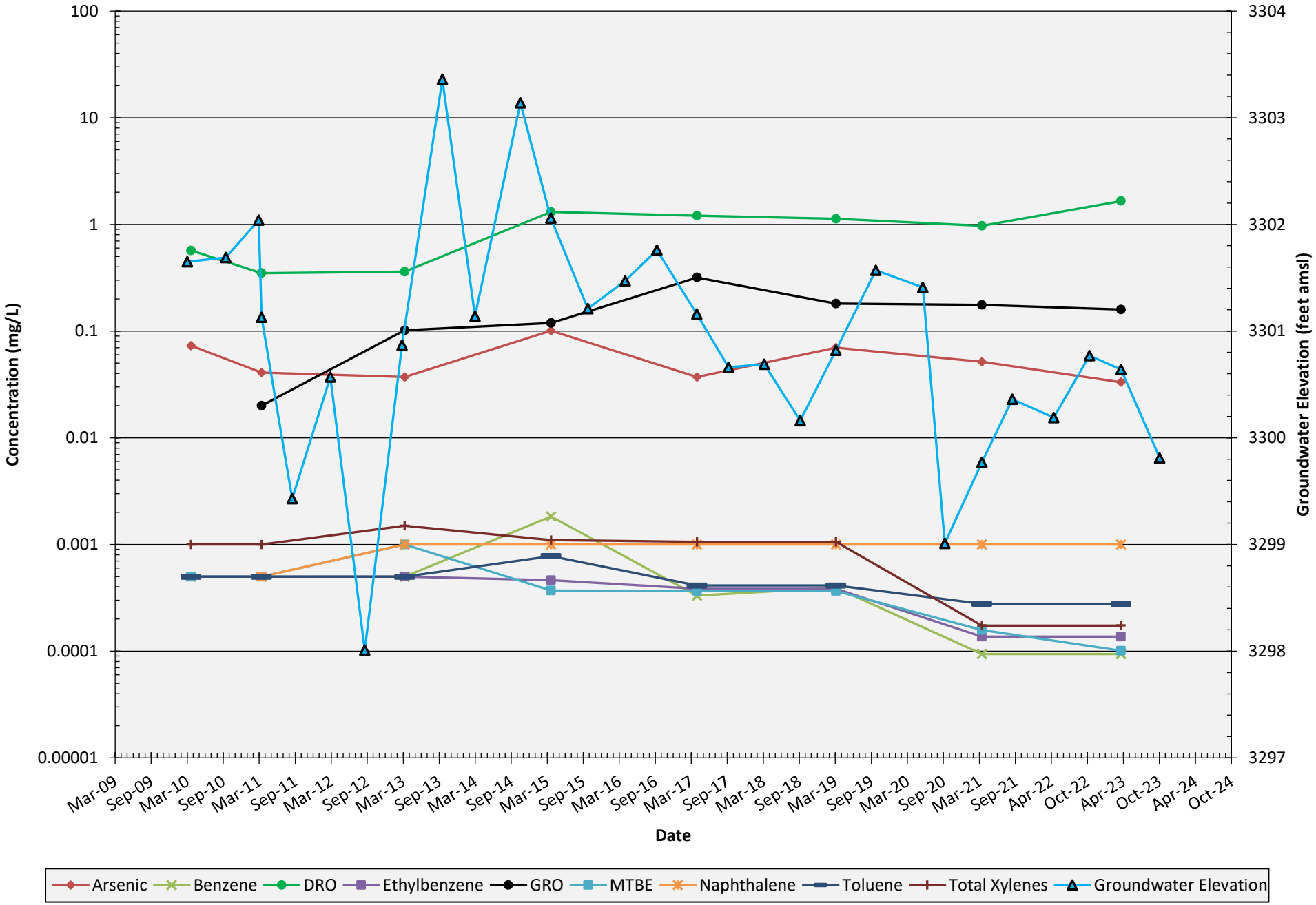


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MW-4B: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

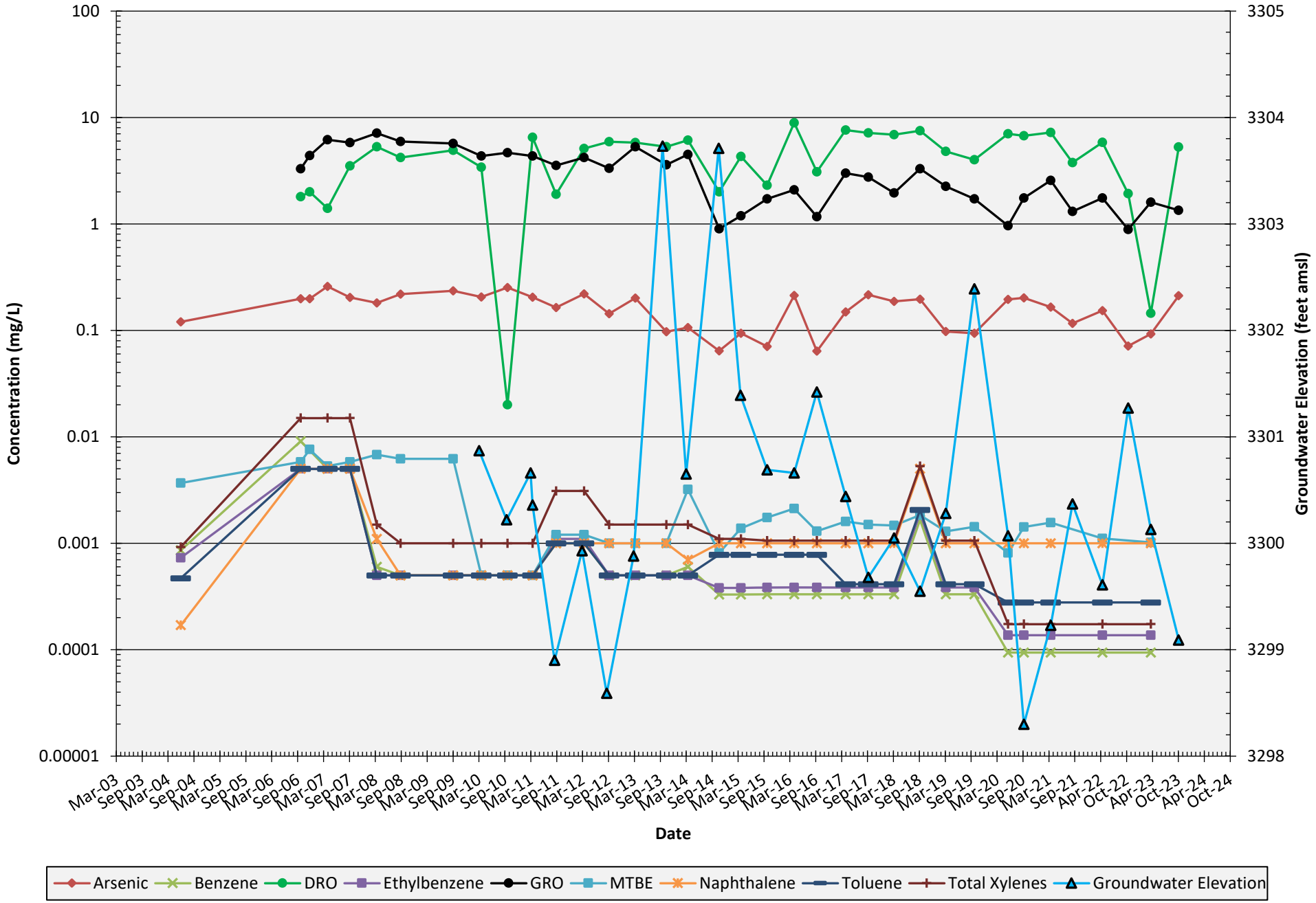


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Received by OCD: 6/12/2024 3:31:05 PM

MW-5A: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

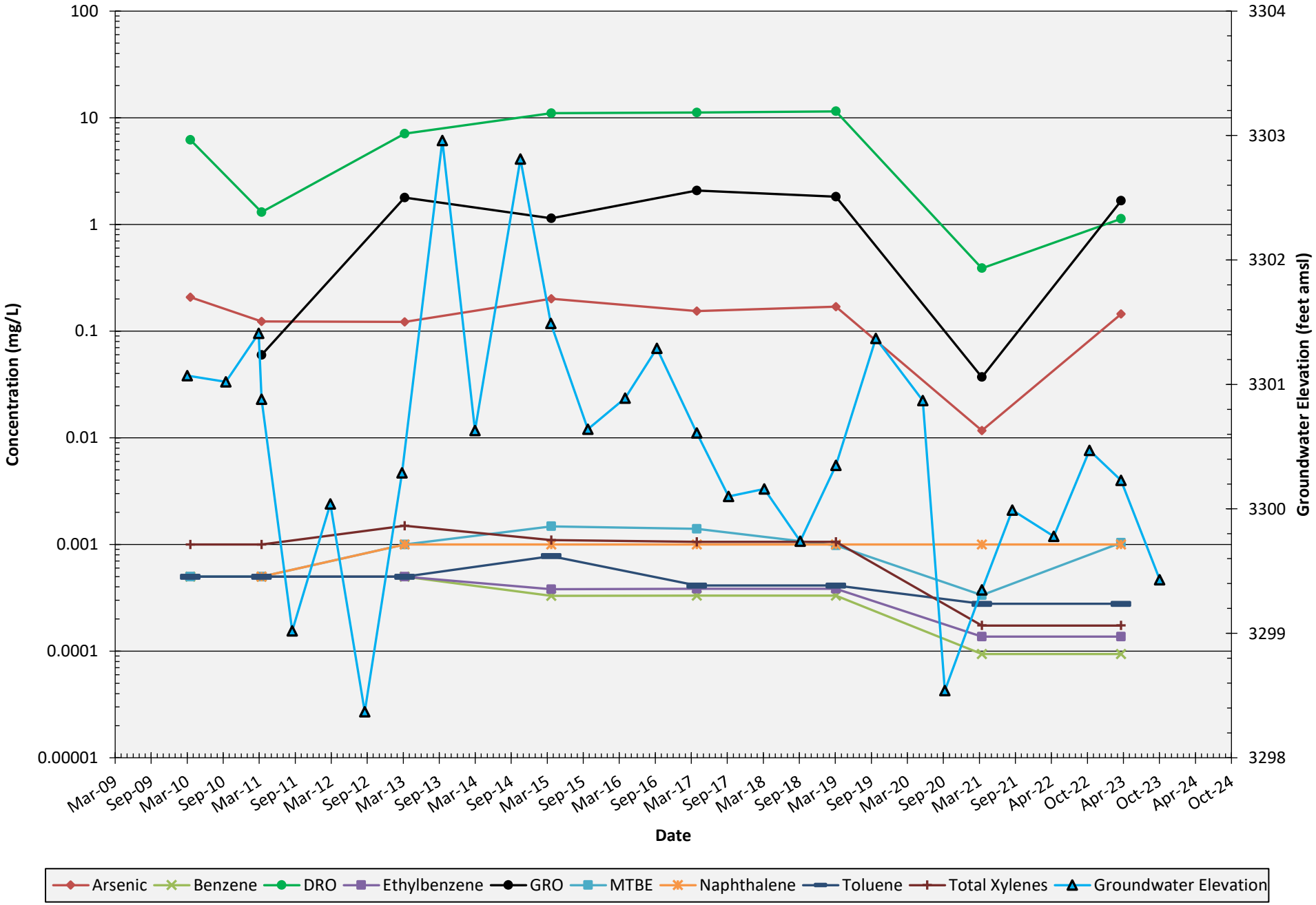


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MW-5B: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

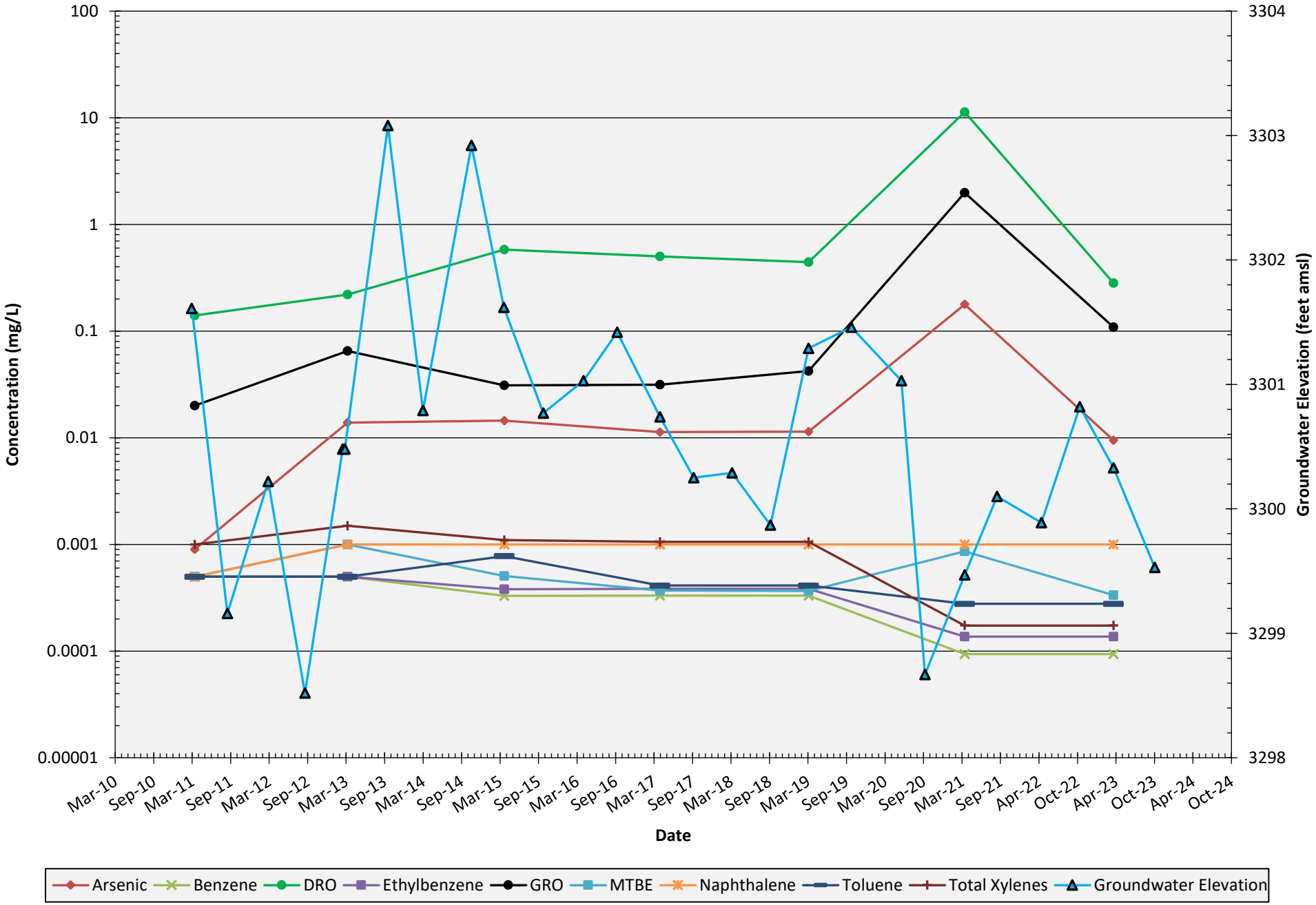


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MW-5C: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

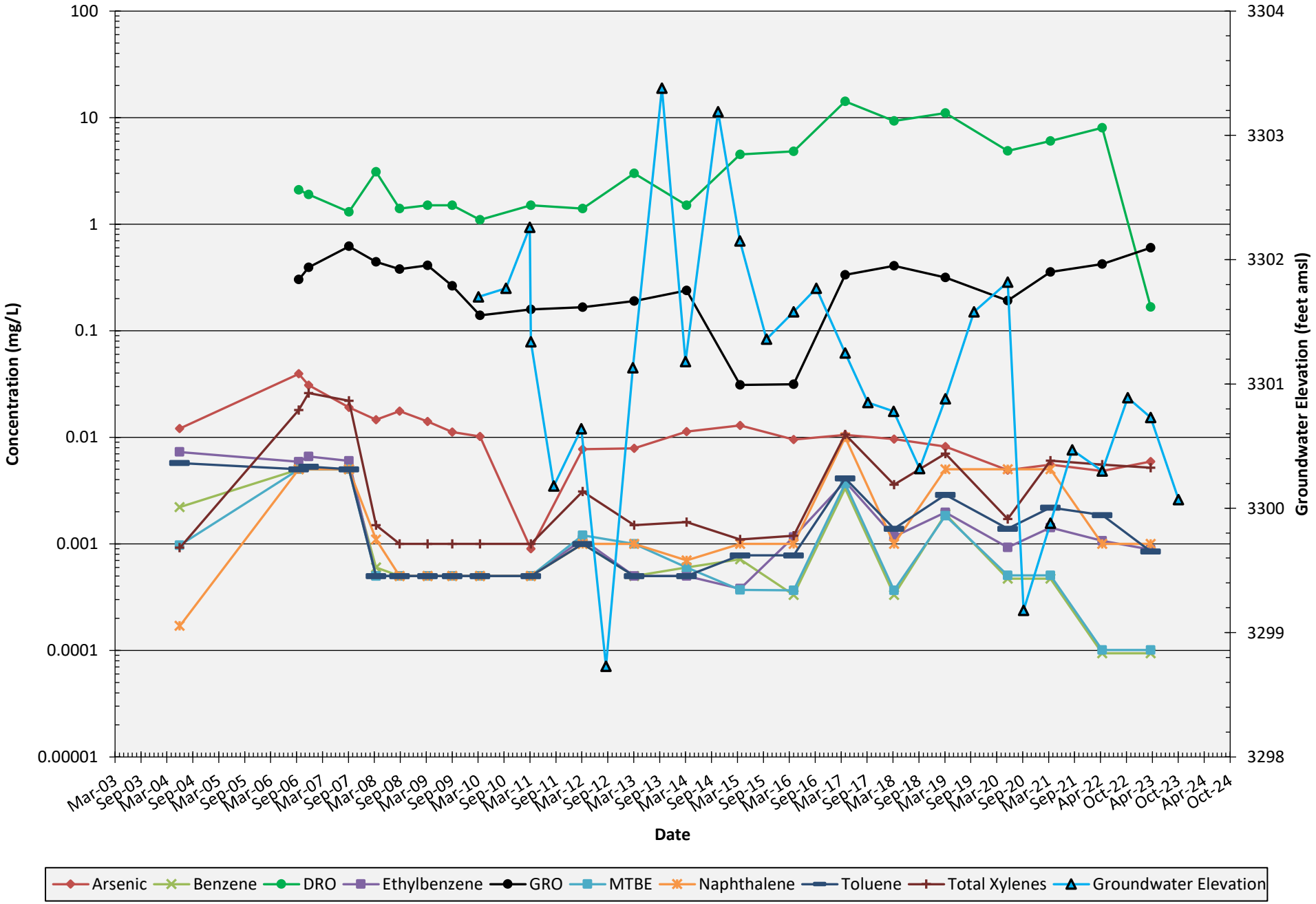


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Received by OCD: 6/12/2024 3:31:05 PM

MW-6A: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

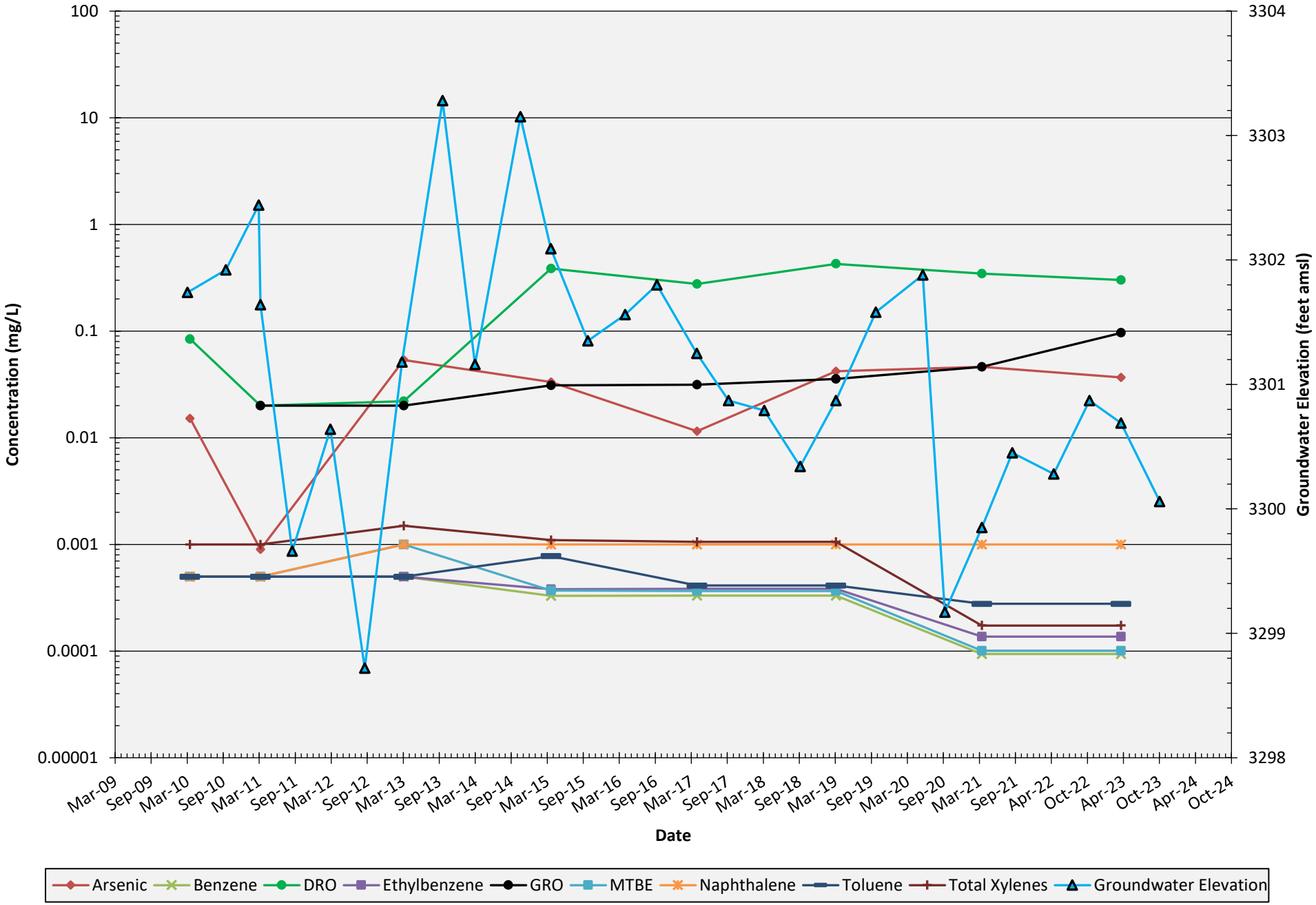


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MW-6B: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

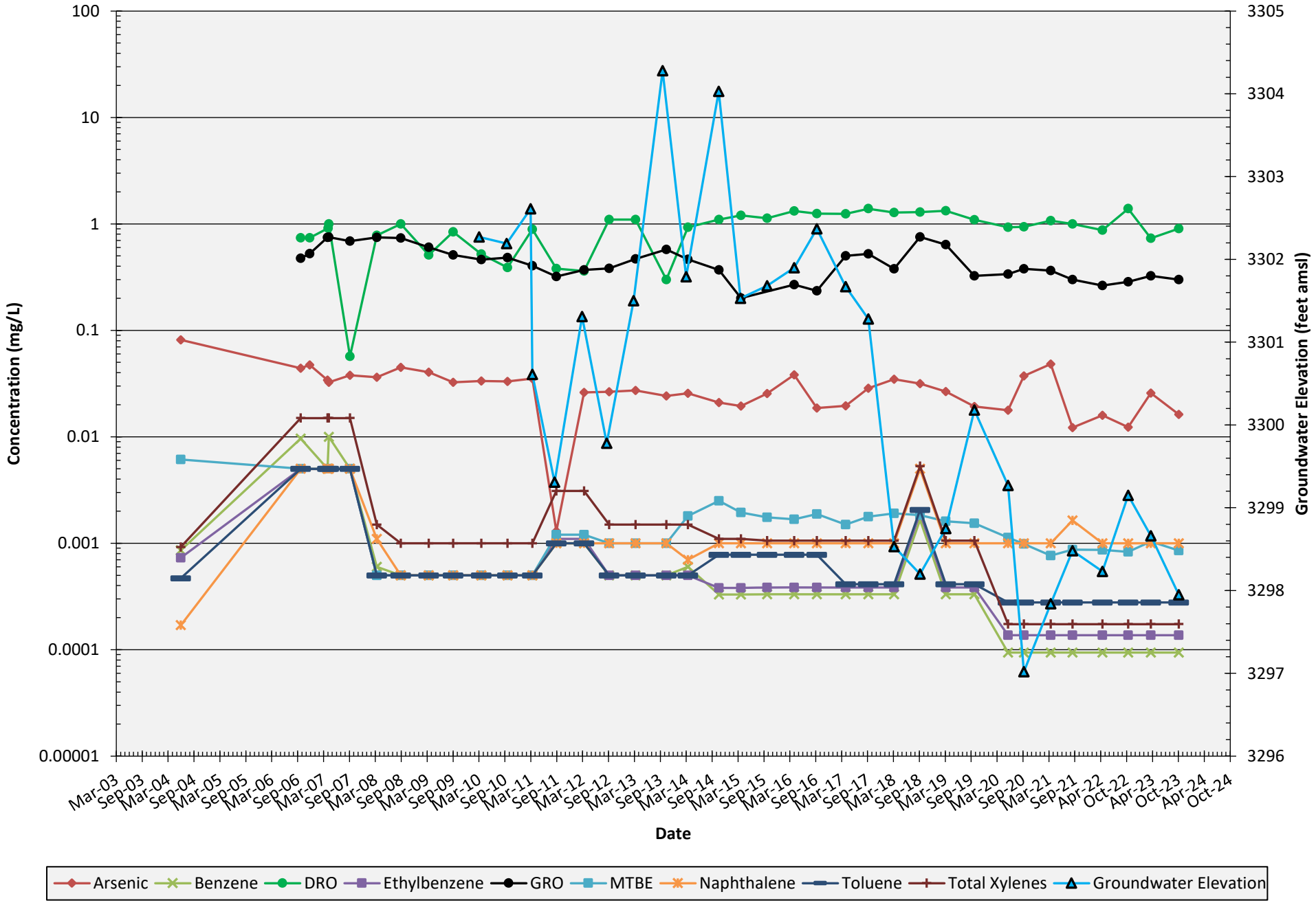


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MW-7A: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

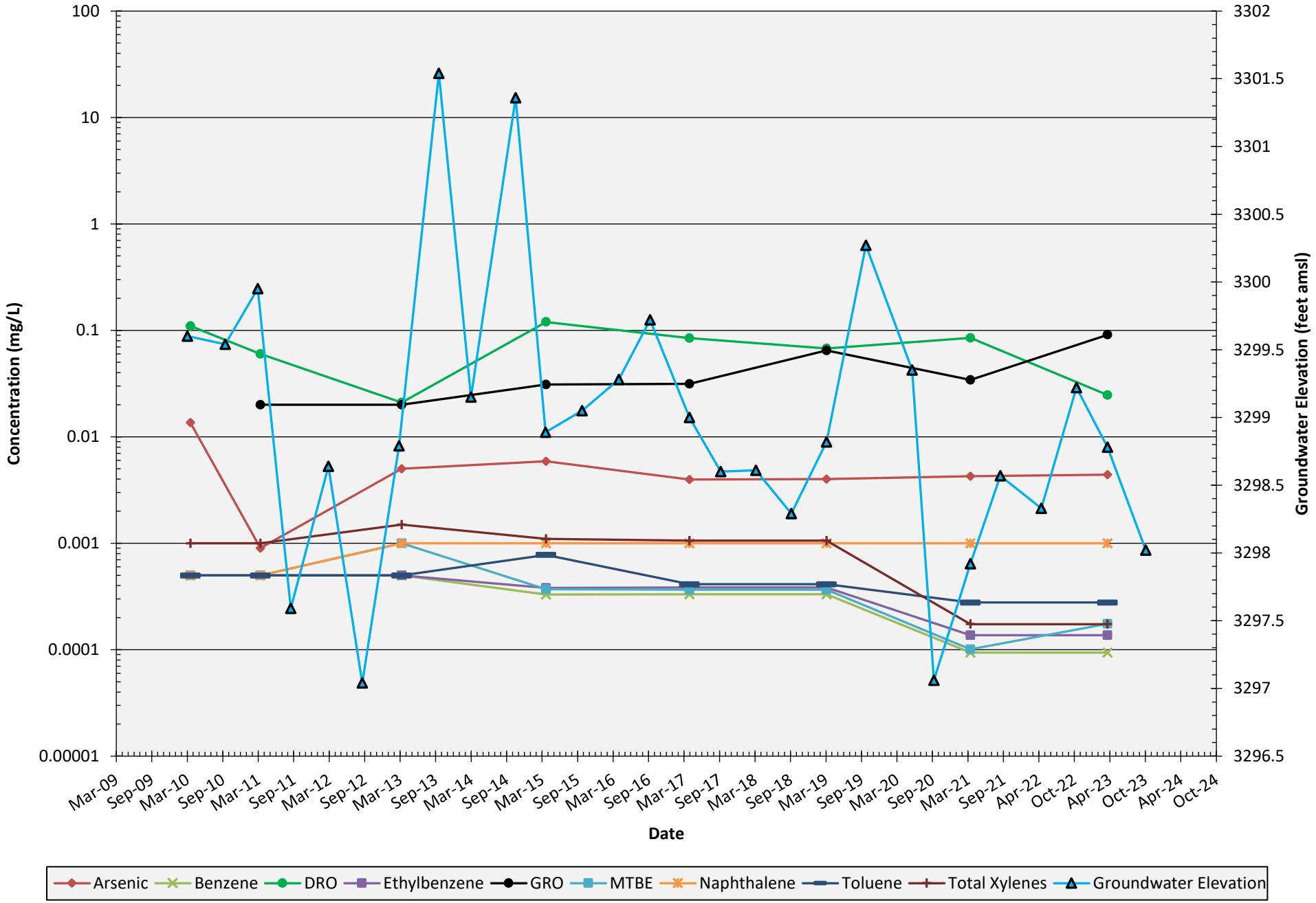


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Received by OCD: 6/12/2024 3:31:05 PM

MW-7B: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

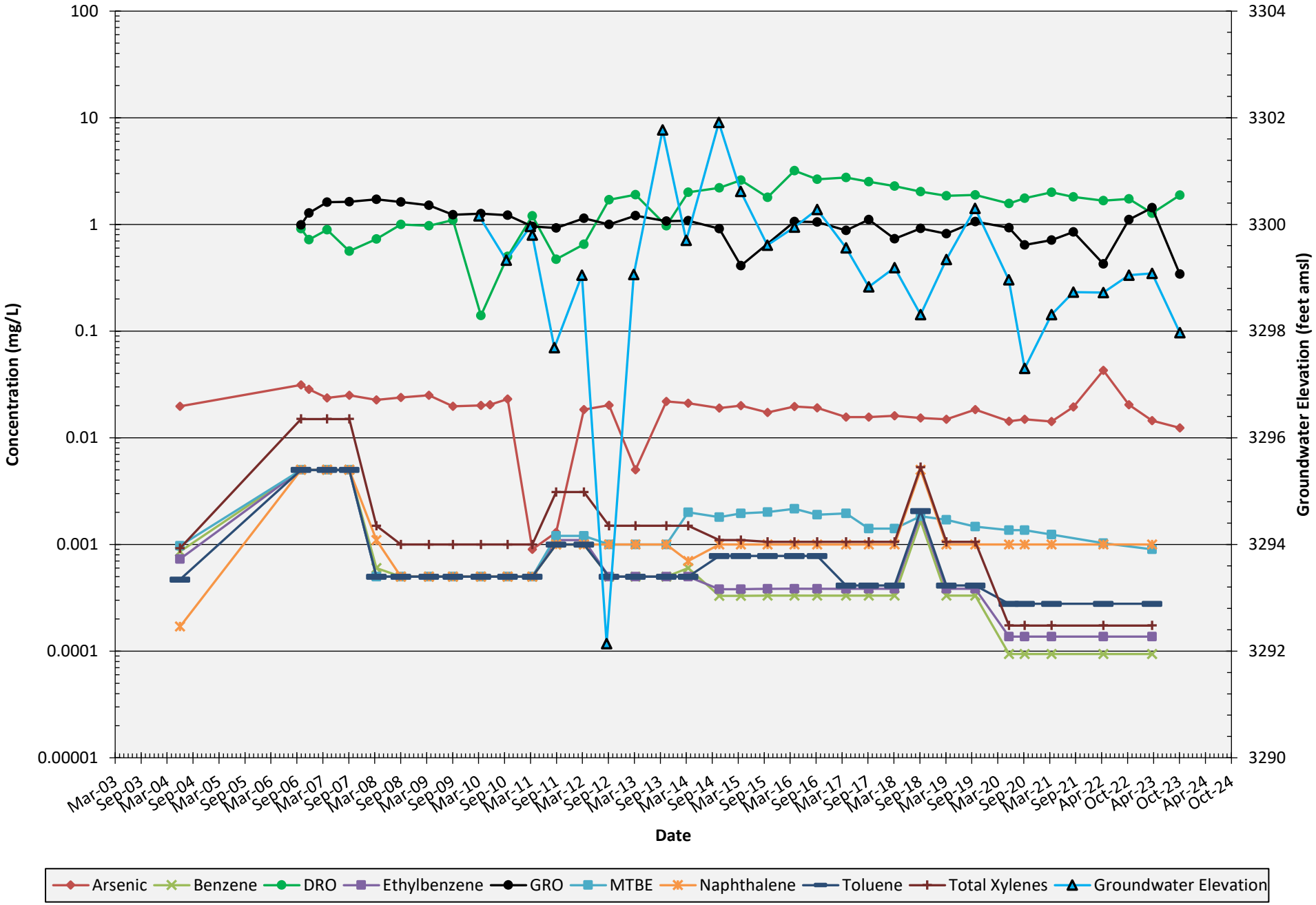


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Received by OCD: 6/12/2024 3:31:05 PM

MW-10: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

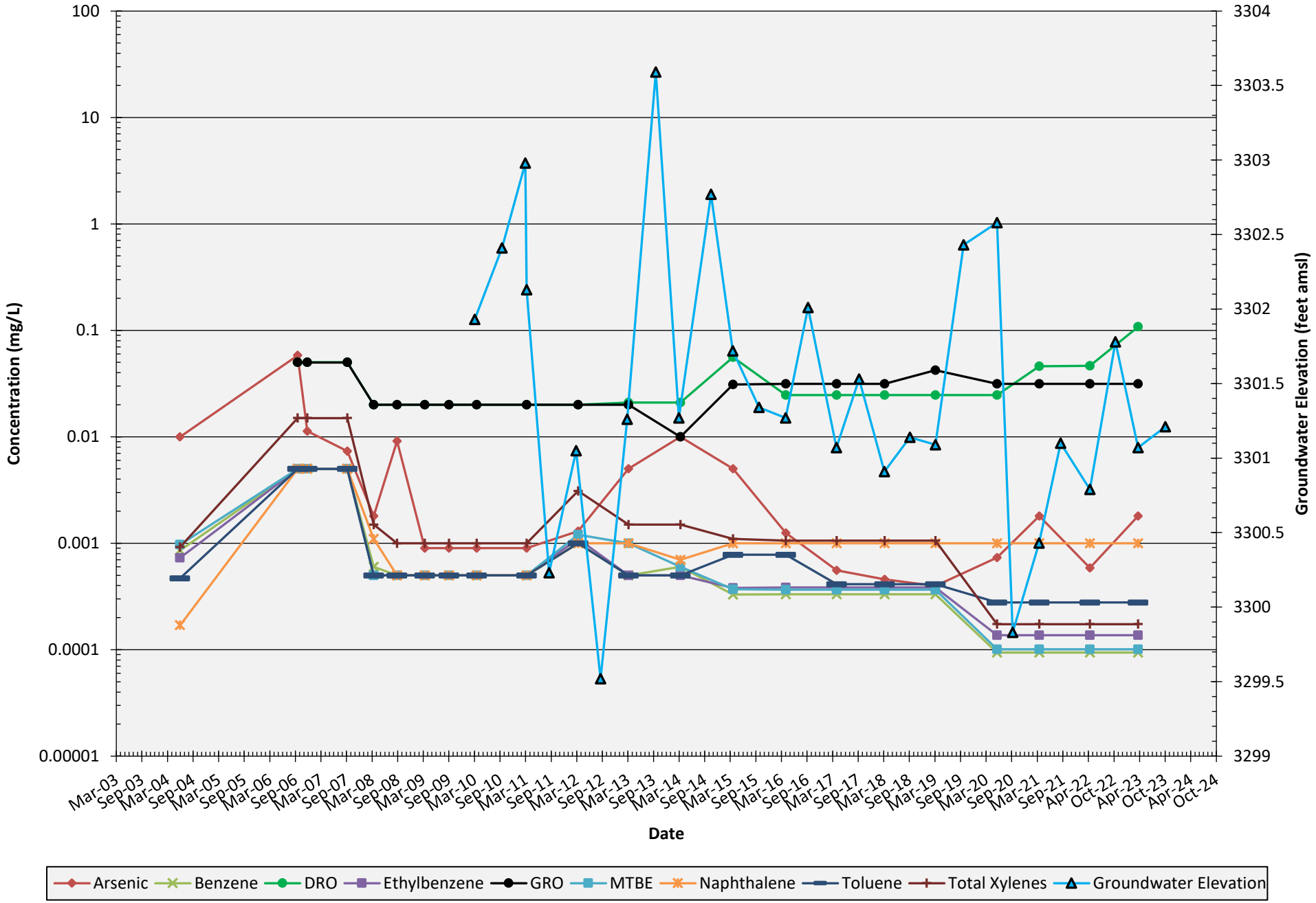


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Received by OCD: 6/12/2024 3:31:05 PM

MW-11A: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

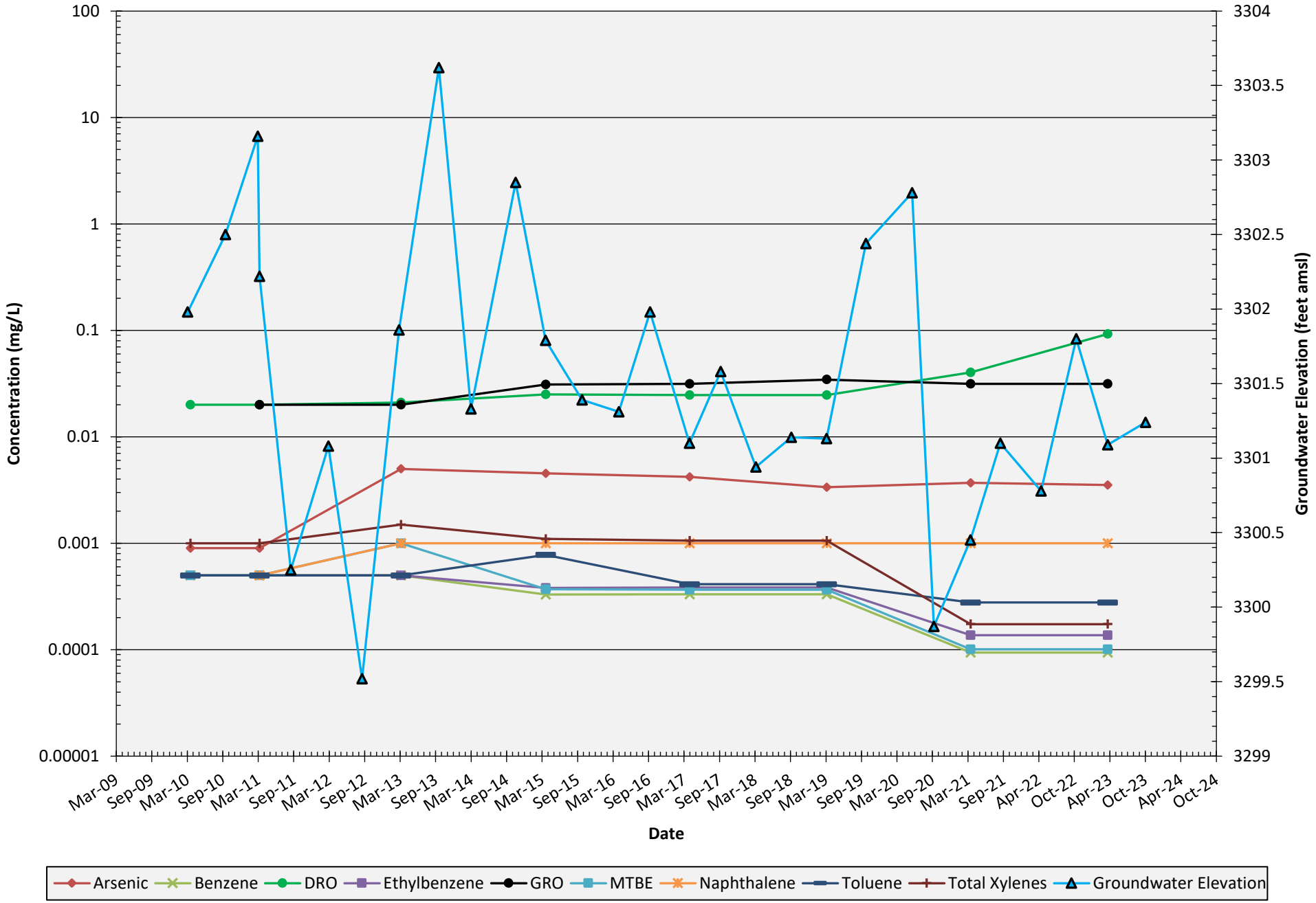


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Received by OCD: 6/12/2024 3:31:05 PM

MW-11B: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Evaporation Ponds



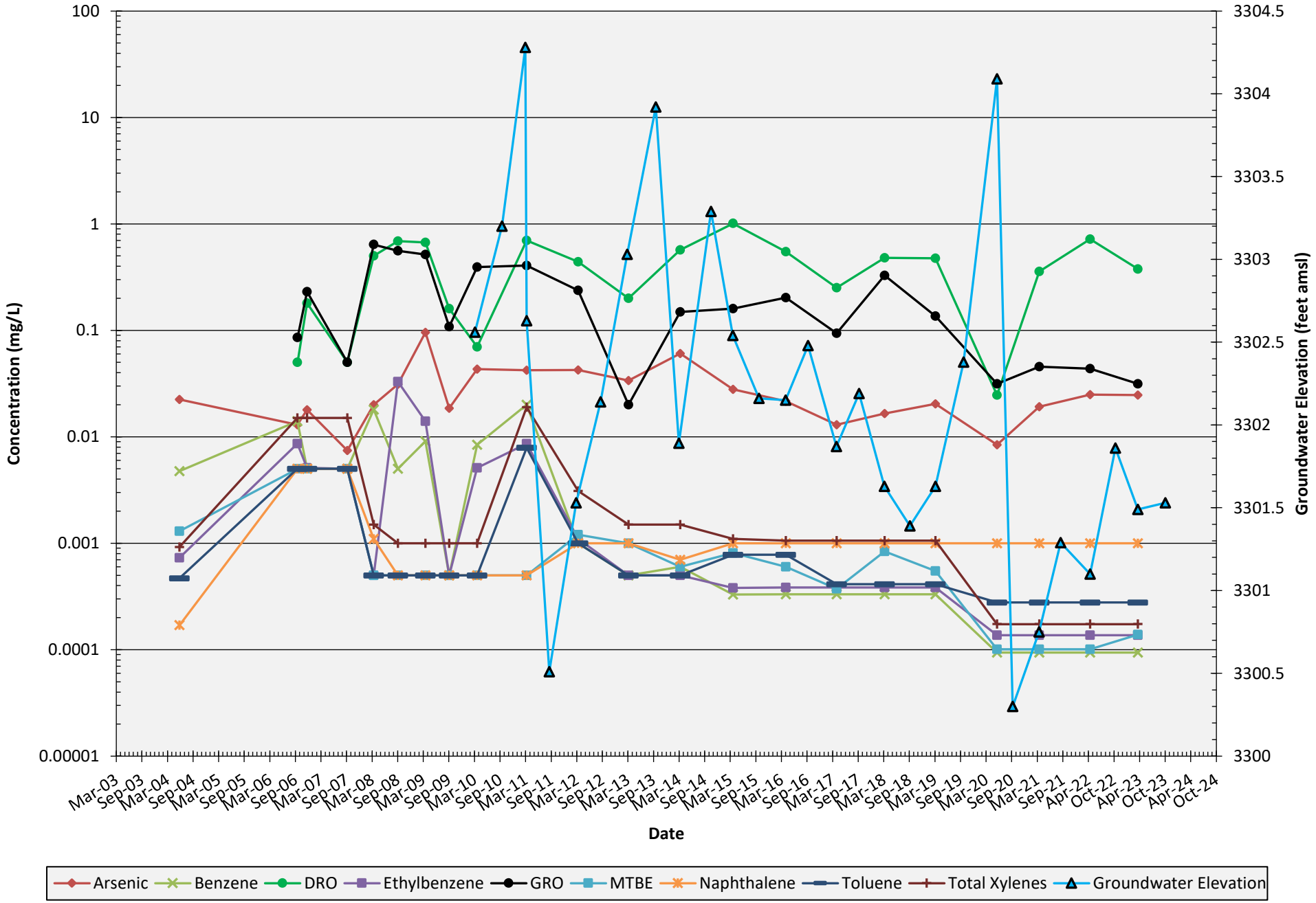
Released to Imaging: 6/28/2024 11:23:28 AM

Received by OCD: 6/12/2024 3:31:05 PM

MW-15: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

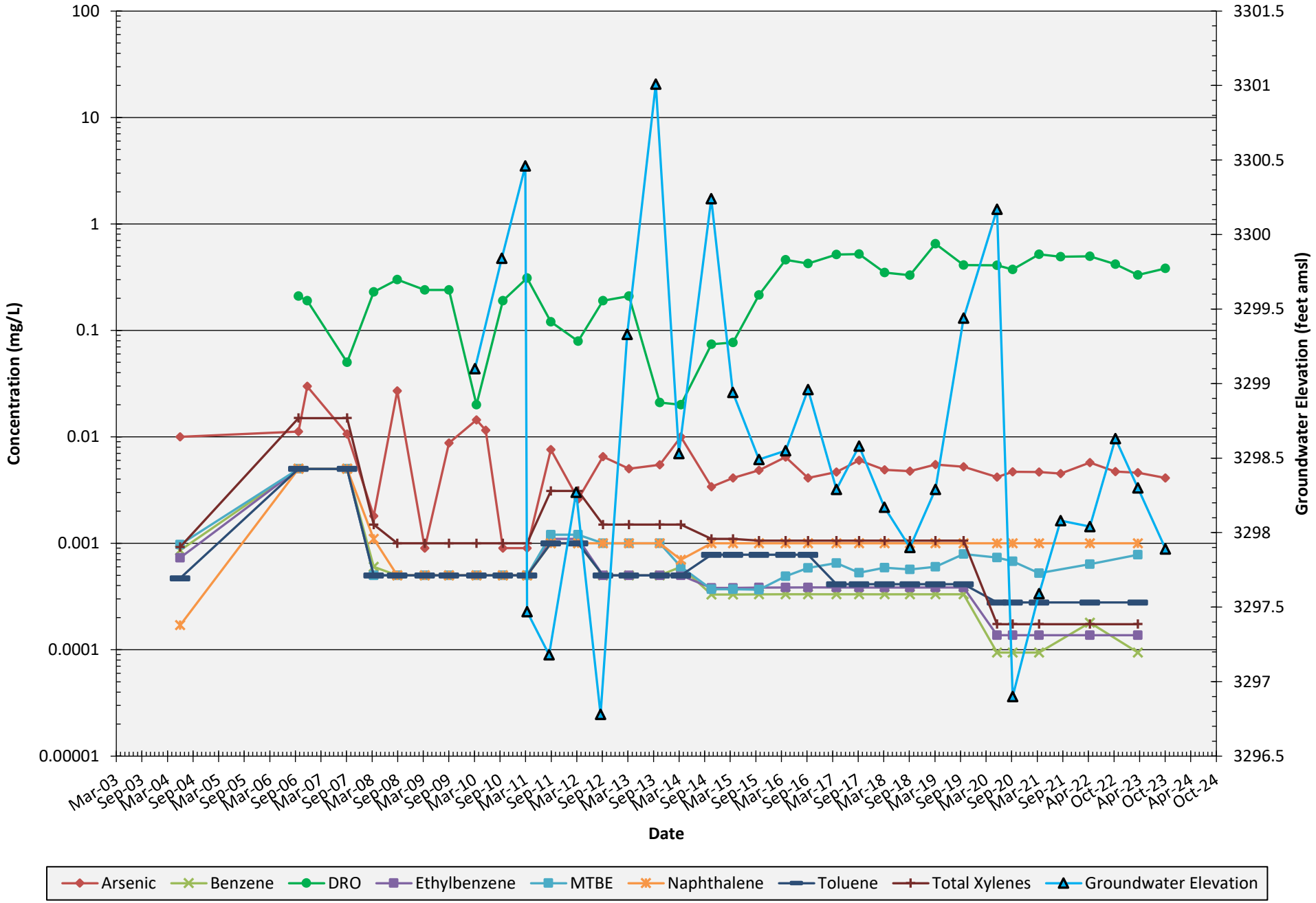


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Received by OCD: 6/12/2024 3:31:05 PM

MW-18A: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

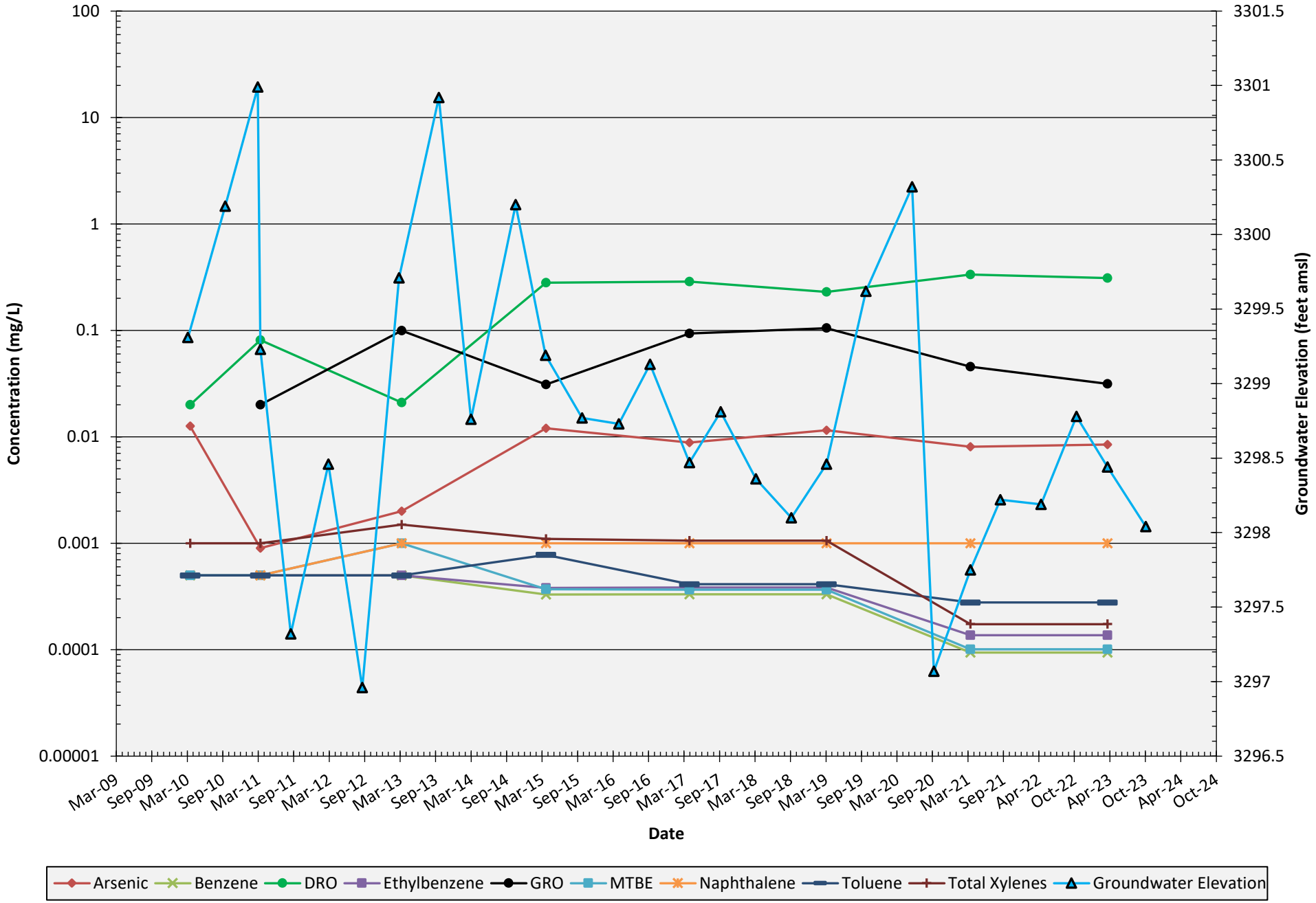


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

MW-18B: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

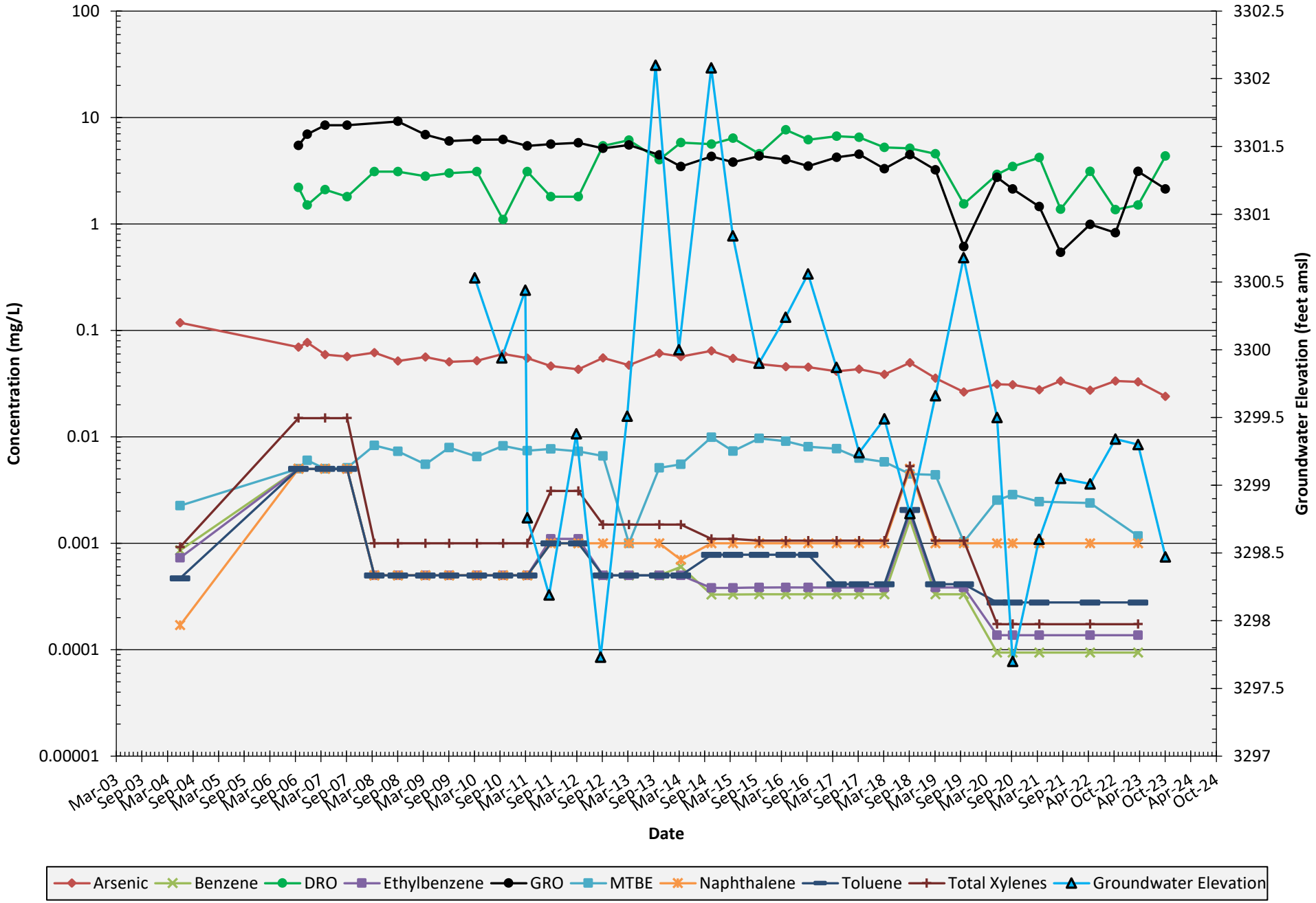


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Received by OCD: 6/12/2024 3:31:05 PM

MW-22A: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

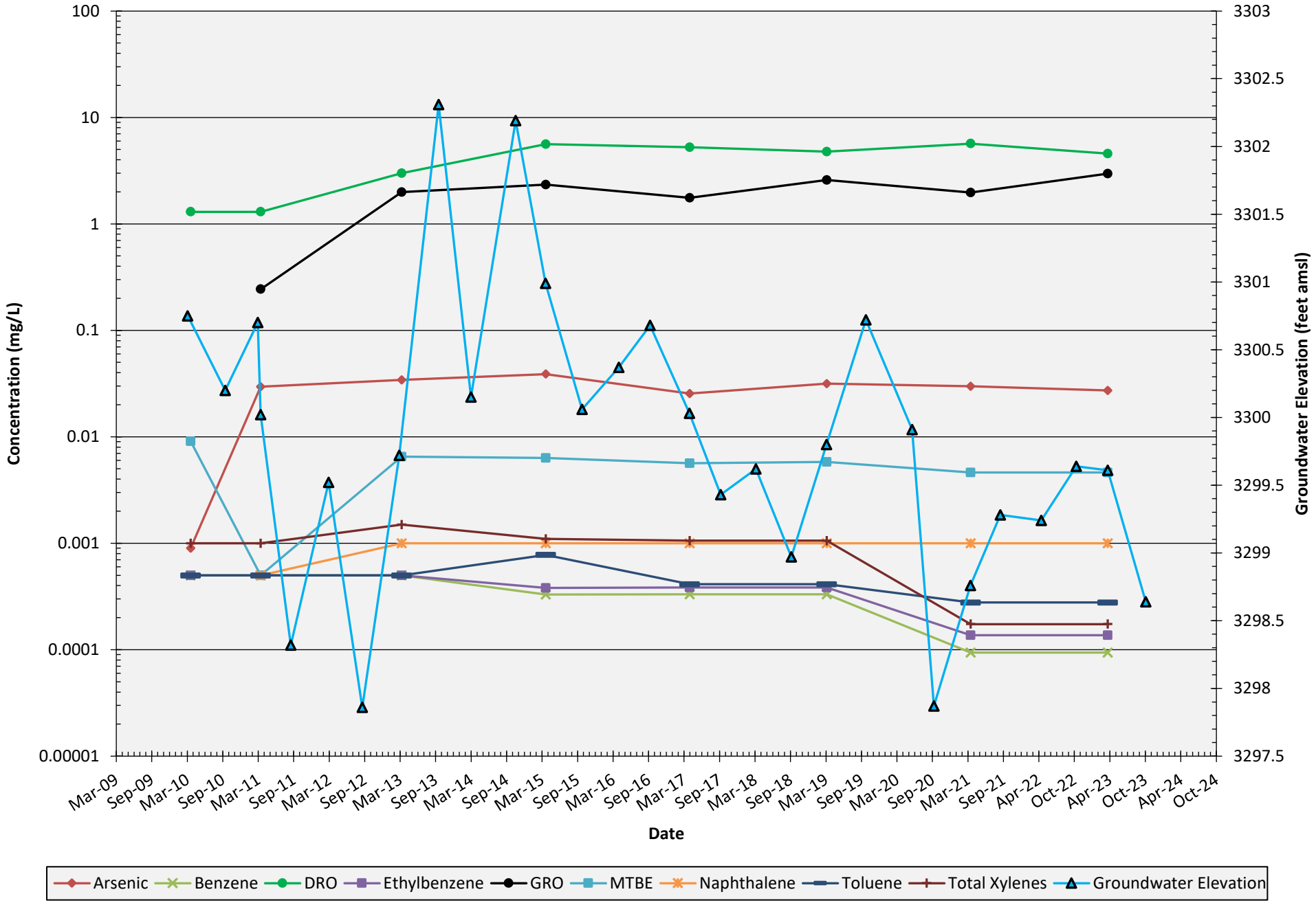


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Received by OCD: 6/12/2024 3:31:05 PM

MW-22B: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

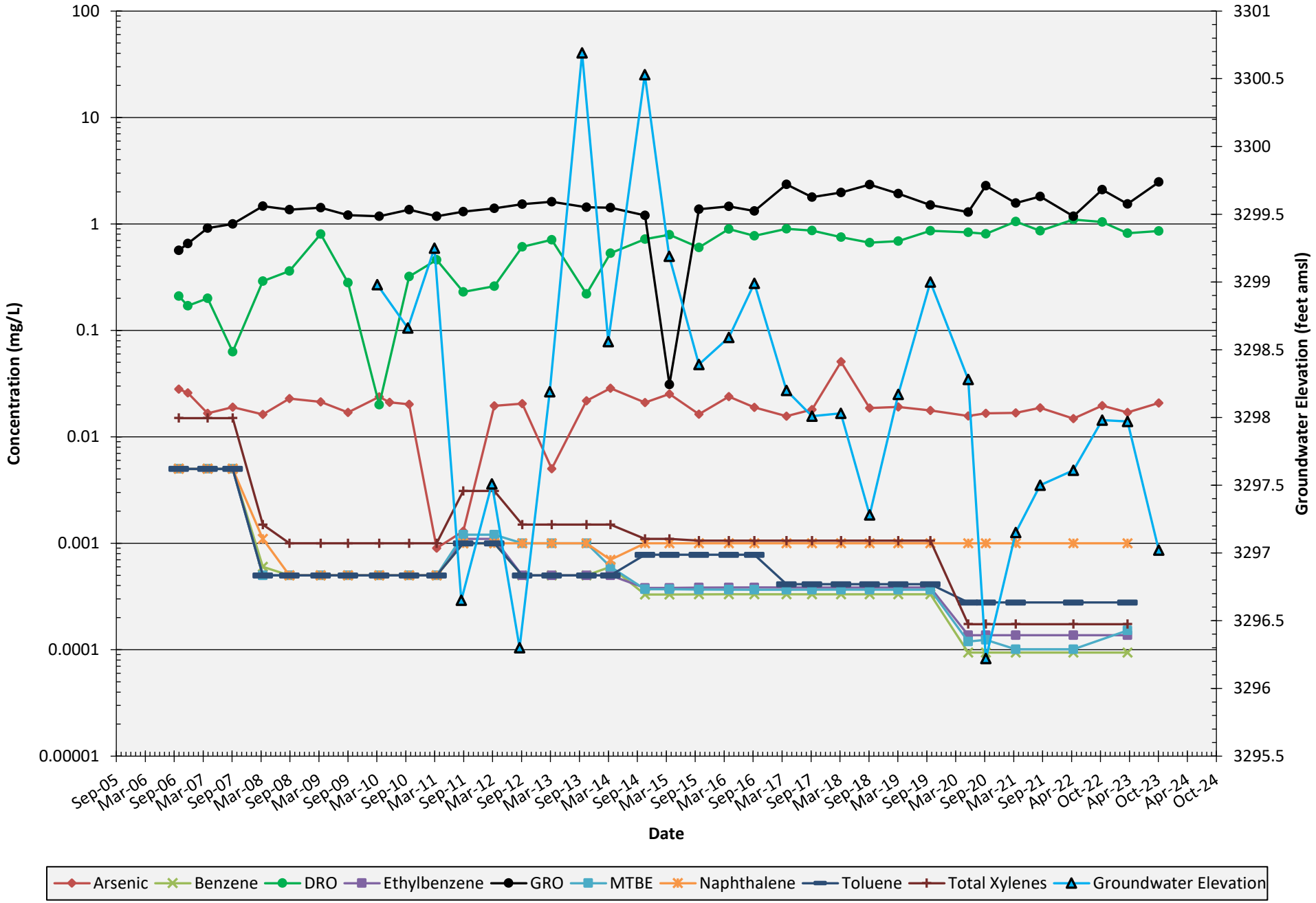


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Received by OCD: 6/12/2024 3:31:05 PM

MW-70: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

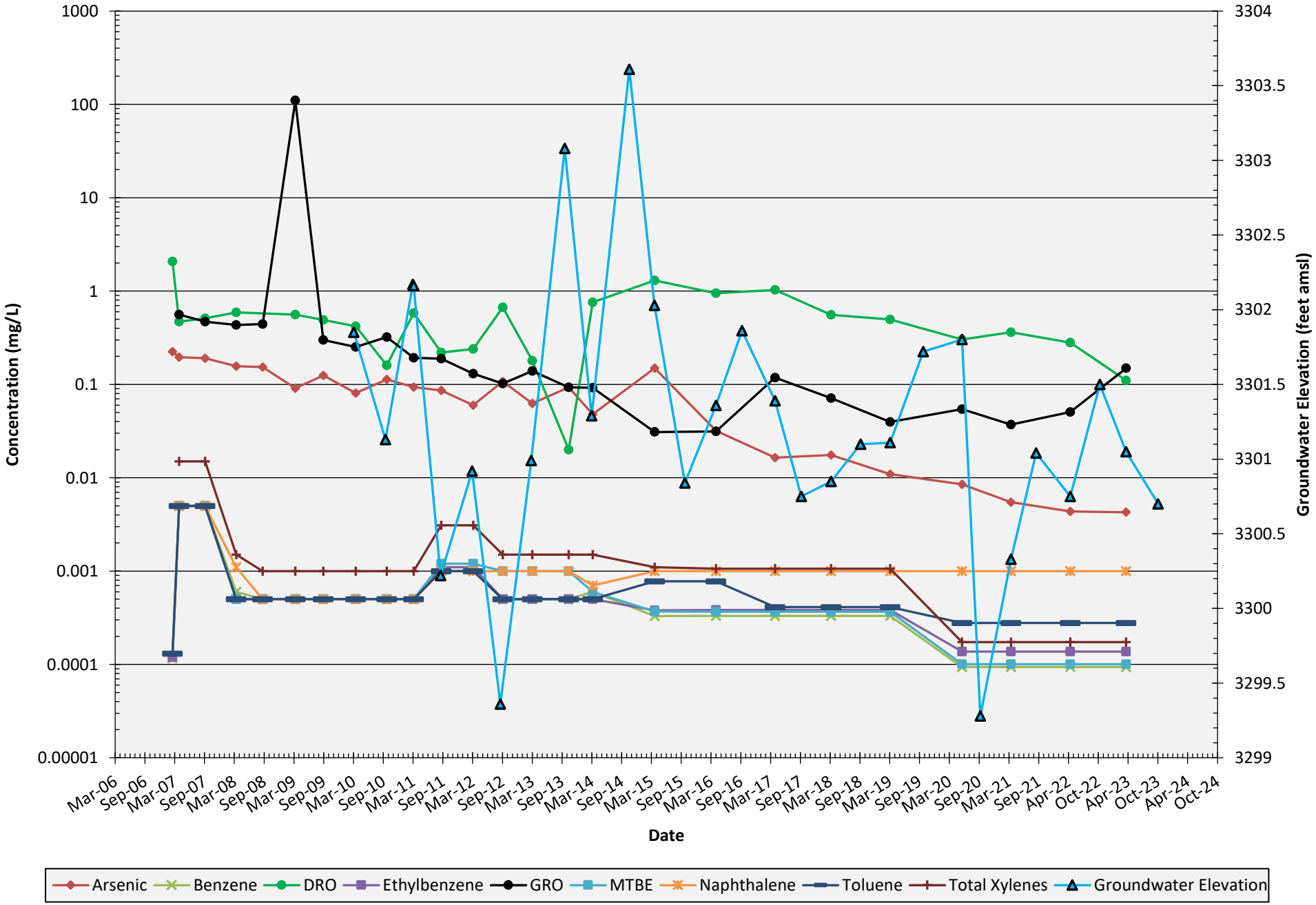


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Received by OCD: 6/12/2024 3:31:05 PM

MW-72: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

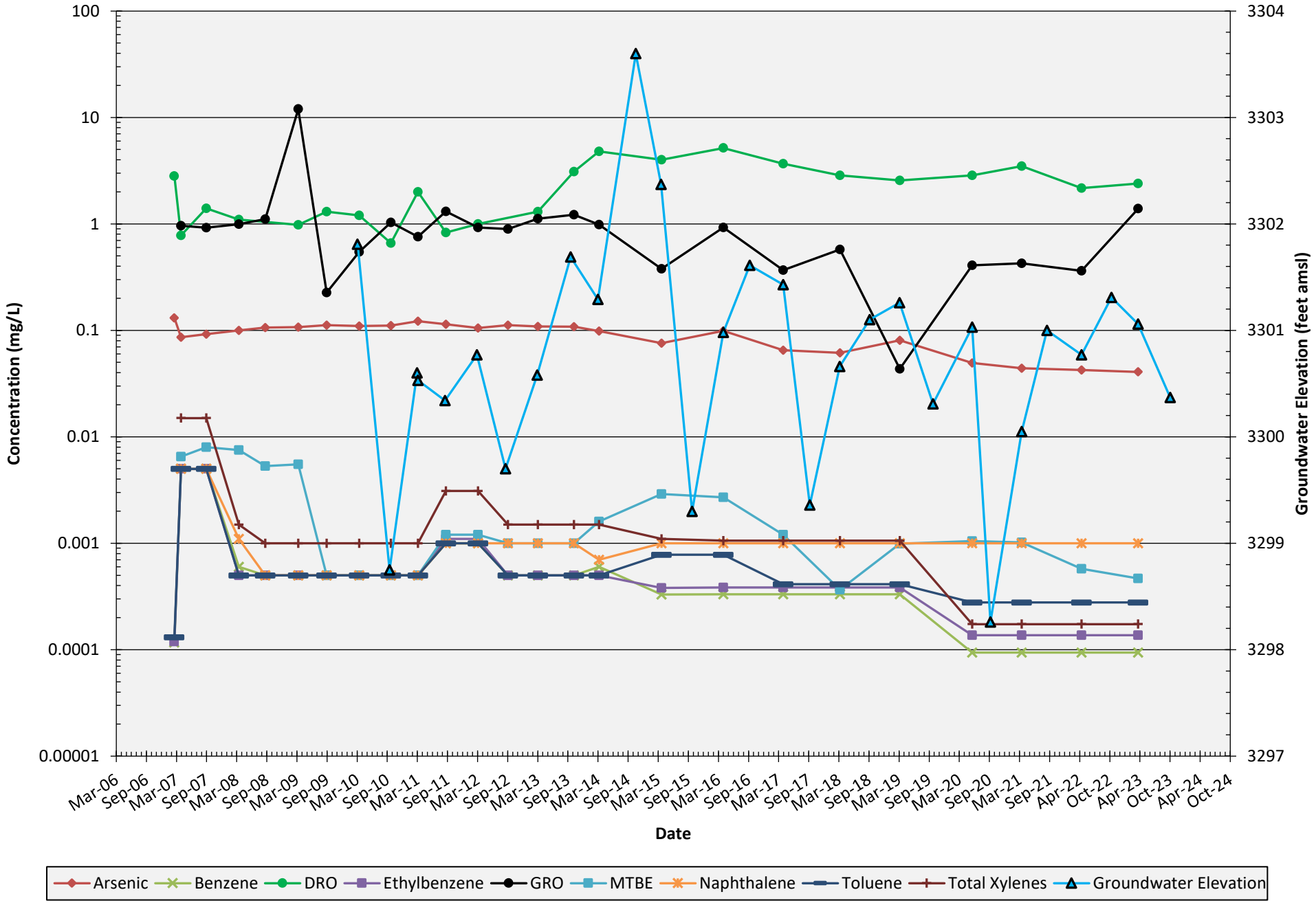


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Received by OCD: 6/12/2024 3:31:05 PM

MW-73: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

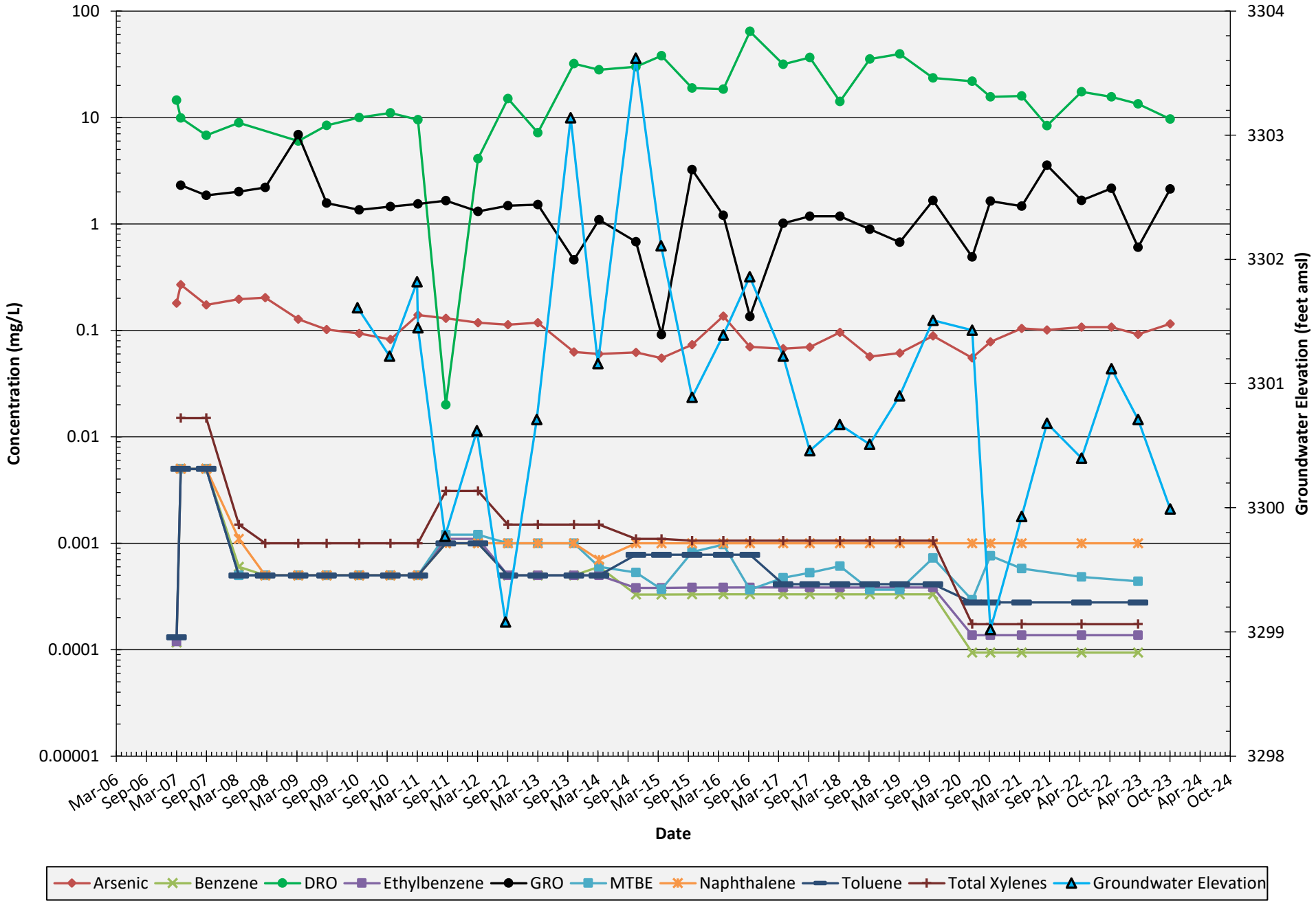


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Received by OCD: 6/12/2024 3:31:05 PM

MW-74: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

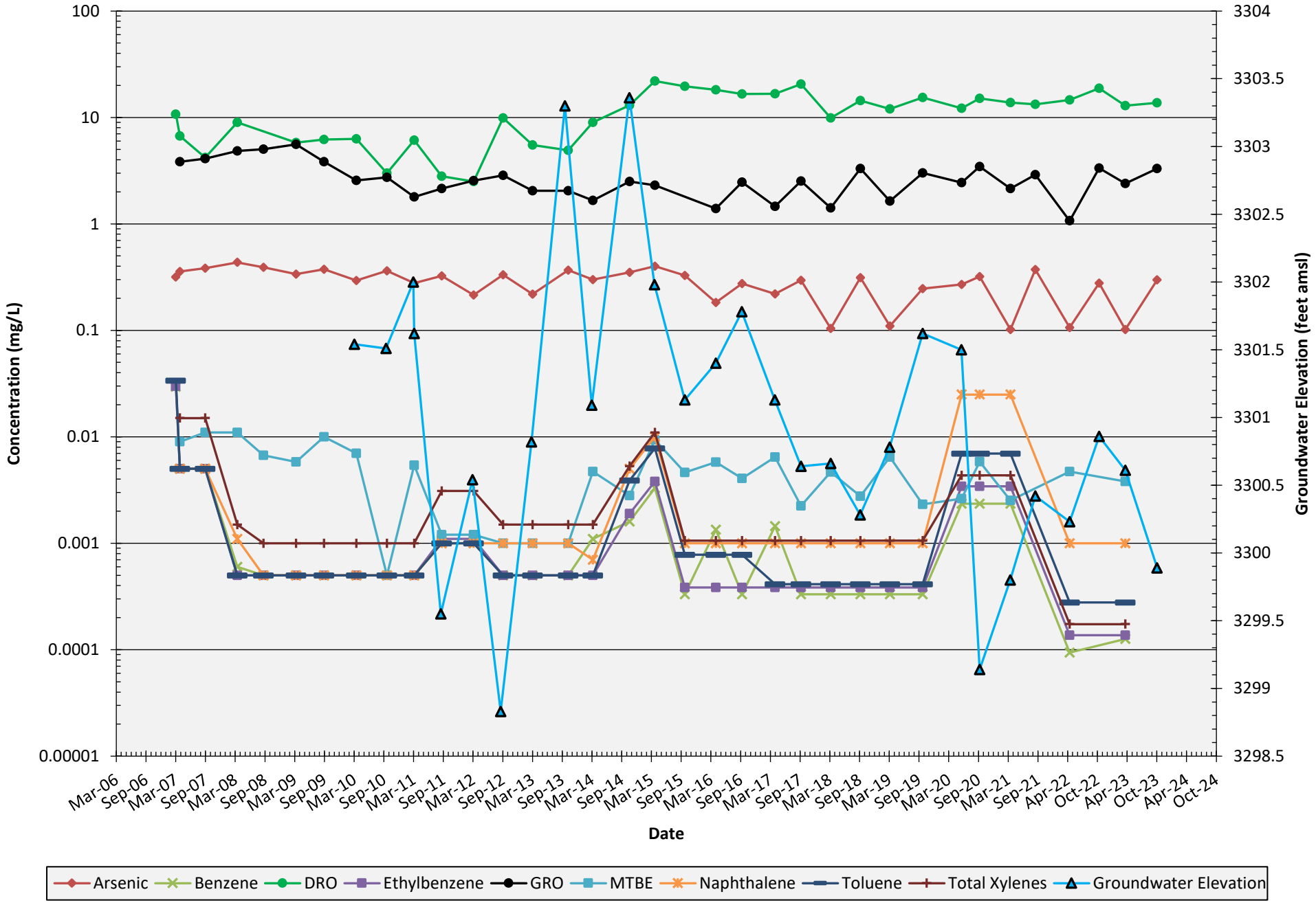


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Received by OCD: 6/12/2024 3:31:05 PM

MW-75: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

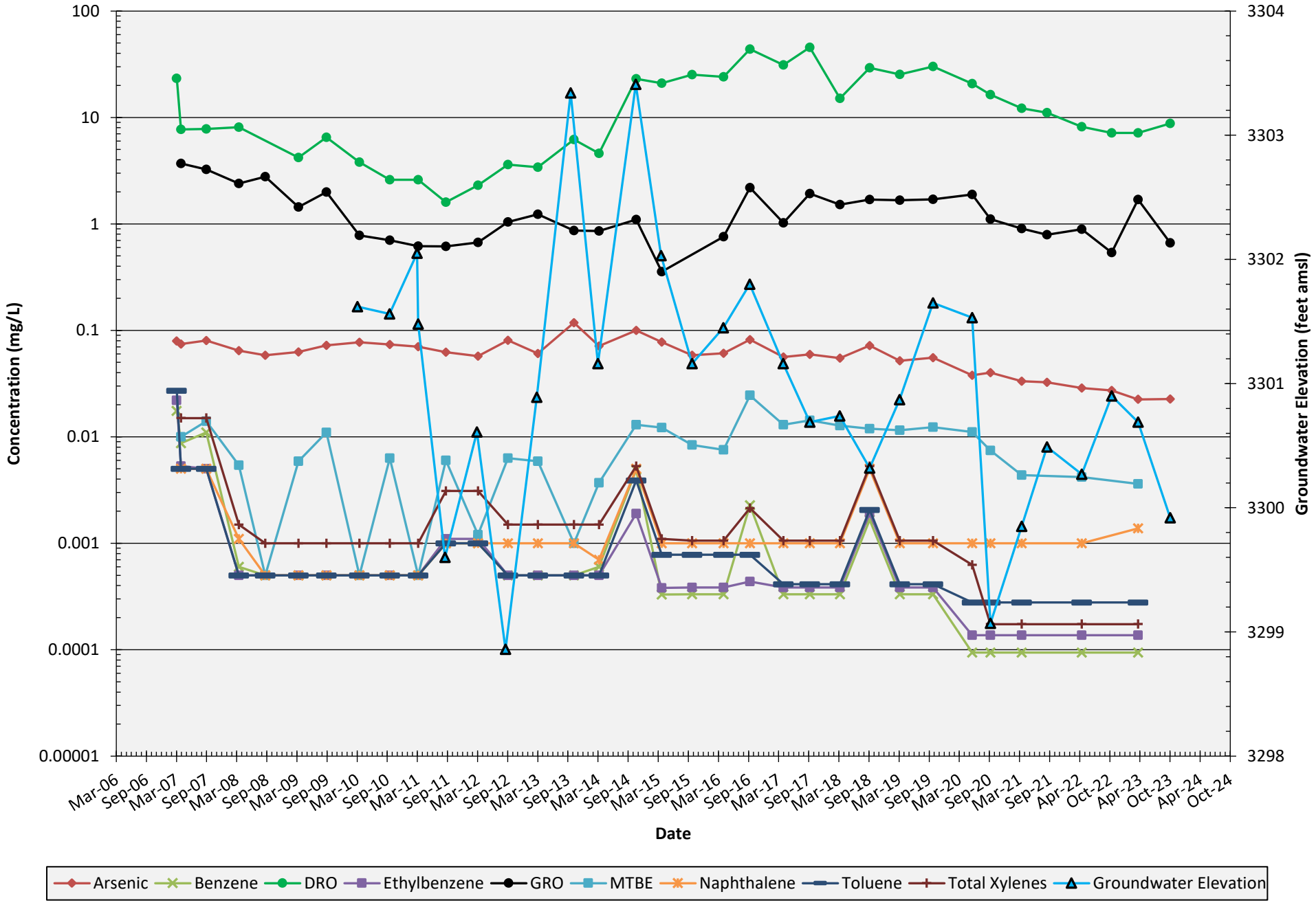


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

MW-76: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

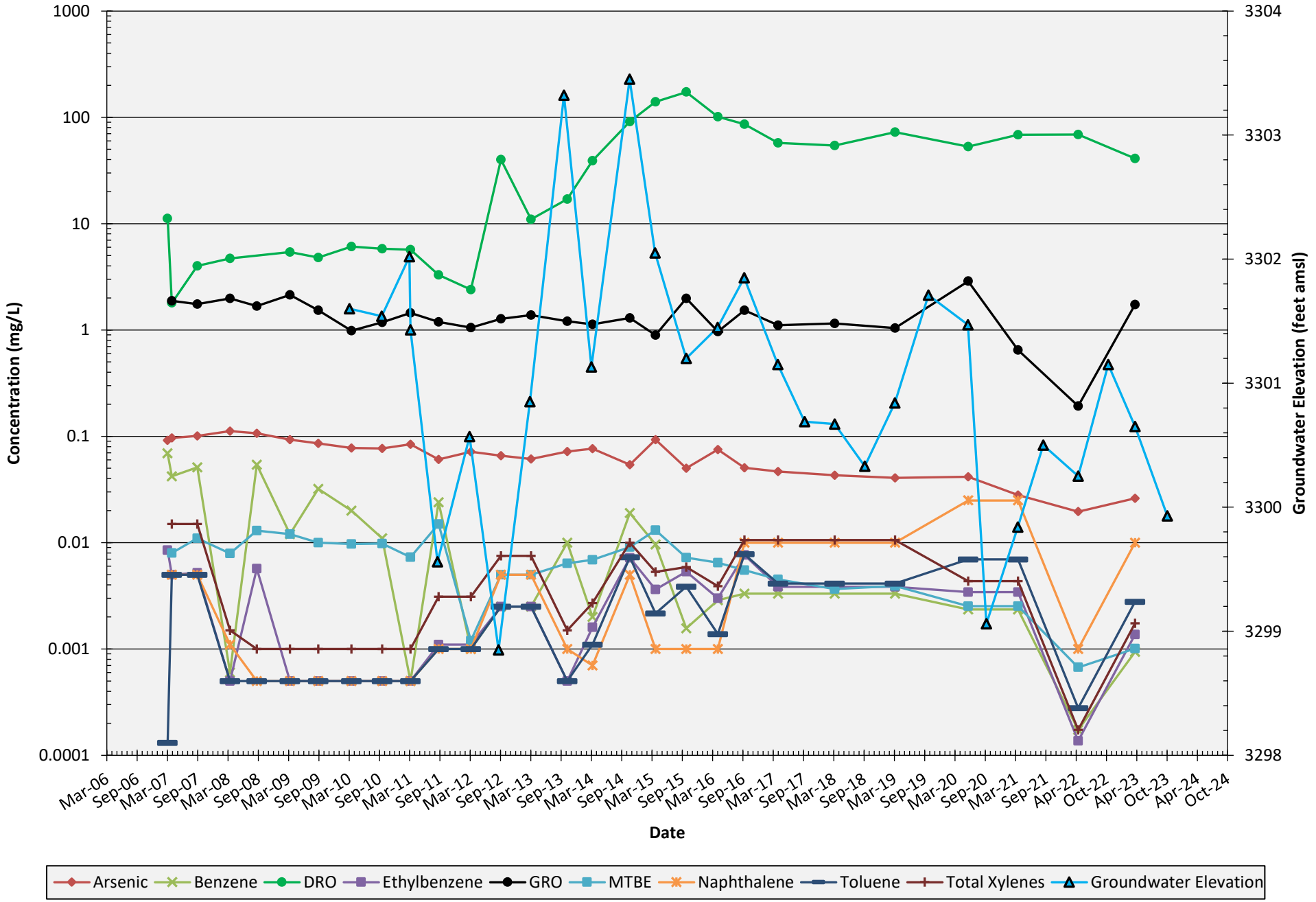


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Received by OCD: 6/12/2024 3:31:05 PM

MW-77: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

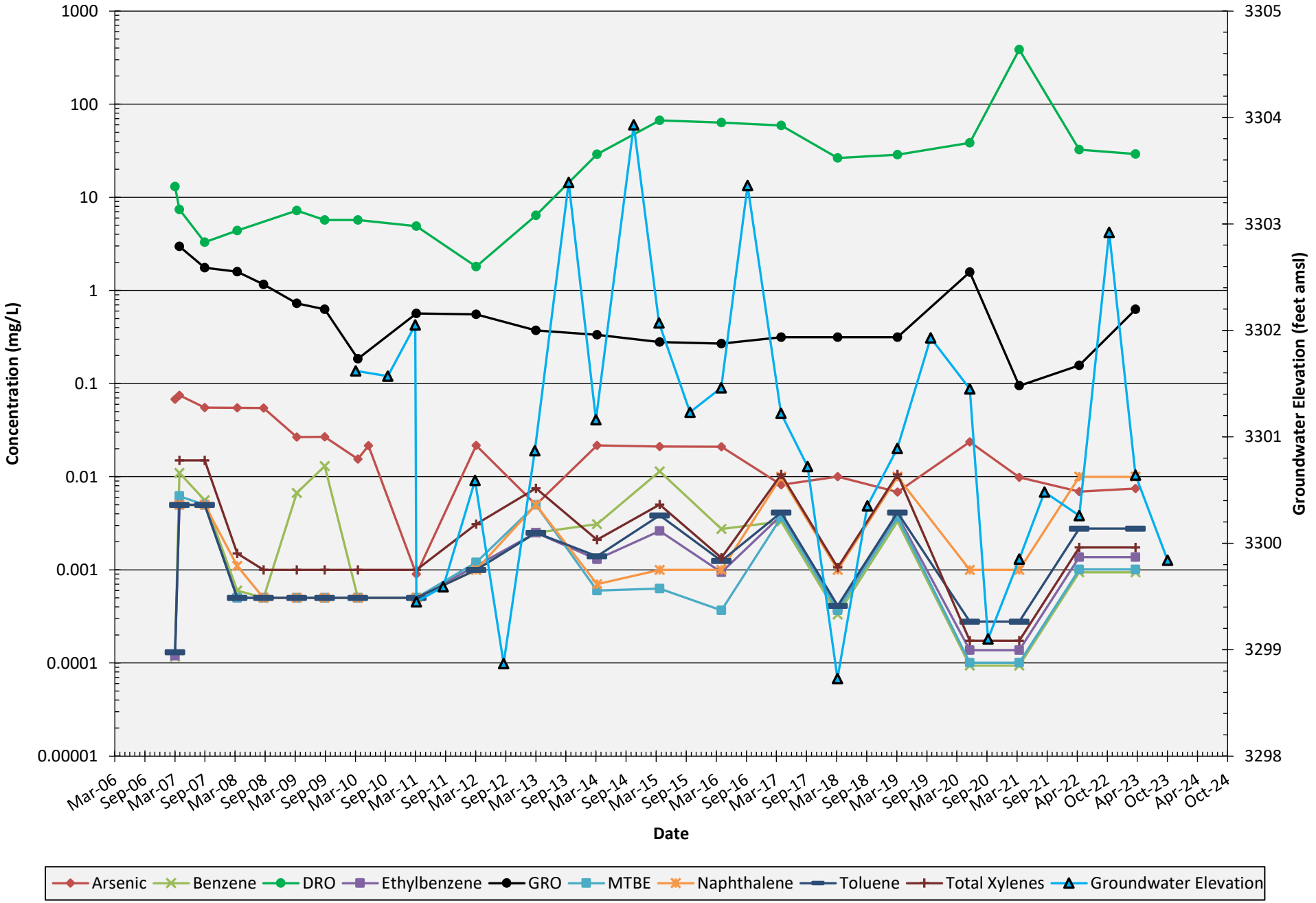


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

MW-78: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

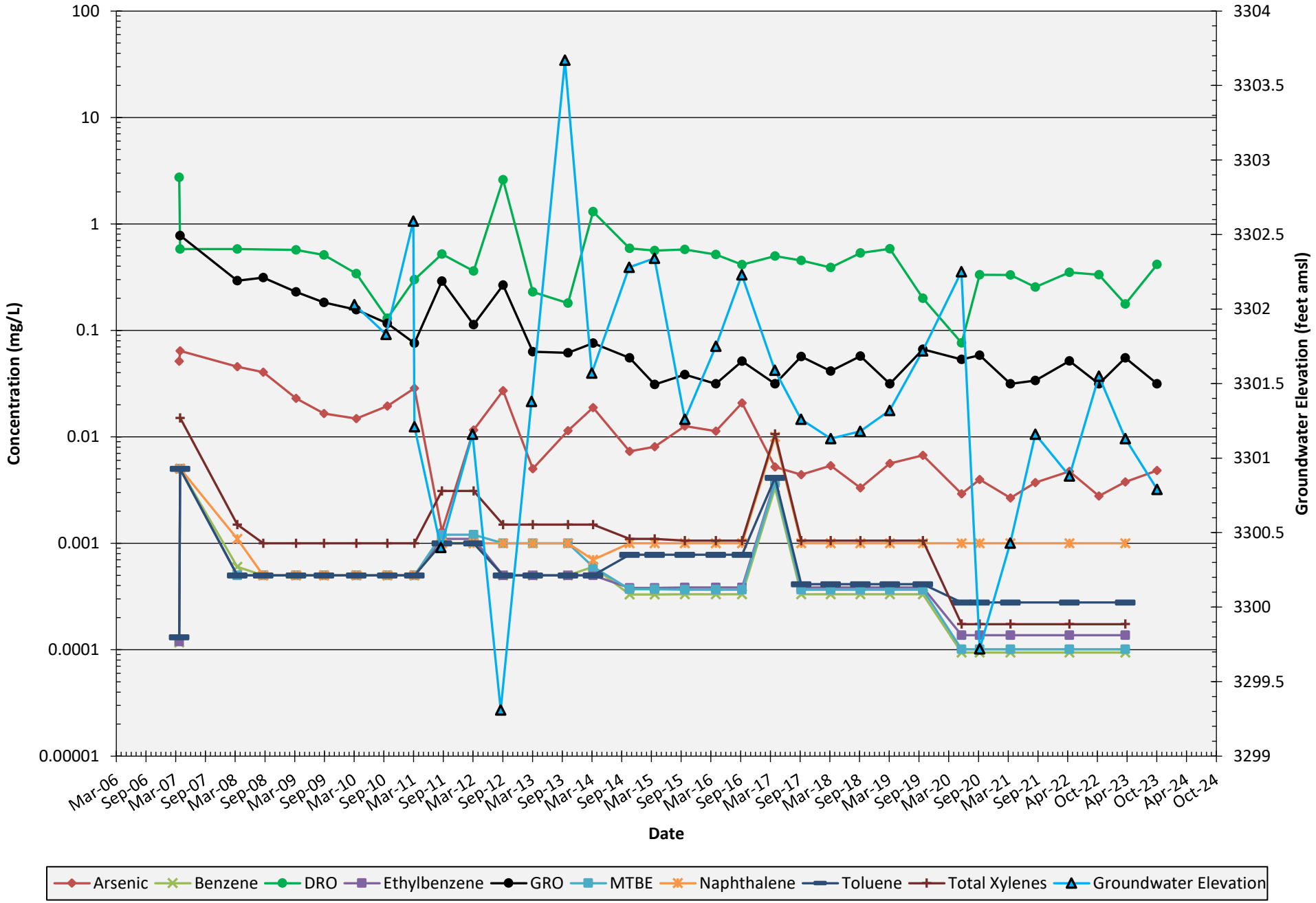


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Received by OCD: 6/12/2024 3:31:05 PM

MW-79: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

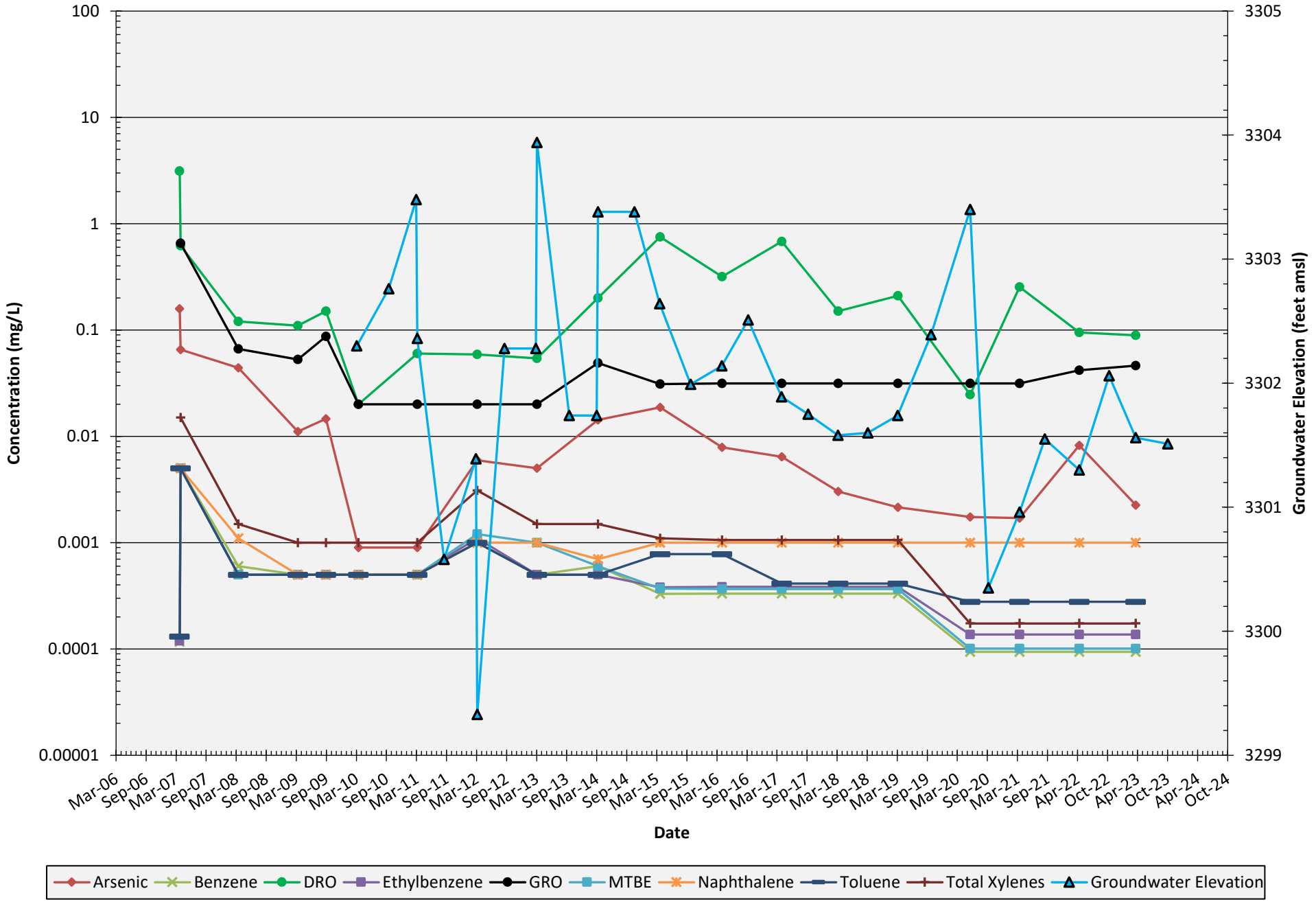


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Received by OCD: 6/12/2024 3:31:05 PM

MW-80: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

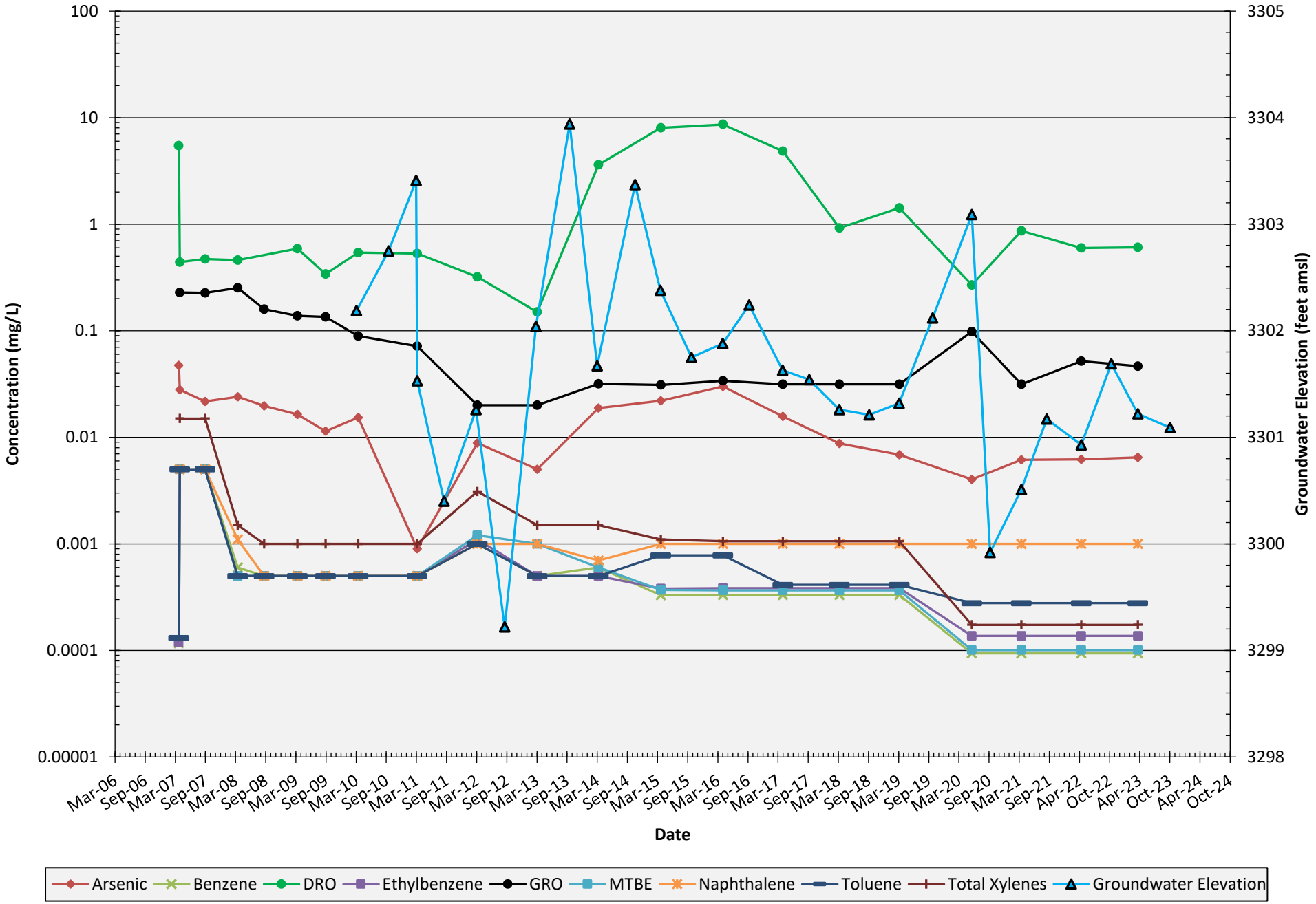


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Received by OCD: 6/12/2024 3:31:05 PM

MW-81: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

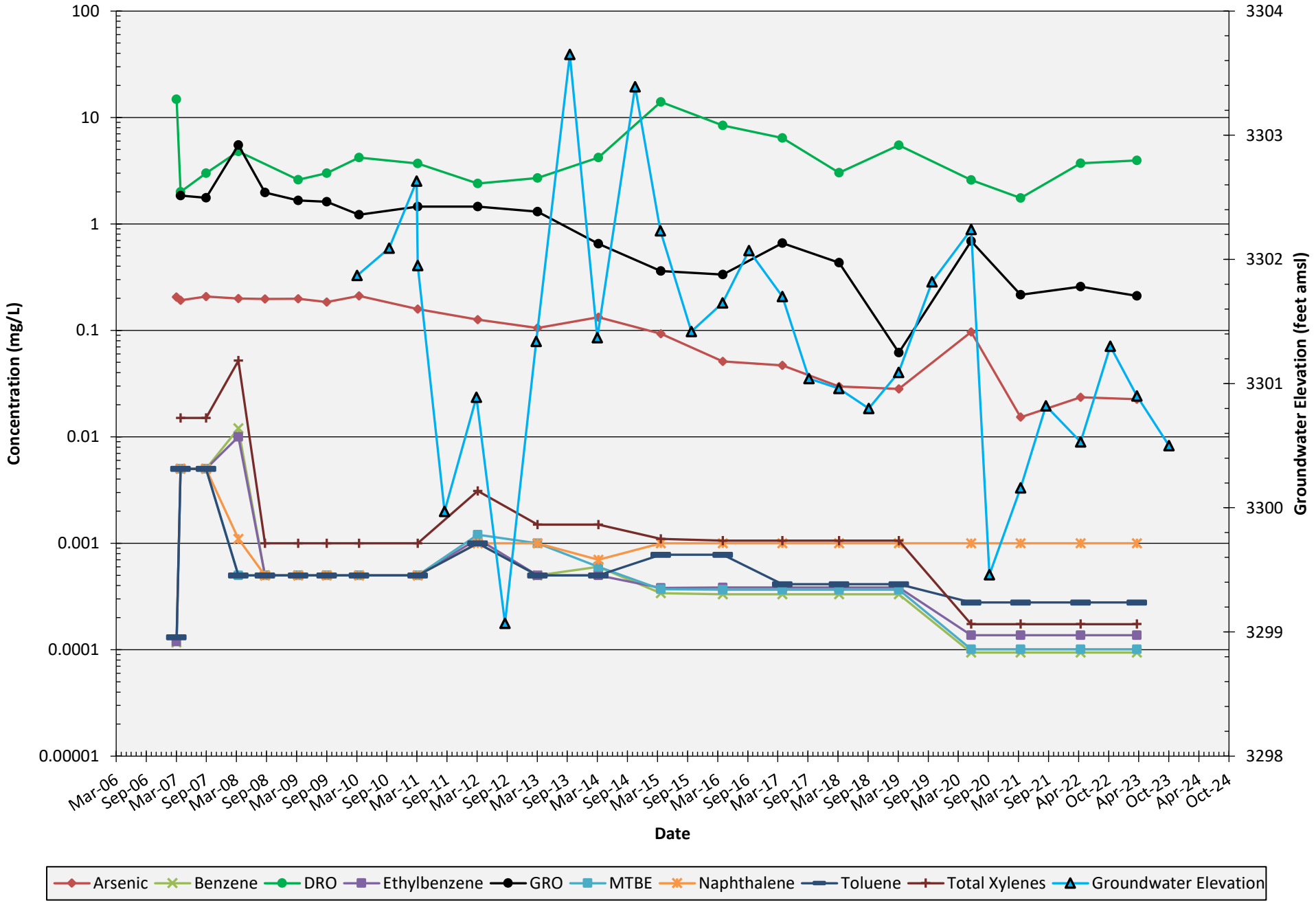


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Received by OCD: 6/12/2024 3:31:05 PM

MW-82: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

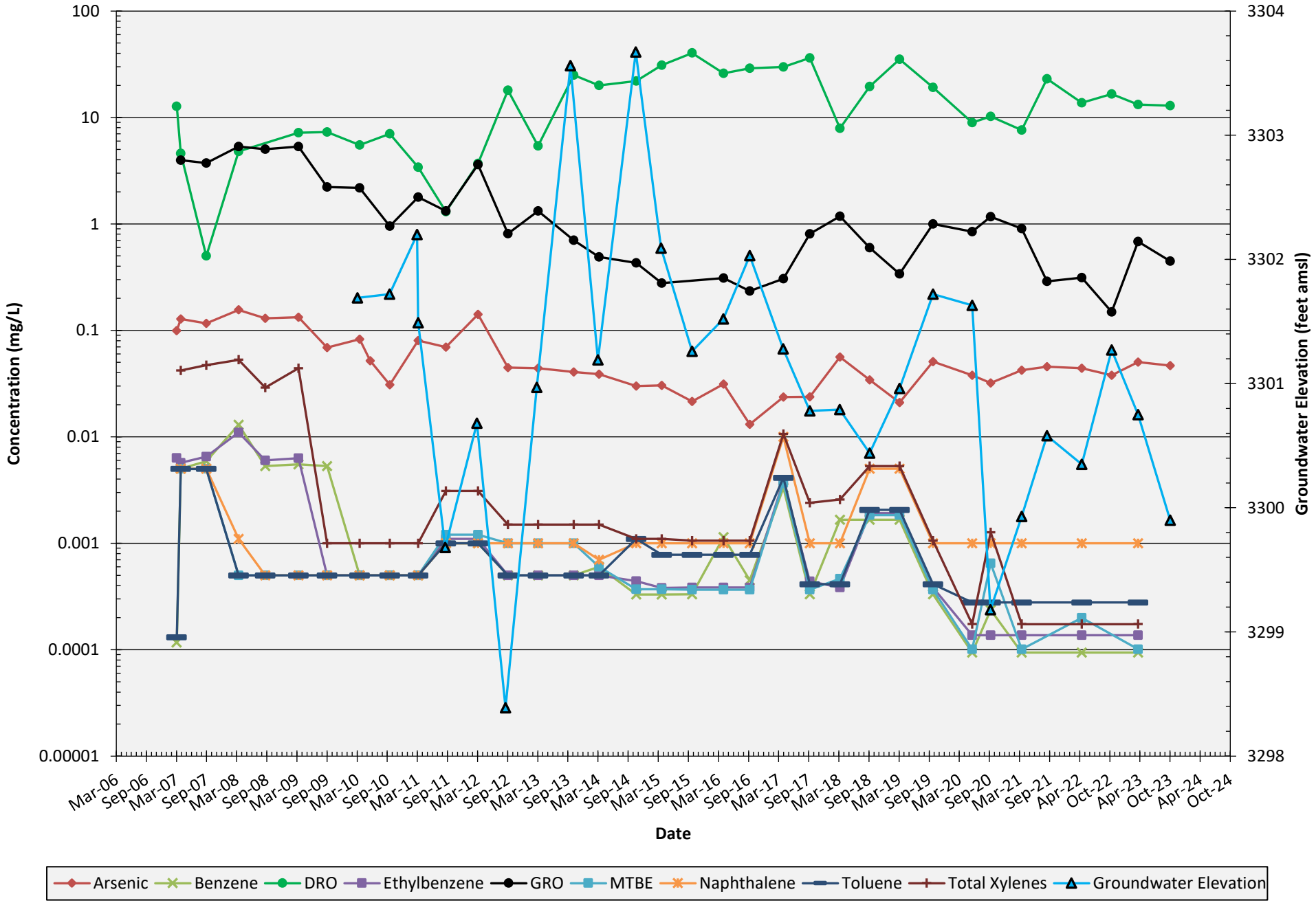


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Received by OCD: 6/12/2024 3:31:05 PM

MW-83: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

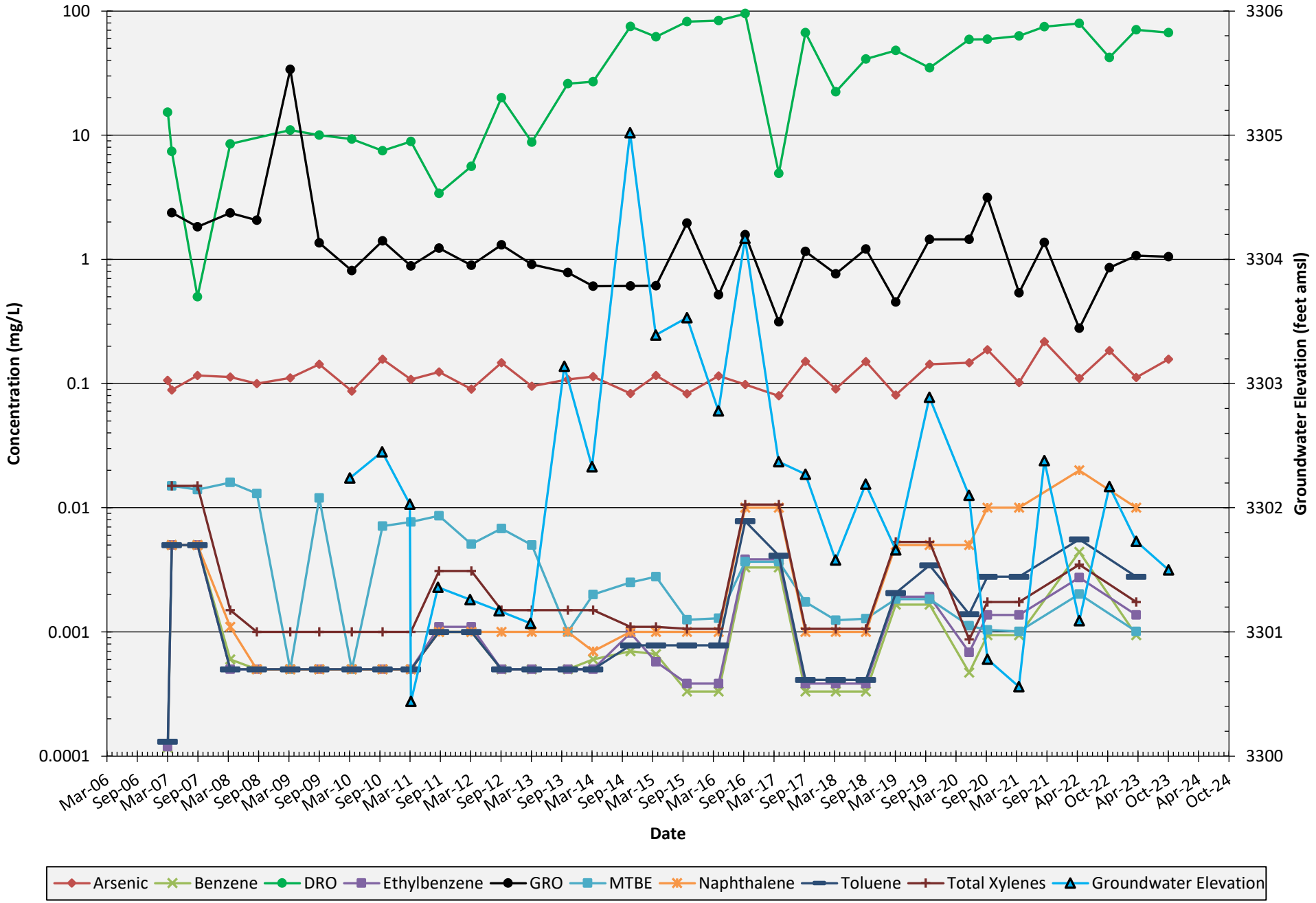


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Received by OCD: 6/12/2024 3:31:05 PM

MW-84: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

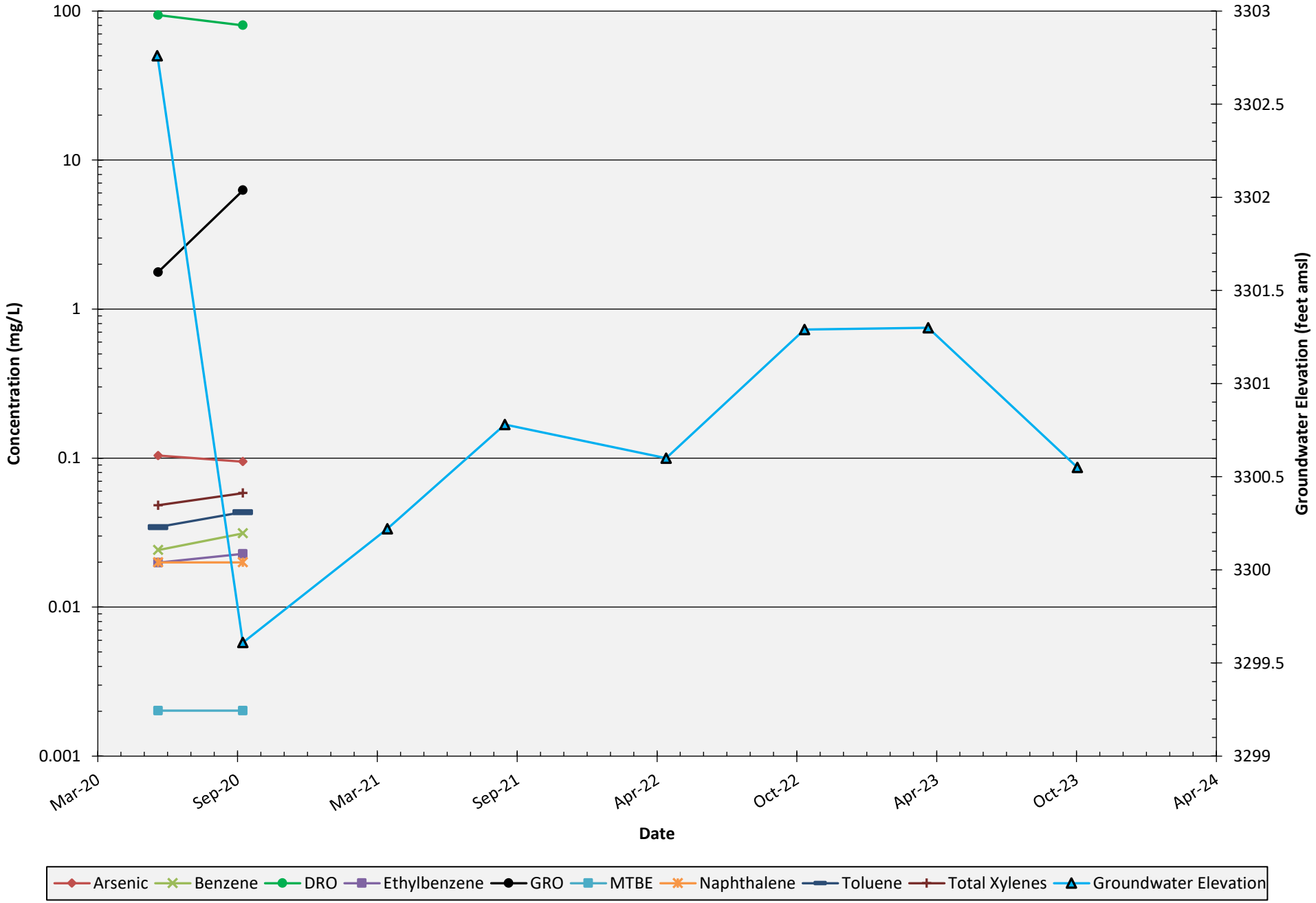


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Received by OCD: 6/12/2024 3:31:05 PM

MW-86: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

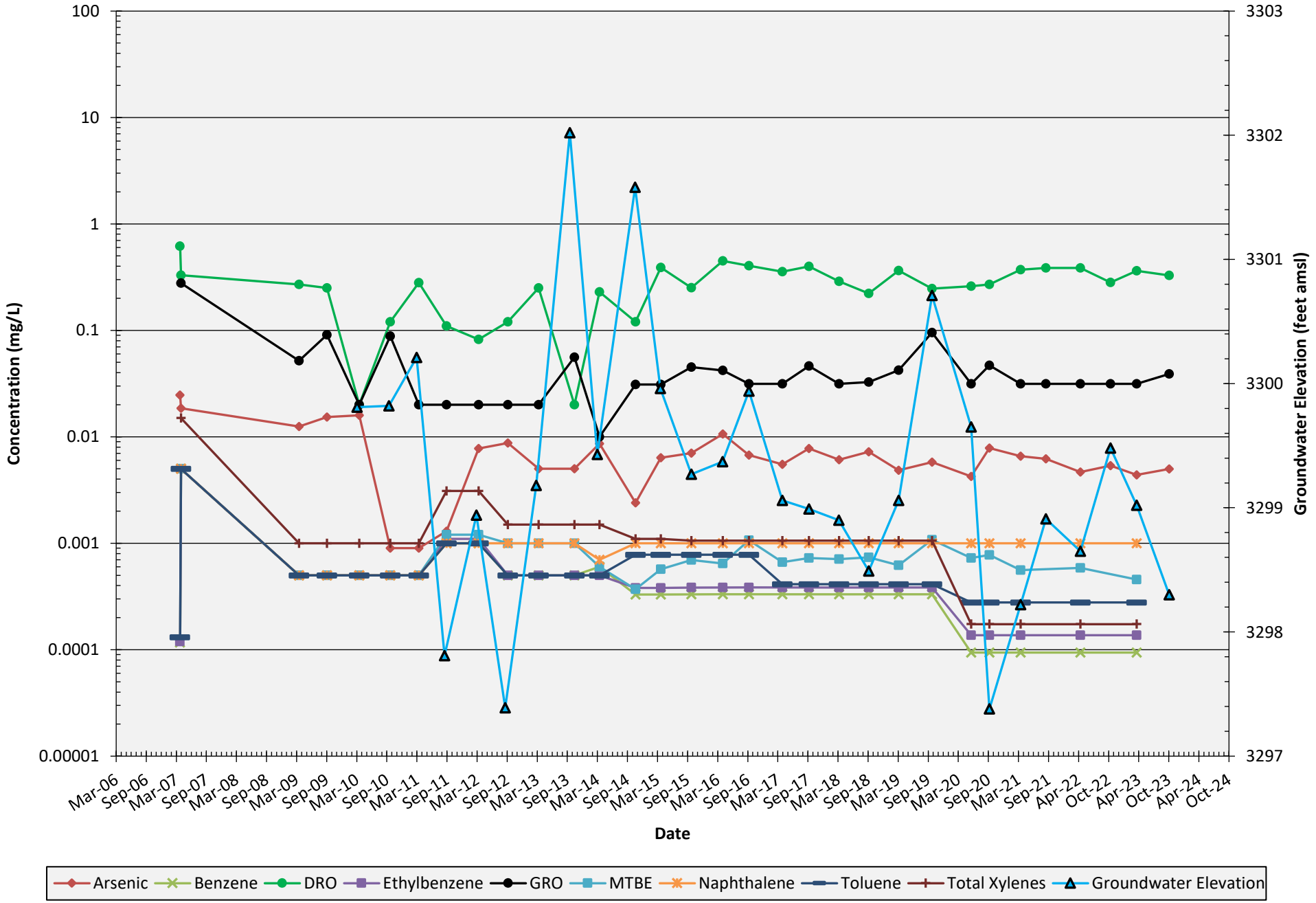


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MW-87: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

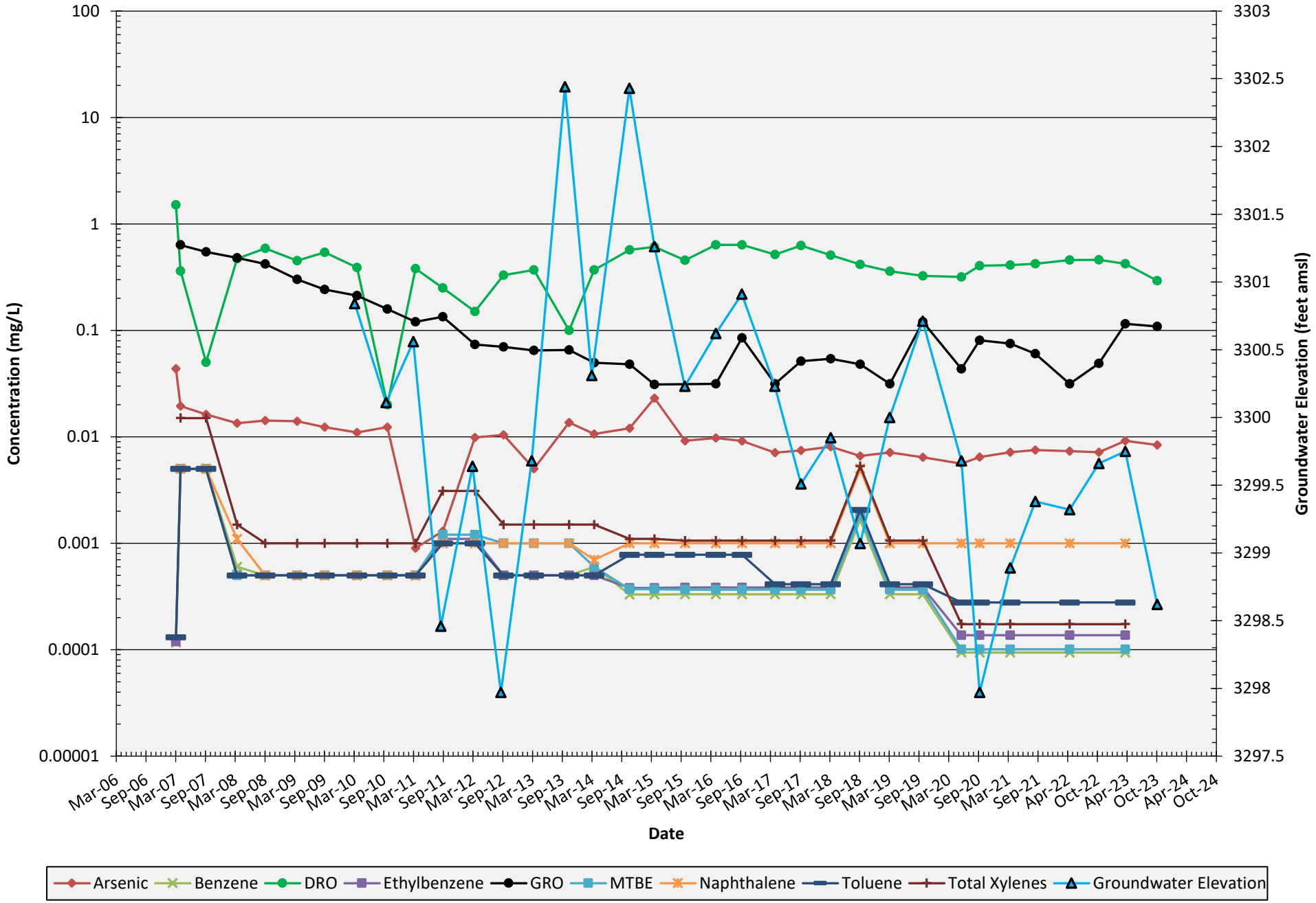


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

MW-88: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

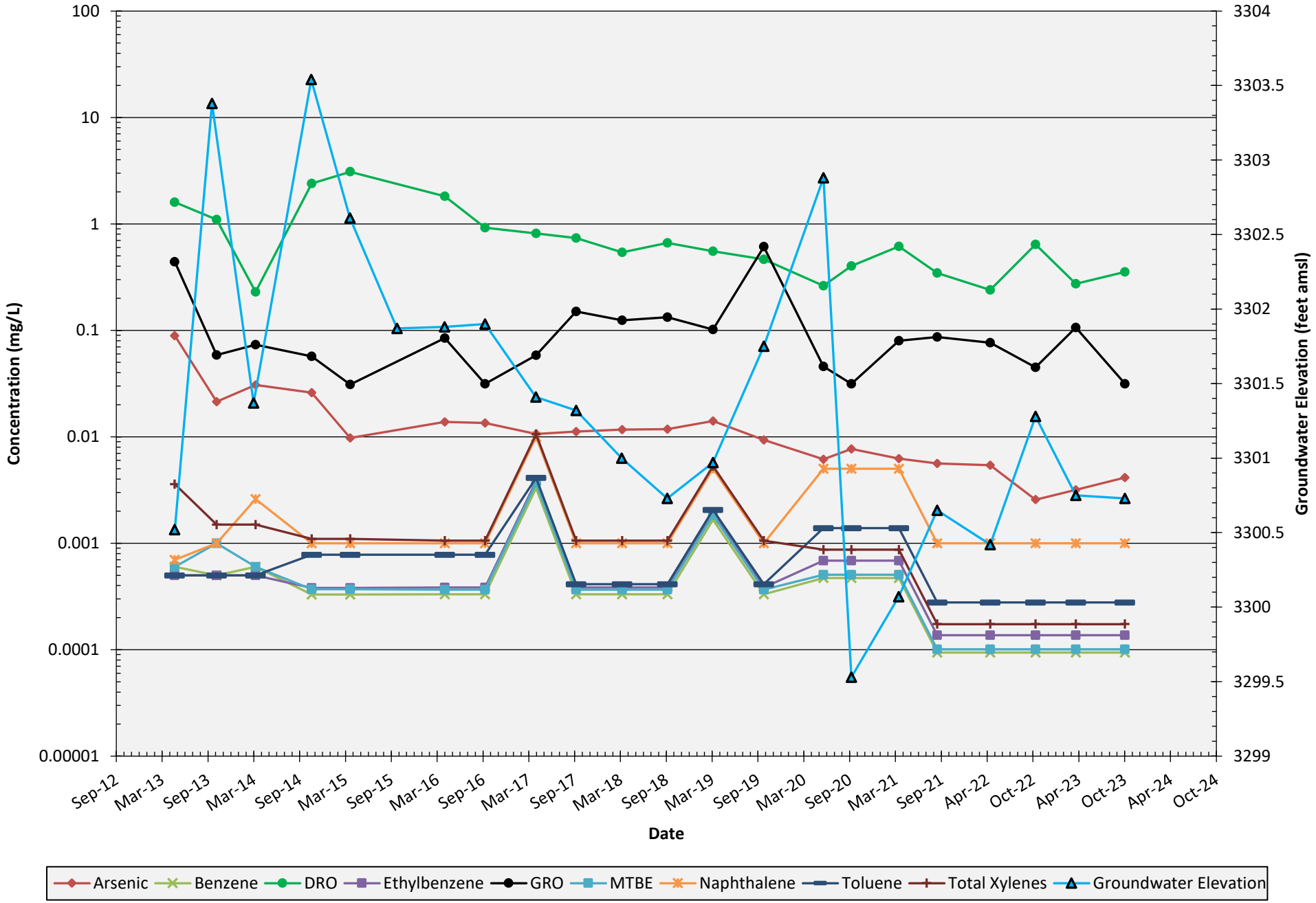


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Received by OCD: 6/12/2024 3:31:05 PM

MW-120: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

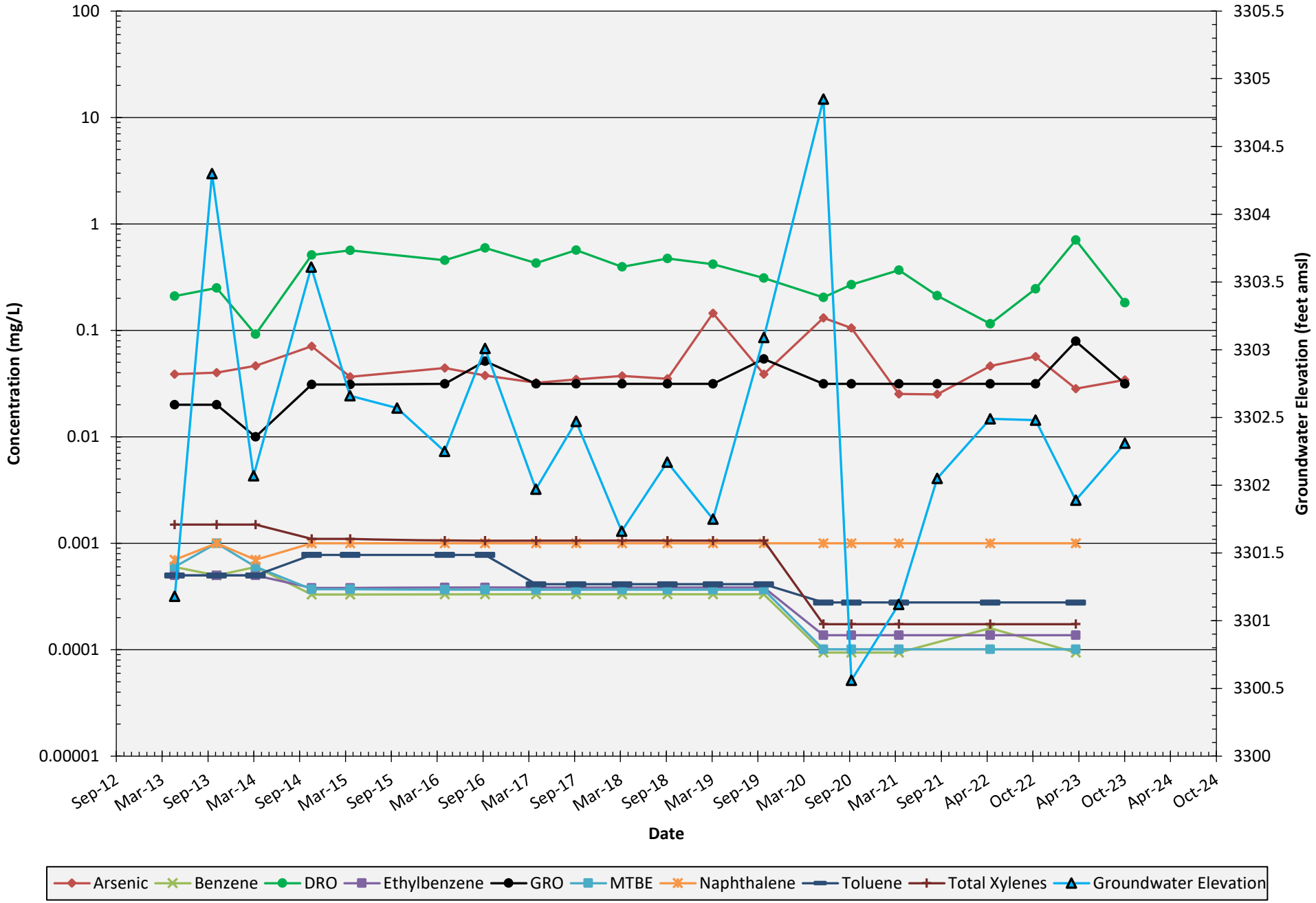


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Received by OCD: 6/12/2024 3:31:05 PM

MW-121: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

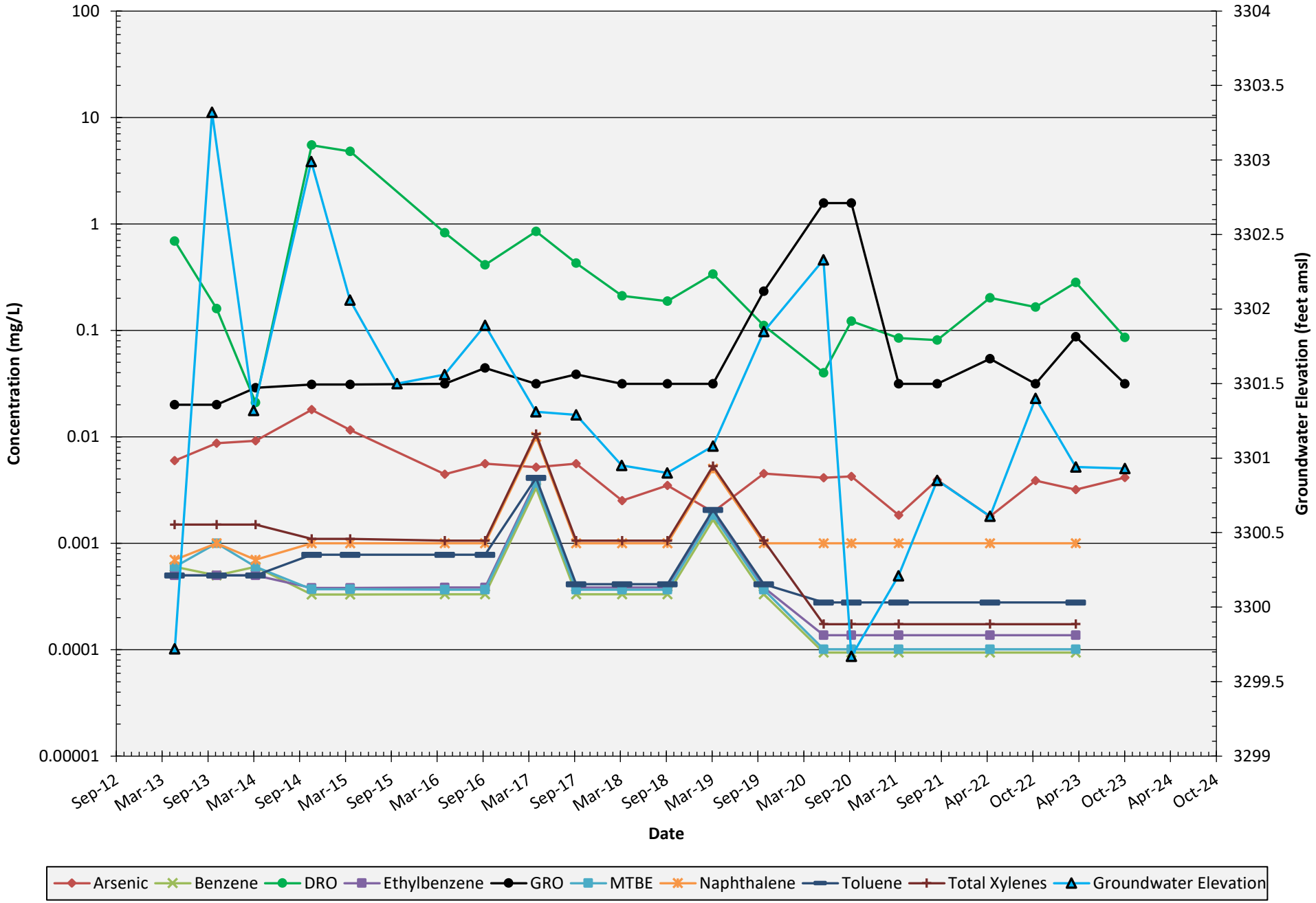


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Received by OCD: 6/12/2024 3:31:05 PM

MW-122: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

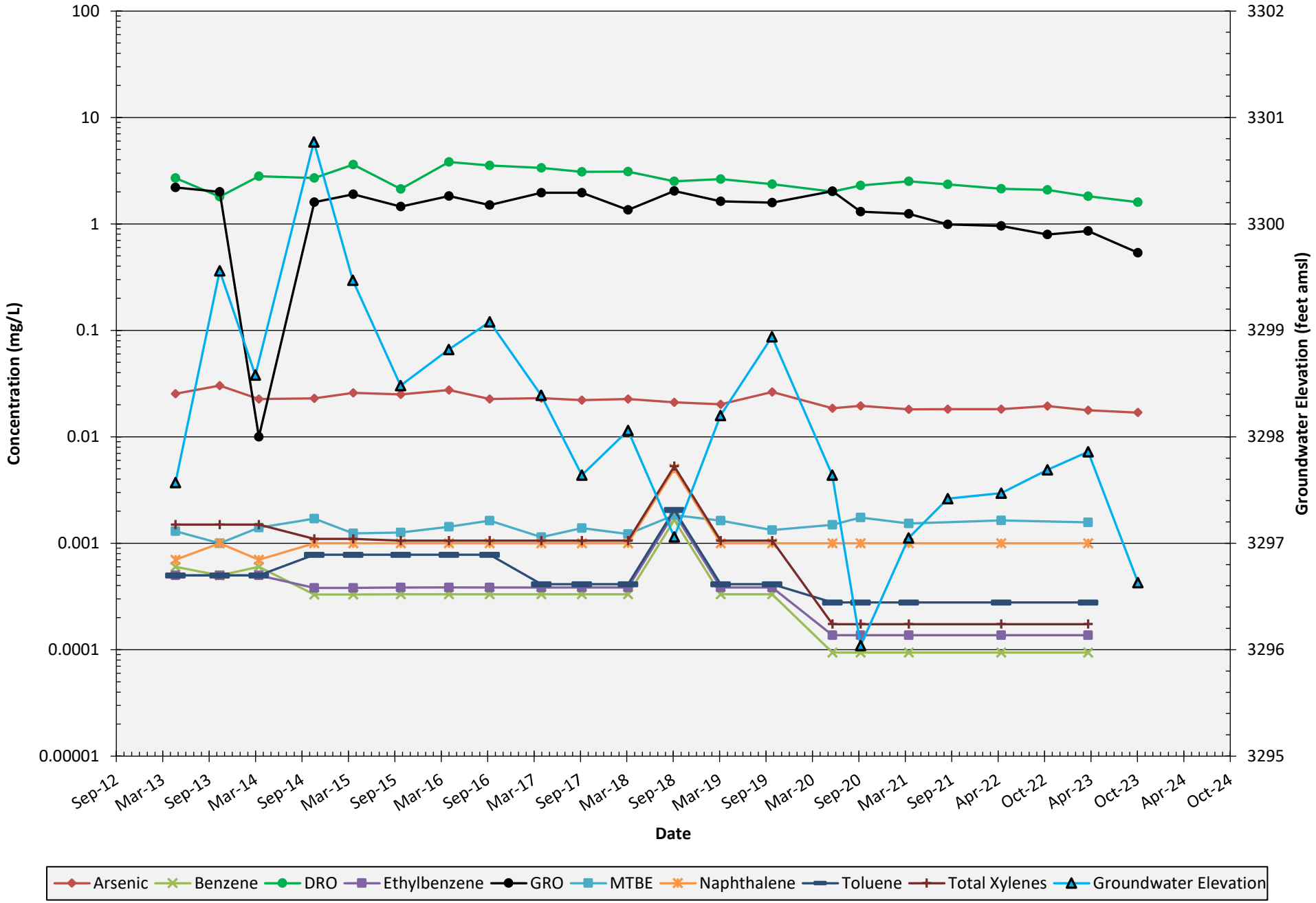


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

MW-123: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

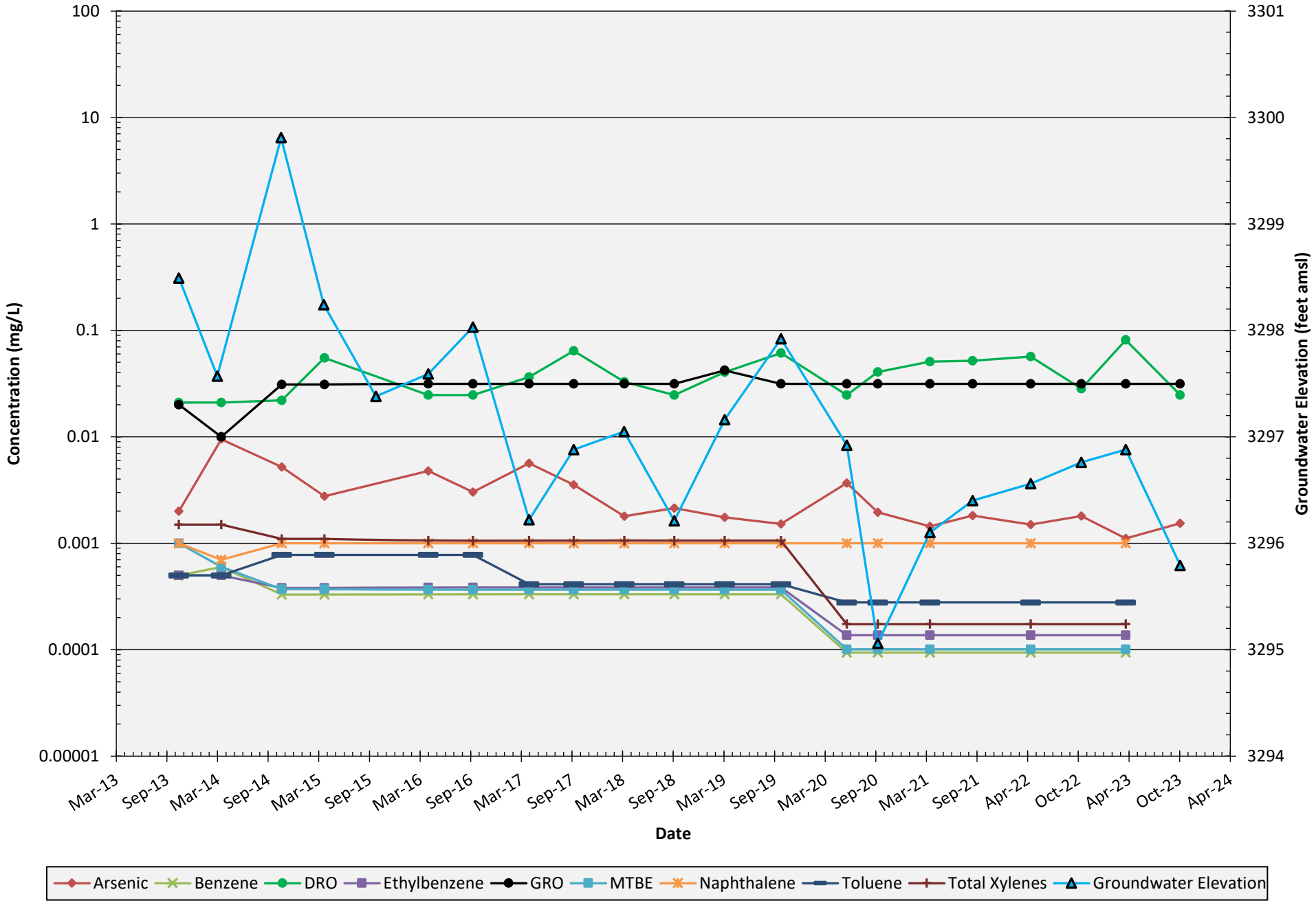


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Received by OCD: 6/12/2024 3:31:05 PM

MW-124: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

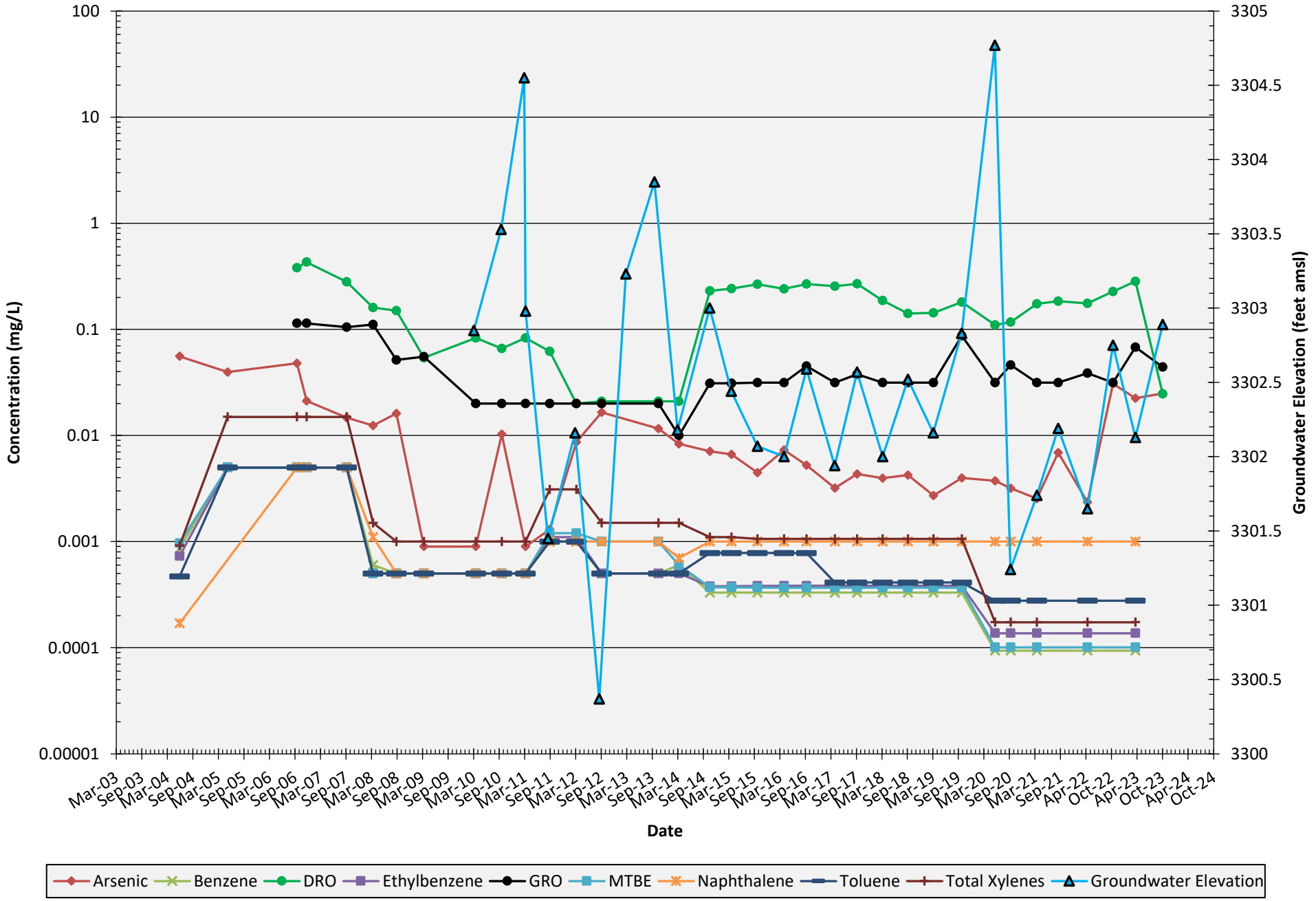


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Received by OCD: 6/12/2024 3:31:05 PM

OCD-1 & OCD-1R: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

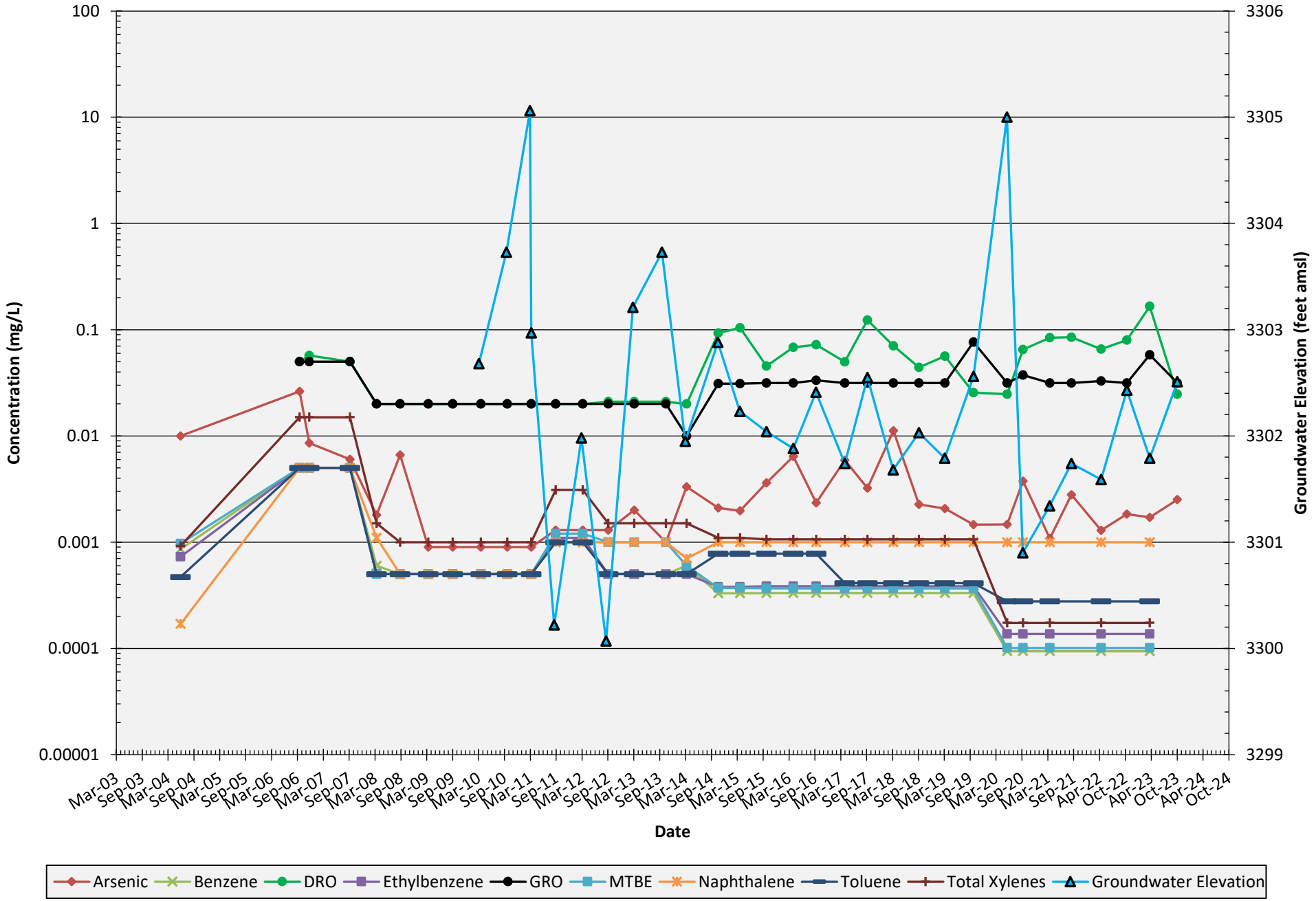


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OCD-2A: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

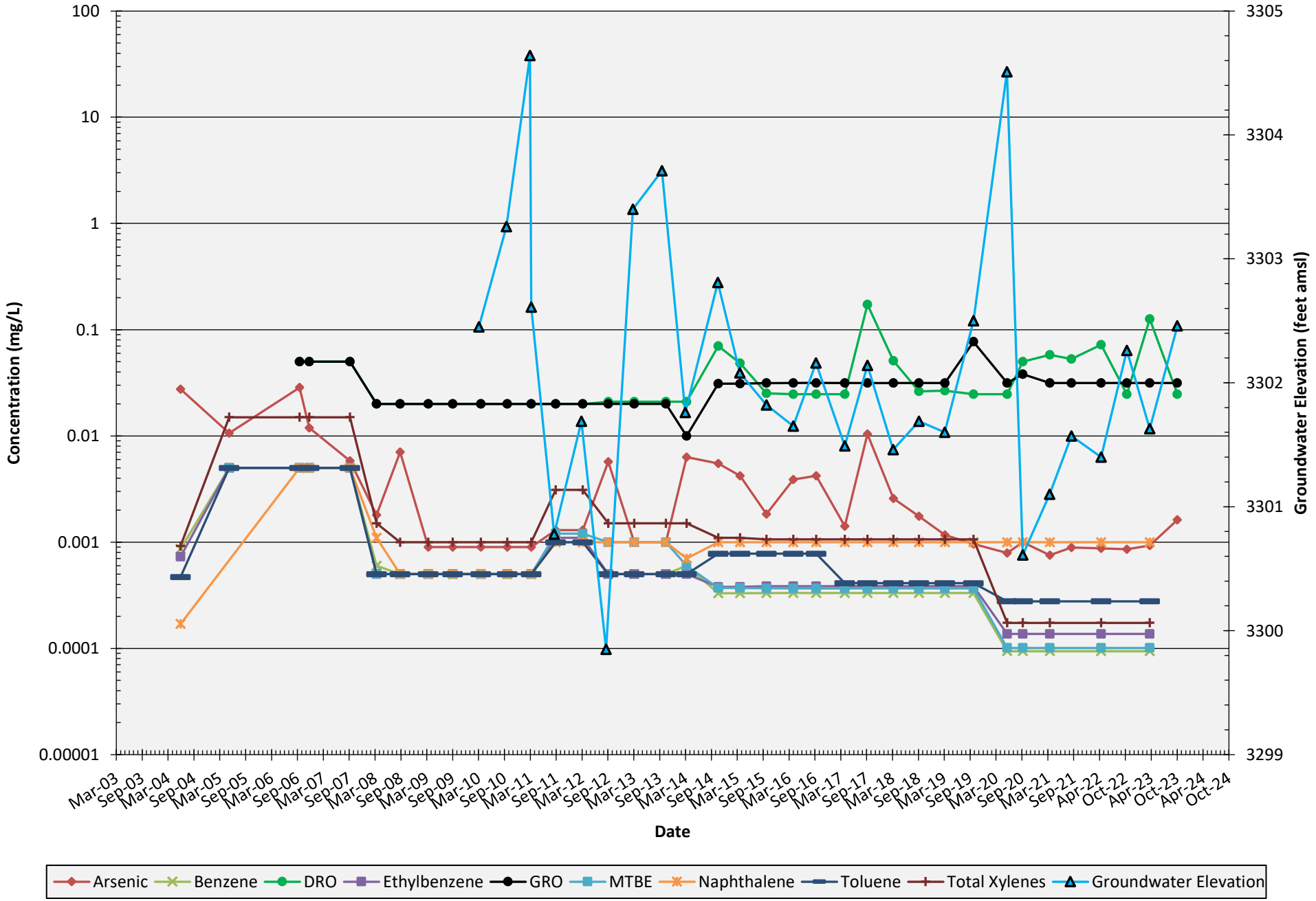


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Received by OCD: 6/12/2024 3:31:05 PM

OCD-3: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

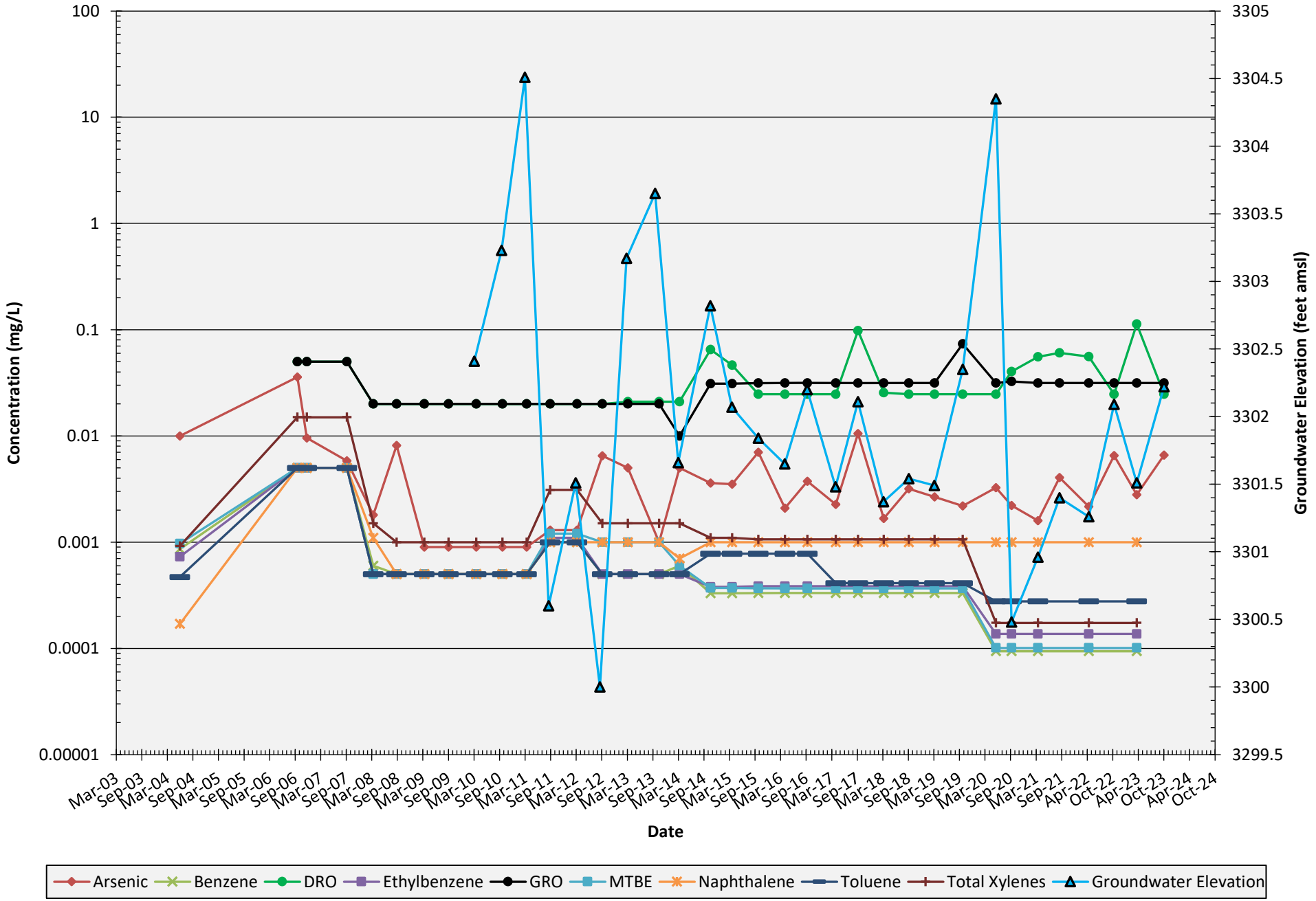


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Received by OCD: 6/12/2024 3:31:05 PM

OCD-4: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

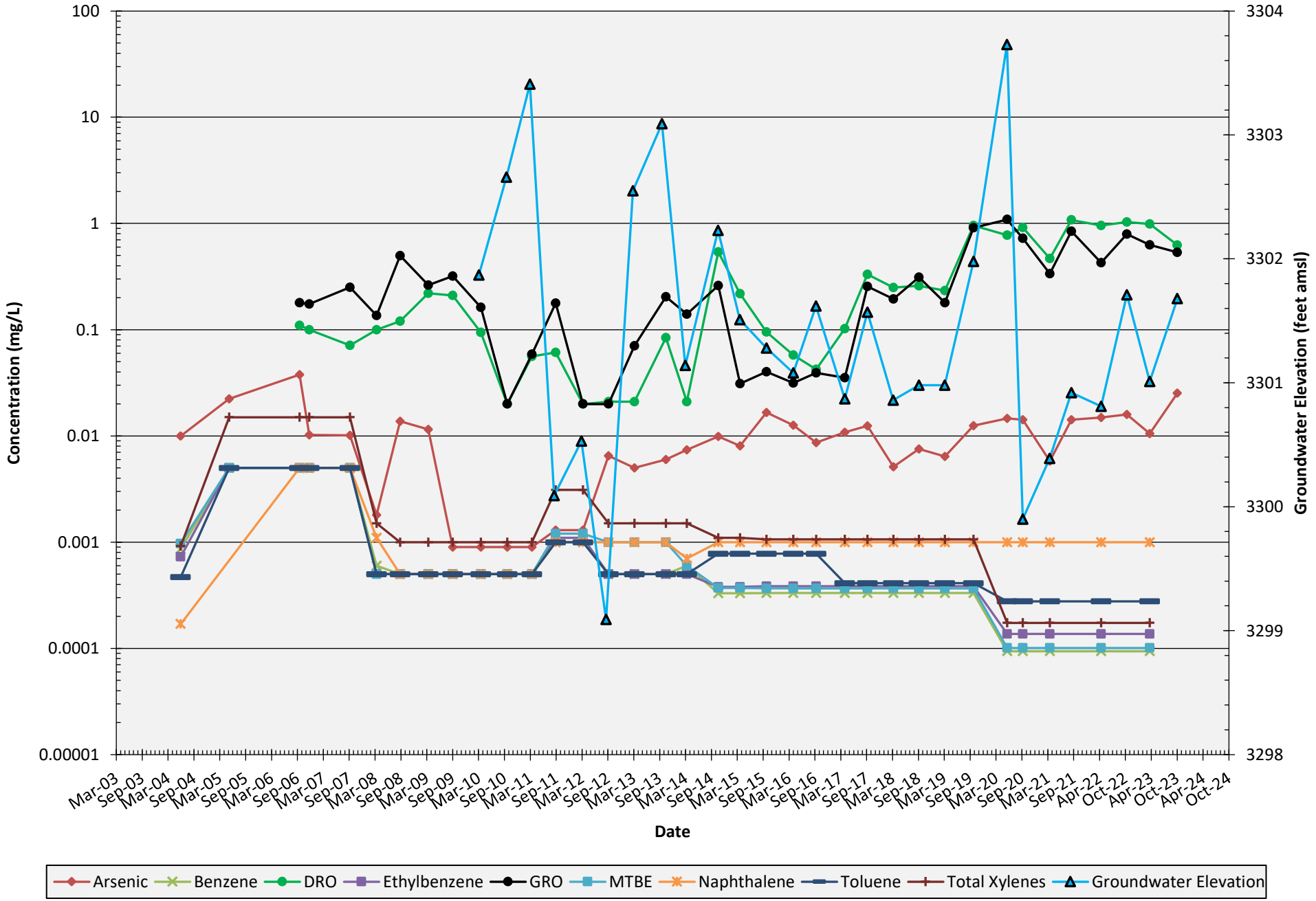


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Received by OCD: 6/12/2024 3:31:05 PM

OCD-5: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

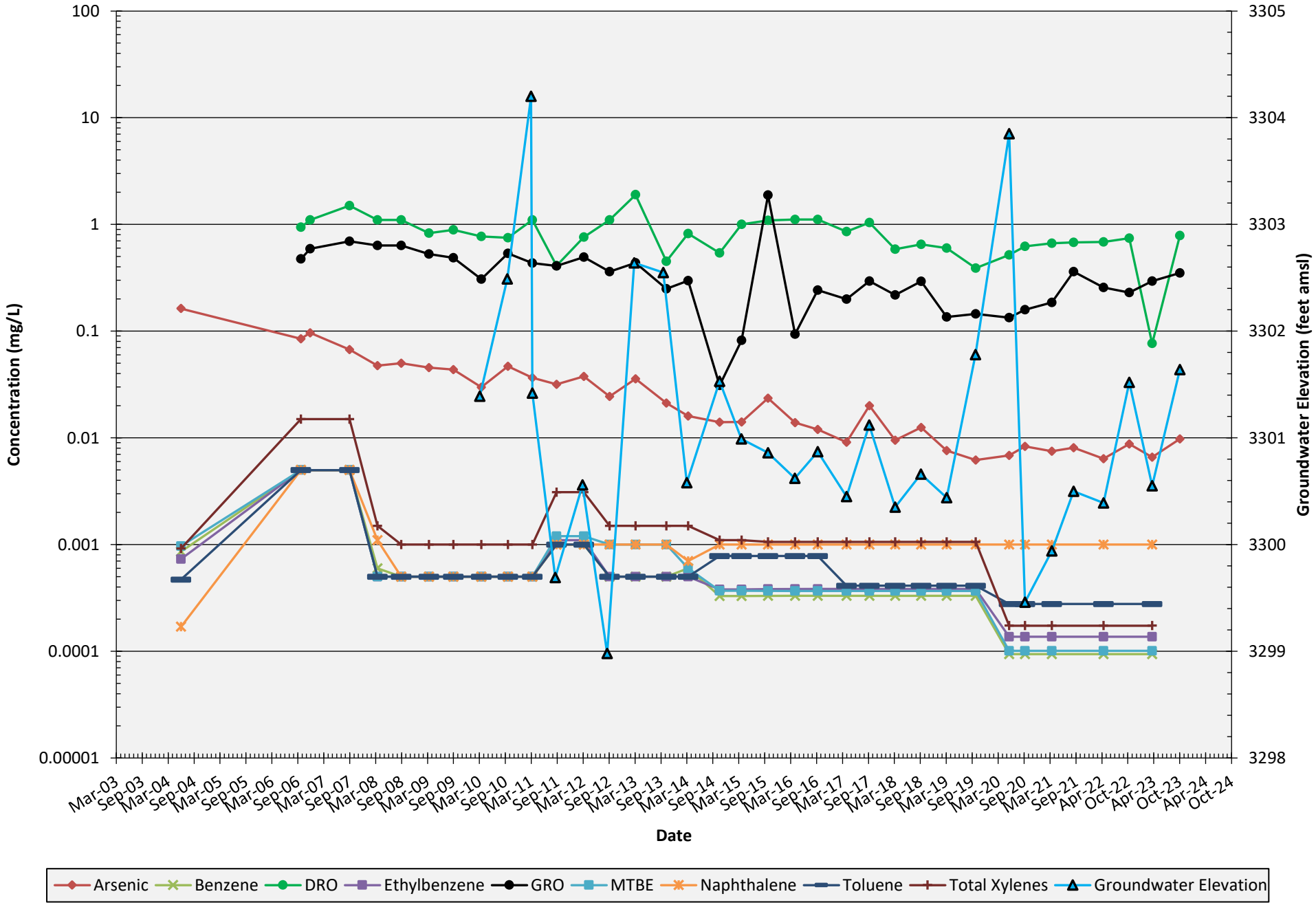


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Received by OCD: 6/12/2024 3:31:05 PM

OCD-6: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

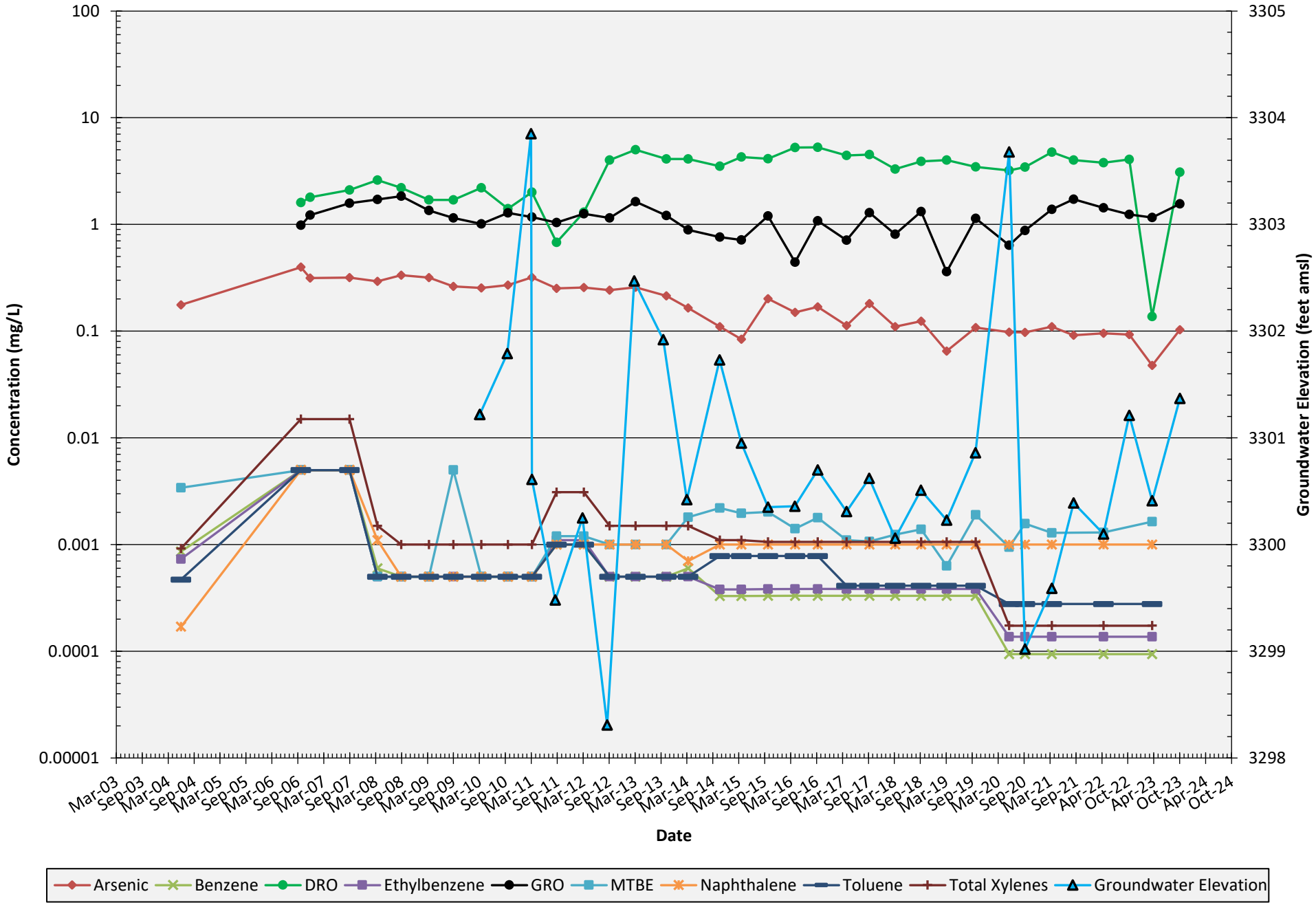


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Received by OCD: 6/12/2024 3:31:05 PM

OCD-7A & OCD-7AR: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

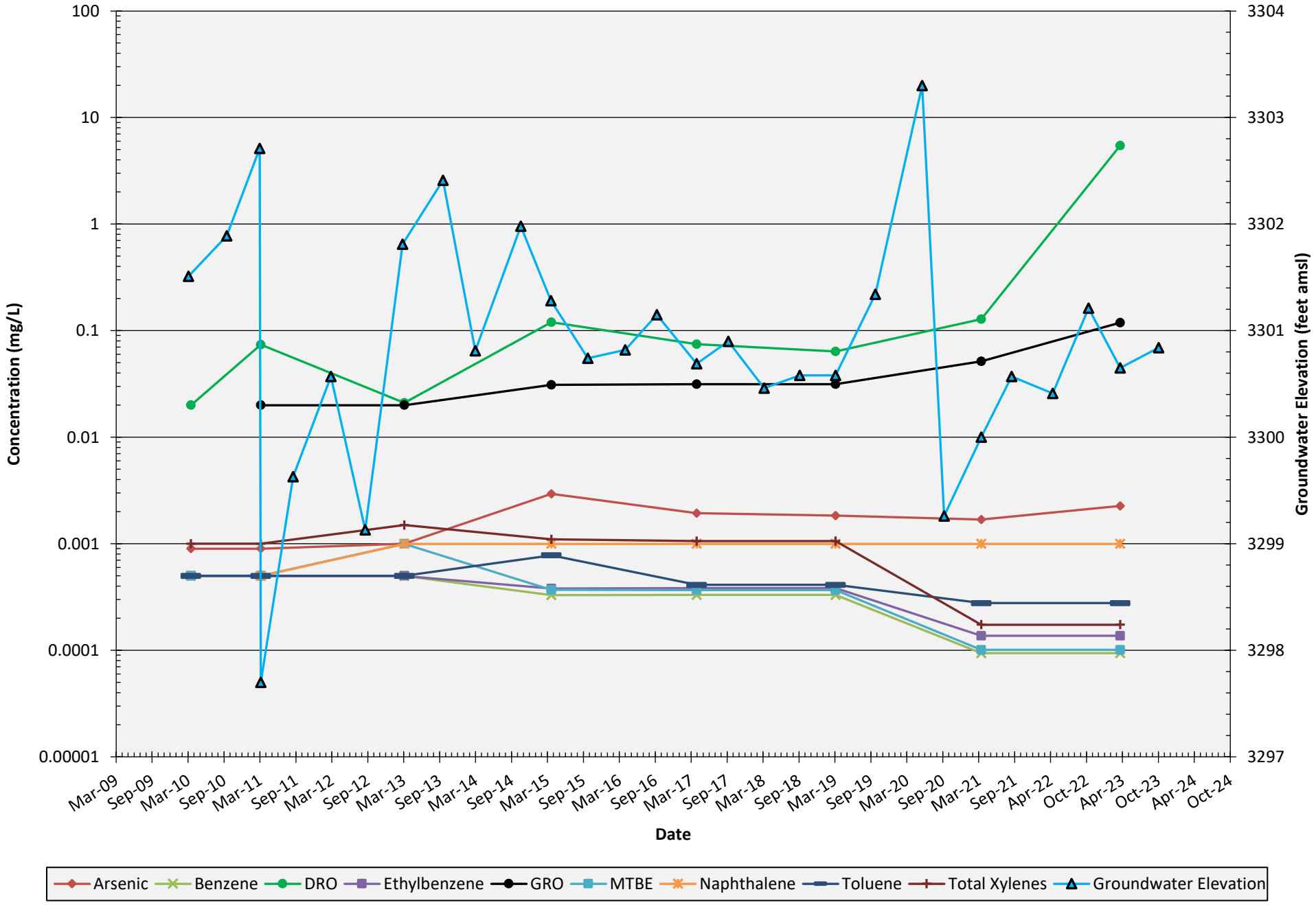


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OCD-7B: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

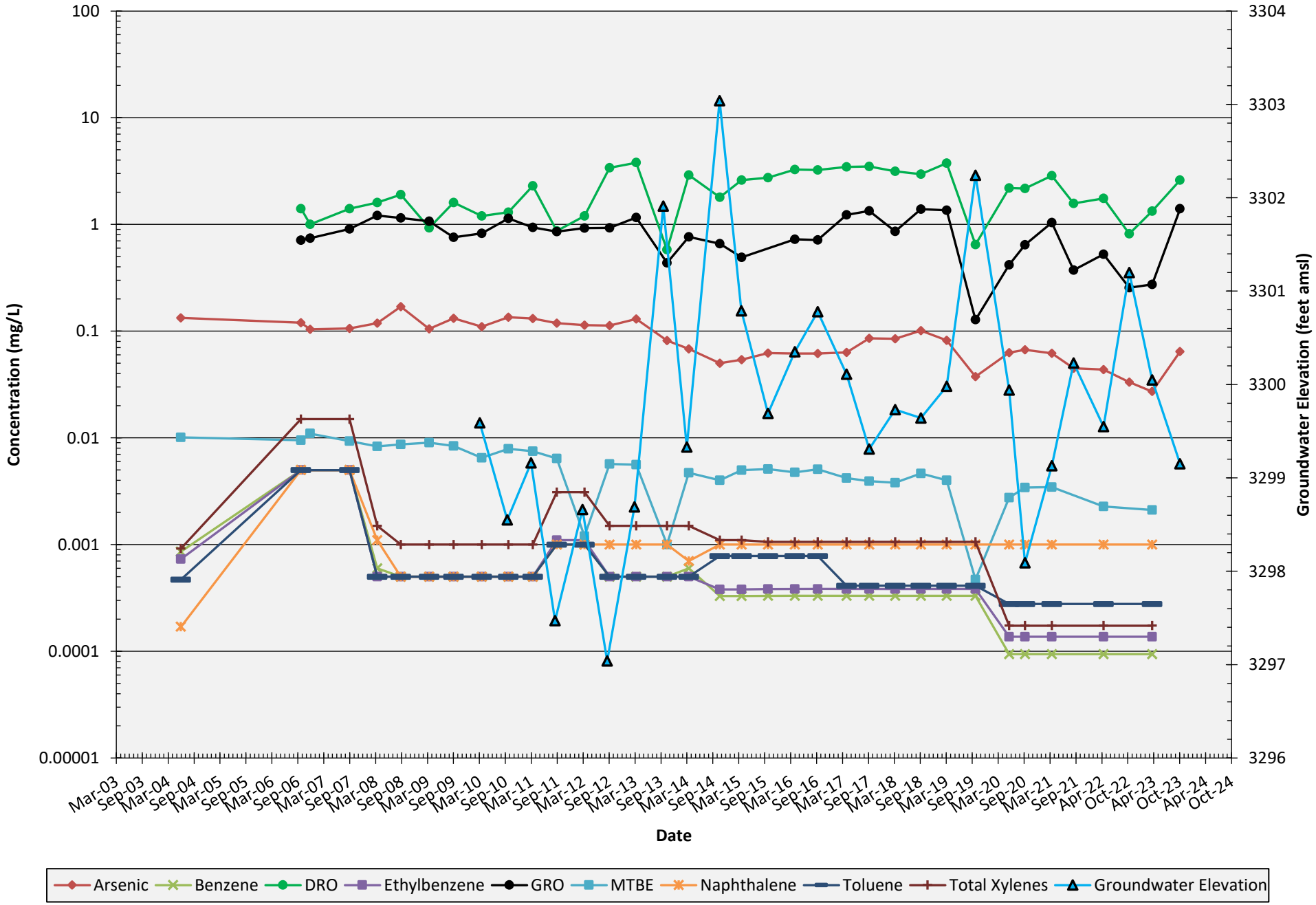


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Received by OCD: 6/12/2024 3:31:05 PM

OCD-8A: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

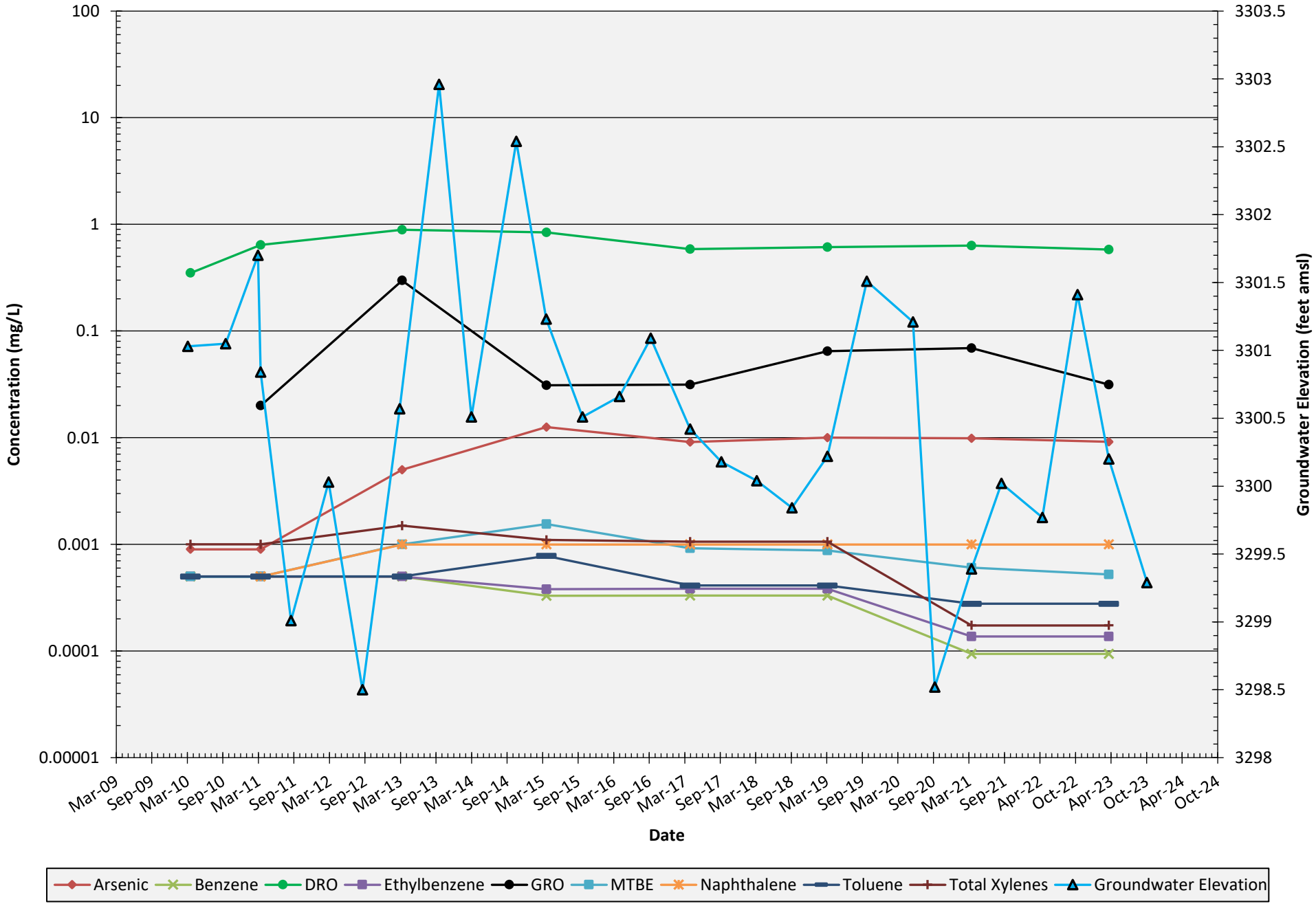


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OCD-8B: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

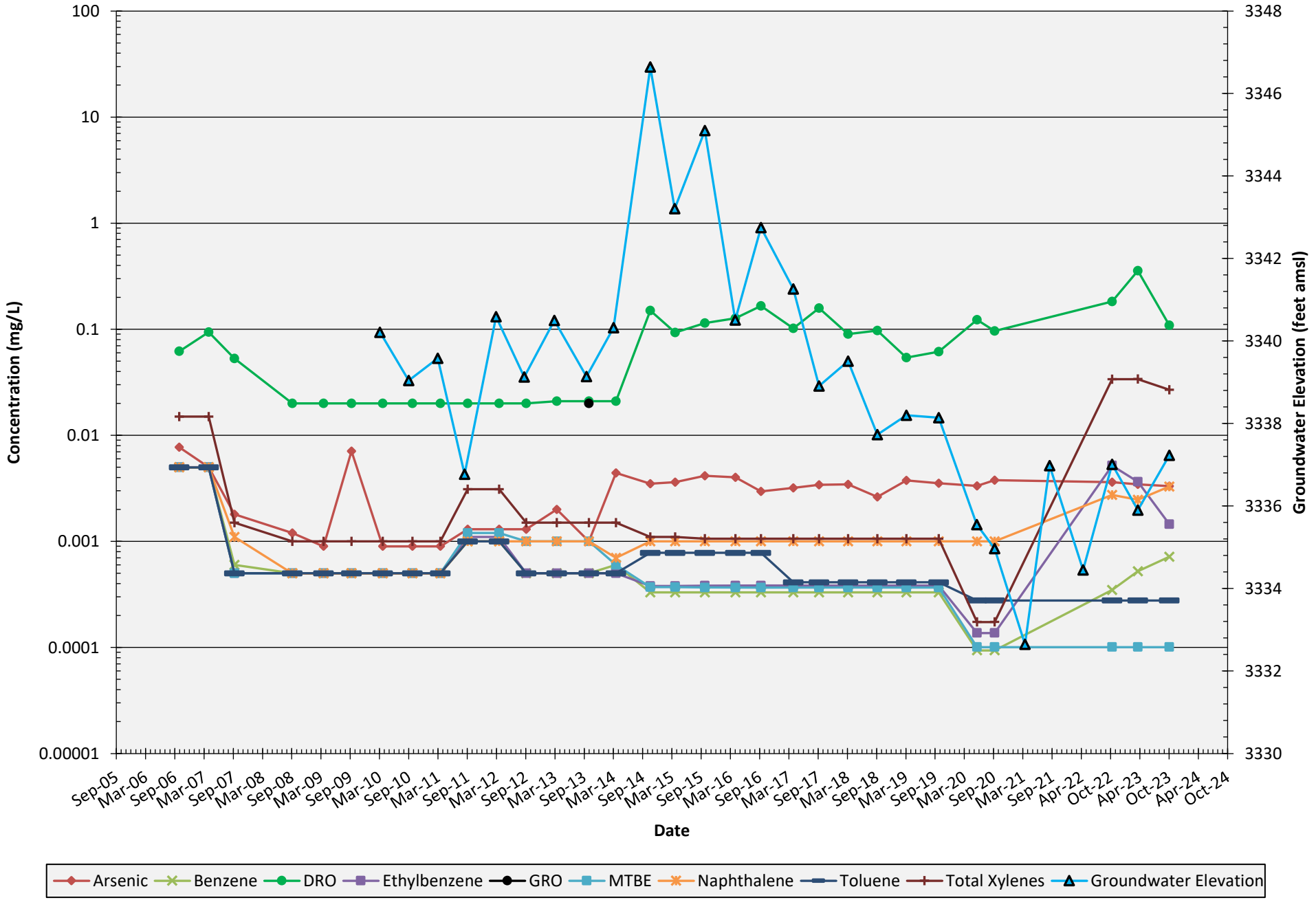


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Received by OCD: 6/12/2024 3:31:05 PM

KWB-1A: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Field East of Refinery

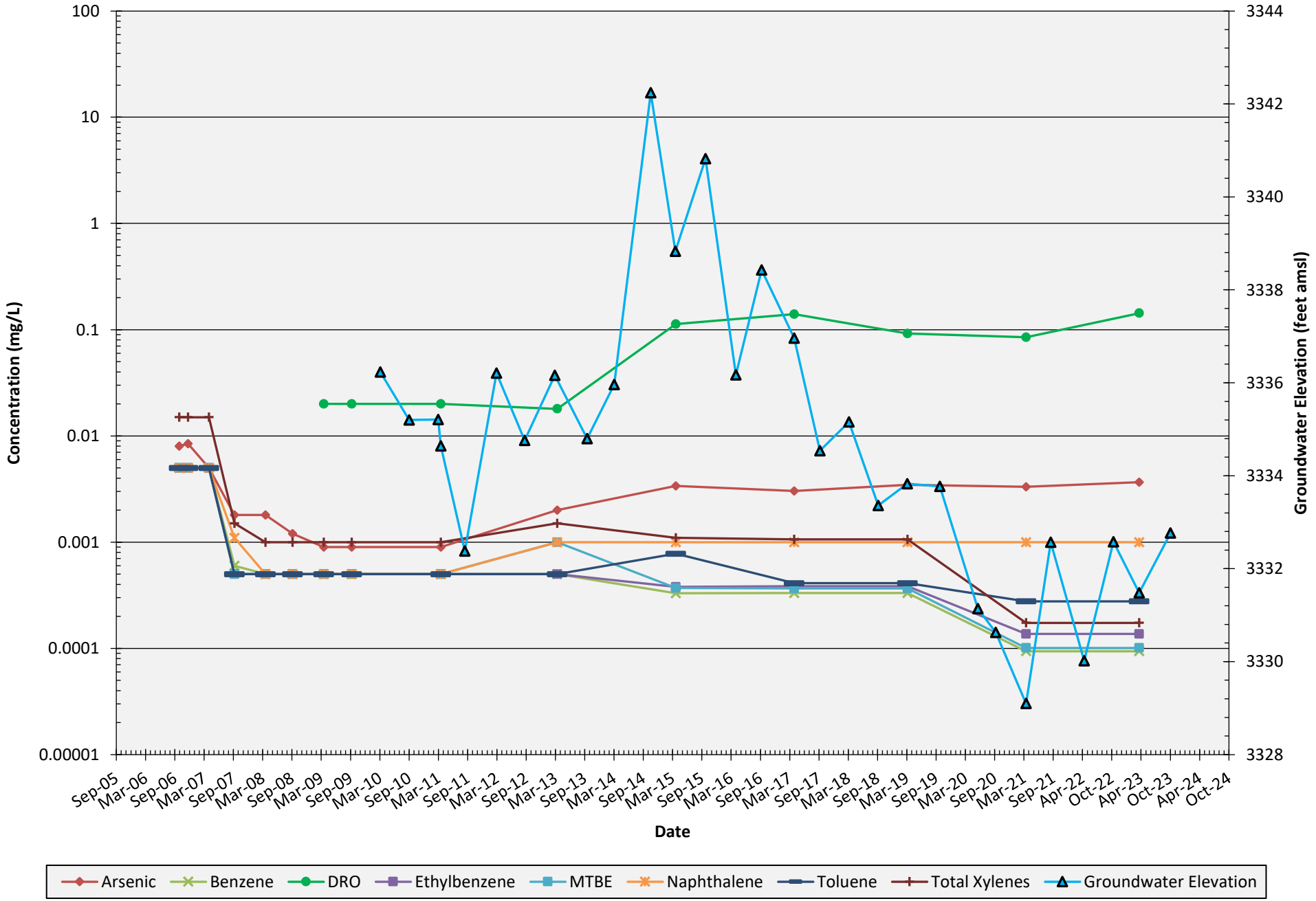


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Received by OCD: 6/12/2024 3:31:05 PM

KWB-1C: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Field East of Refinery

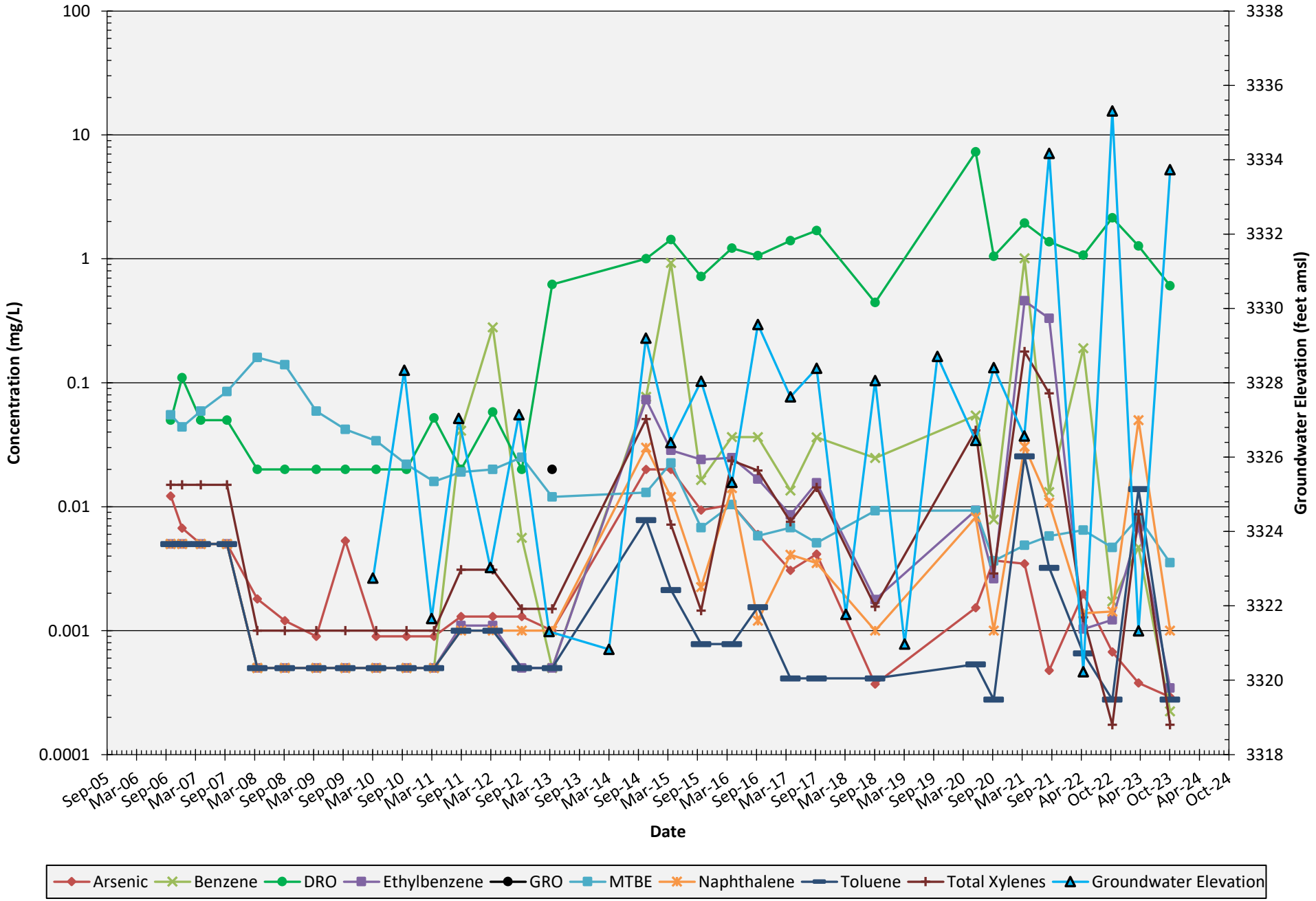


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Received by OCD: 6/12/2024 3:31:05 PM

KWB-7: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Field East of Refinery

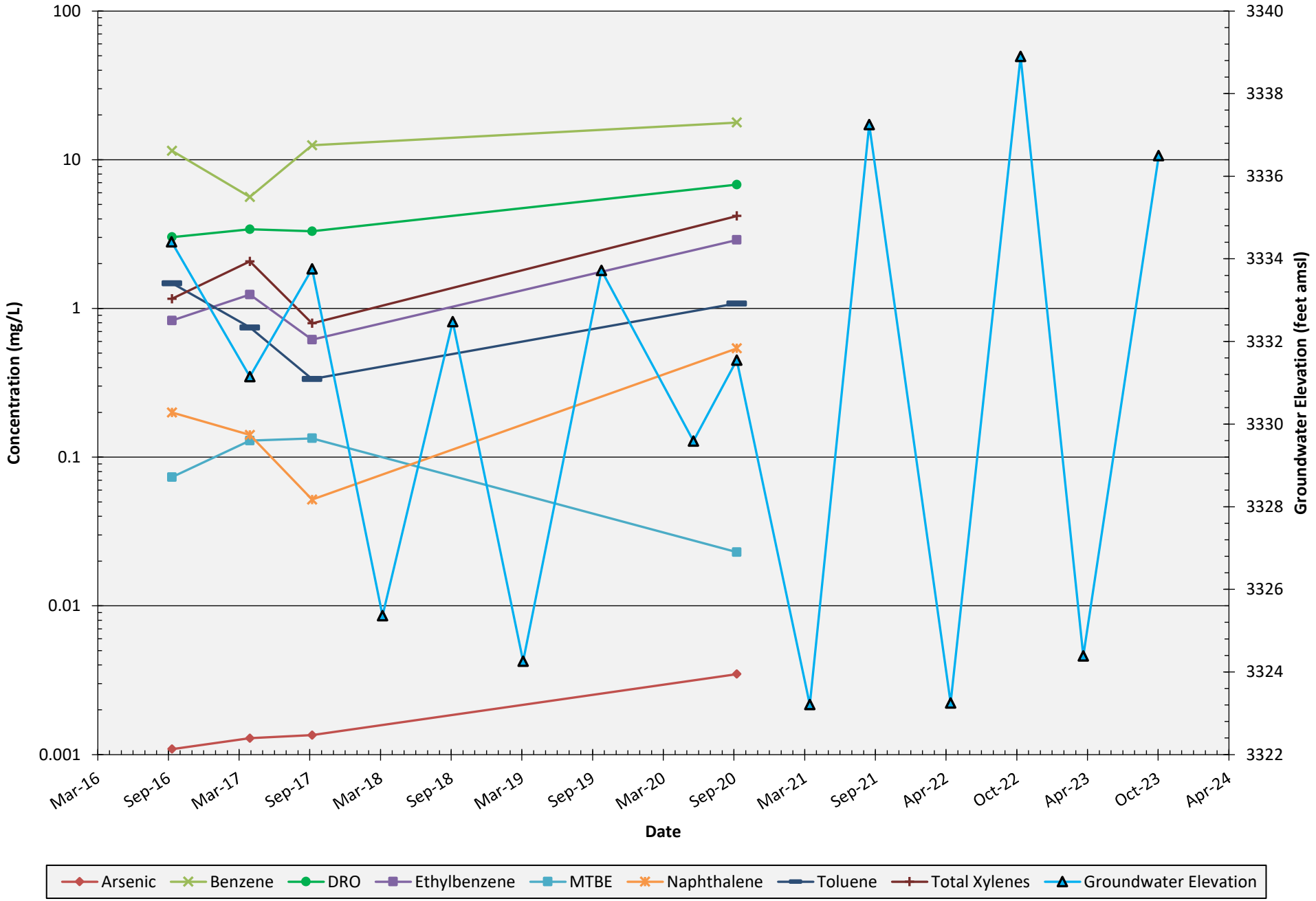


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Received by OCD: 6/12/2024 3:31:05 PM

KWB-8: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Field East of Refinery

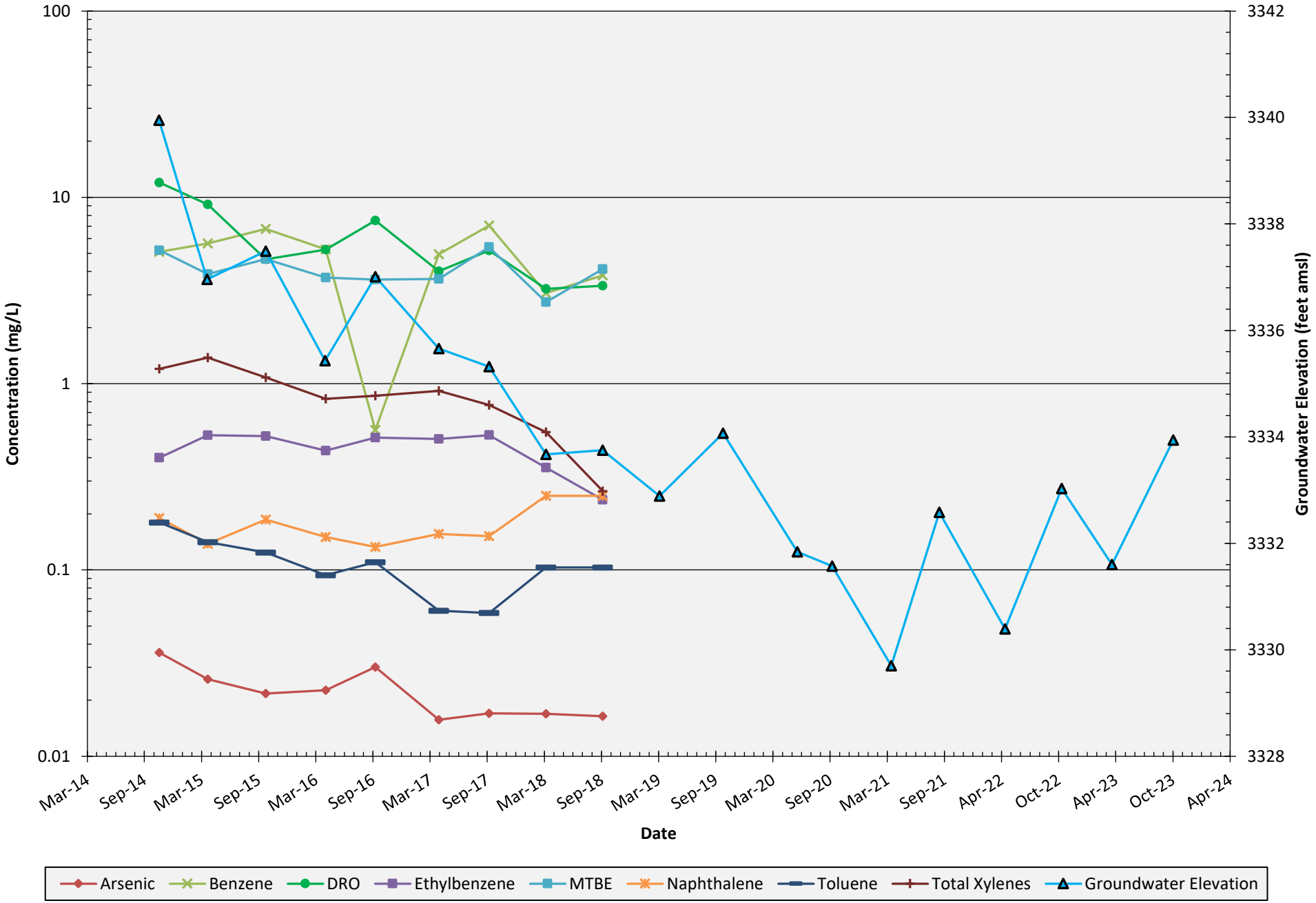


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Received by OCD: 6/12/2024 3:31:05 PM

KWB-10R: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Field East of Refinery

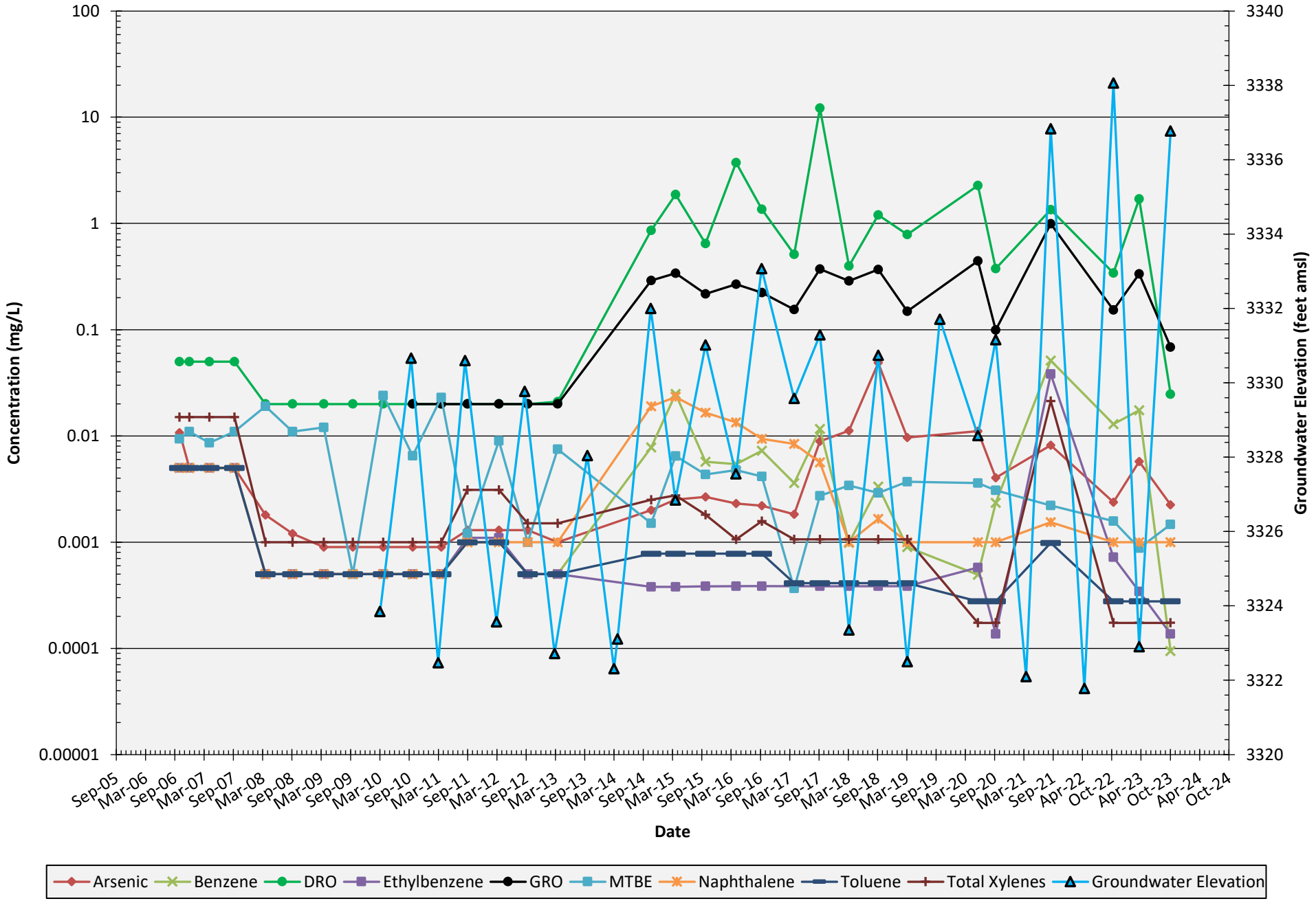


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Received by OCD: 6/12/2024 3:31:05 PM

KWB-11A: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Field East of Refinery

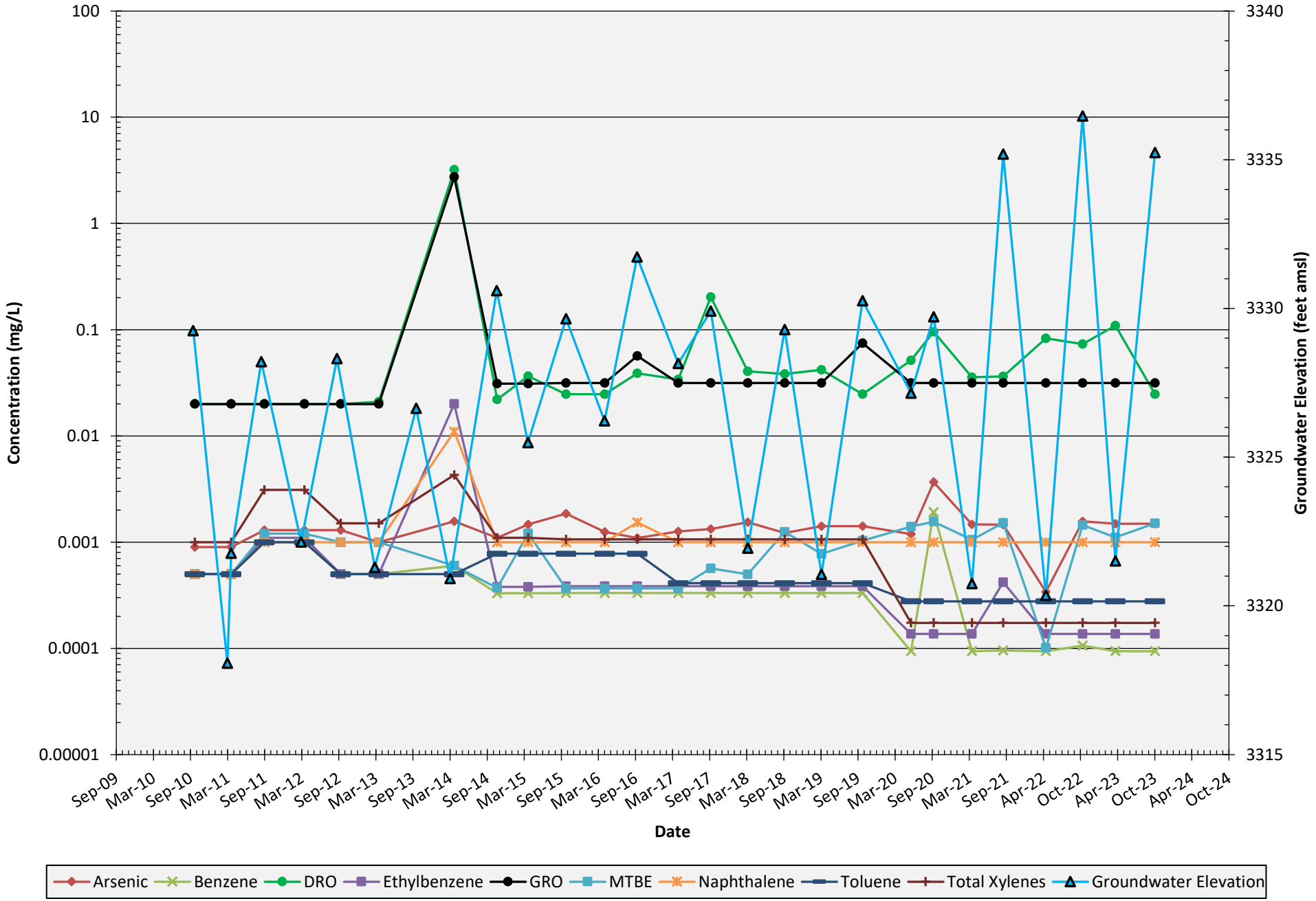


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Received by OCD: 6/12/2024 3:31:05 PM

KWB-11B: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Field East of Refinery

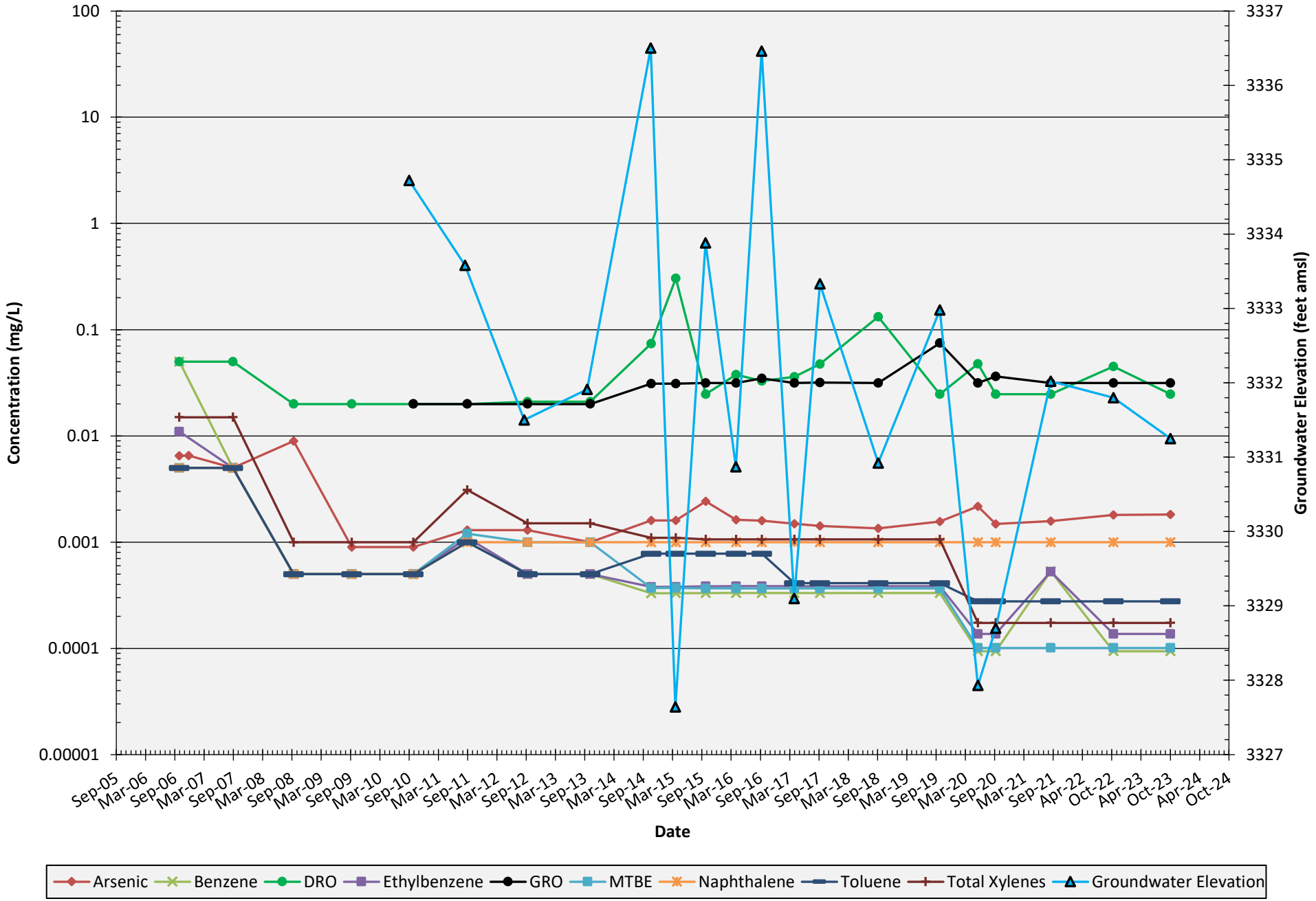


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KWB-12A: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Field East of Refinery

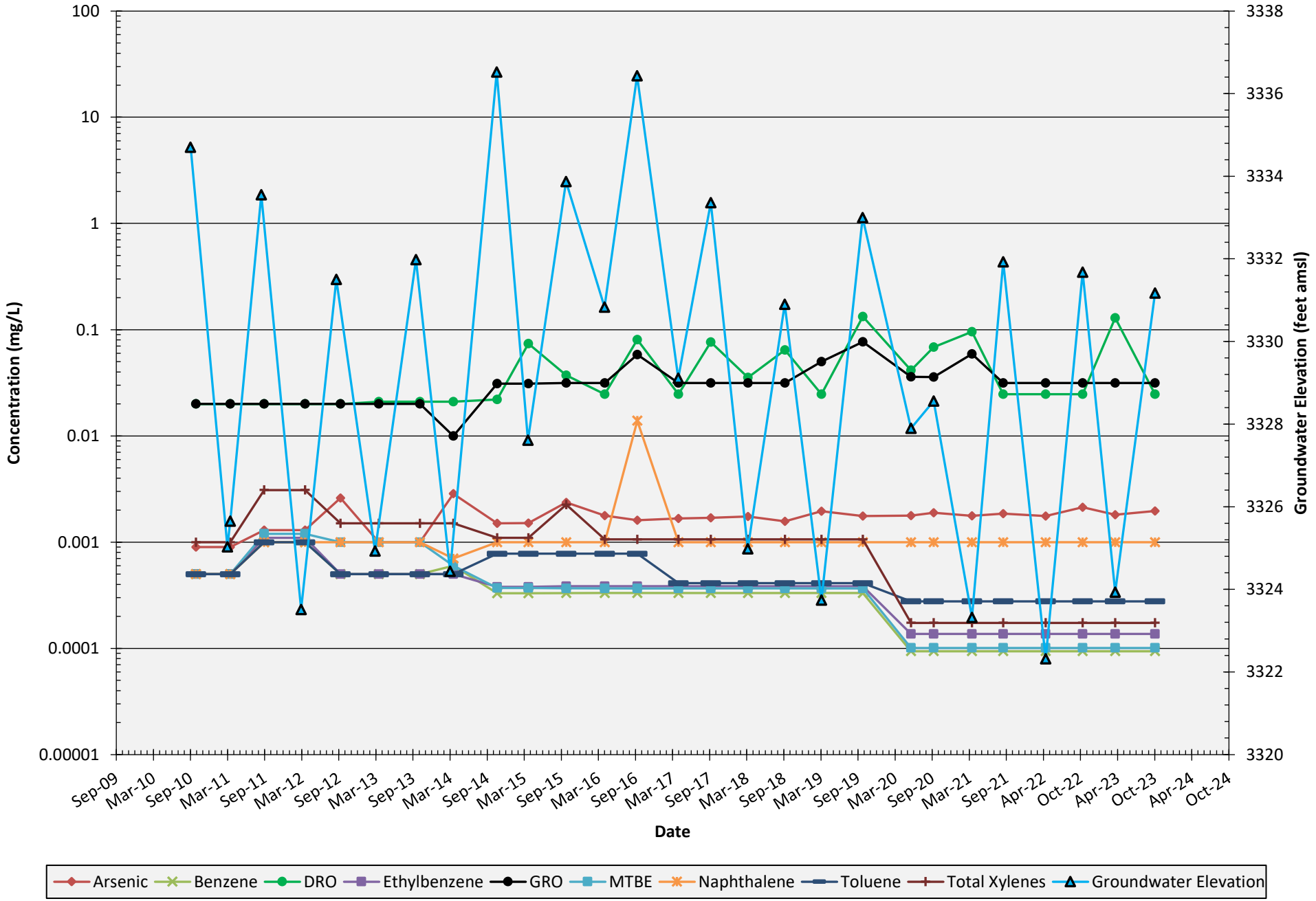


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KWB-12B: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Field East of Refinery

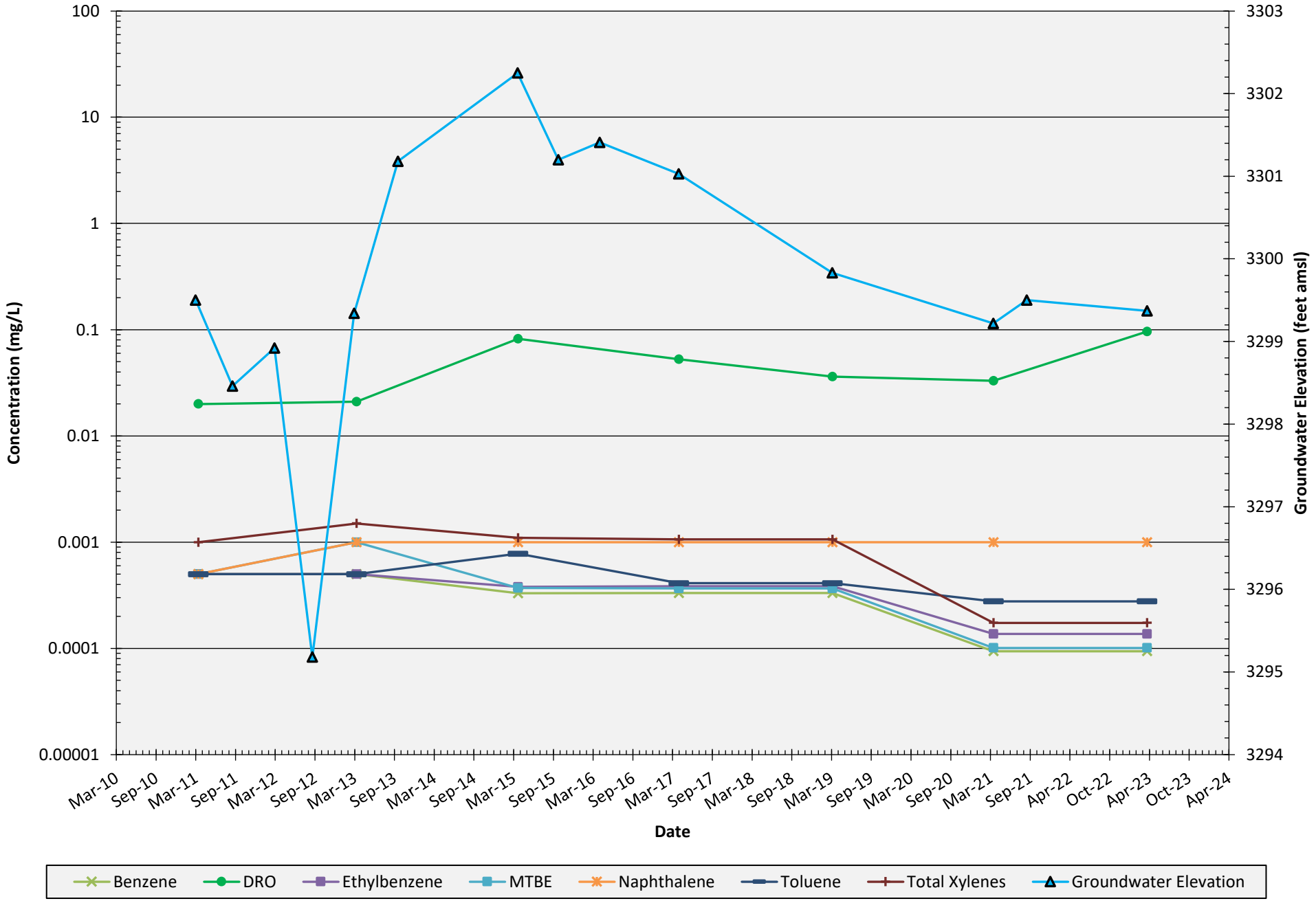


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KWB-P4: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Field East of Refinery

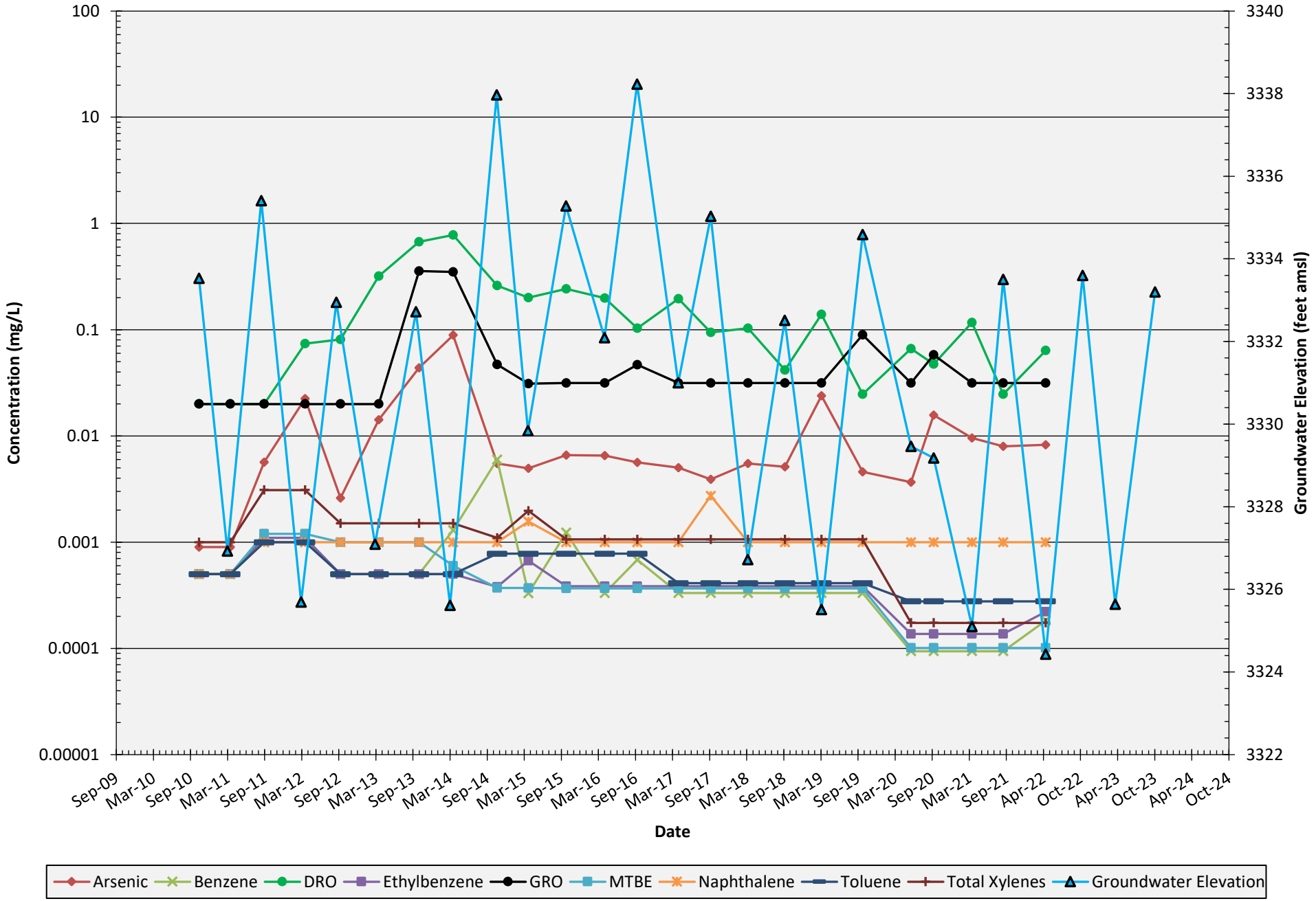


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Received by OCD: 6/12/2024 3:31:05 PM

MW-57: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Field East of Refinery

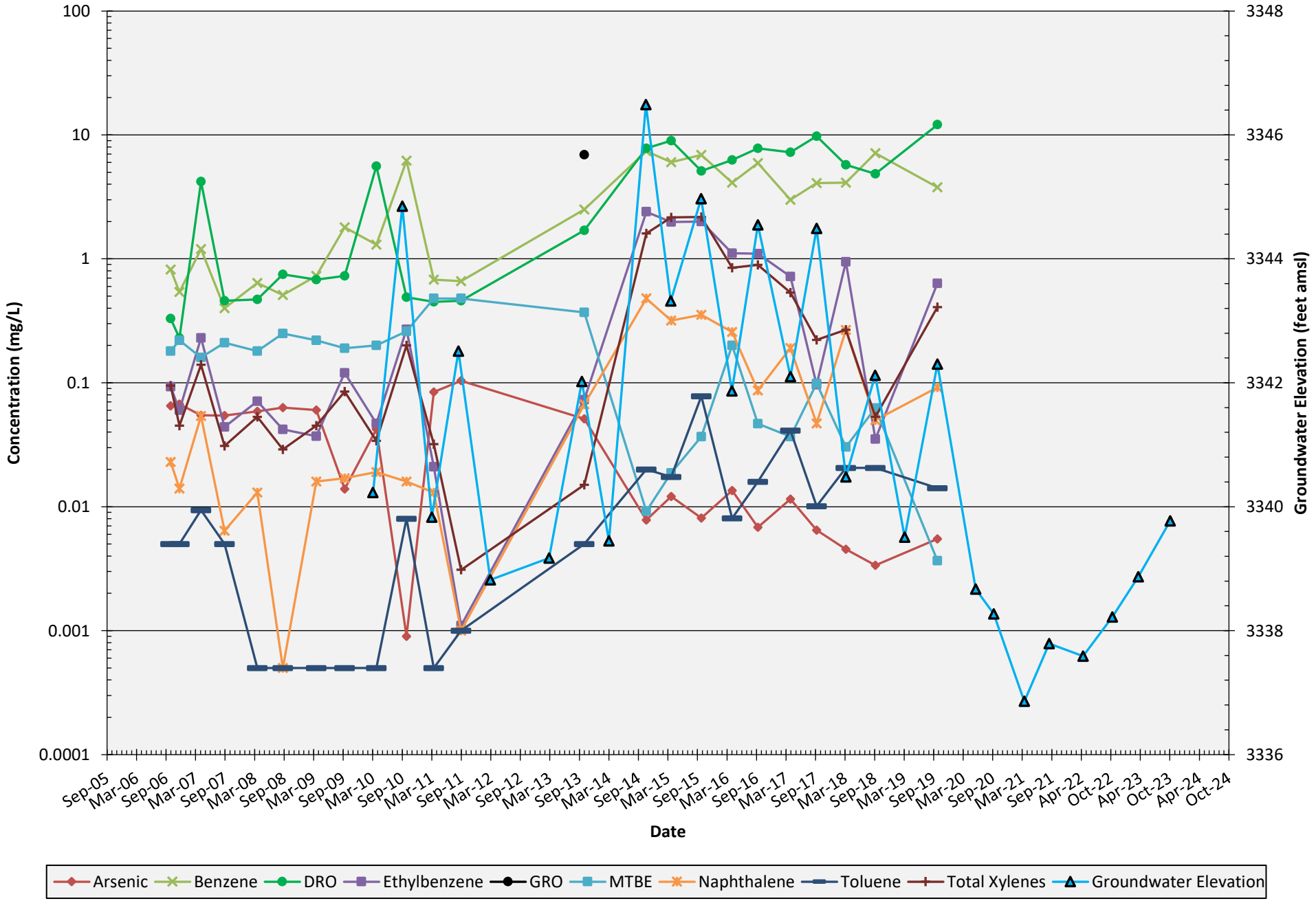


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Received by OCD: 6/12/2024 3:31:05 PM

MW-58: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Field East of Refinery

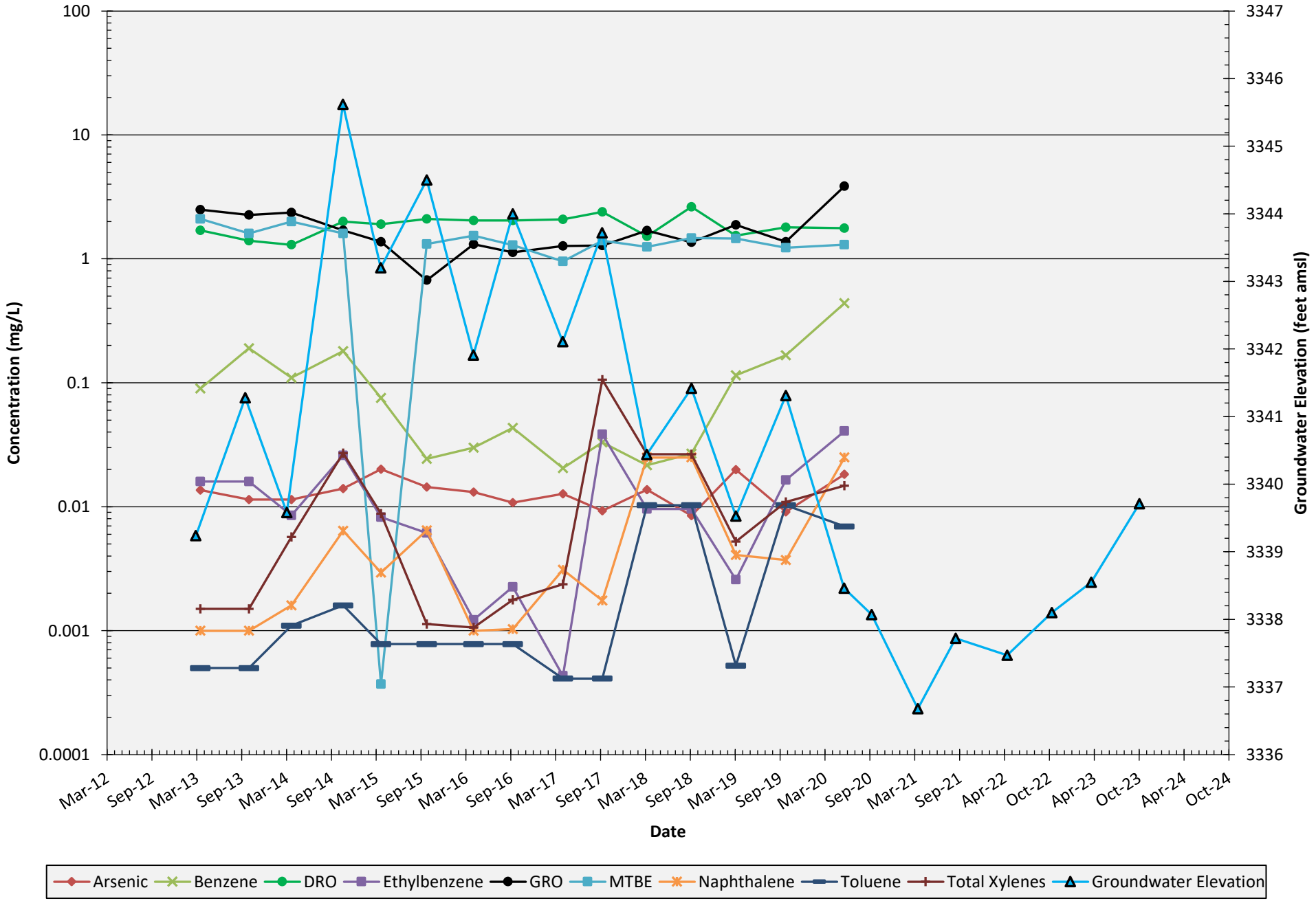


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

MW-111: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Field East of Refinery

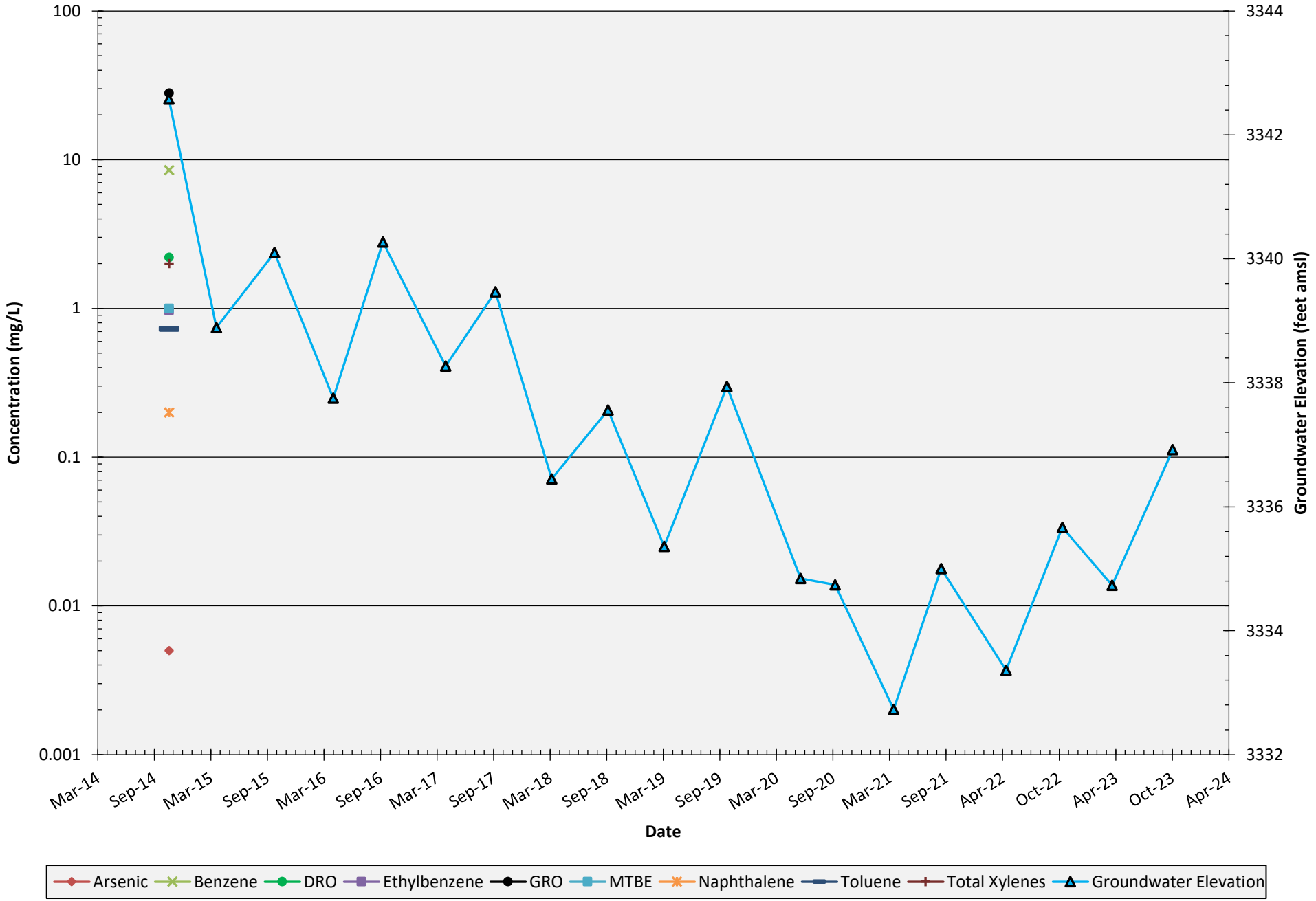


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

MW-112: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Field East of Refinery

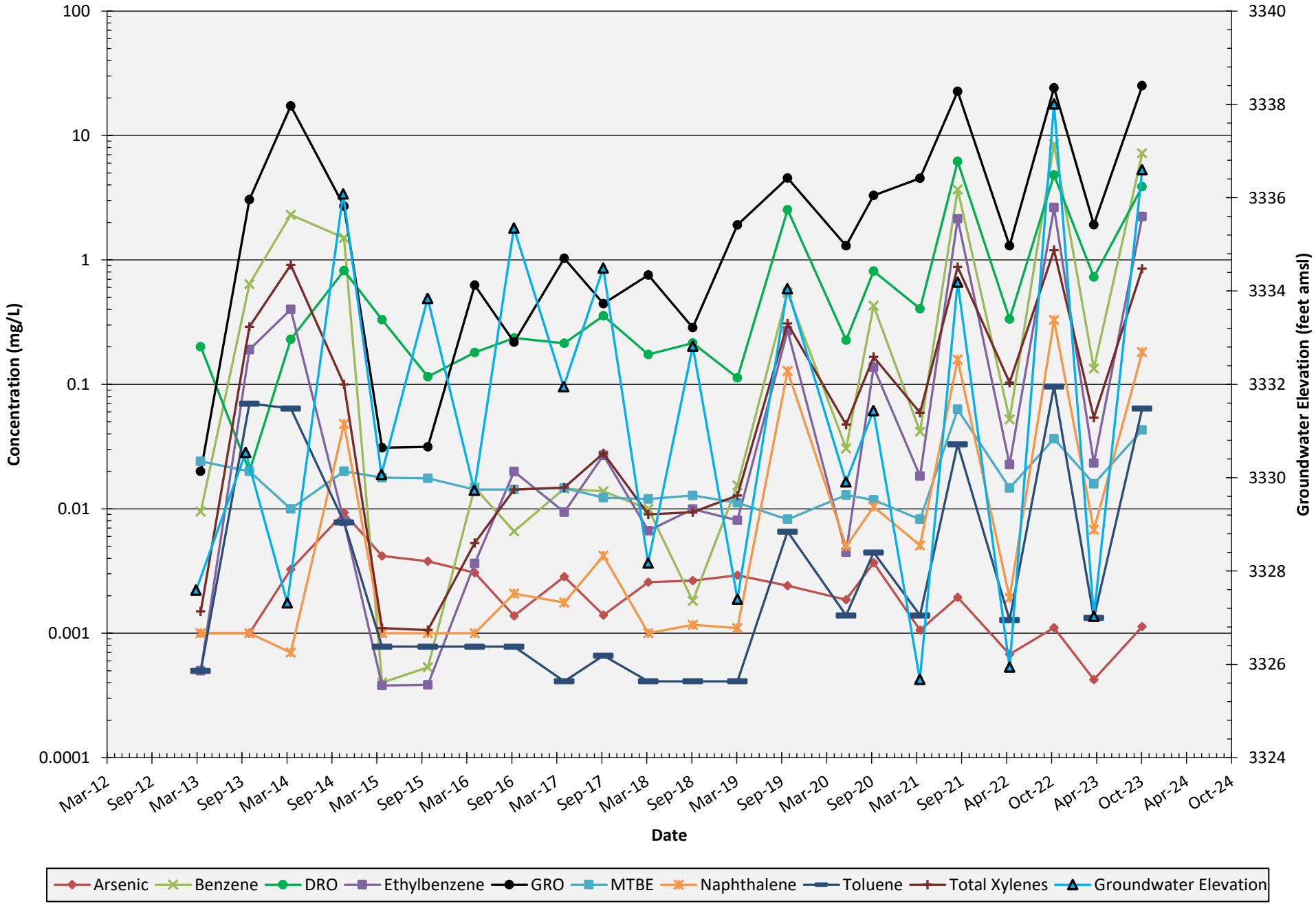


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

MW-113: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Field East of Refinery

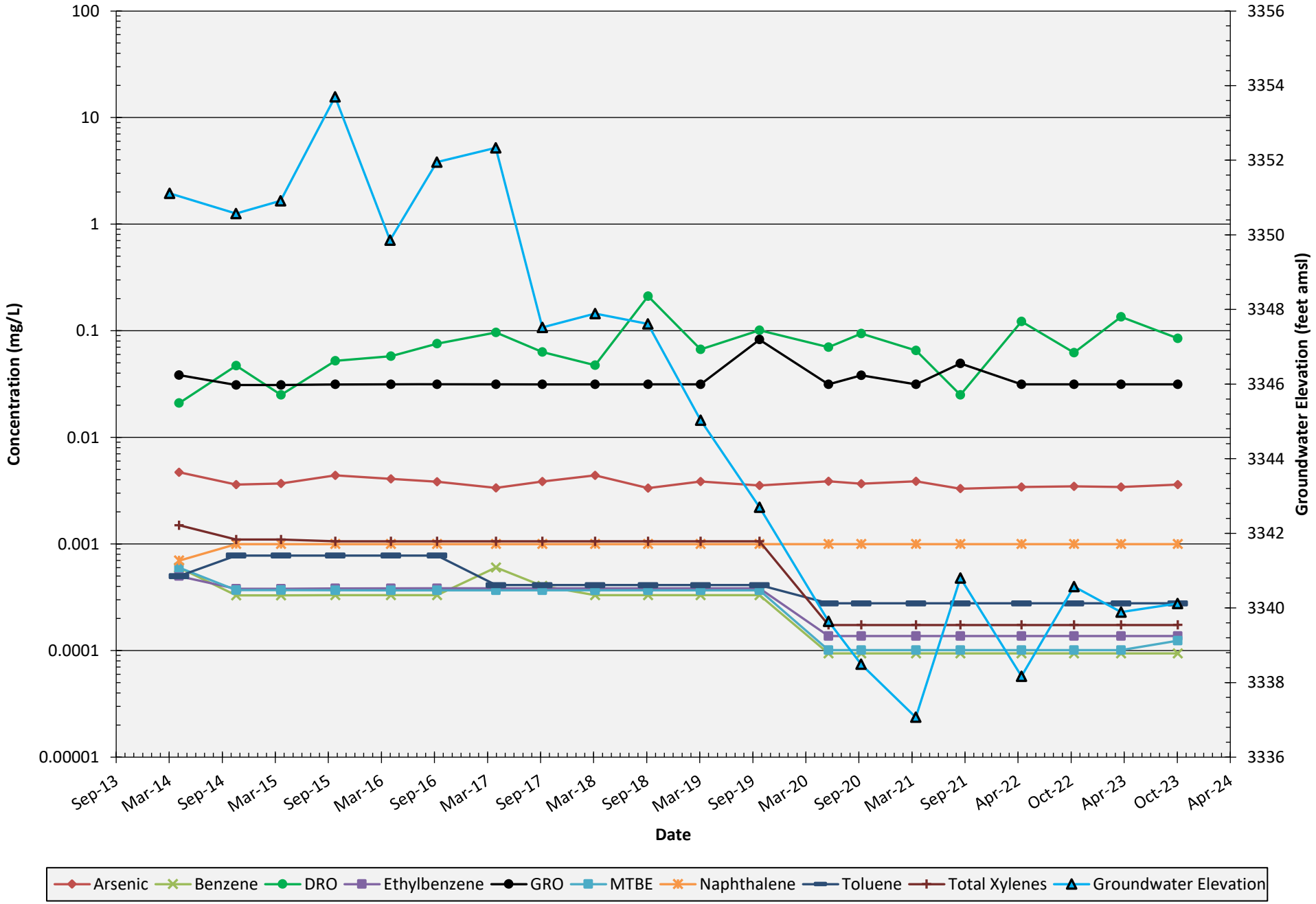


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Received by OCD: 6/12/2024 3:31:05 PM

MW-125: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Field East of Refinery

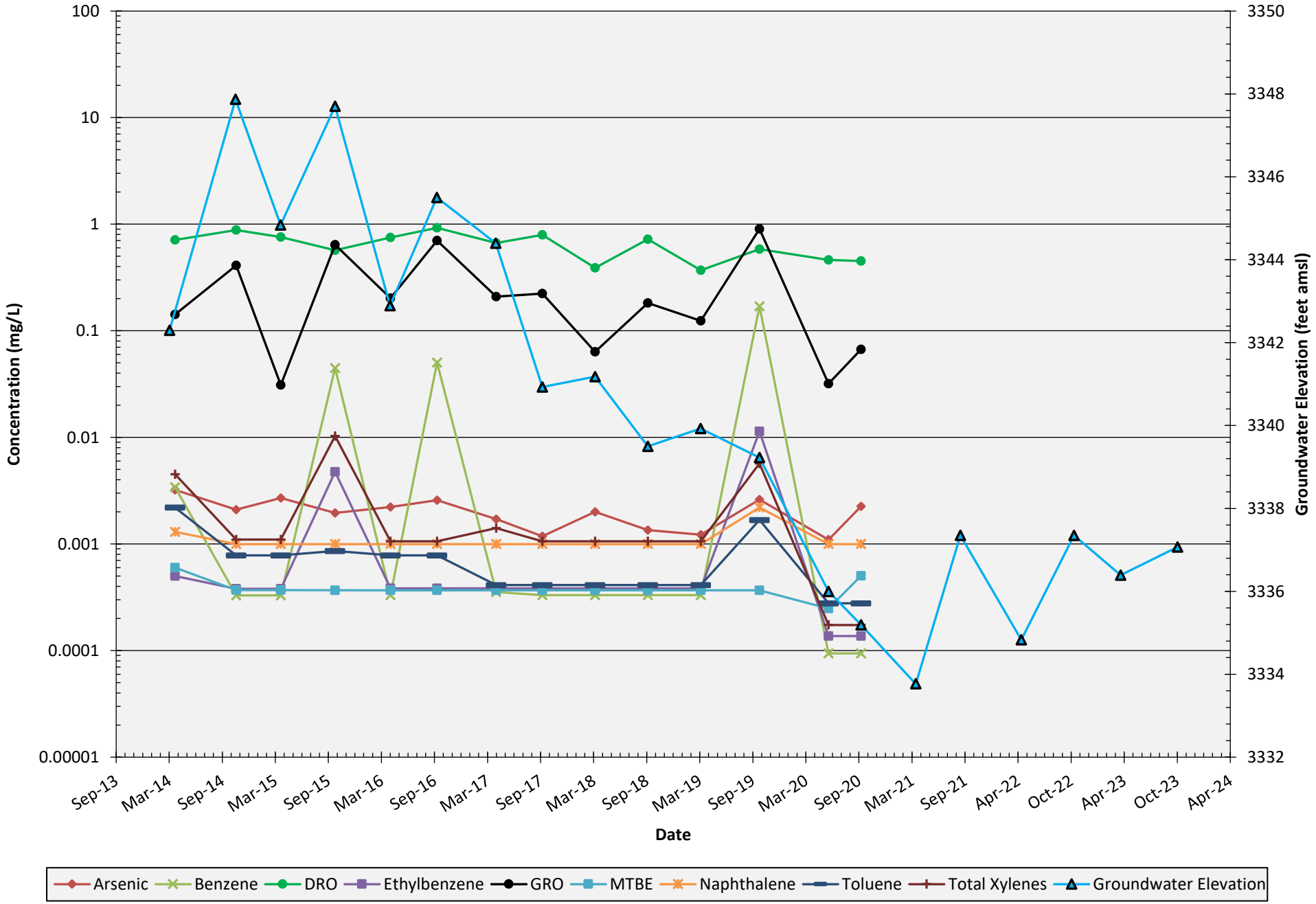


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

MW-126A: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Field East of Refinery

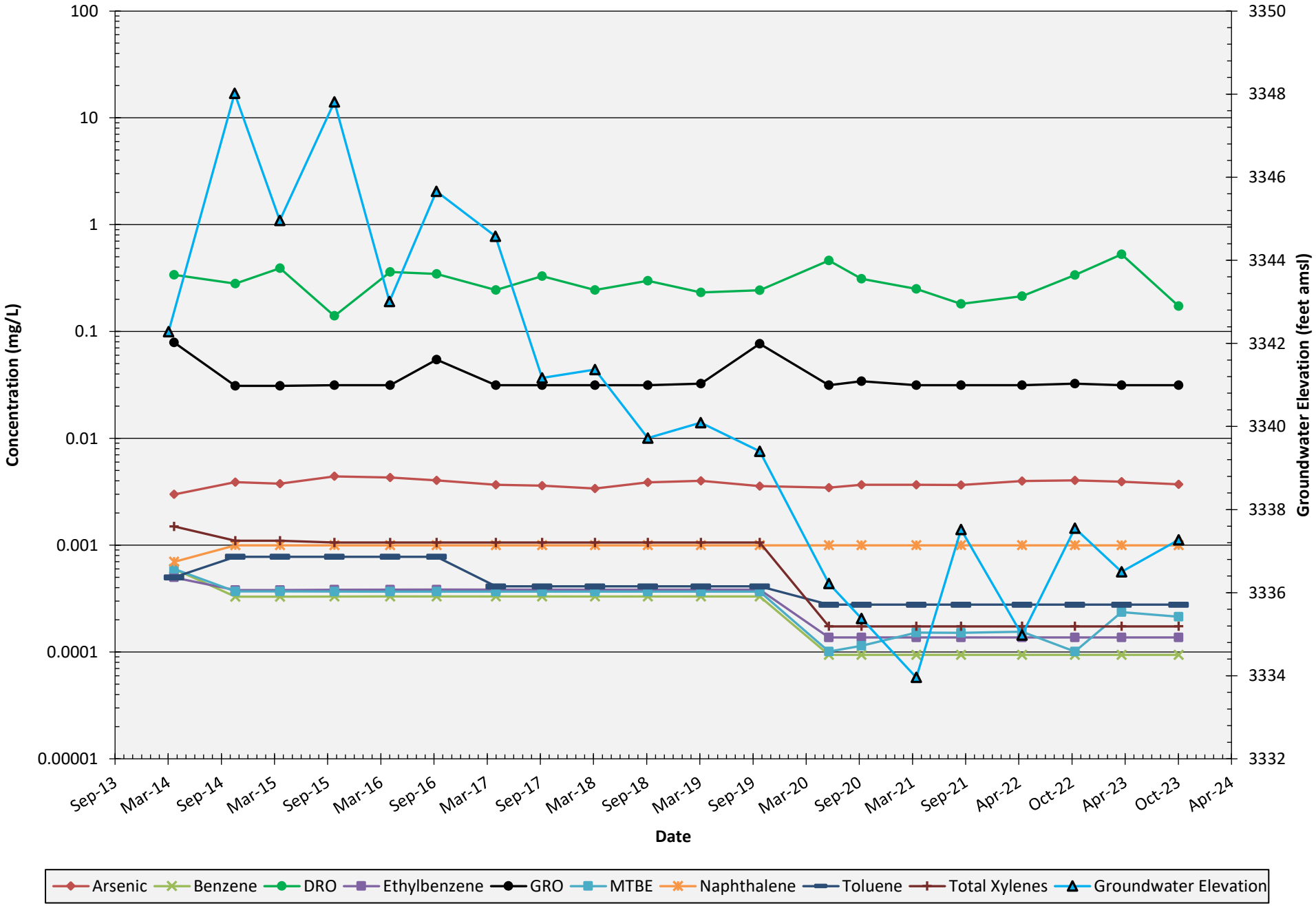


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Received by OCD: 6/12/2024 3:31:05 PM

MW-126B: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Field East of Refinery

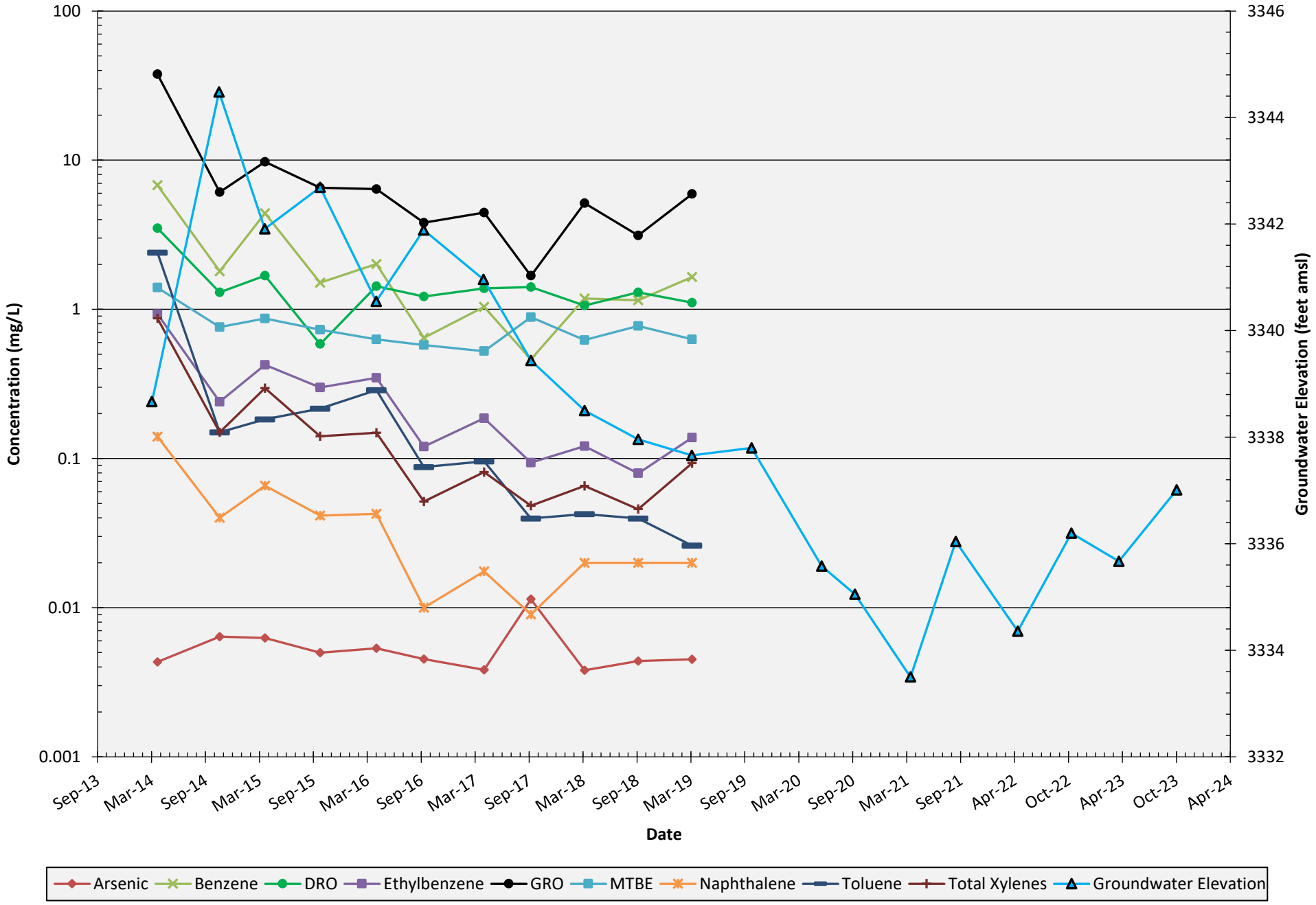


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

MW-127: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Field East of Refinery

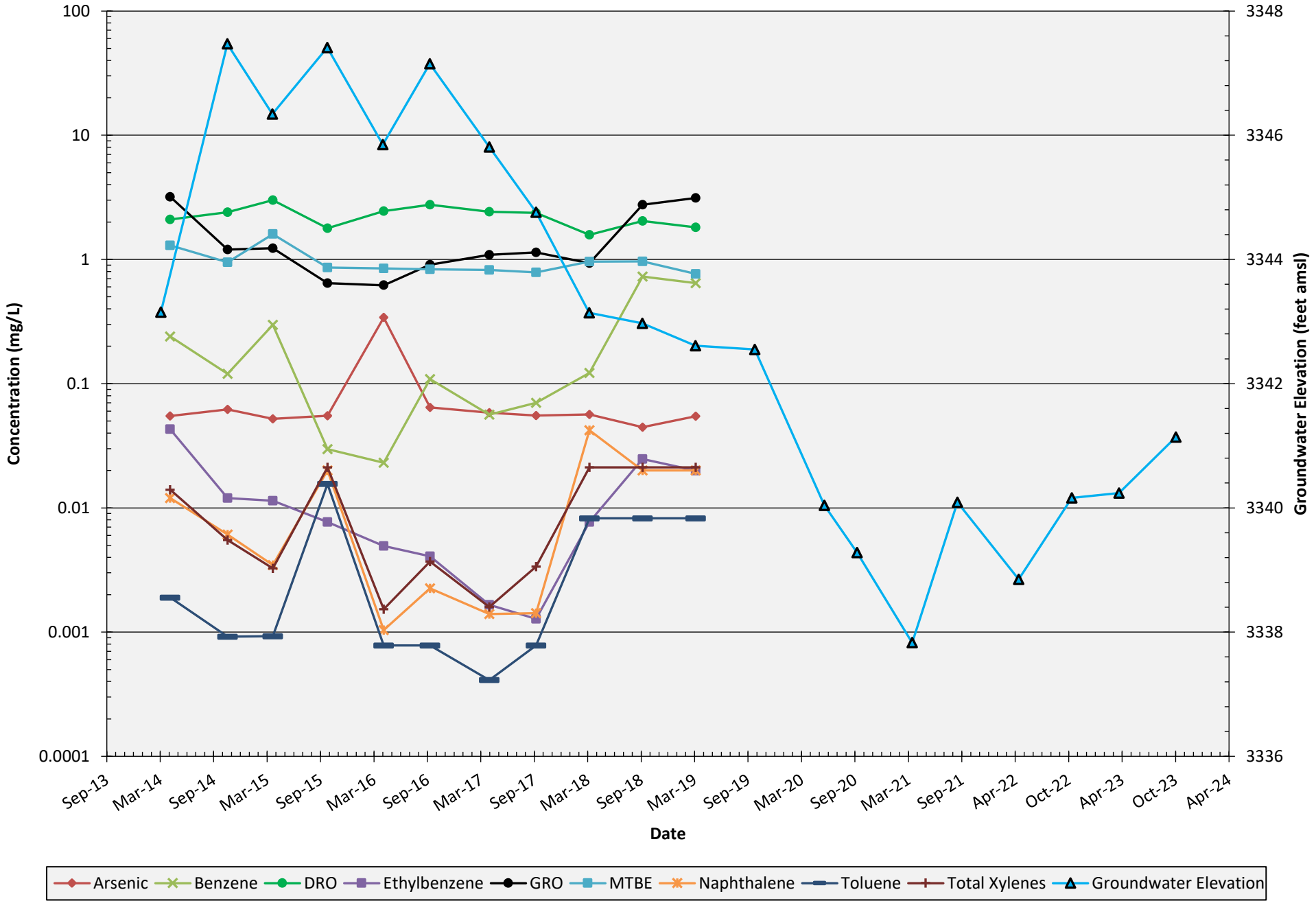


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

MW-128: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Field East of Refinery

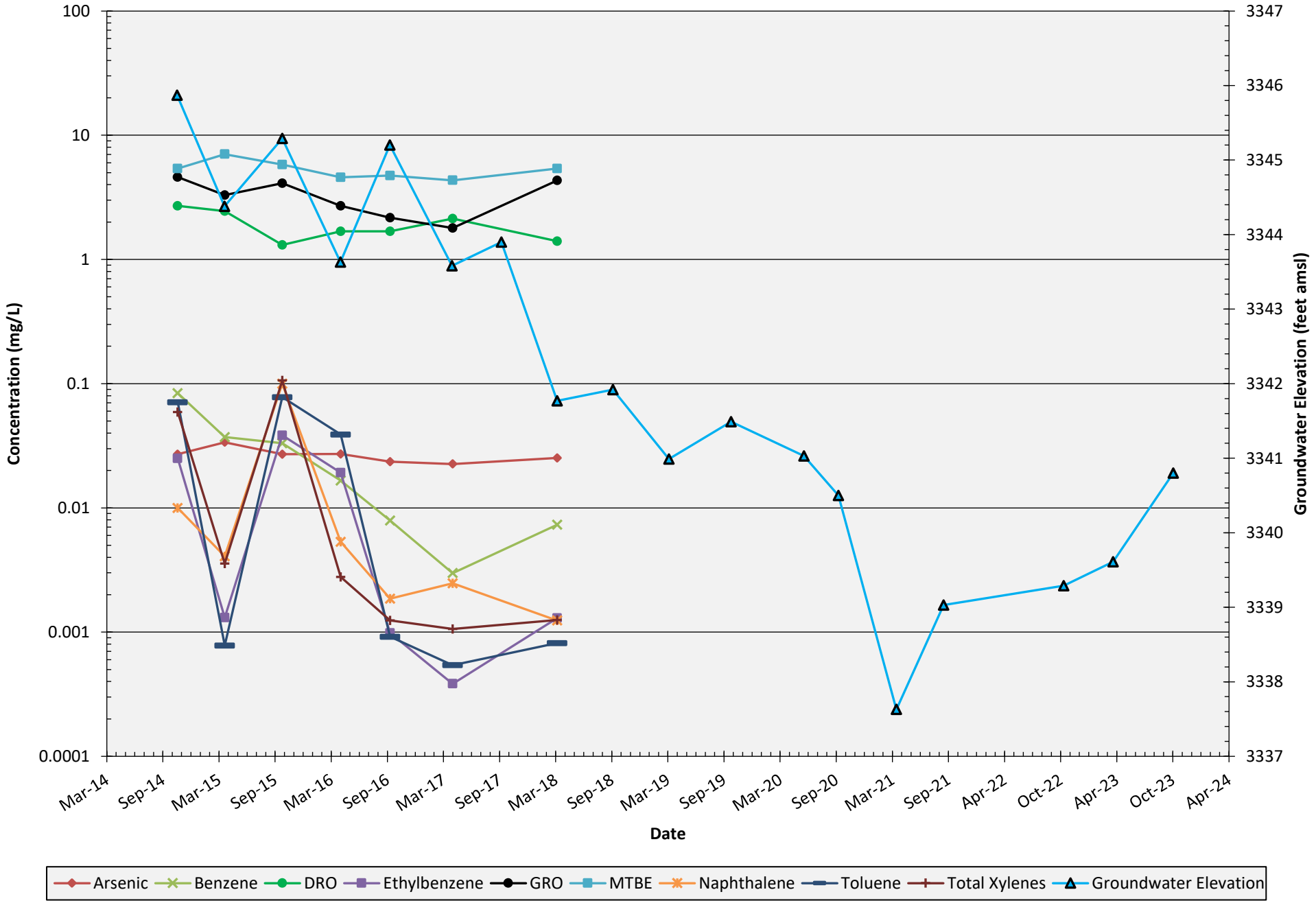


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MW-129: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Field East of Refinery

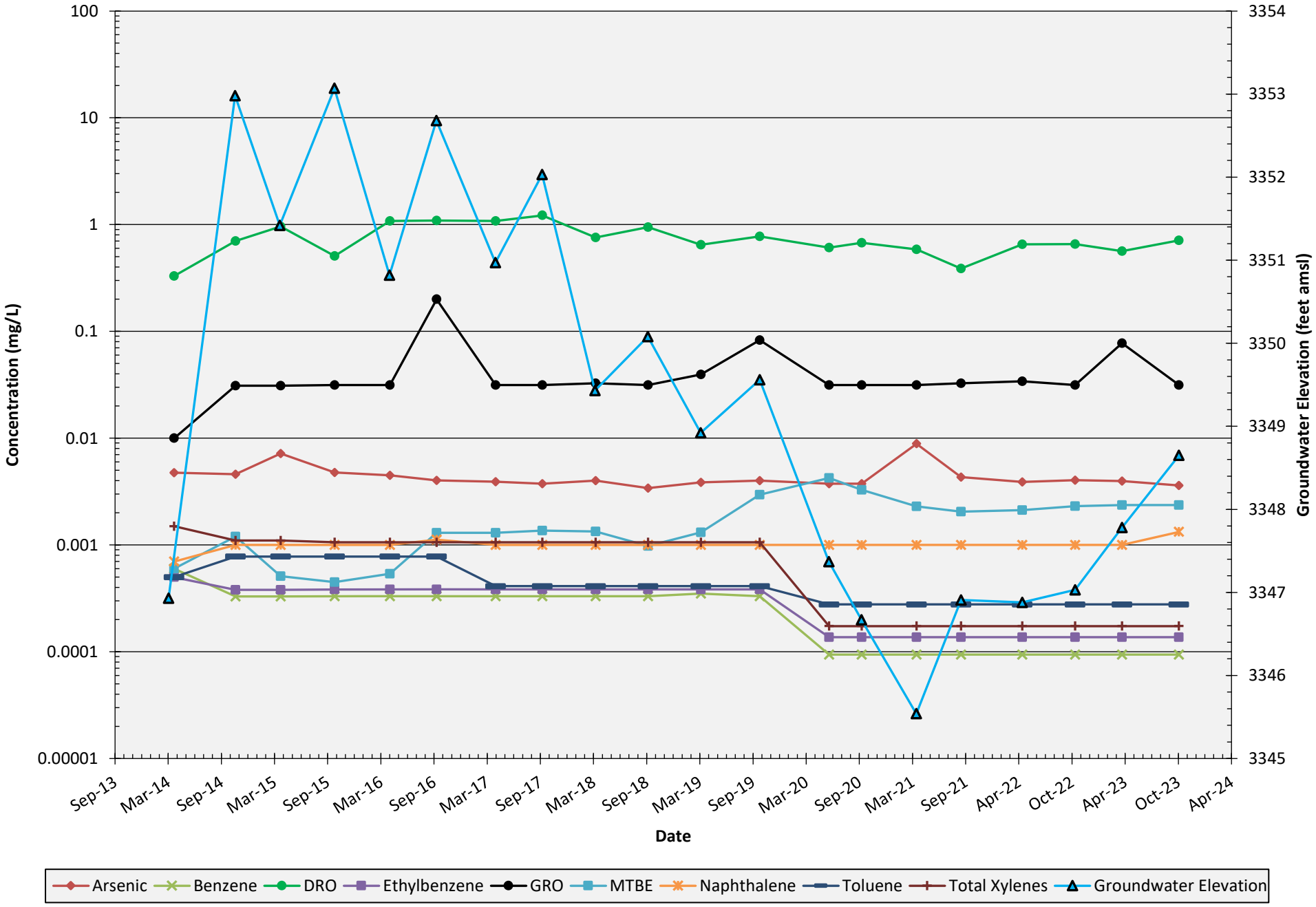


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Received by OCD: 6/12/2024 3:31:05 PM

MW-130: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Field East of Refinery

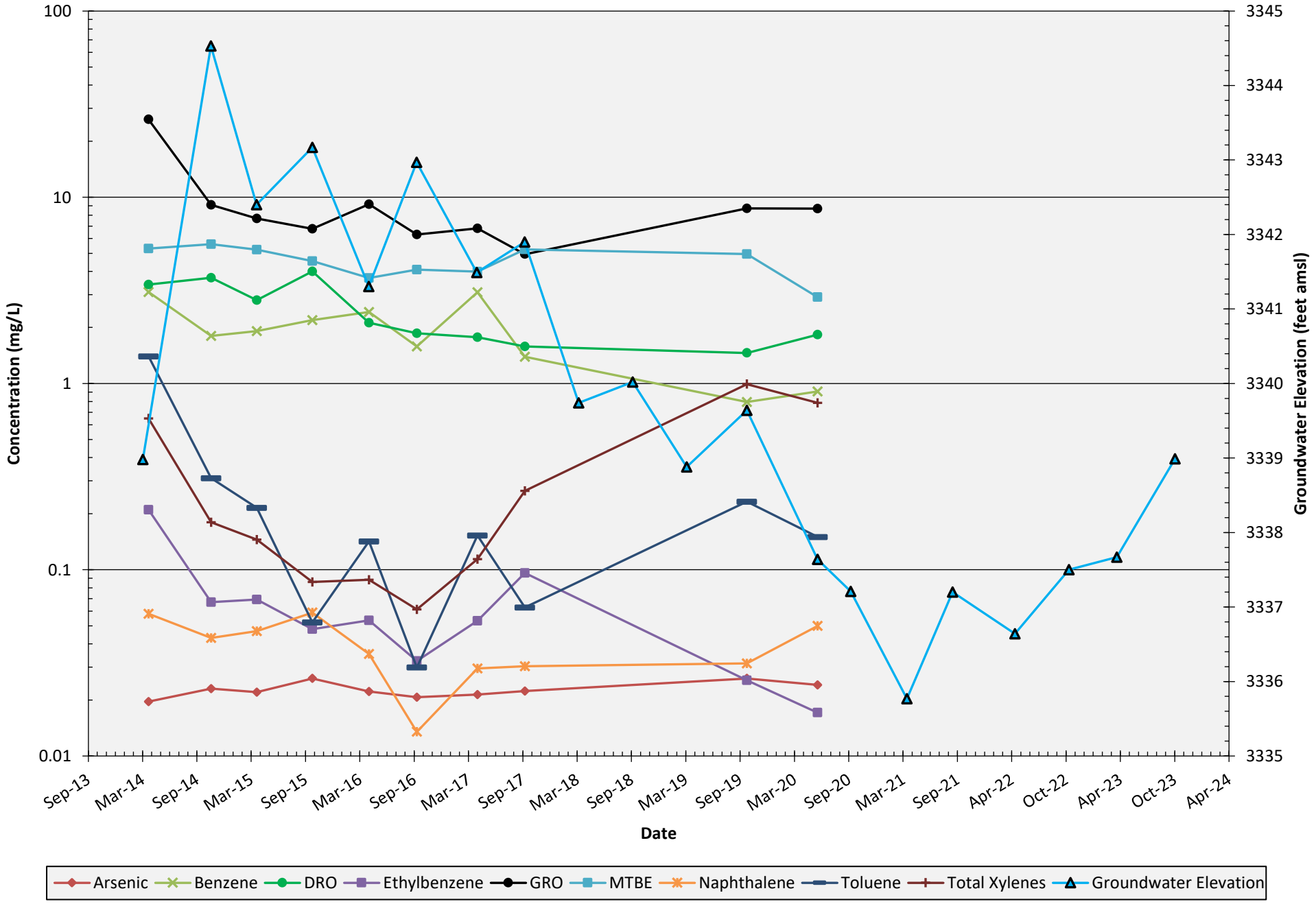


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

MW-131: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Field East of Refinery

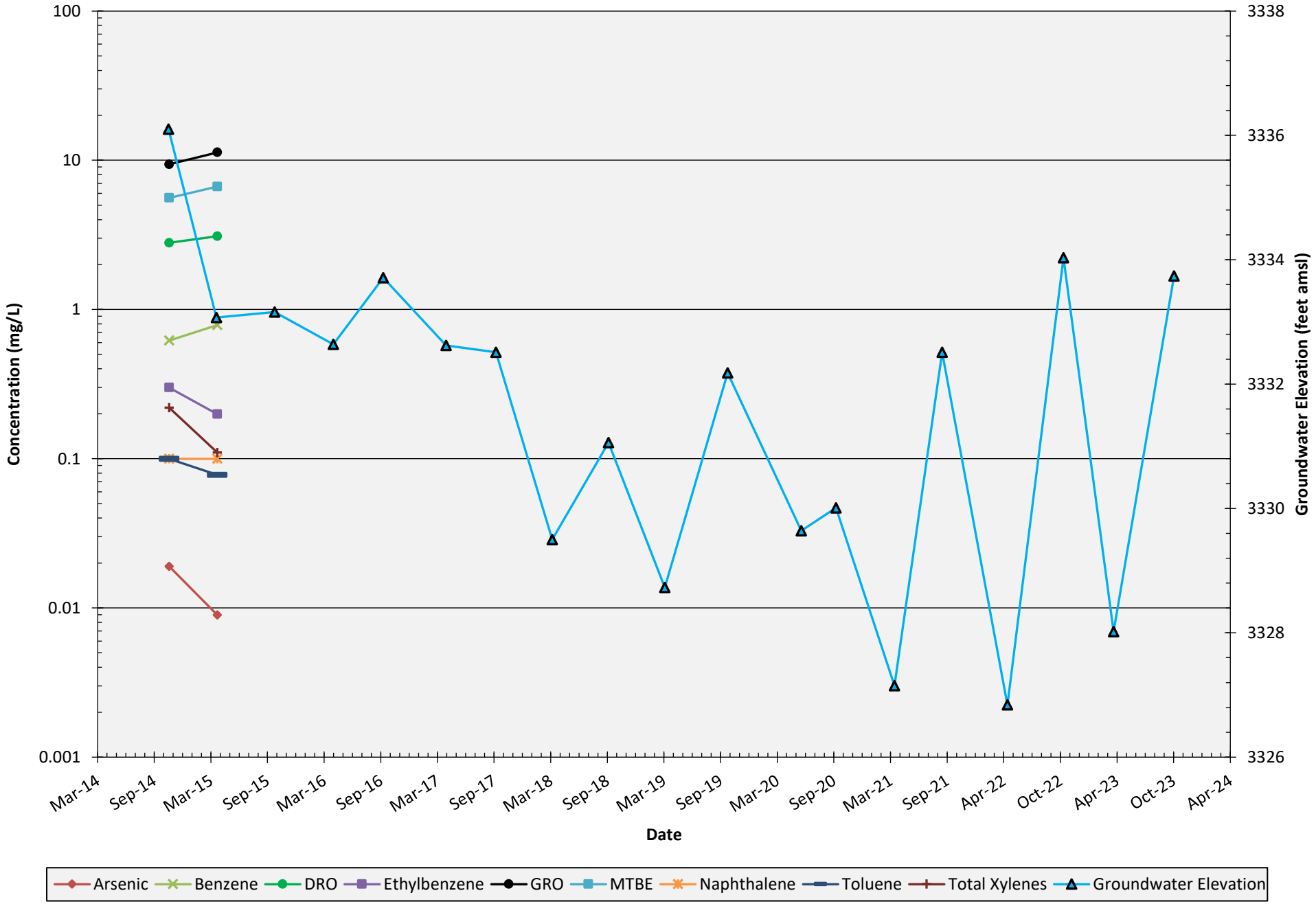


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Received by OCD: 6/12/2024 3:31:05 PM

MW-133: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Field East of Refinery

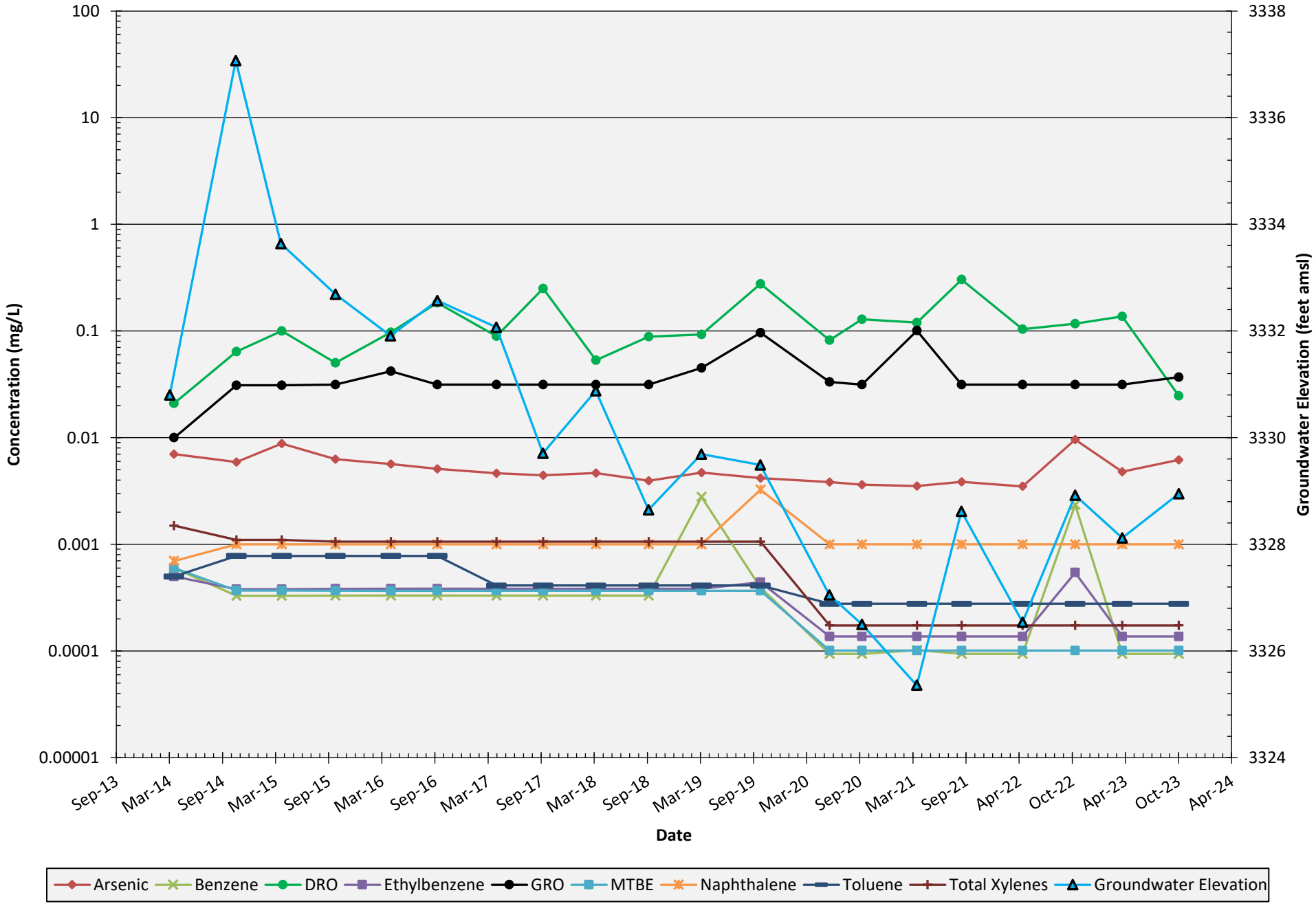


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Received by OCD: 6/12/2024 3:31:05 PM

MW-134: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Field East of Refinery

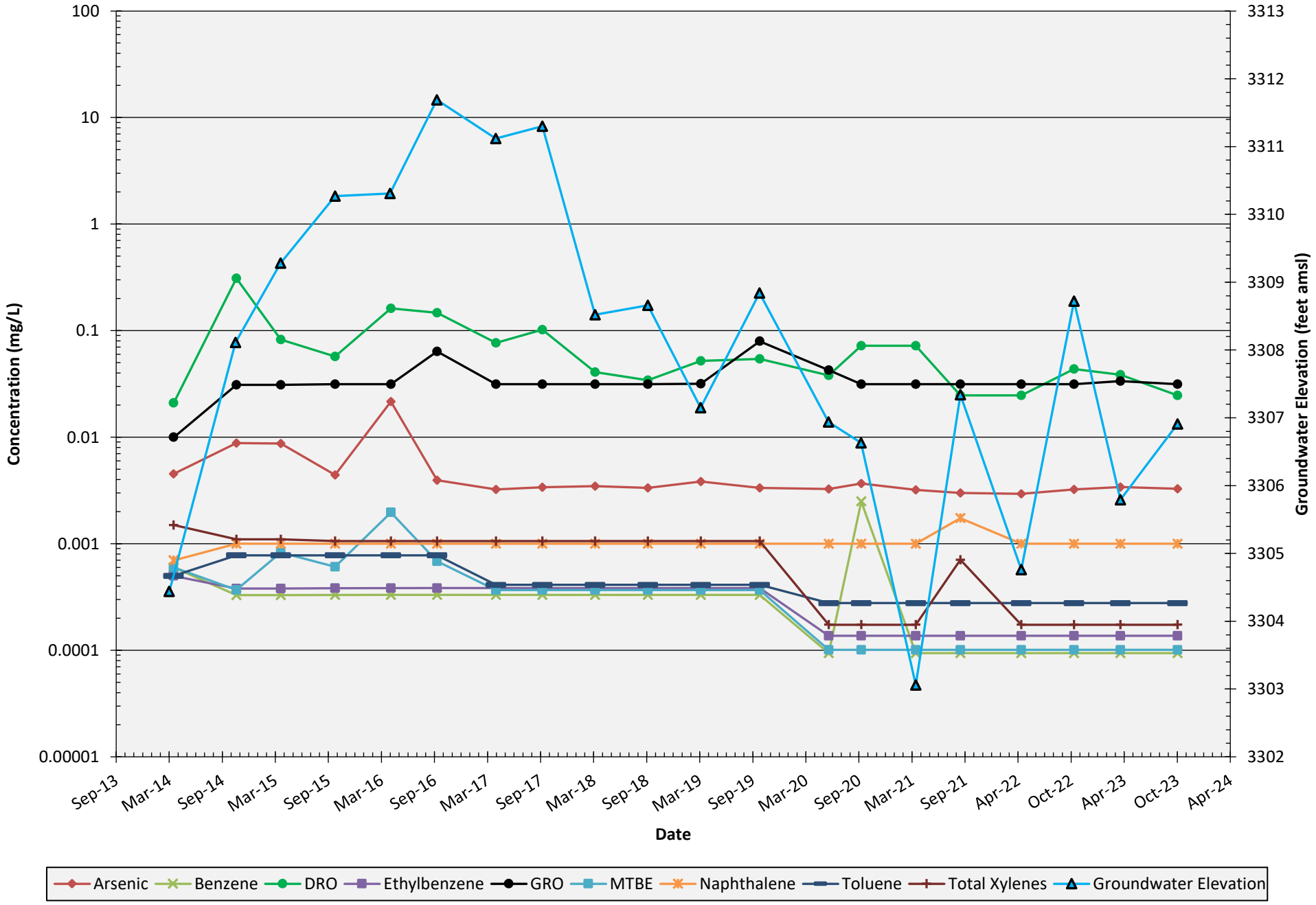


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Received by OCD: 6/12/2024 3:31:05 PM

MW-135: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Field East of Refinery

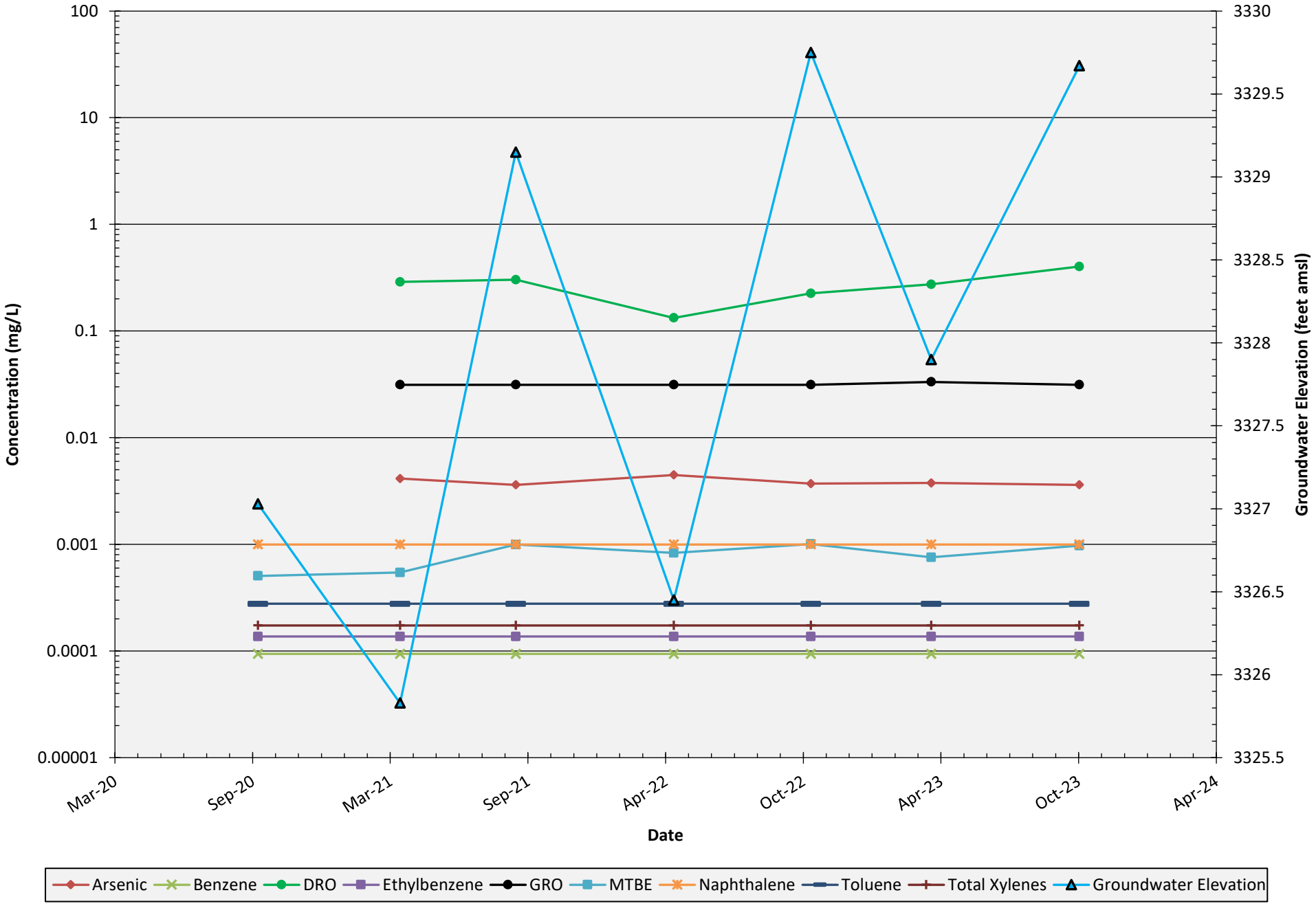


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

MW-145: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Field East of Refinery

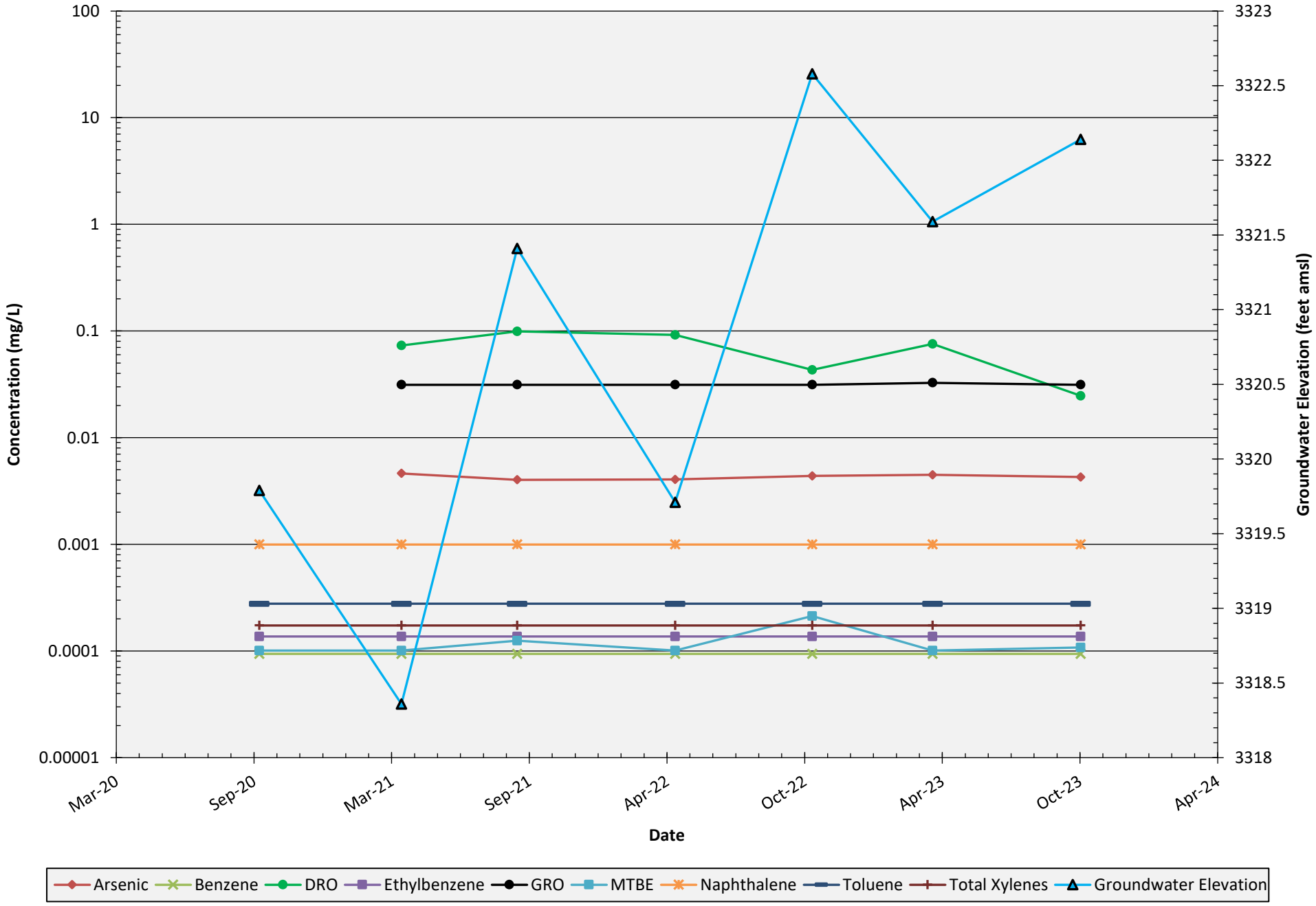


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

MW-146: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Field East of Refinery

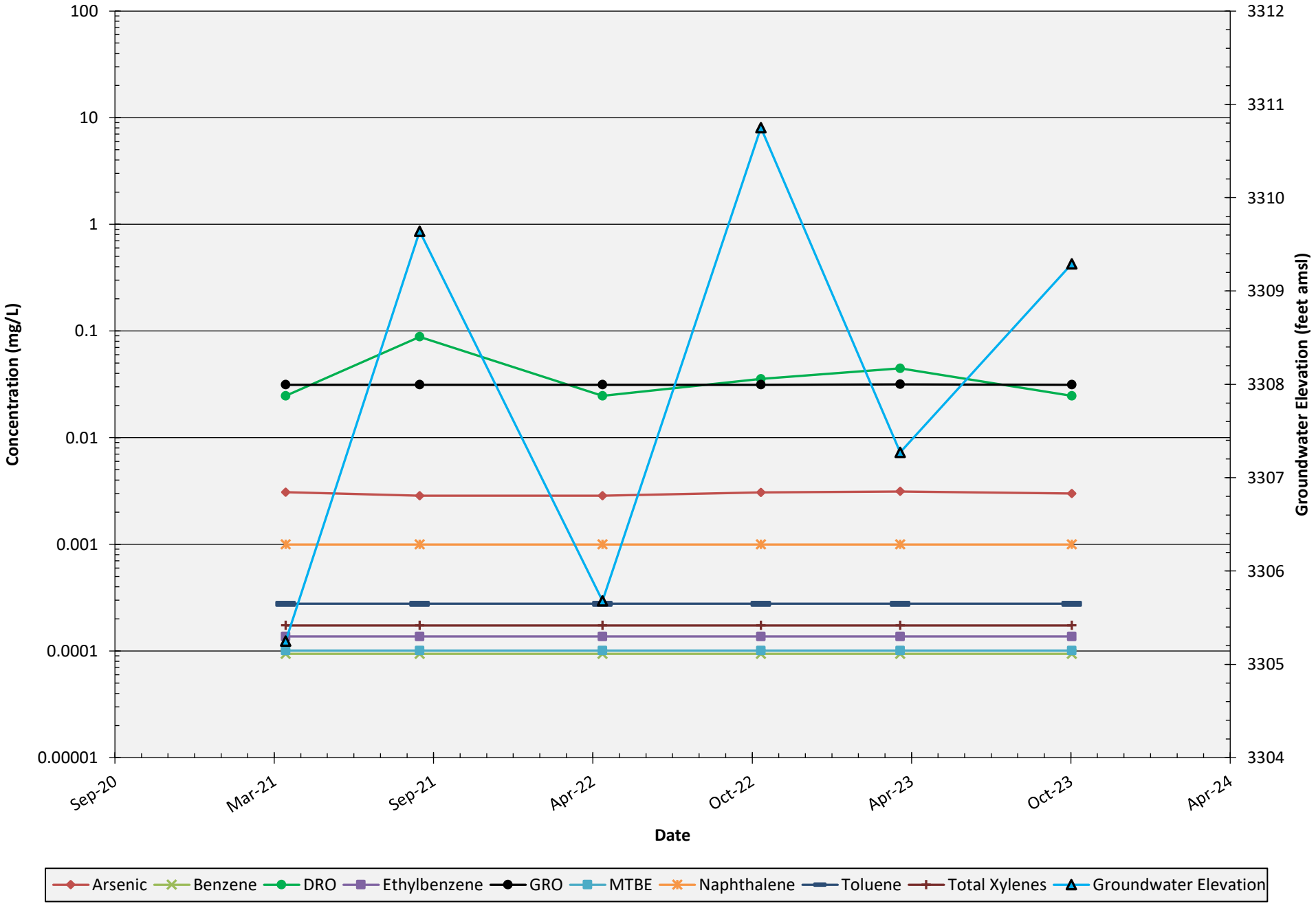


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

MW-147: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Field East of Refinery

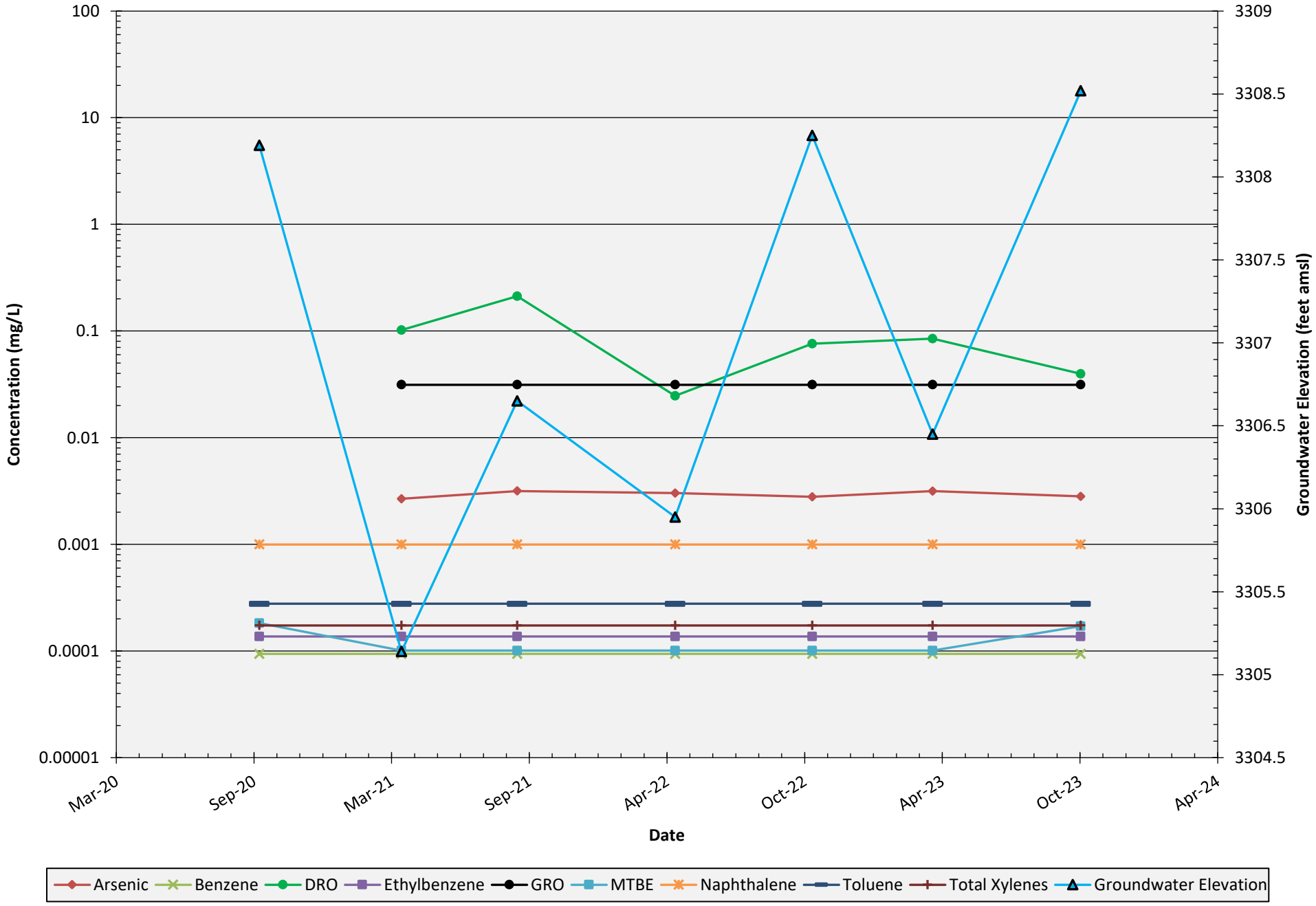


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

MW-148: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Field East of Refinery

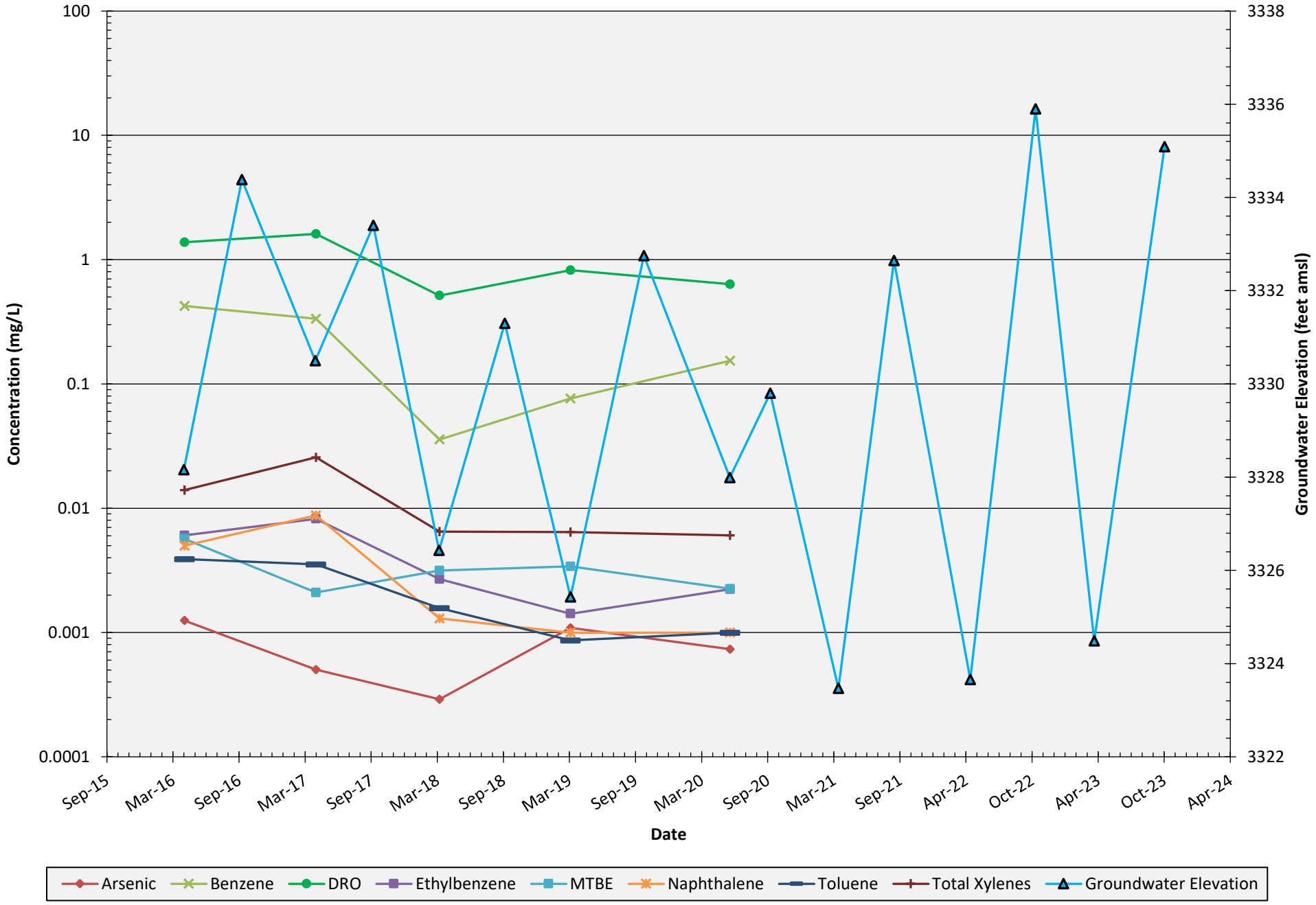


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

RW-12R: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Field East of Refinery

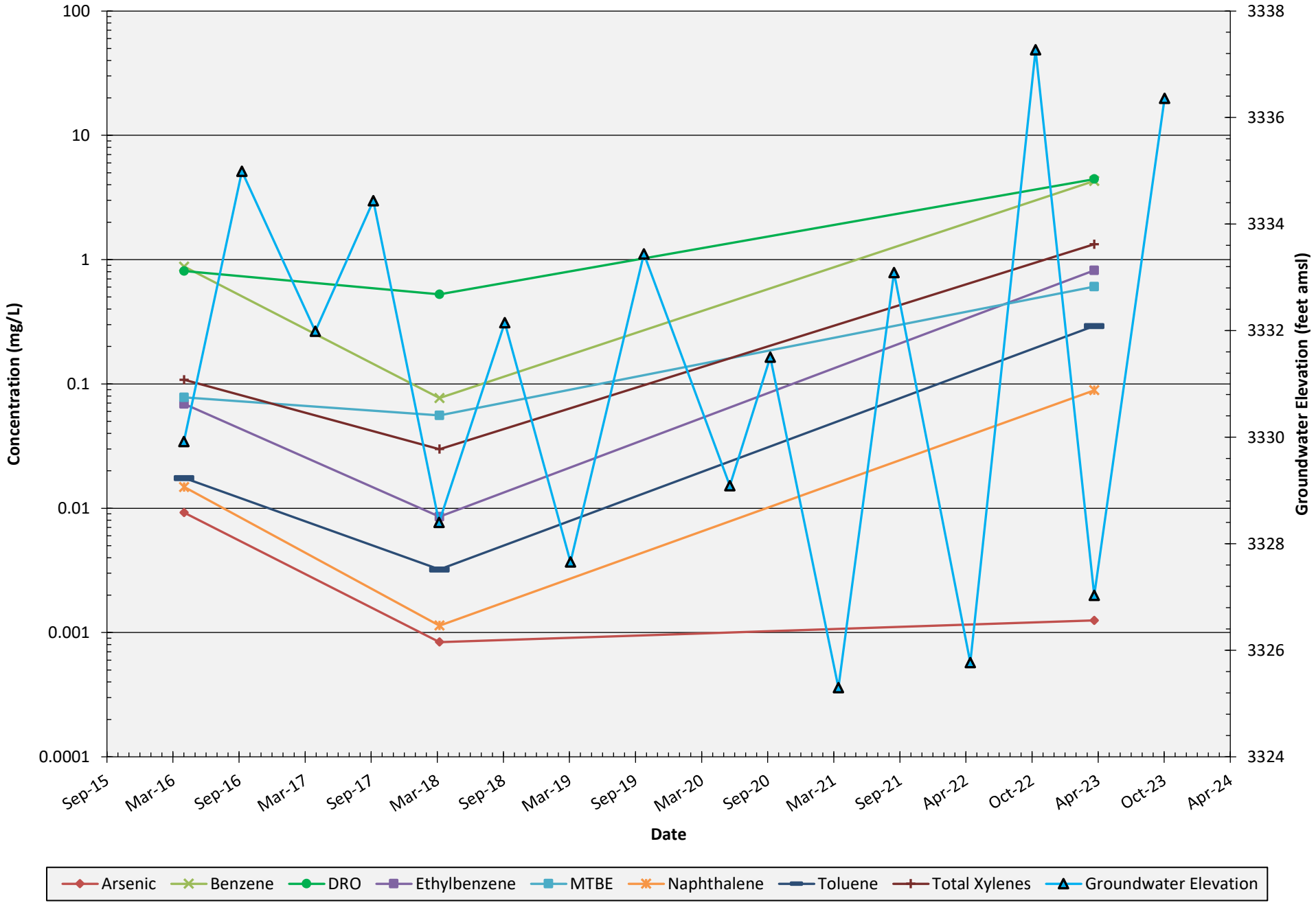


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RW-13R: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Field East of Refinery

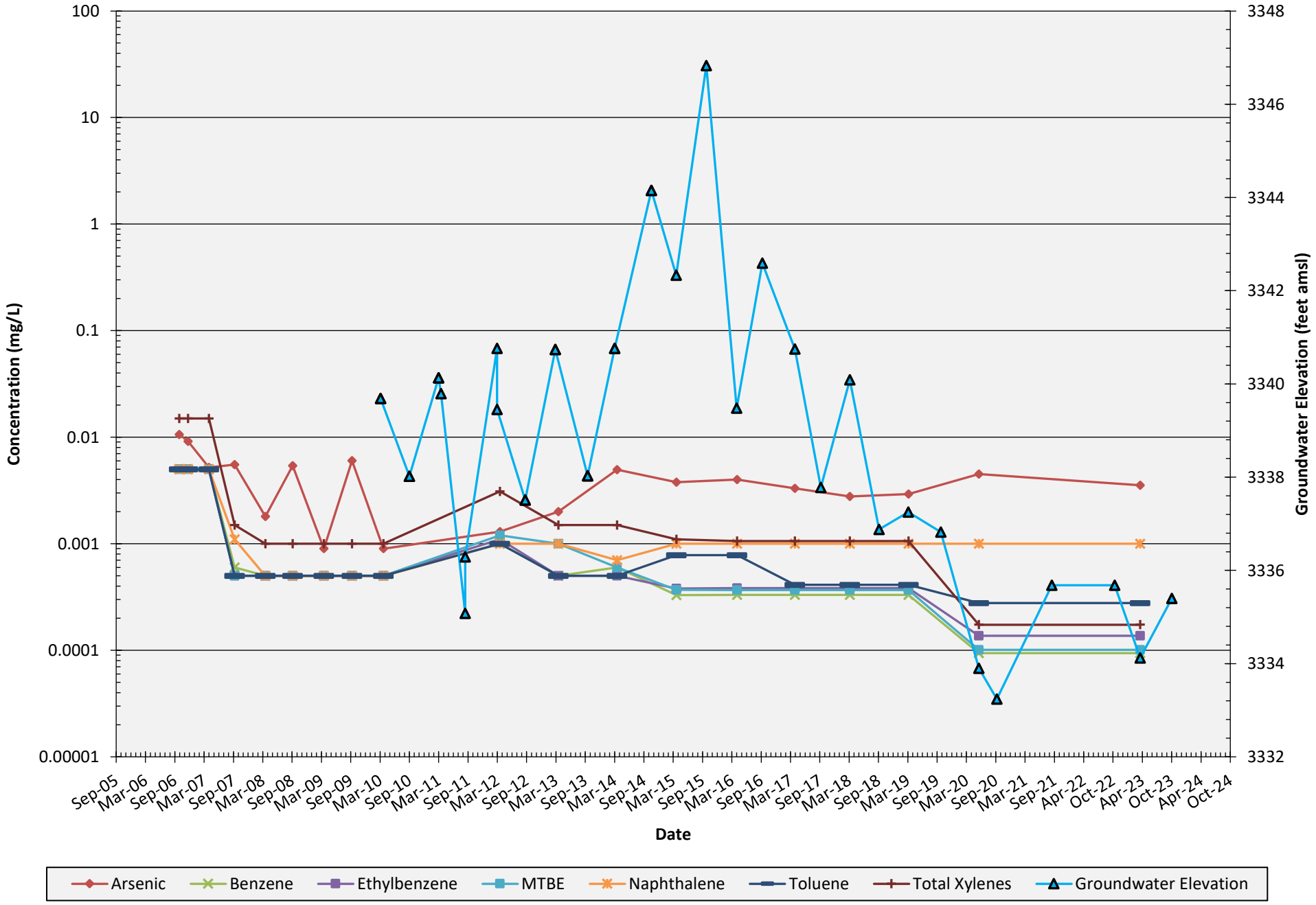


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Received by OCD: 6/12/2024 3:31:05 PM

RW-18: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Field East of Refinery

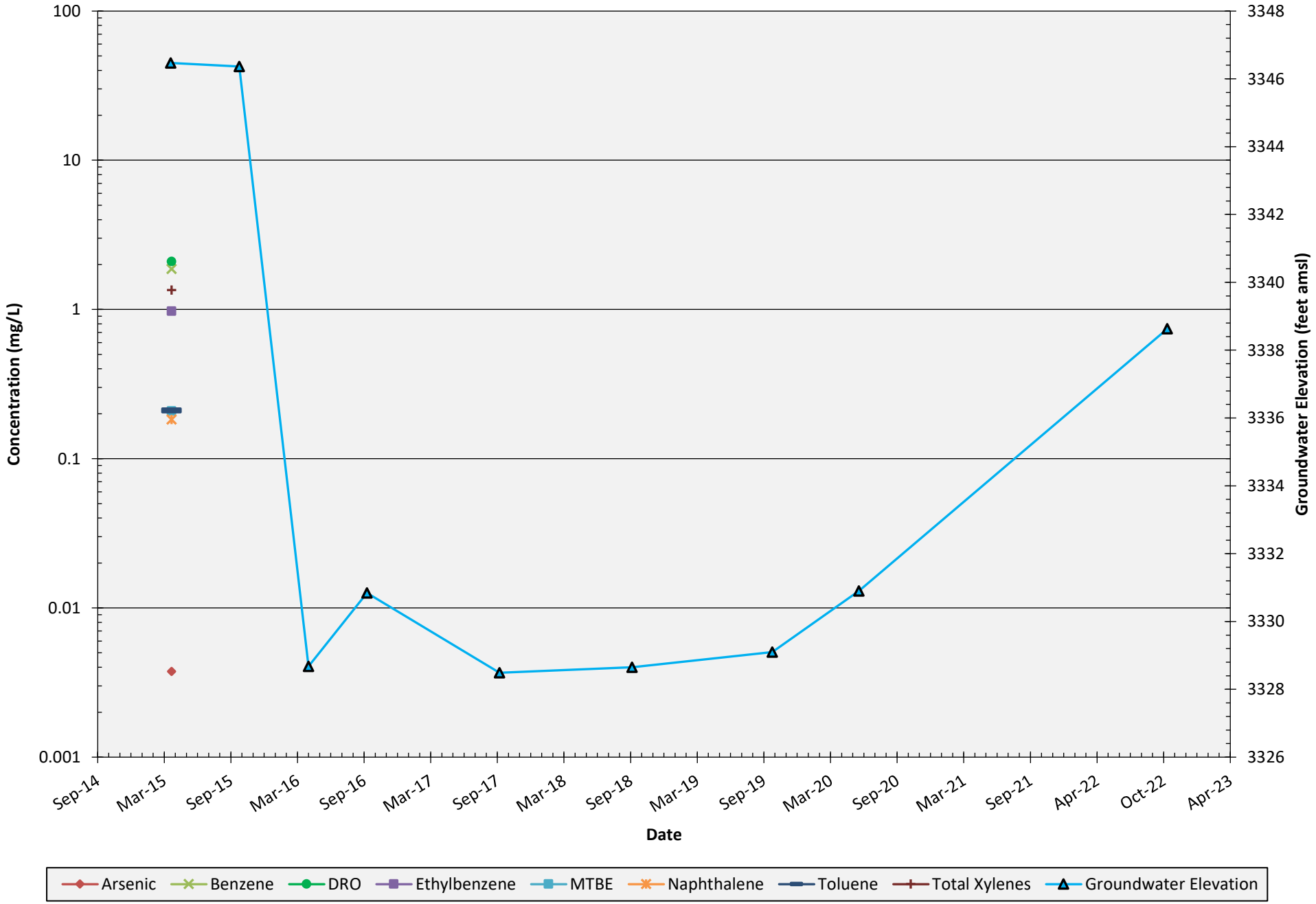


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Received by OCD: 6/12/2024 3:31:05 PM

RW-20: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Field East of Refinery

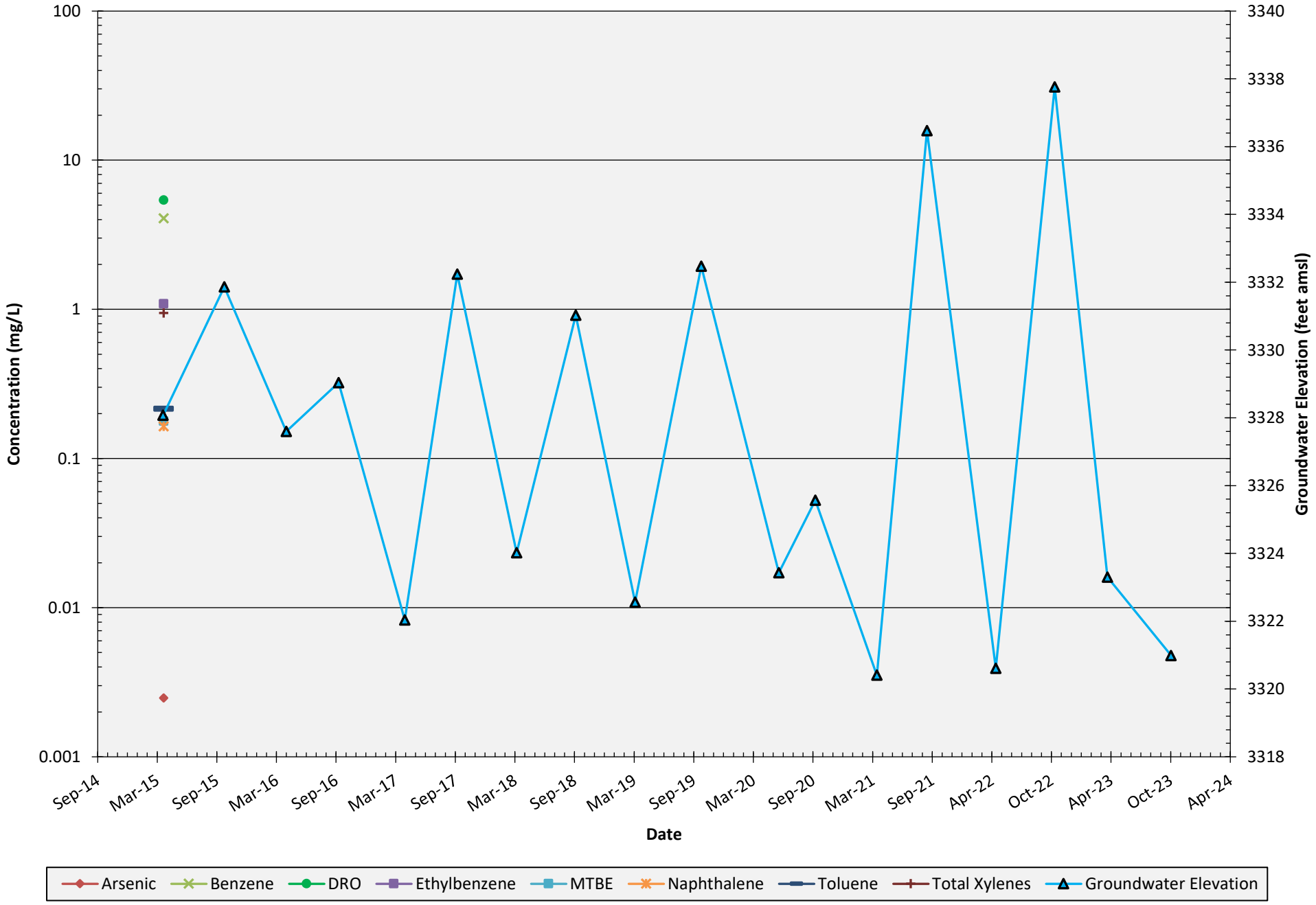


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Received by OCD: 6/12/2024 3:31:05 PM

RW-22: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Field East of Refinery

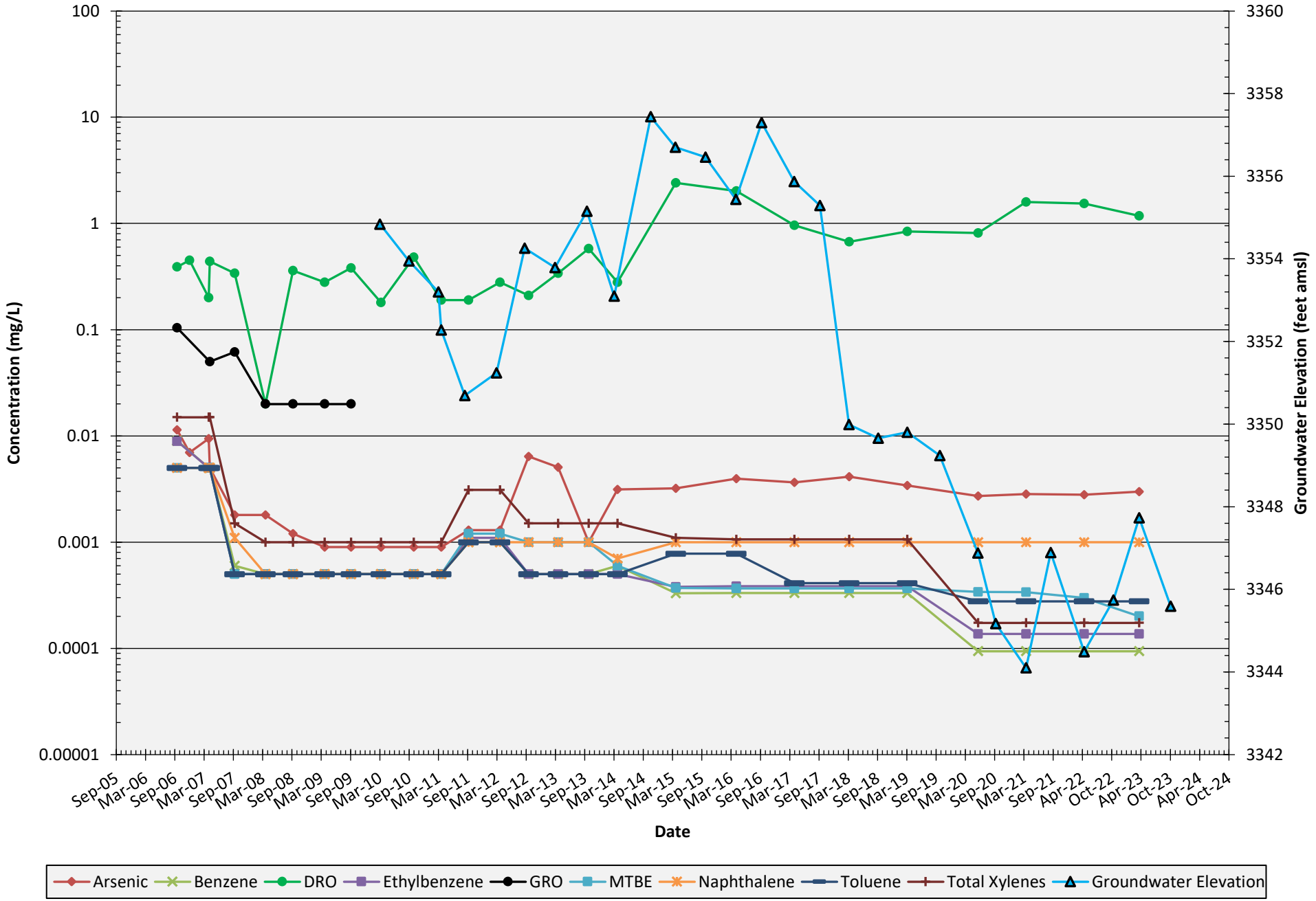


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

MW-18: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

North Colony Landfarm

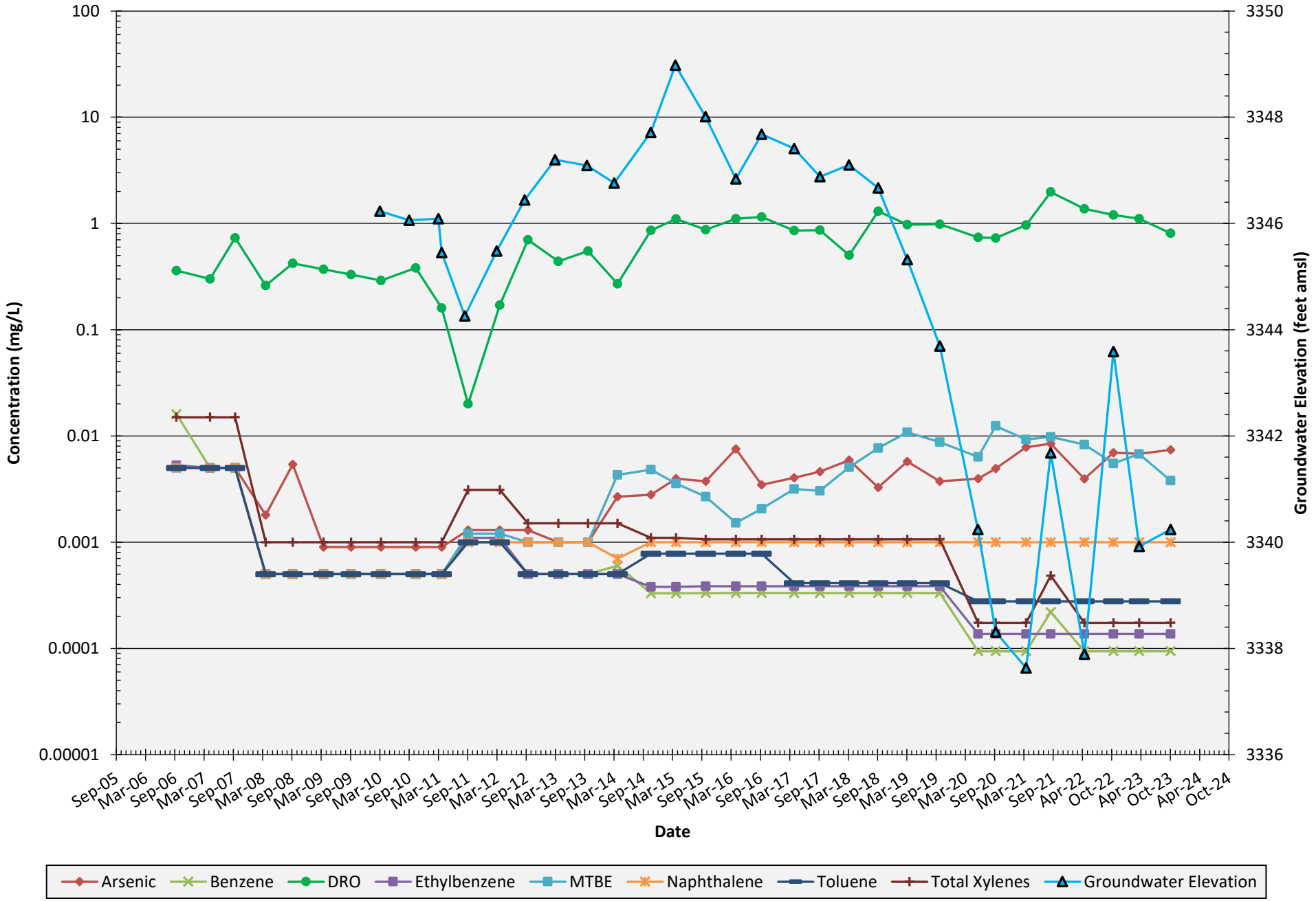


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Received by OCD: 6/12/2024 3:31:05 PM

MW-45: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

North Colony Landfarm

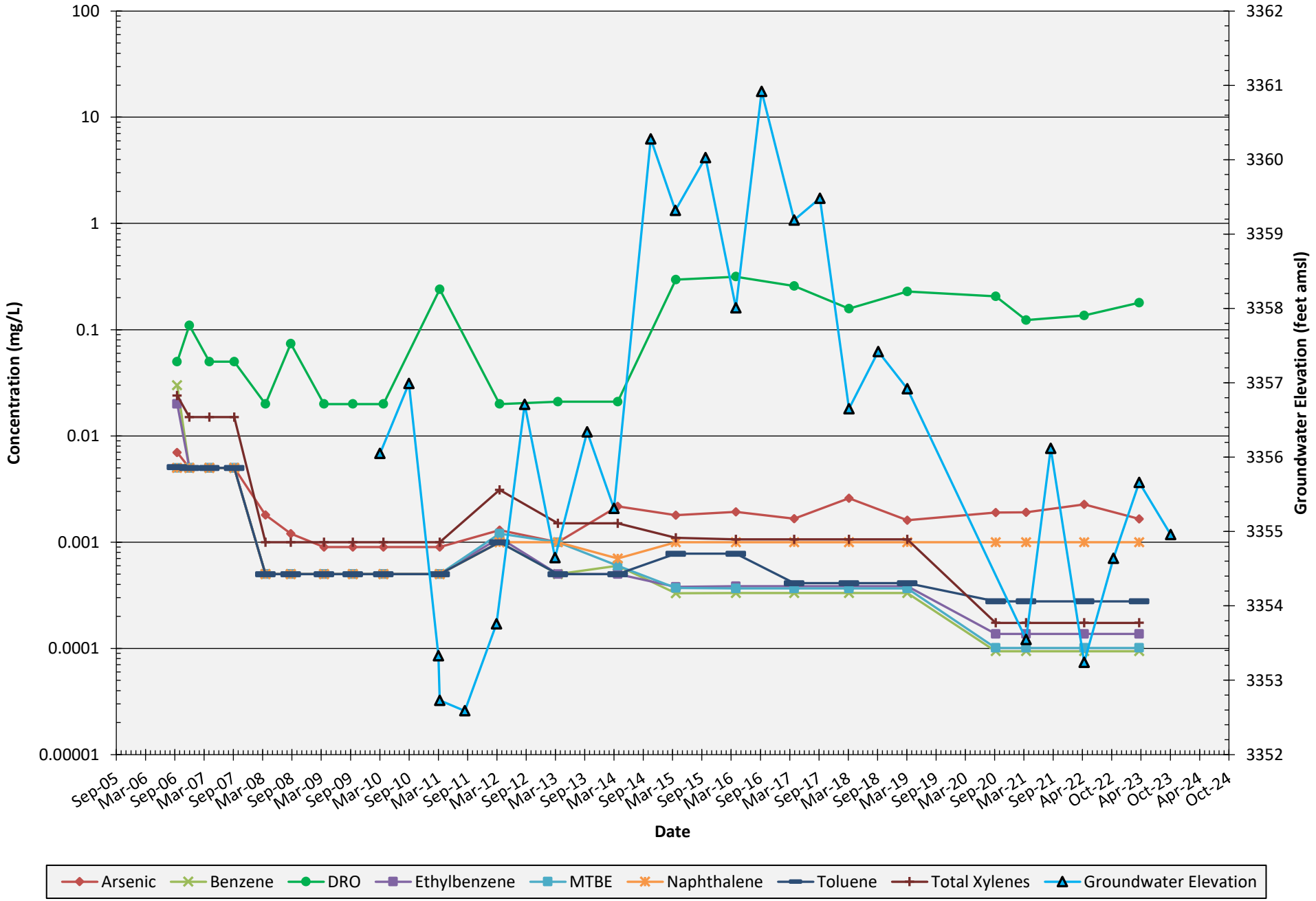


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Received by OCD: 6/12/2024 3:31:05 PM

MW-53 & MW-53R: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

North Colony Landfarm

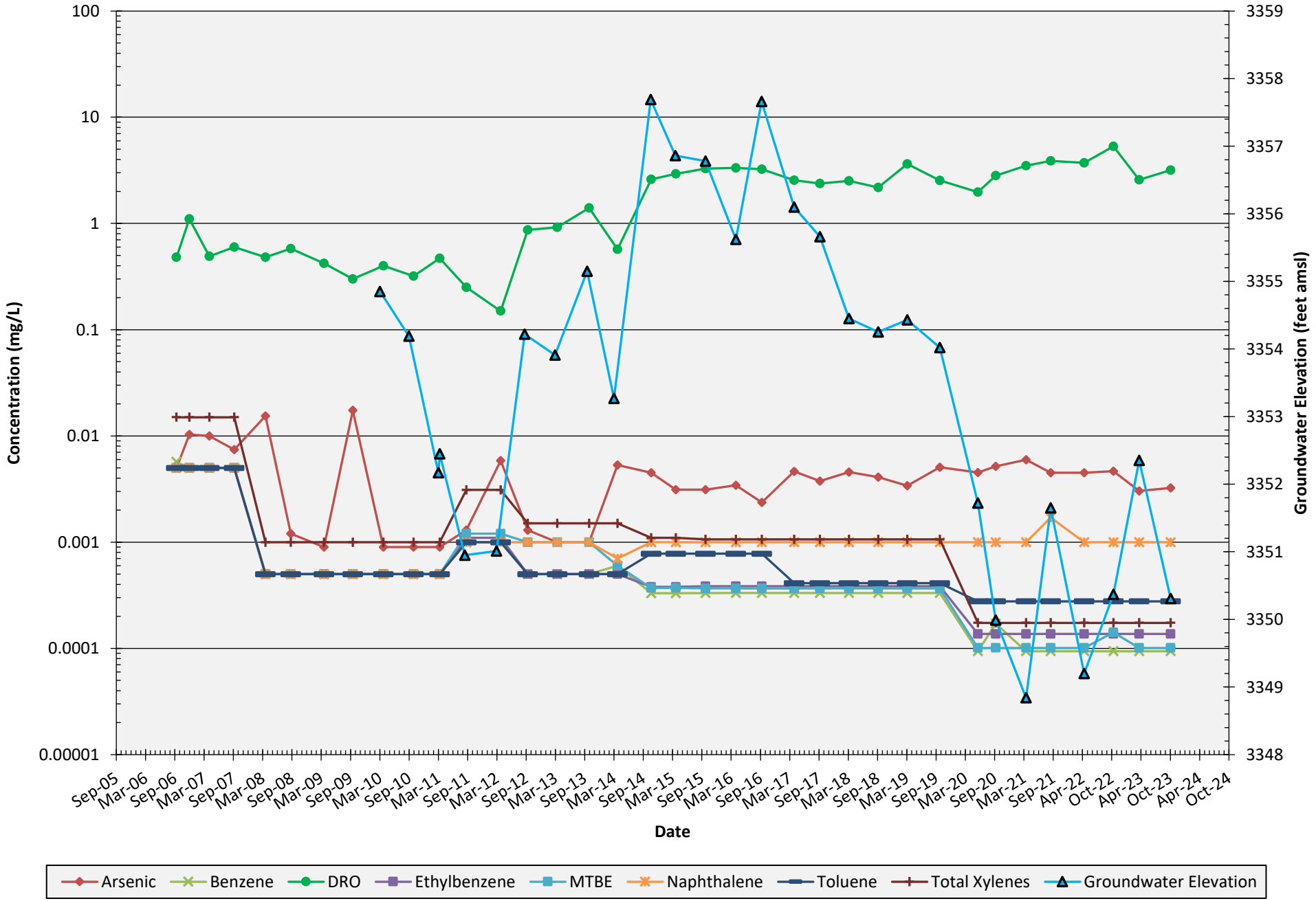


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

MW-54A: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

North Colony Landfarm

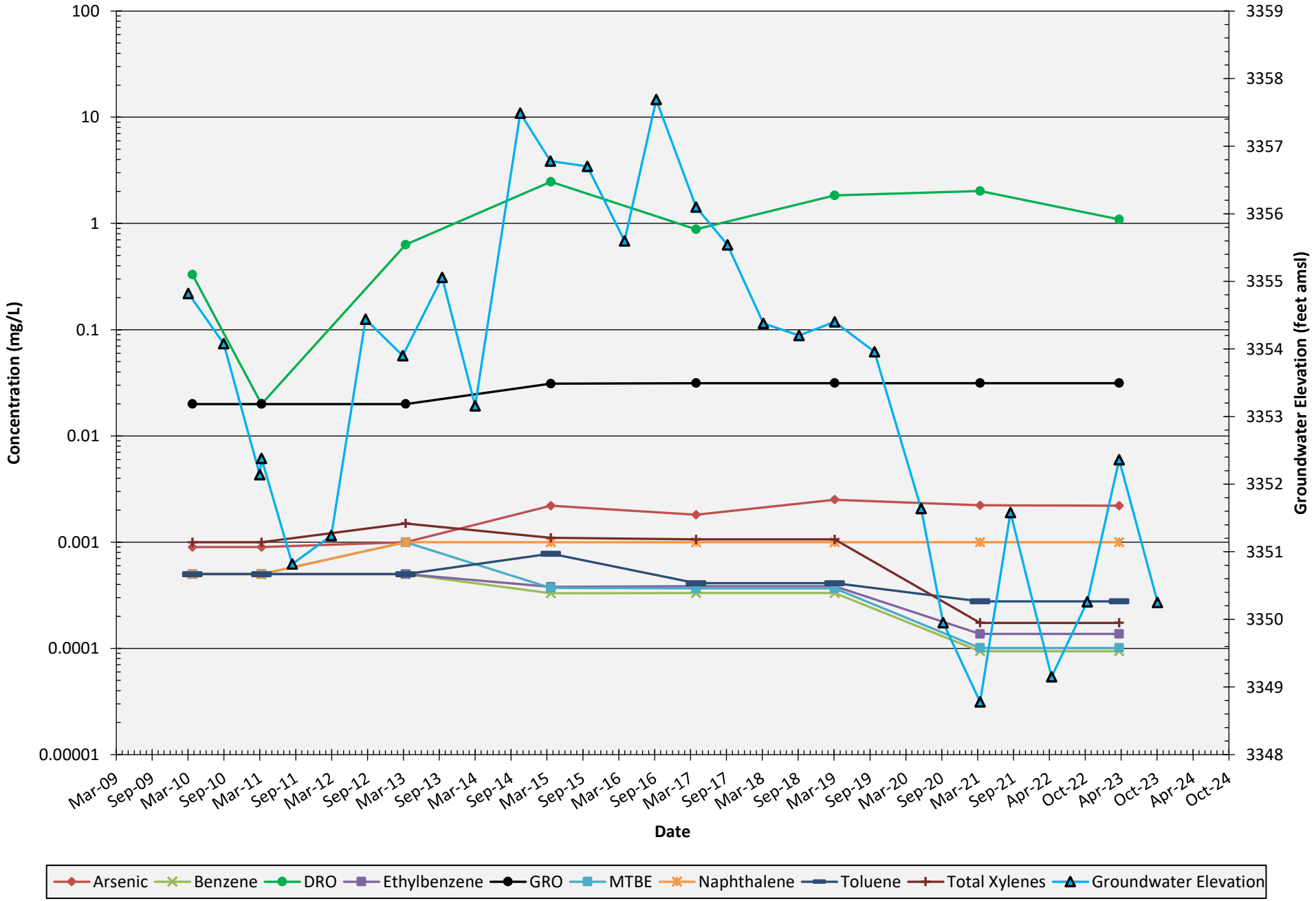


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

MW-54B: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

North Colony Landfarm

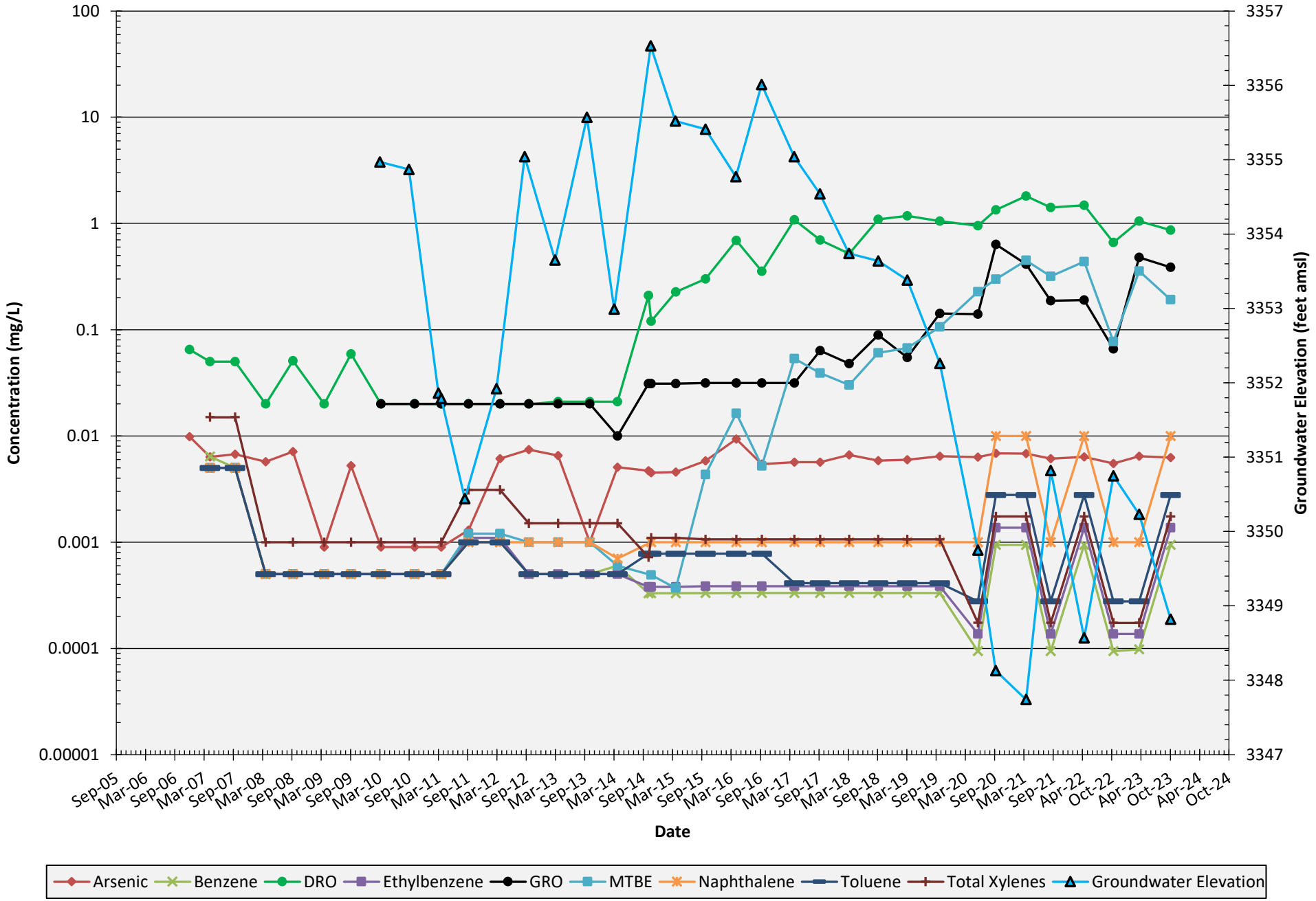


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

MW-55: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

North Colony Landfarm

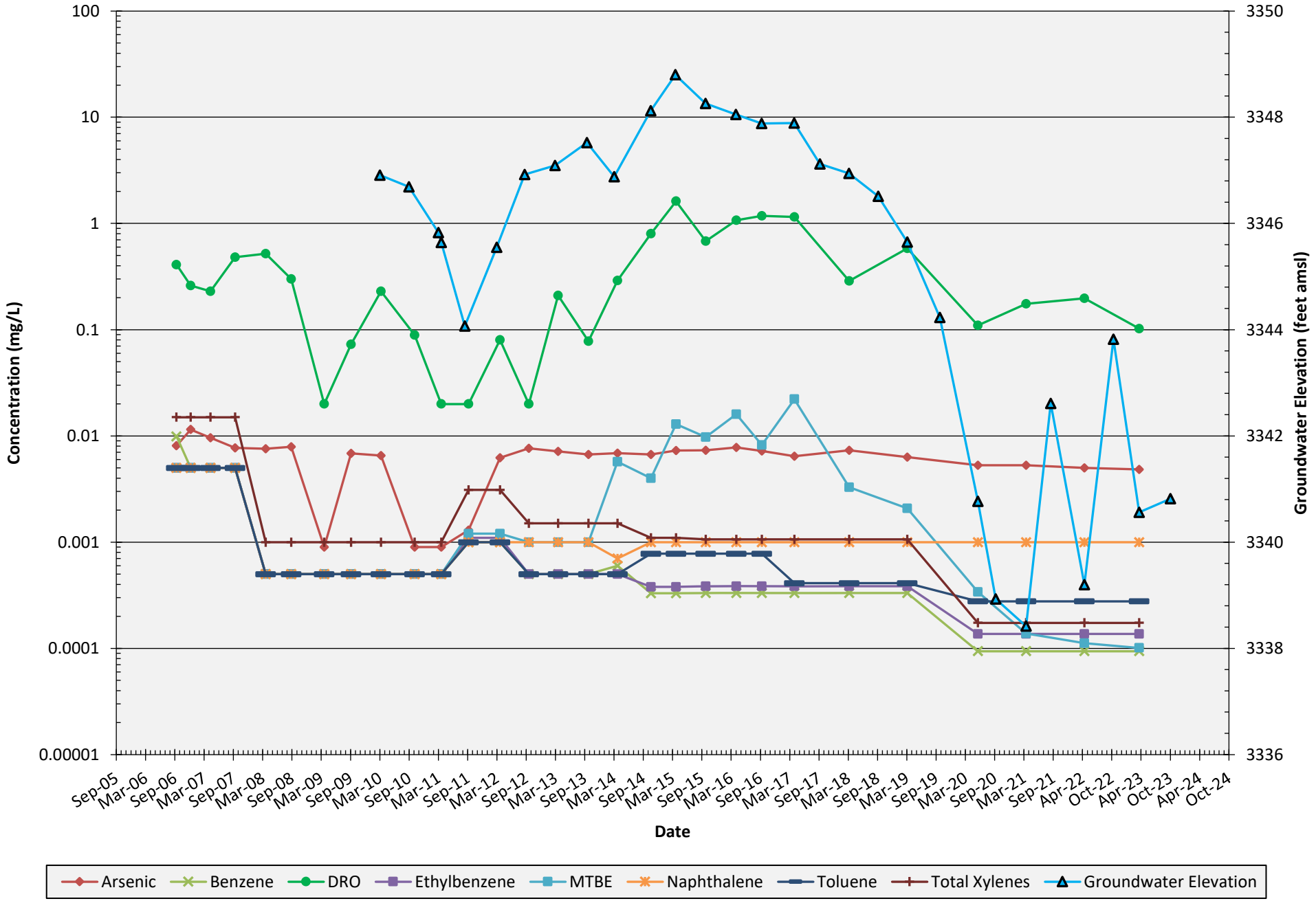


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

MW-56: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

North Colony Landfarm

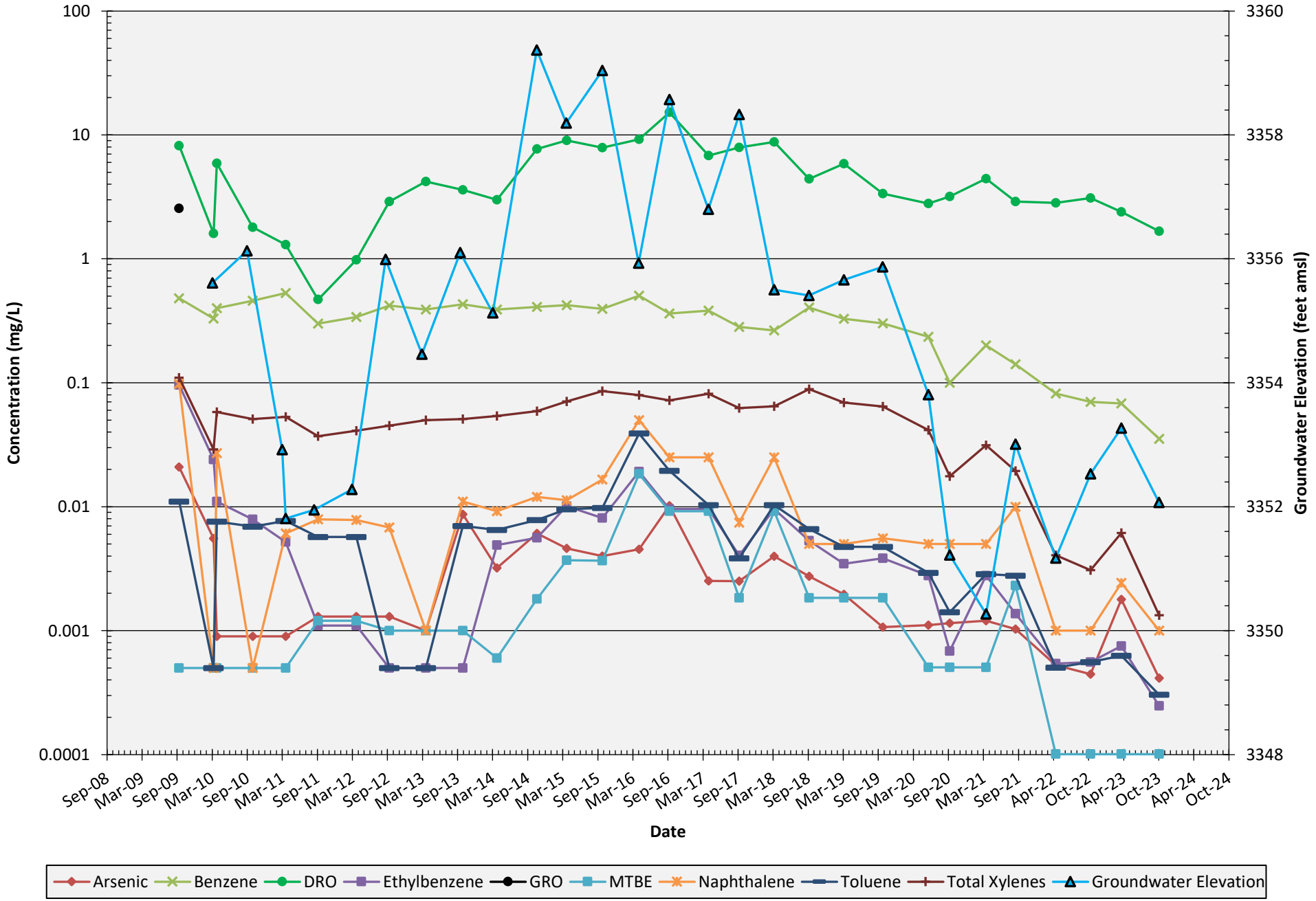


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Received by OCD: 6/12/2024 3:31:05 PM

MW-108: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

North Colony Landfarm

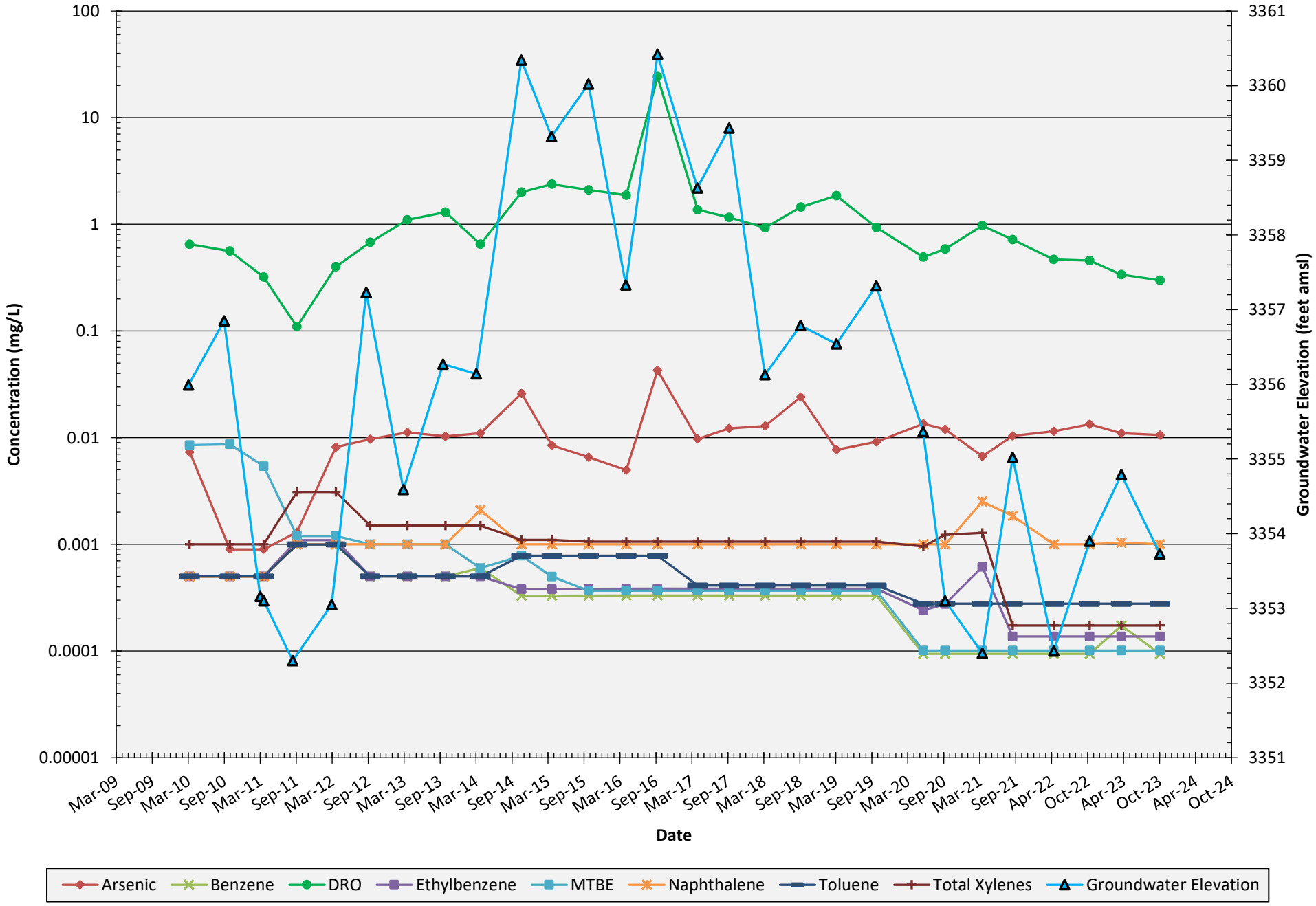


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Received by OCD: 6/12/2024 3:31:05 PM

NCL-31: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

North Colony Landfarm

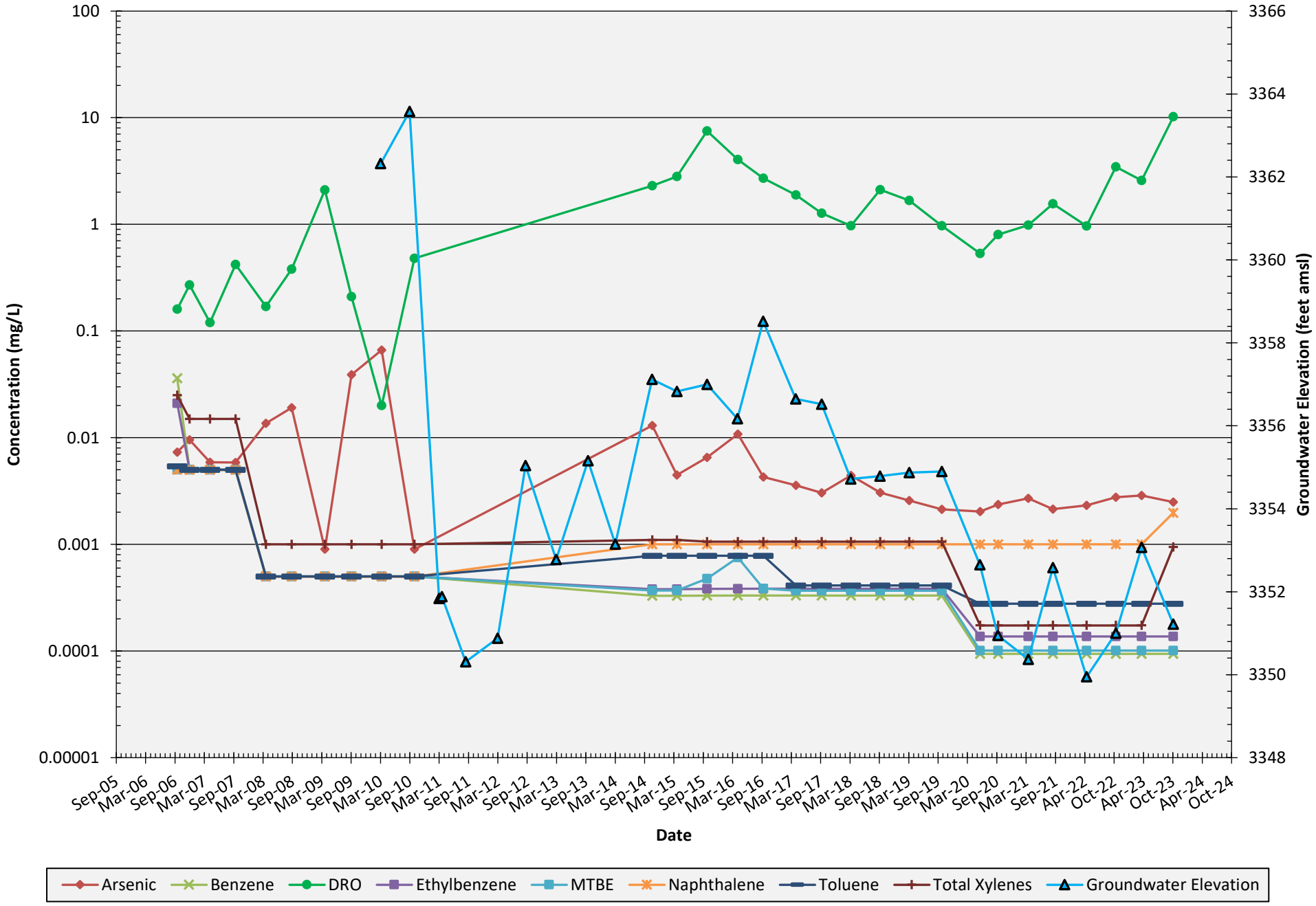


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Received by OCD: 6/12/2024 3:31:05 PM

NCL-32: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

North Colony Landfarm

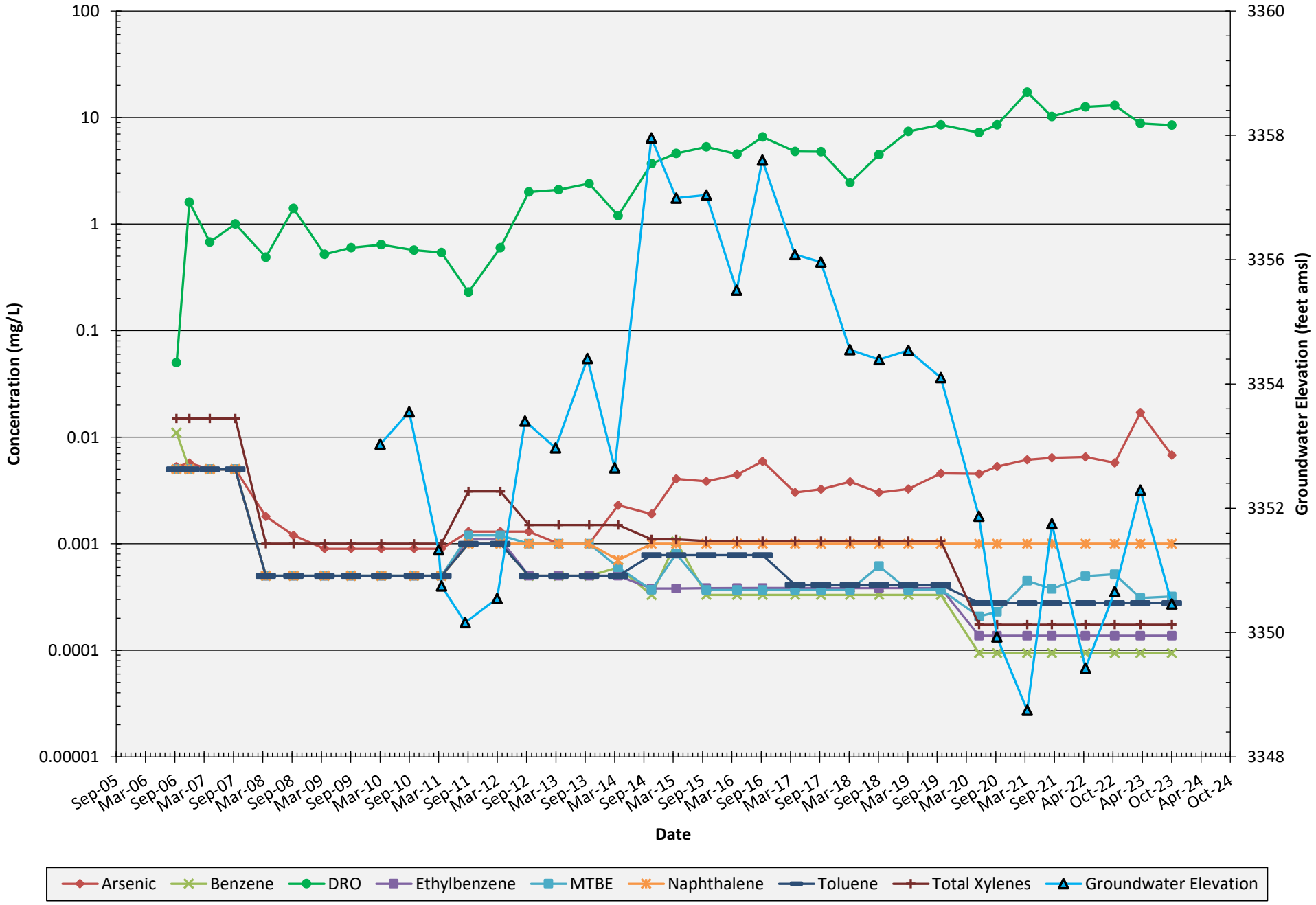


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NCL-33: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

North Colony Landfarm

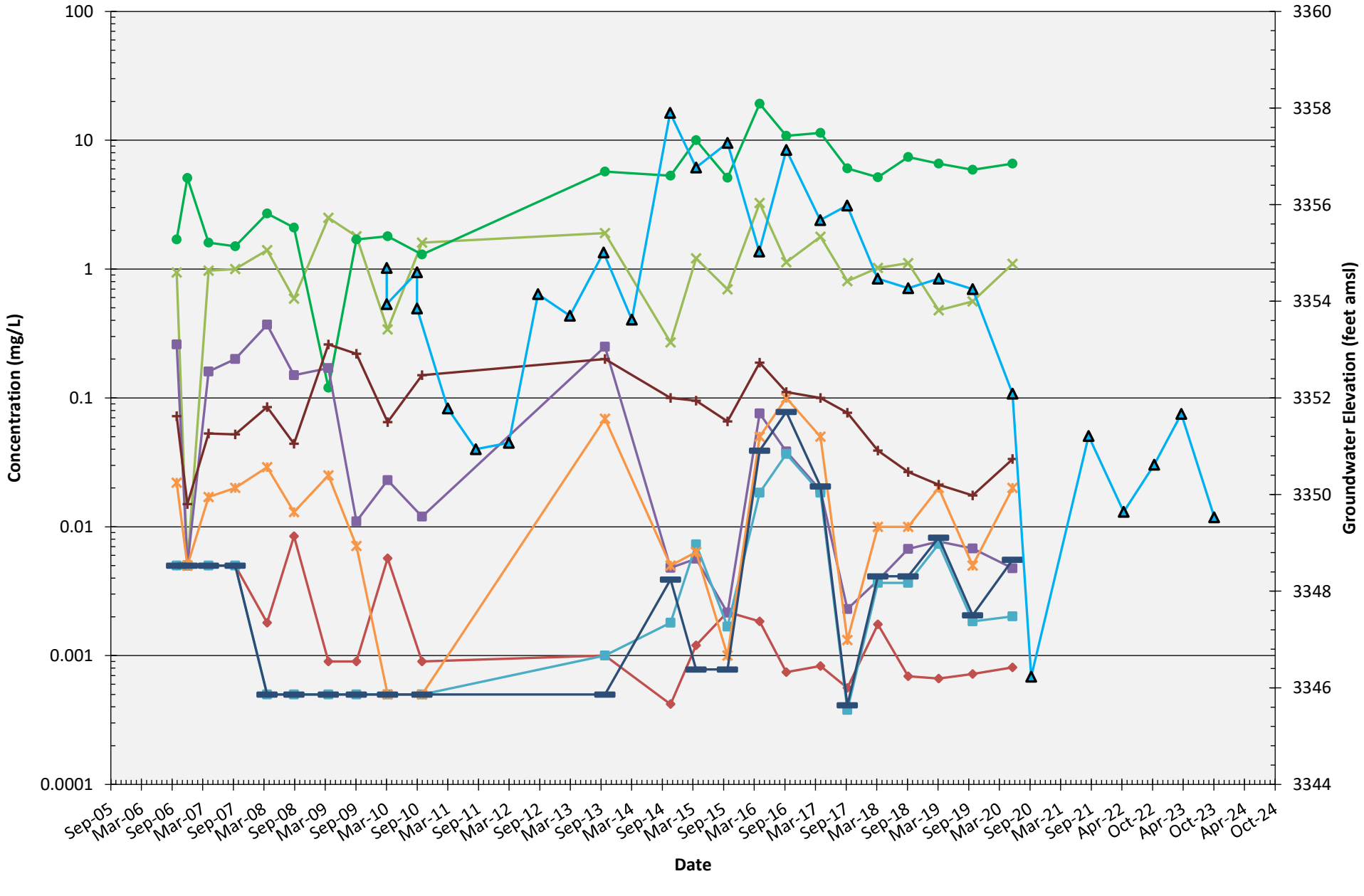


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NCL-34: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

North Colony Landfarm

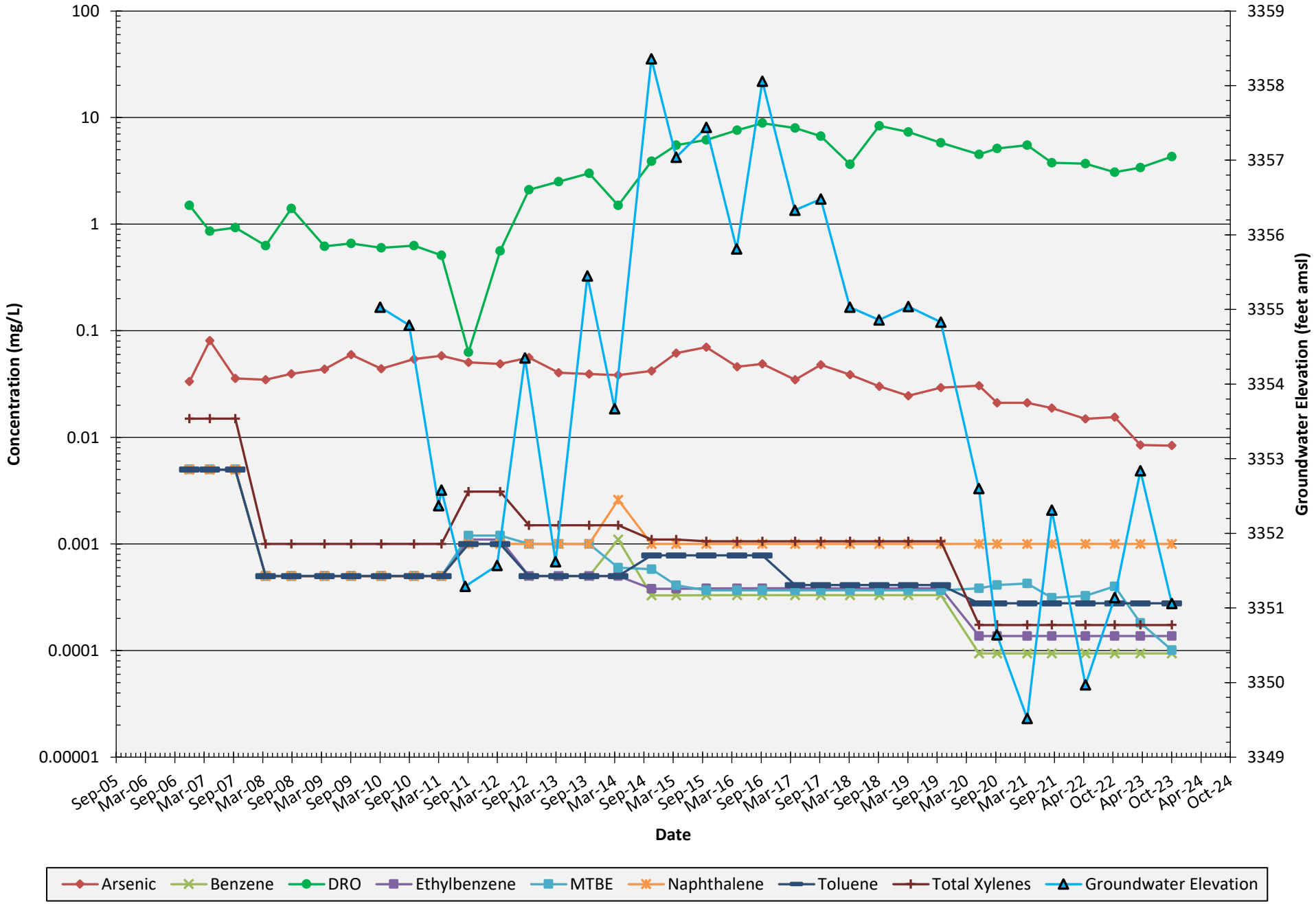


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NCL-44: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

North Colony Landfarm

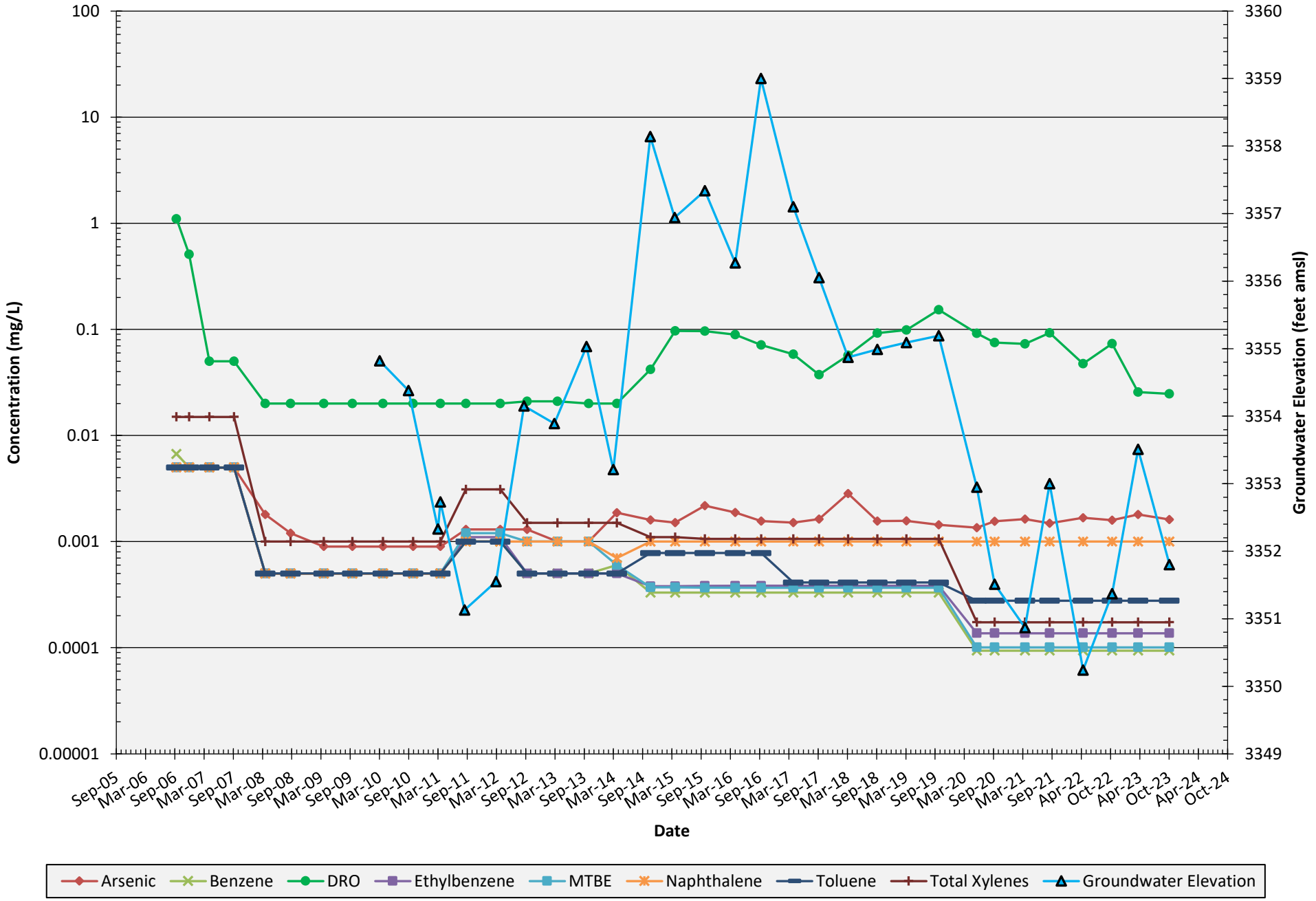


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Received by OCD: 6/12/2024 3:31:05 PM

NCL-49: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

North Colony Landfarm

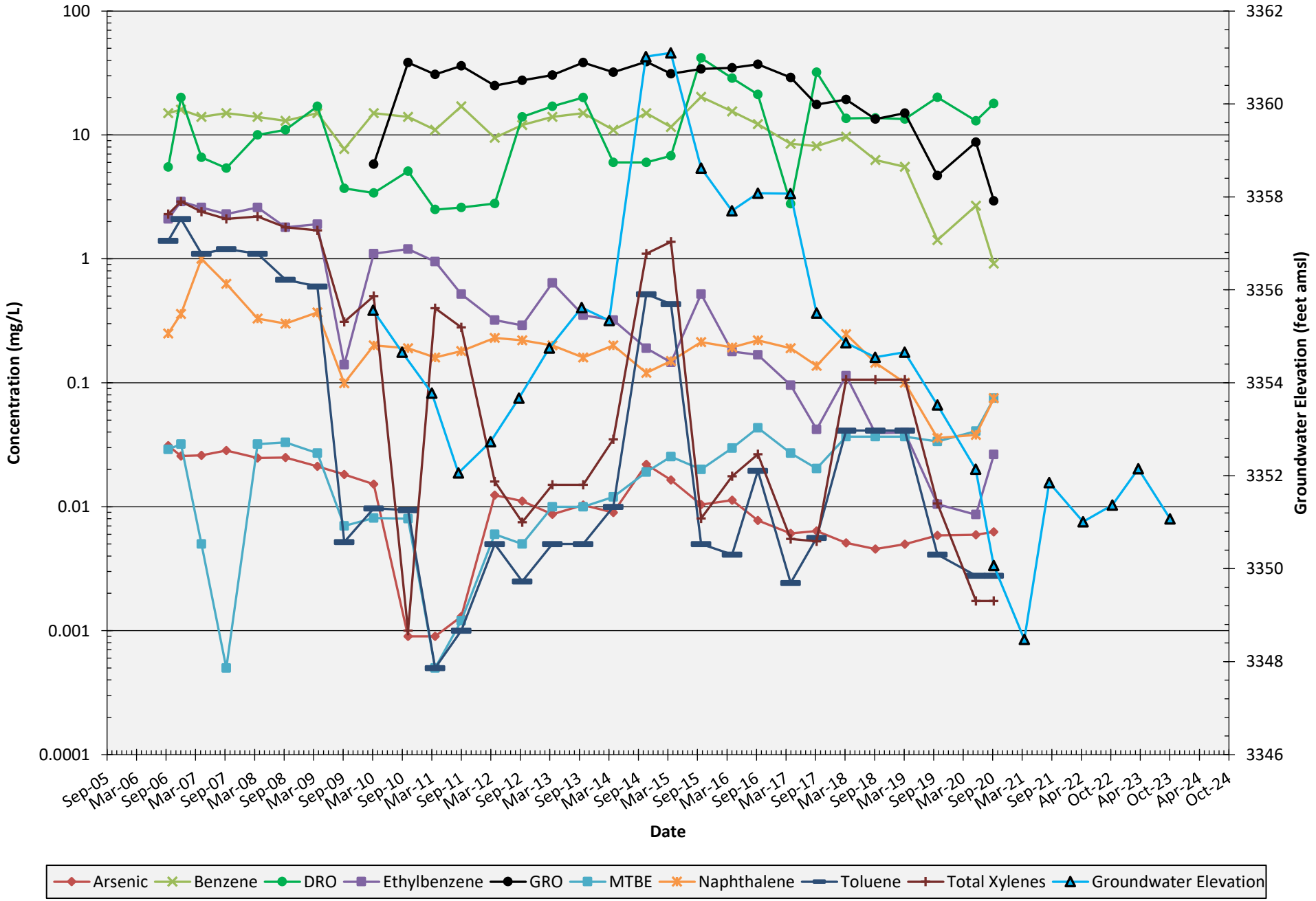


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Received by OCD: 6/12/2024 3:31:05 PM

MW-23: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

North Refinery

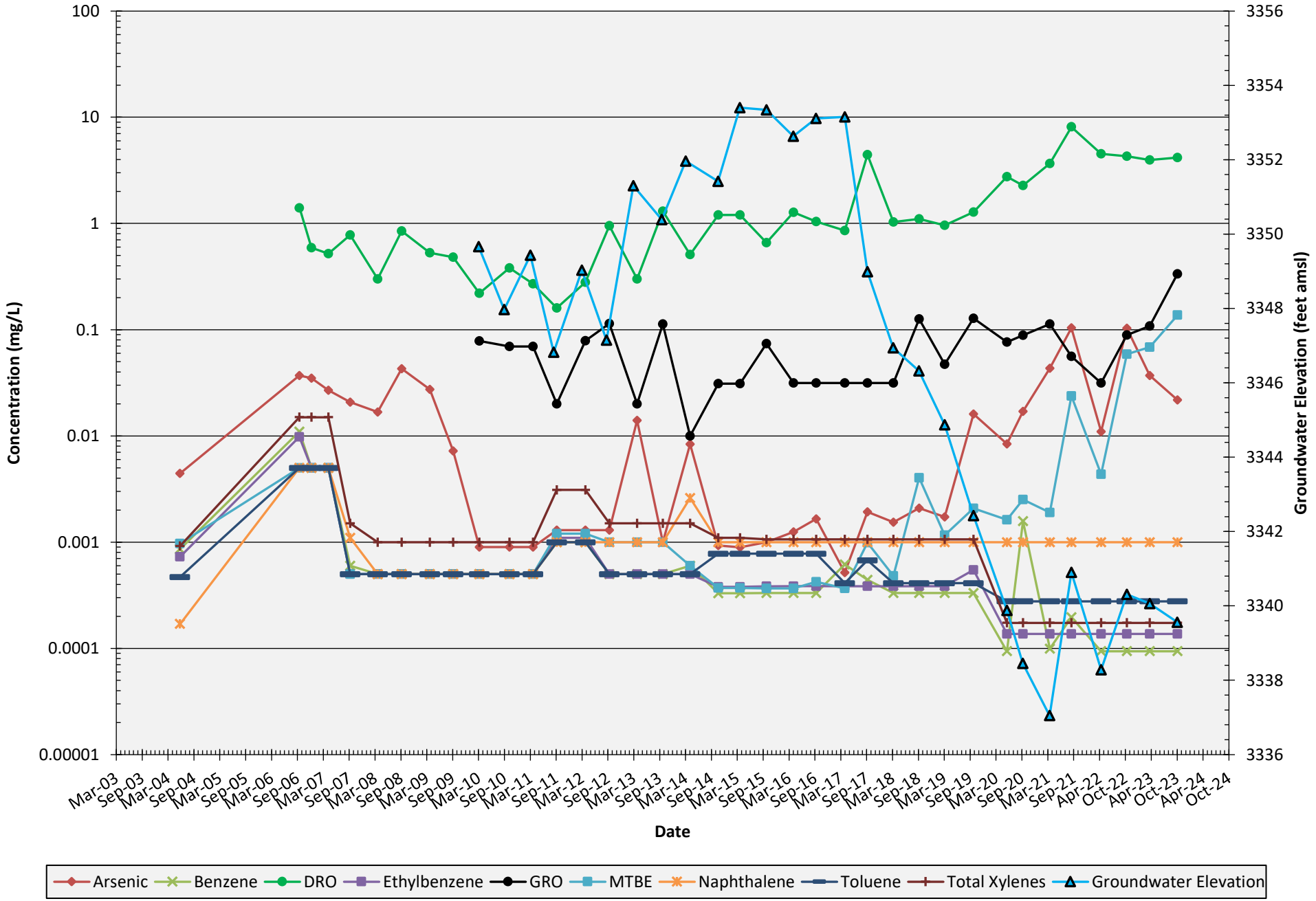


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

MW-29: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

North Refinery

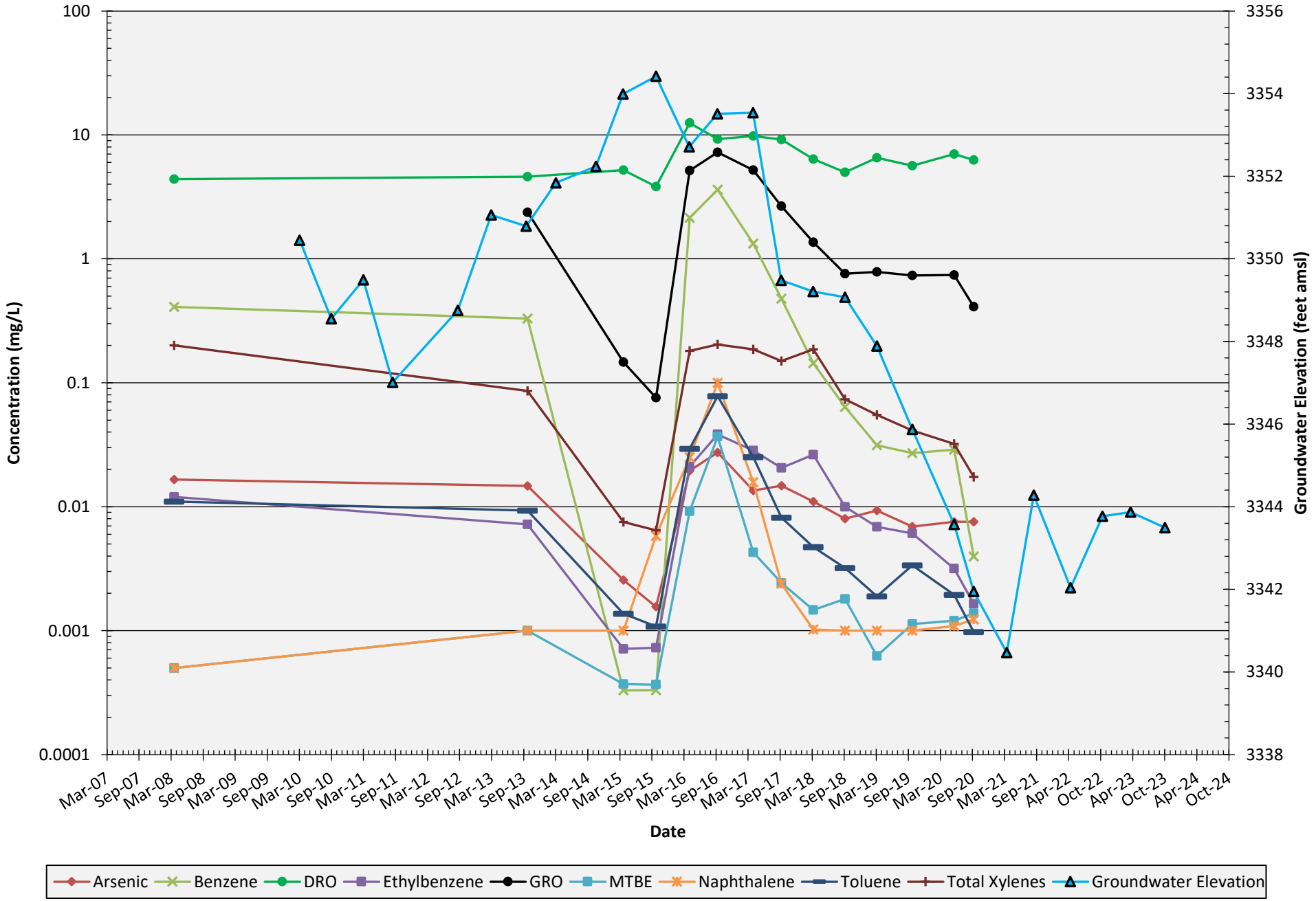


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

MW-39: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

North Refinery

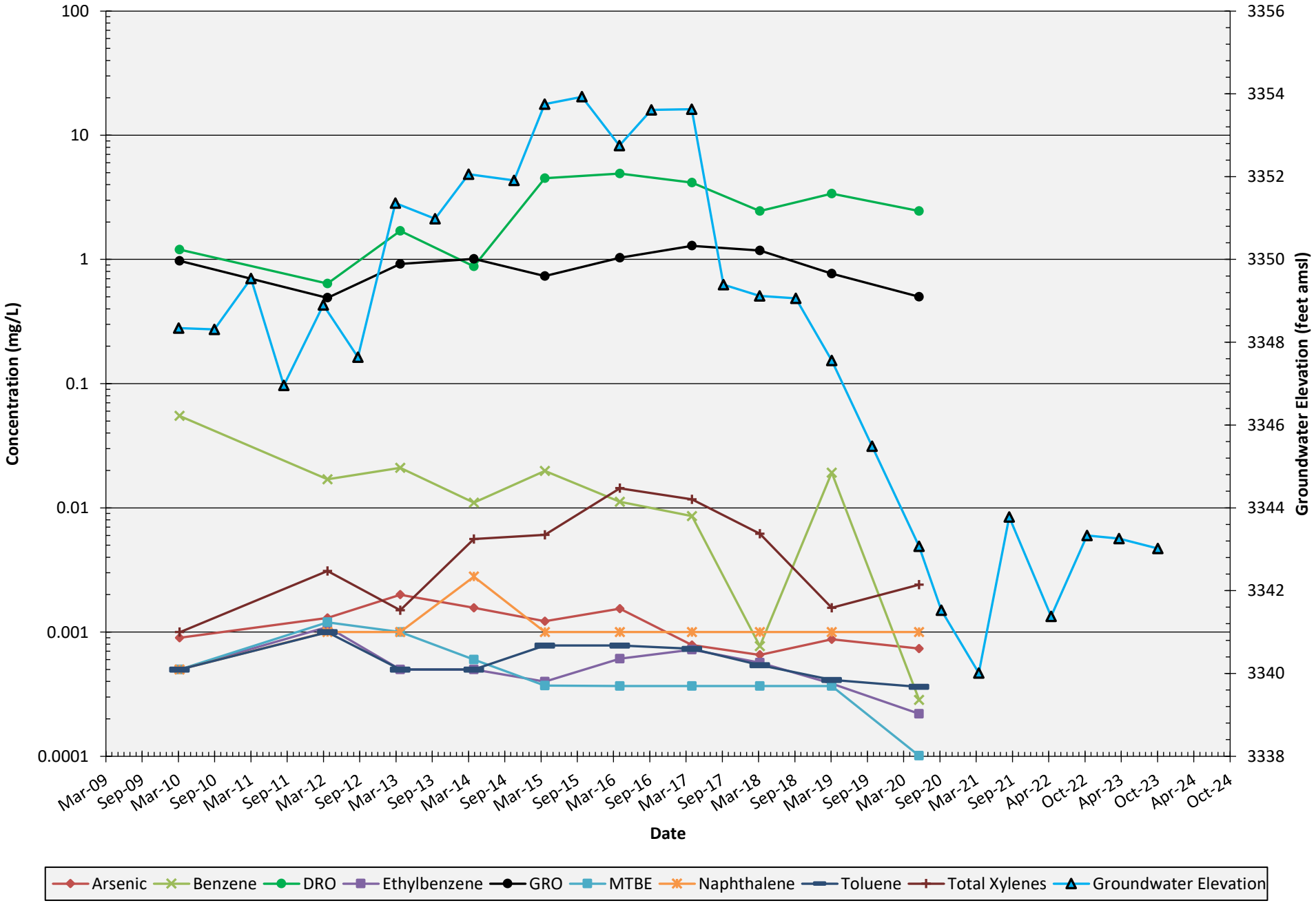


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

MW-40: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

North Refinery

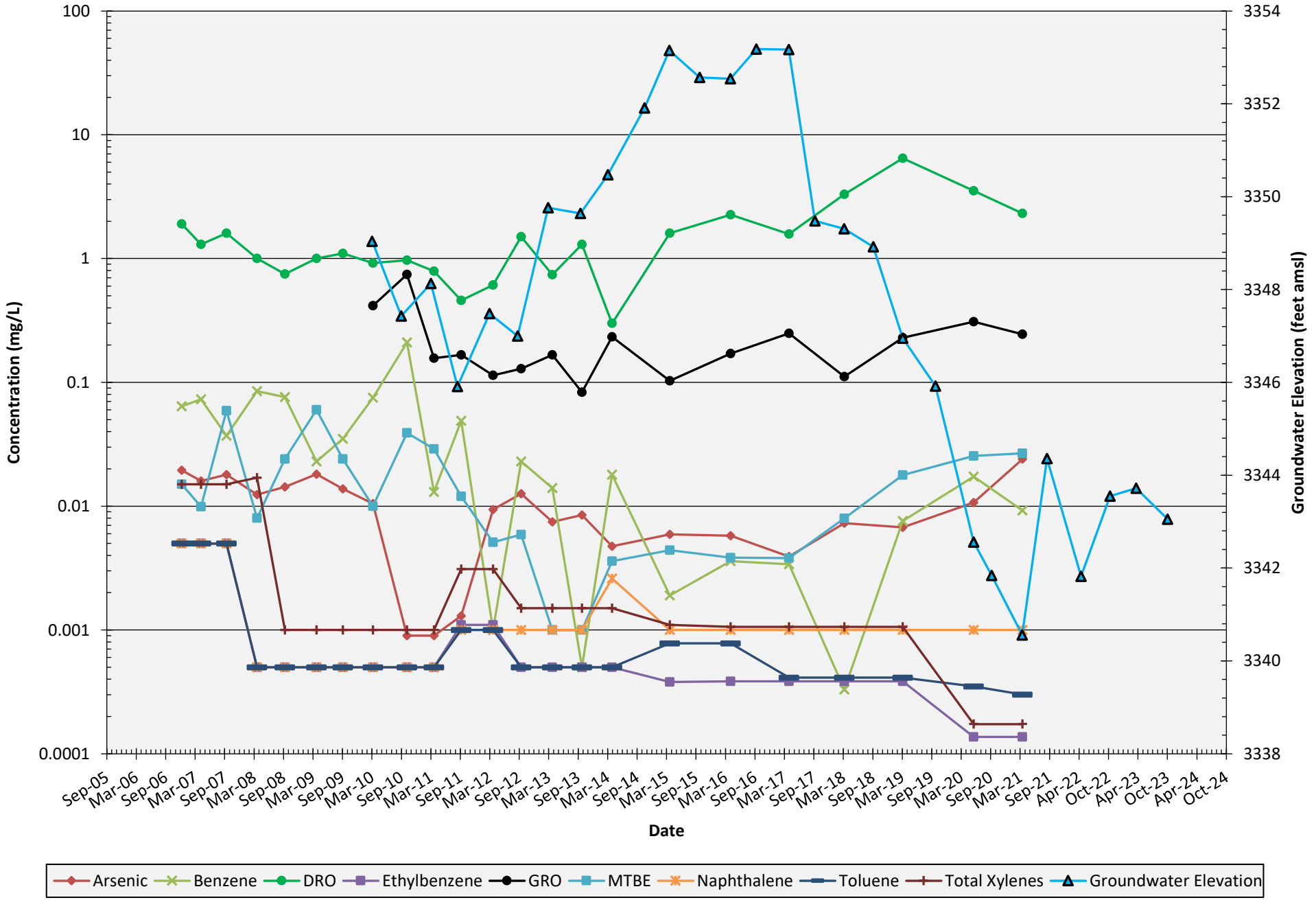


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

MW-41: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

North Refinery

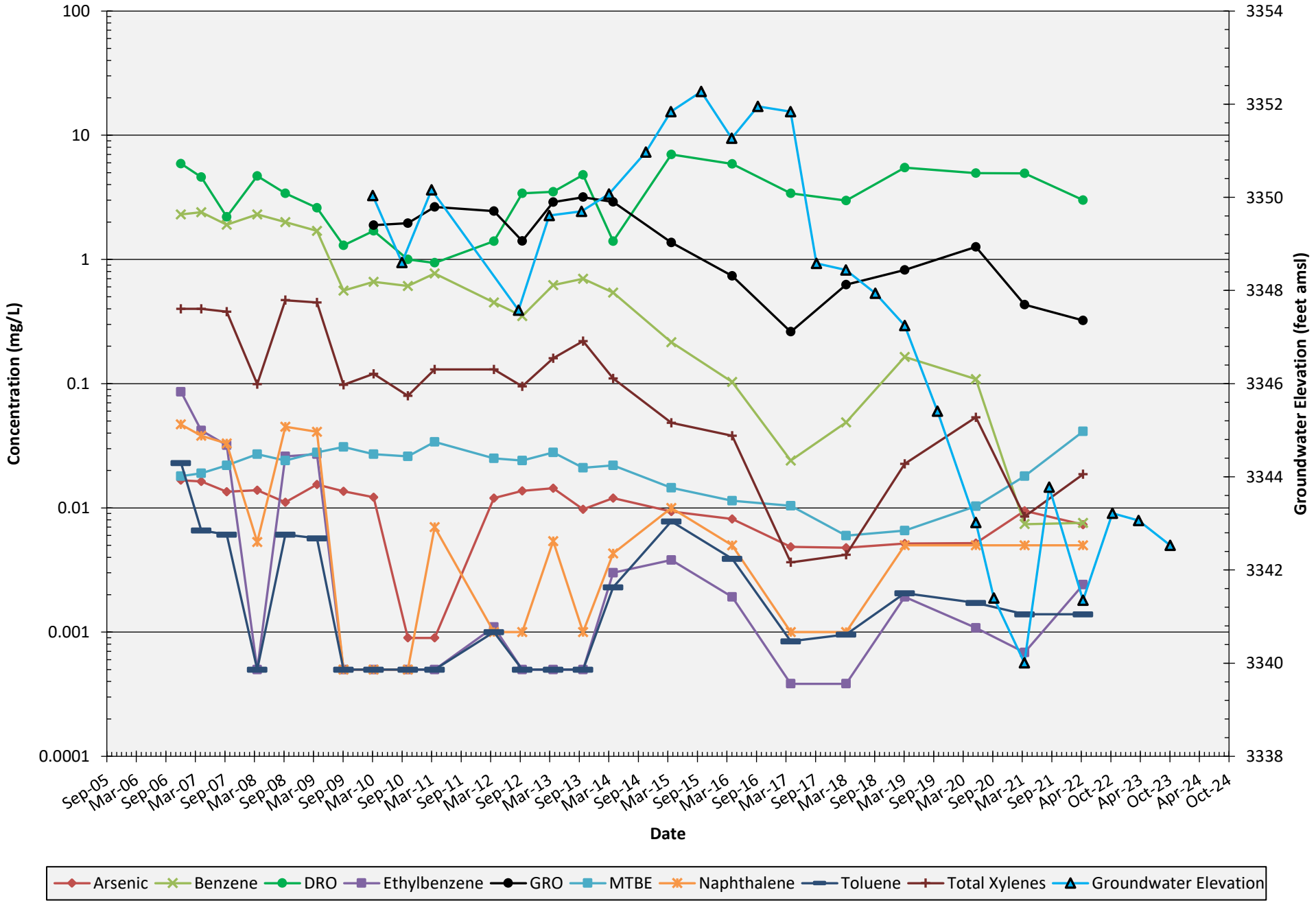


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

MW-42: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

North Refinery

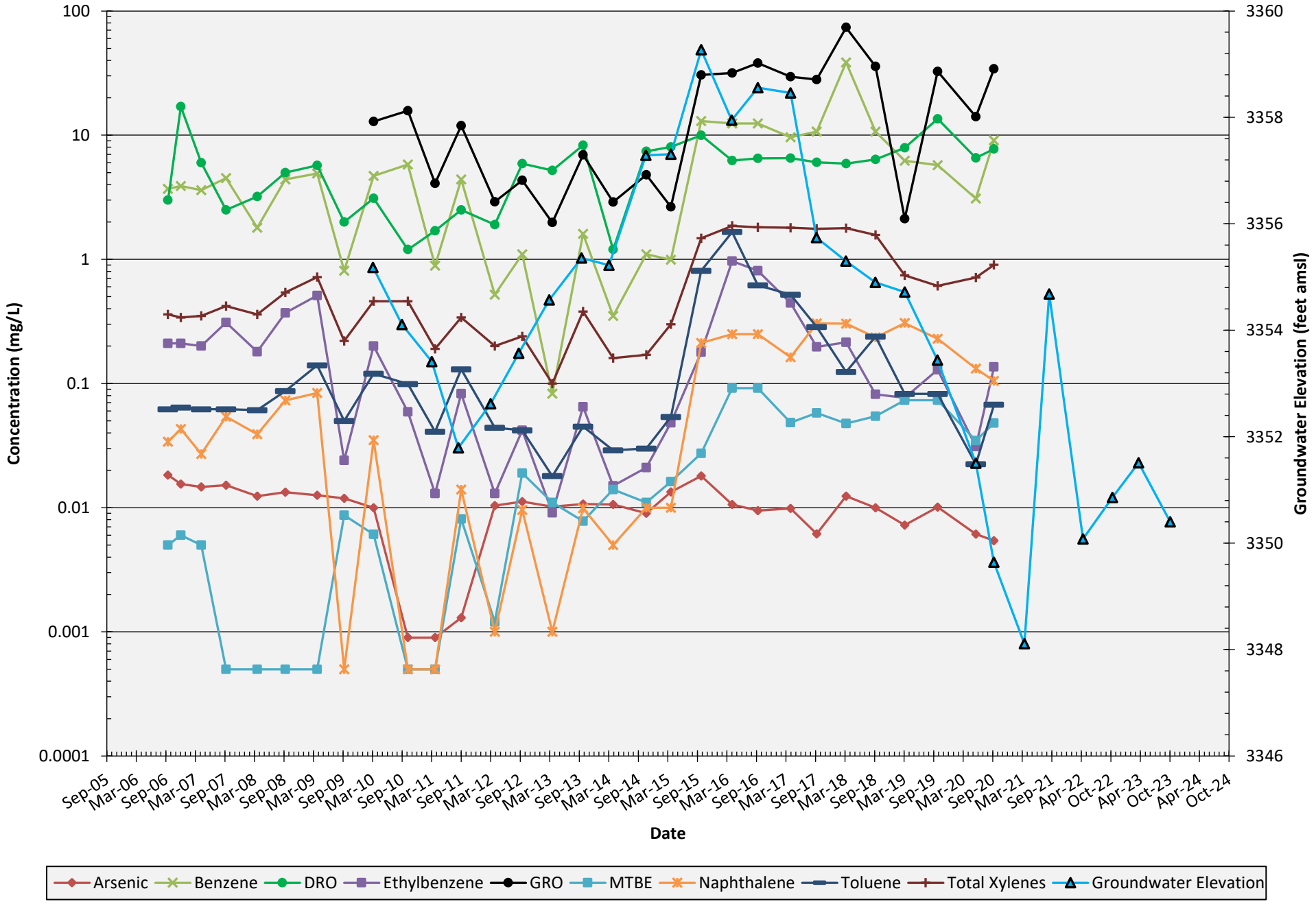


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

MW-43: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

North Refinery

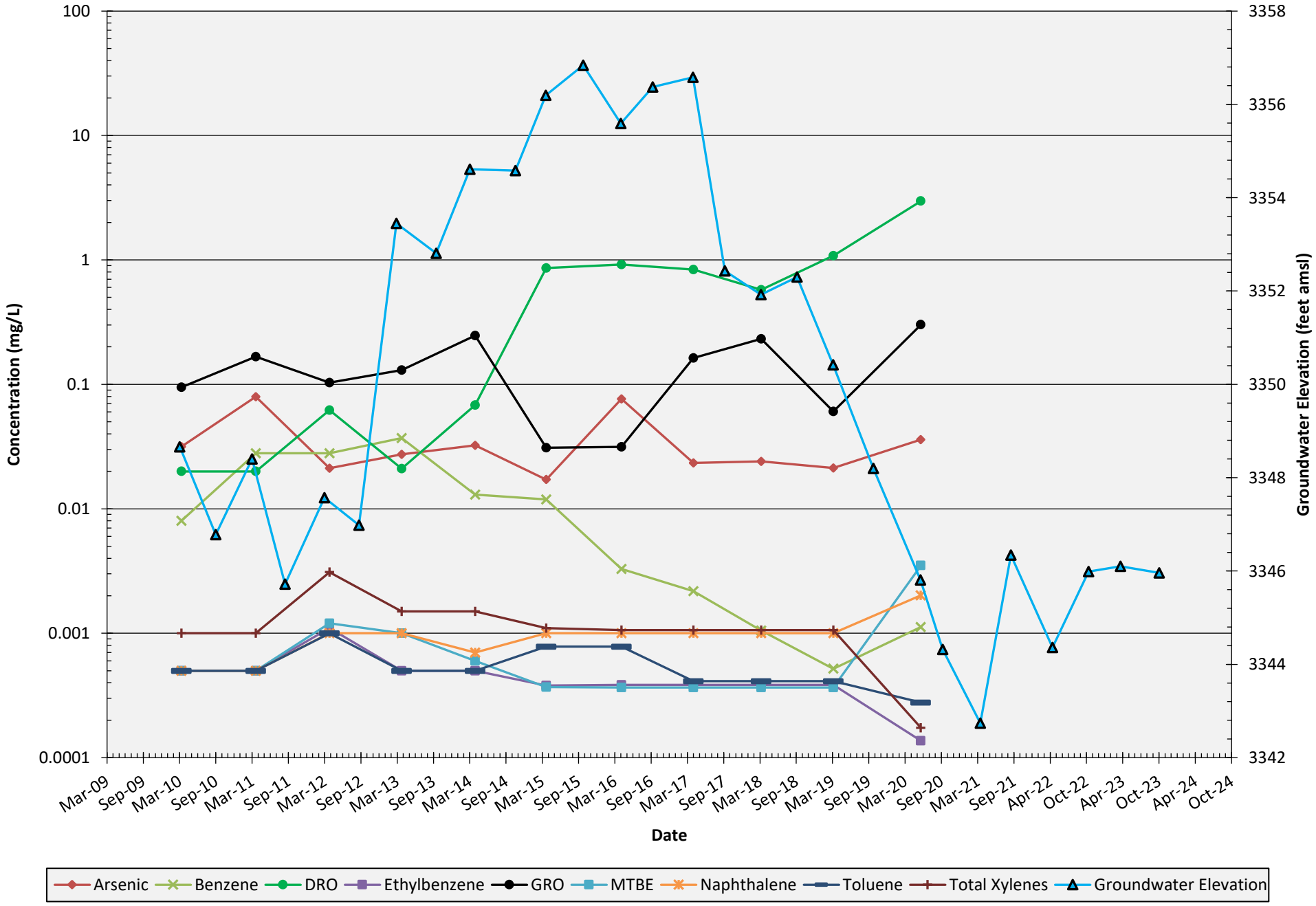


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Received by OCD: 6/12/2024 3:31:05 PM

MW-59: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

North Refinery

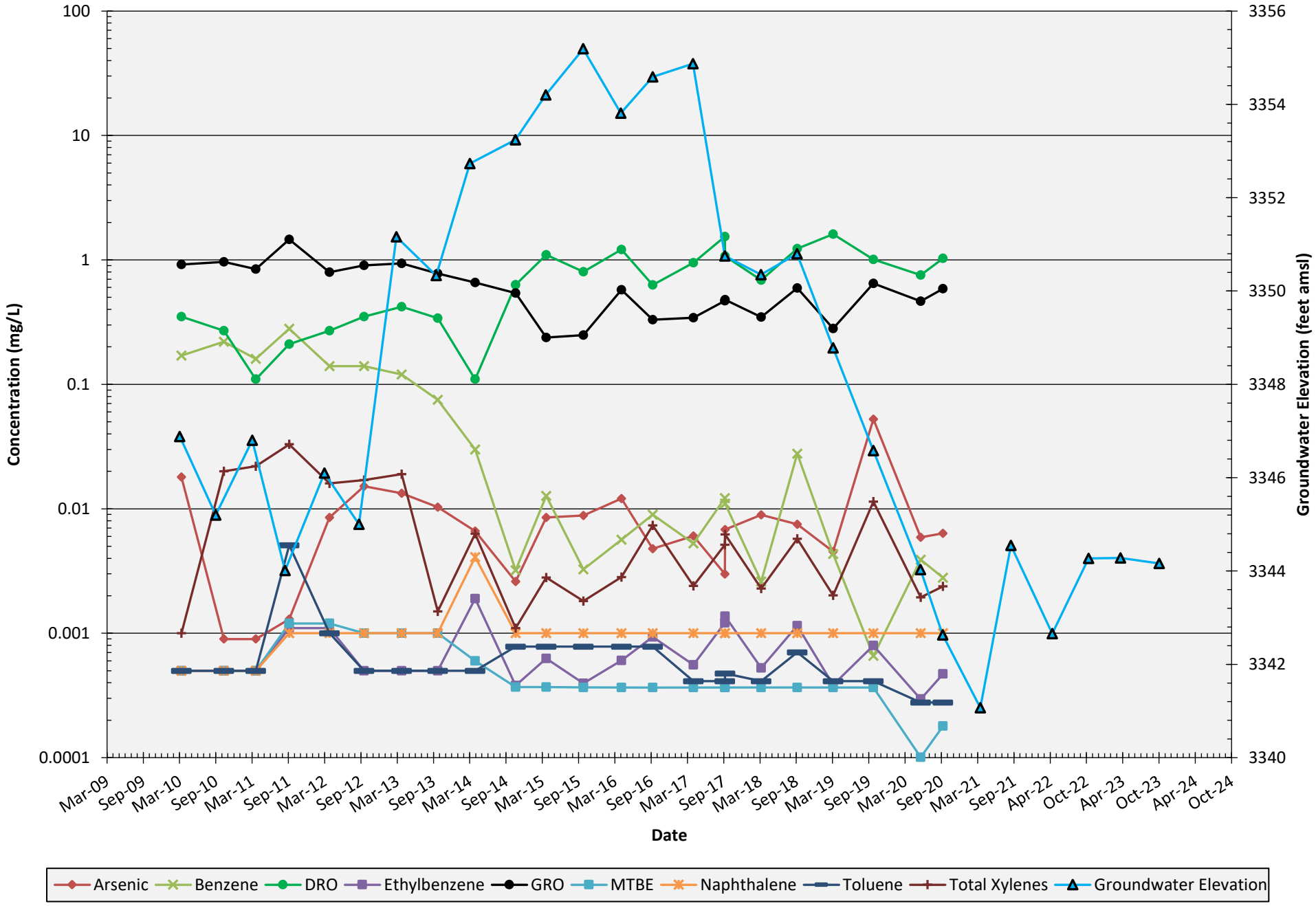


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

MW-60: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

North Refinery

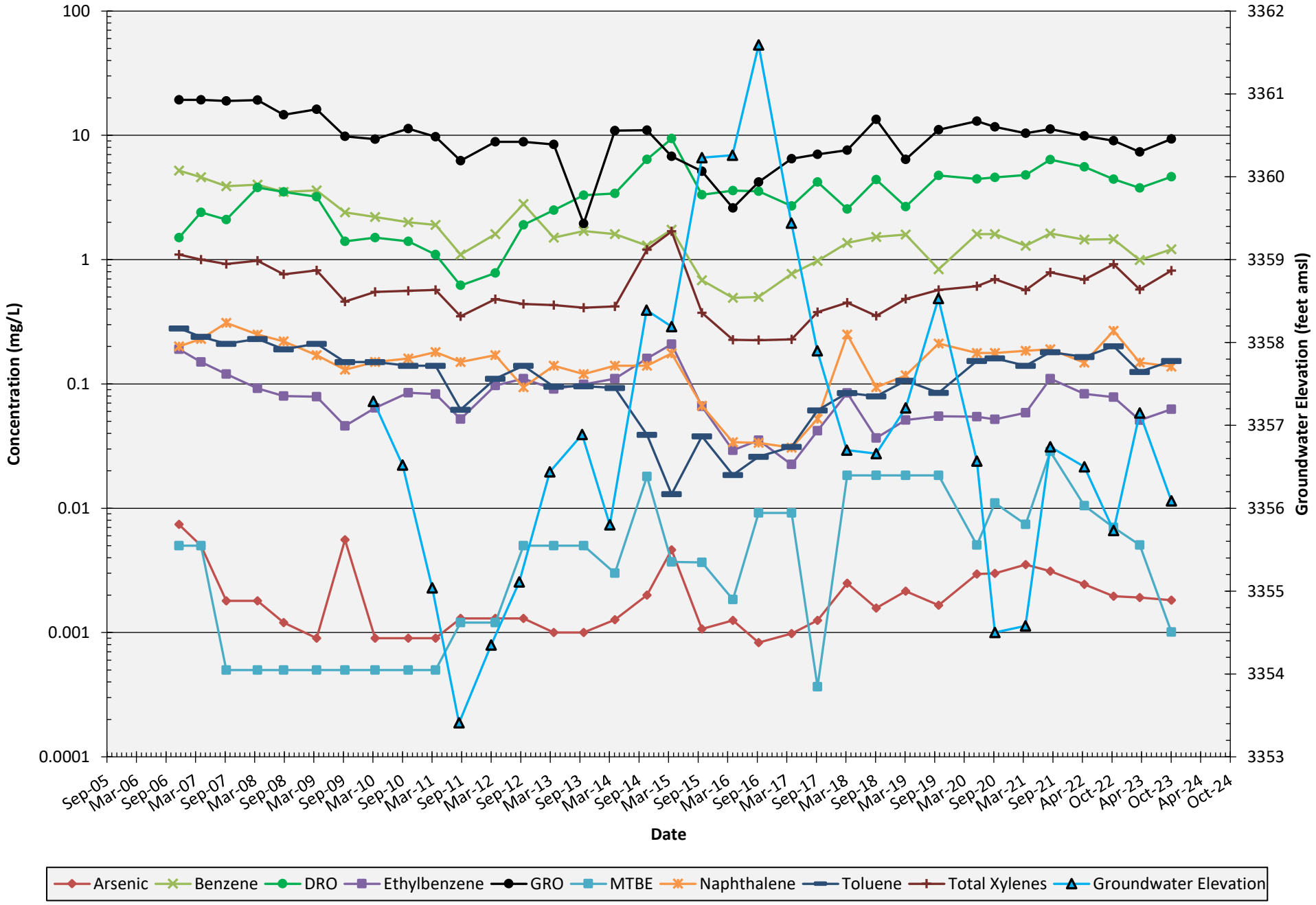


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MW-61: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

North Refinery

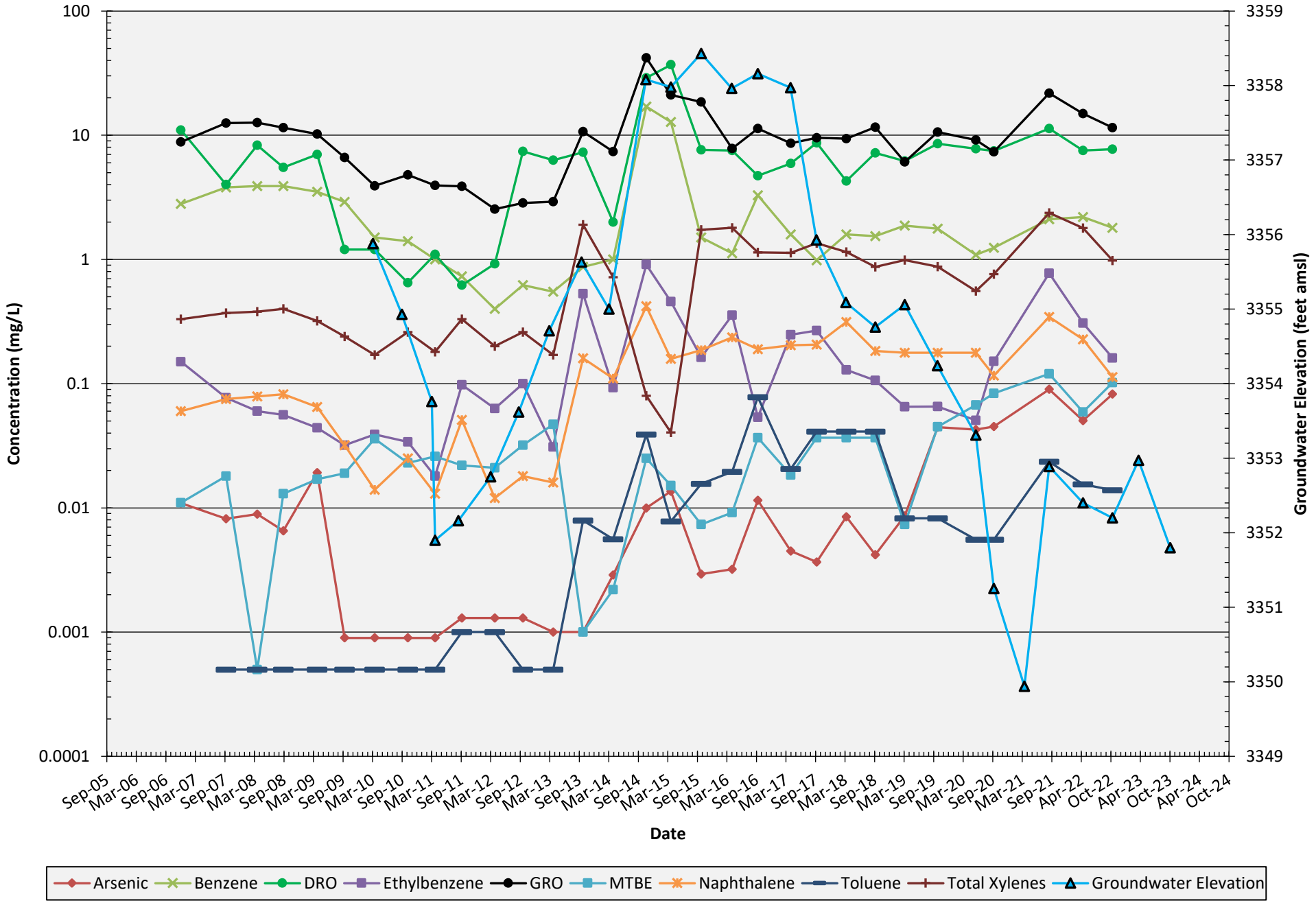


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

MW-62: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

North Refinery

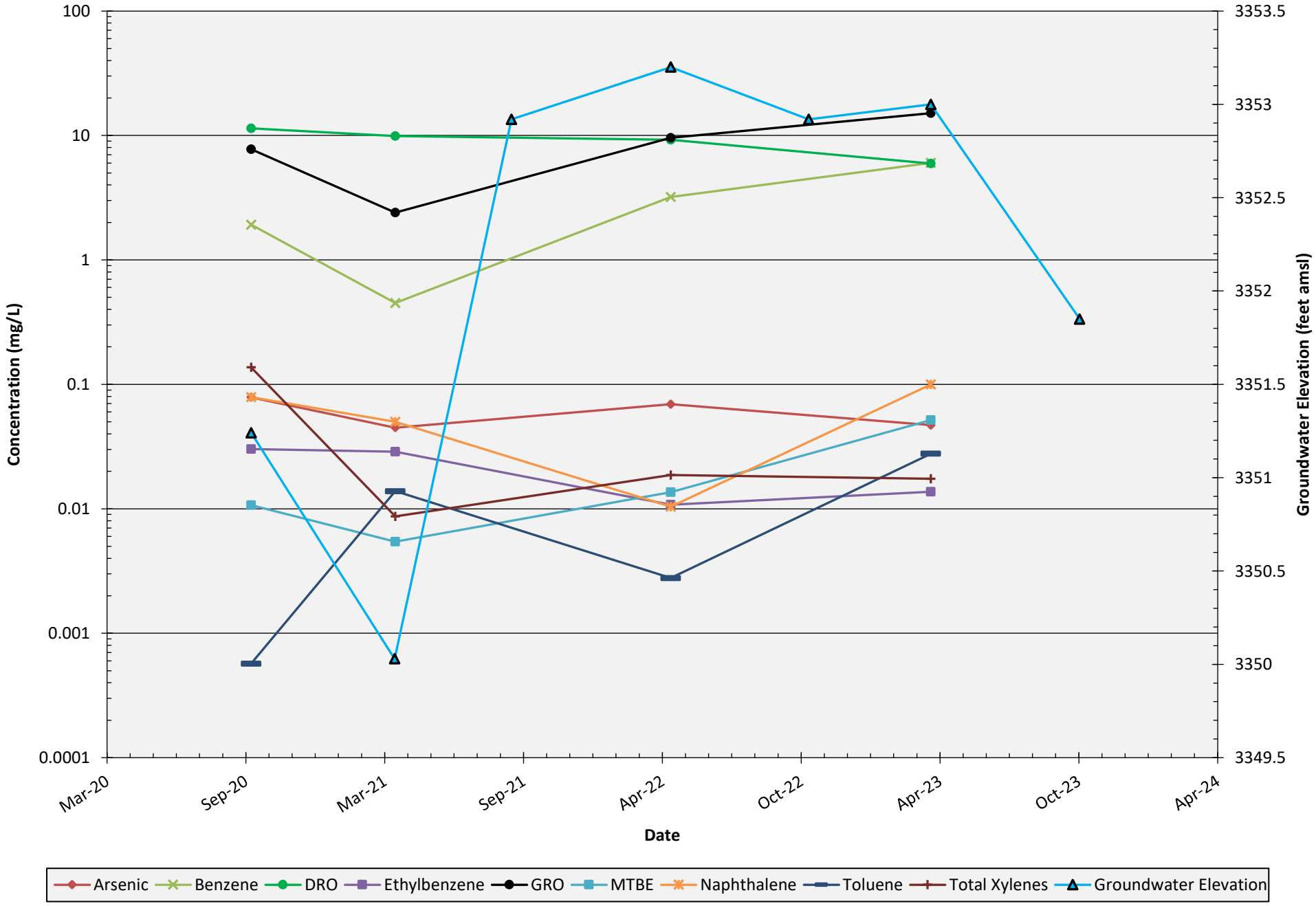


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

MW-62R: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

North Refinery

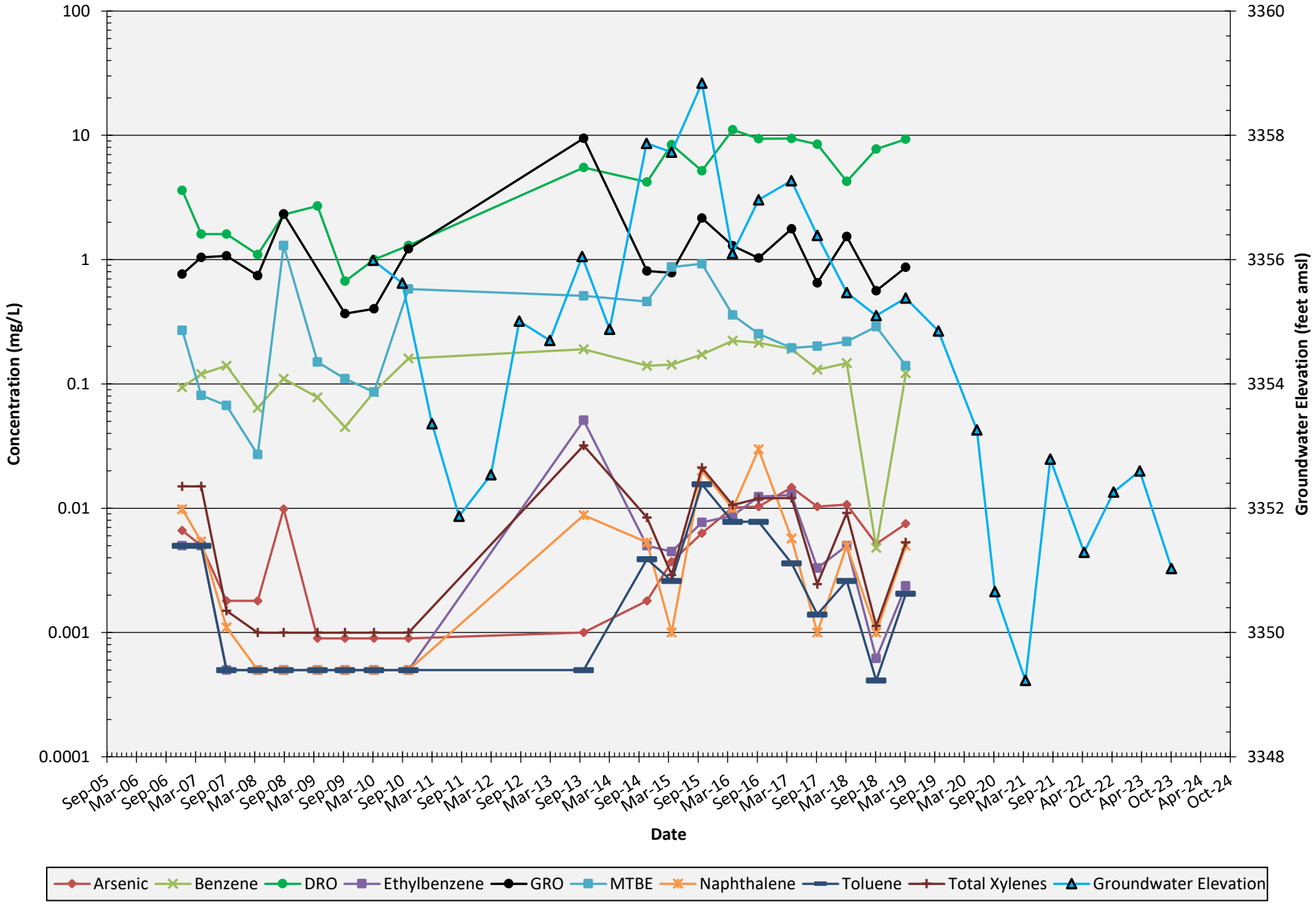


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Received by OCD: 6/12/2024 3:31:05 PM

MW-67: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

North Refinery

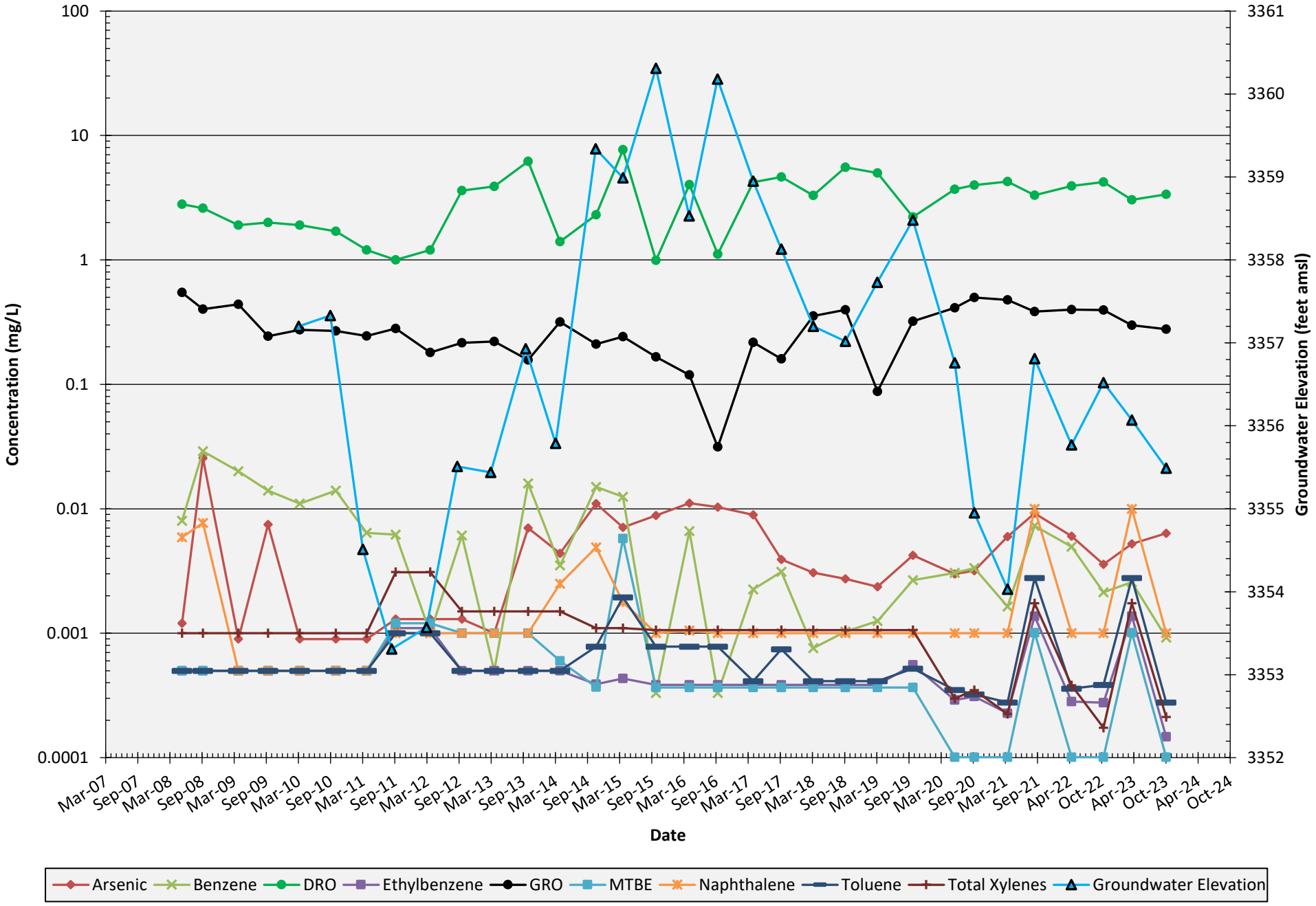


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

MW-90: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

North Refinery

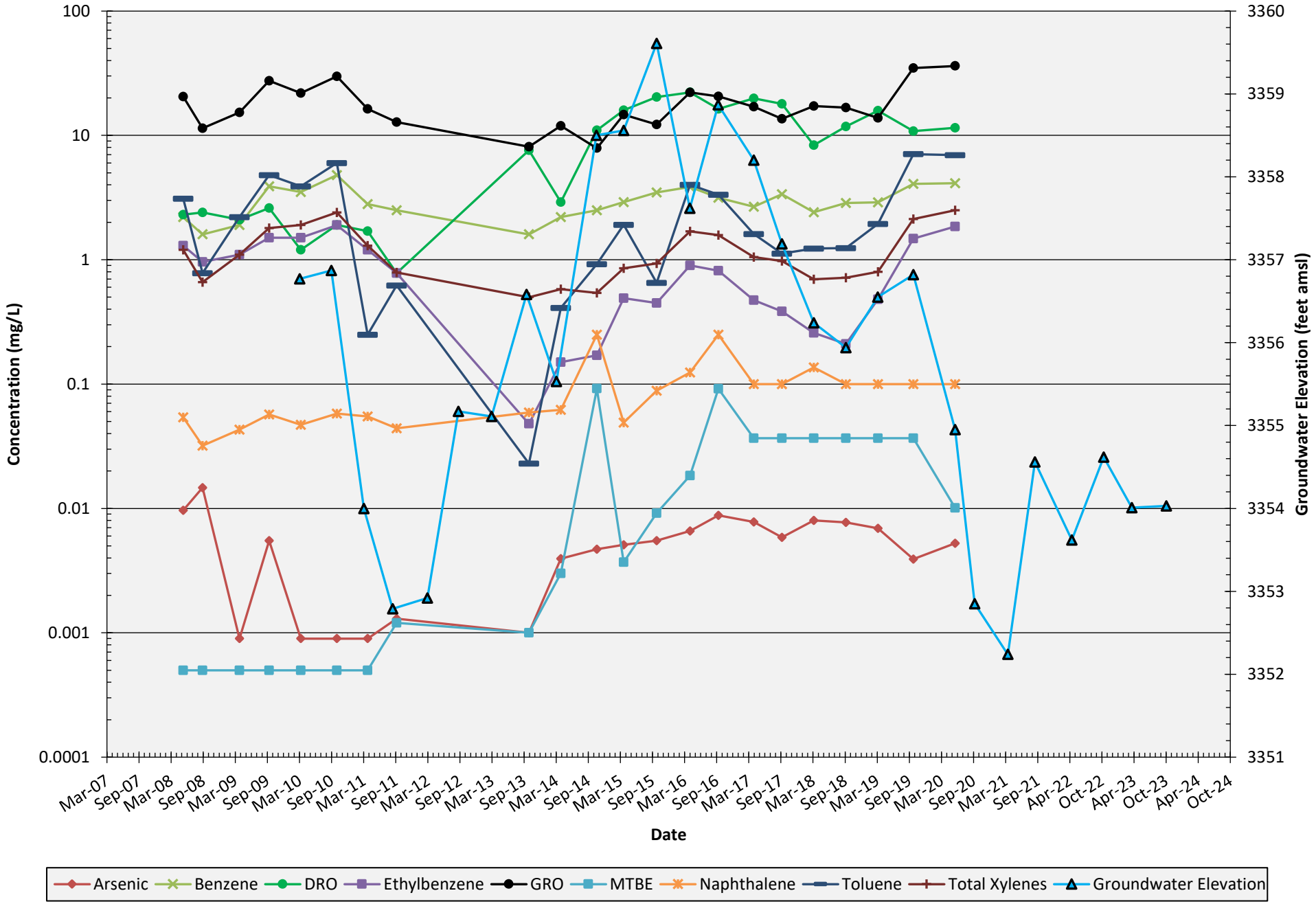


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Received by OCD: 6/12/2024 3:31:05 PM

MW-91: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

North Refinery

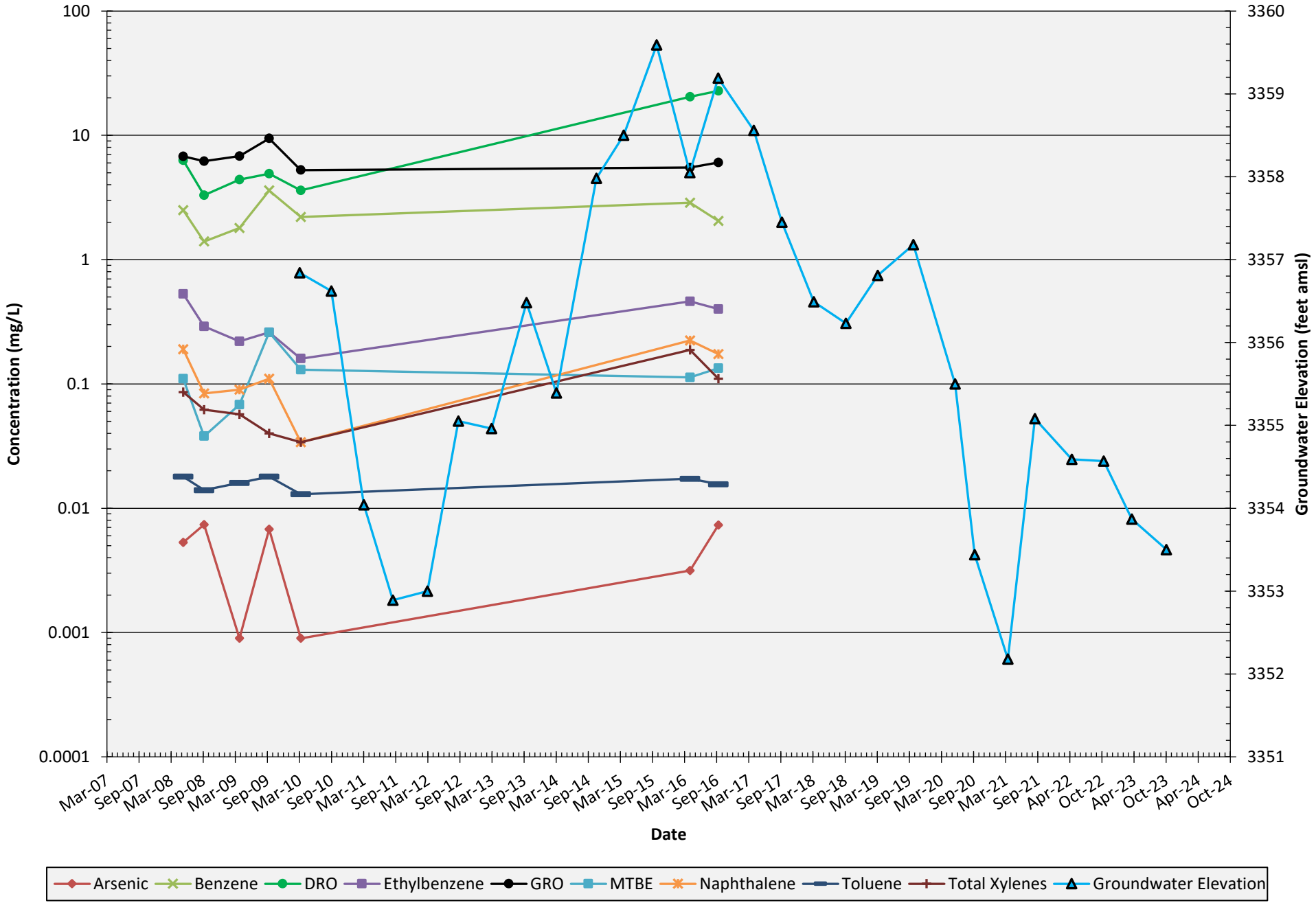


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Received by OCD: 6/12/2024 3:31:05 PM

MW-92: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

North Refinery

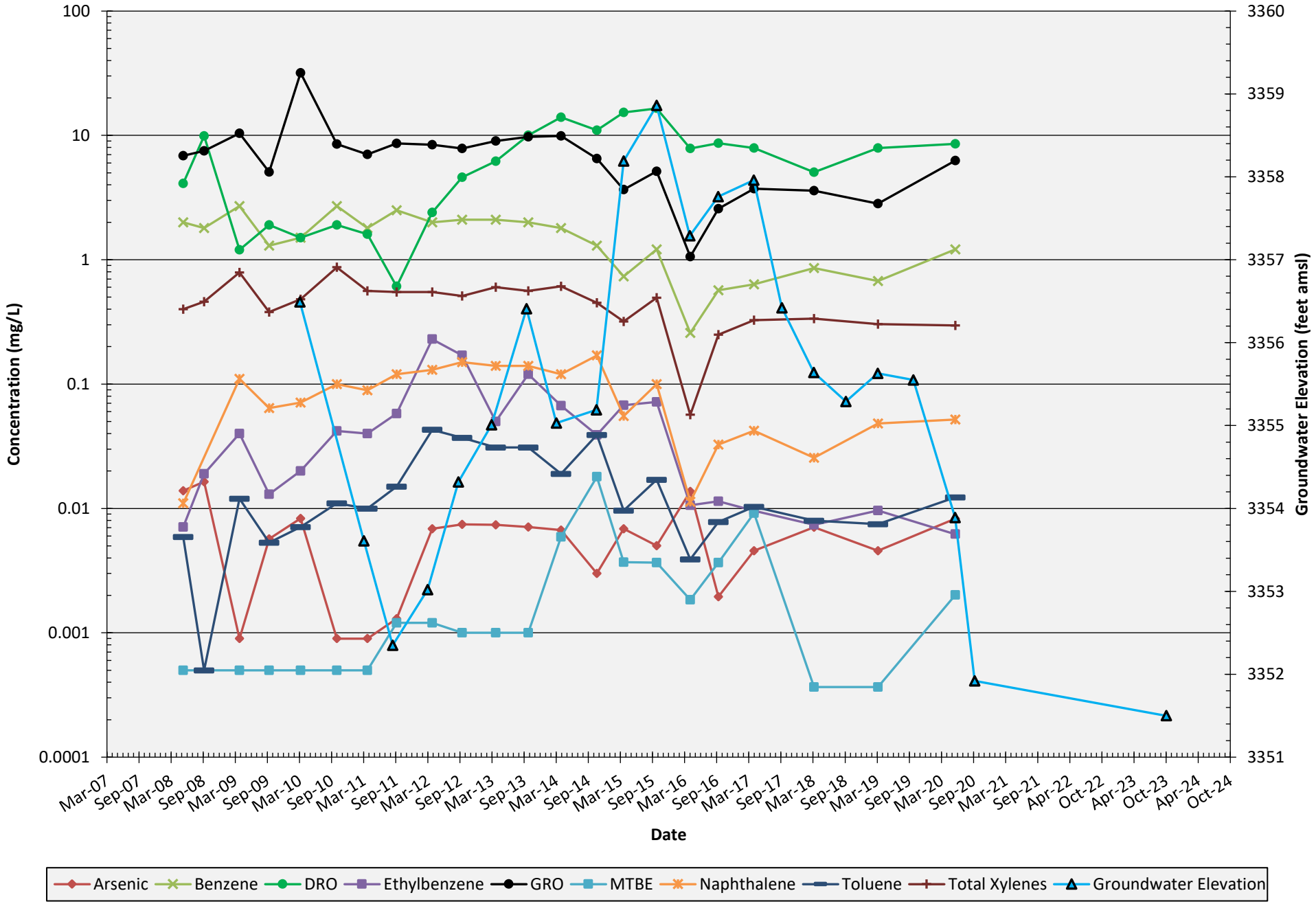


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

MW-93: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

North Refinery

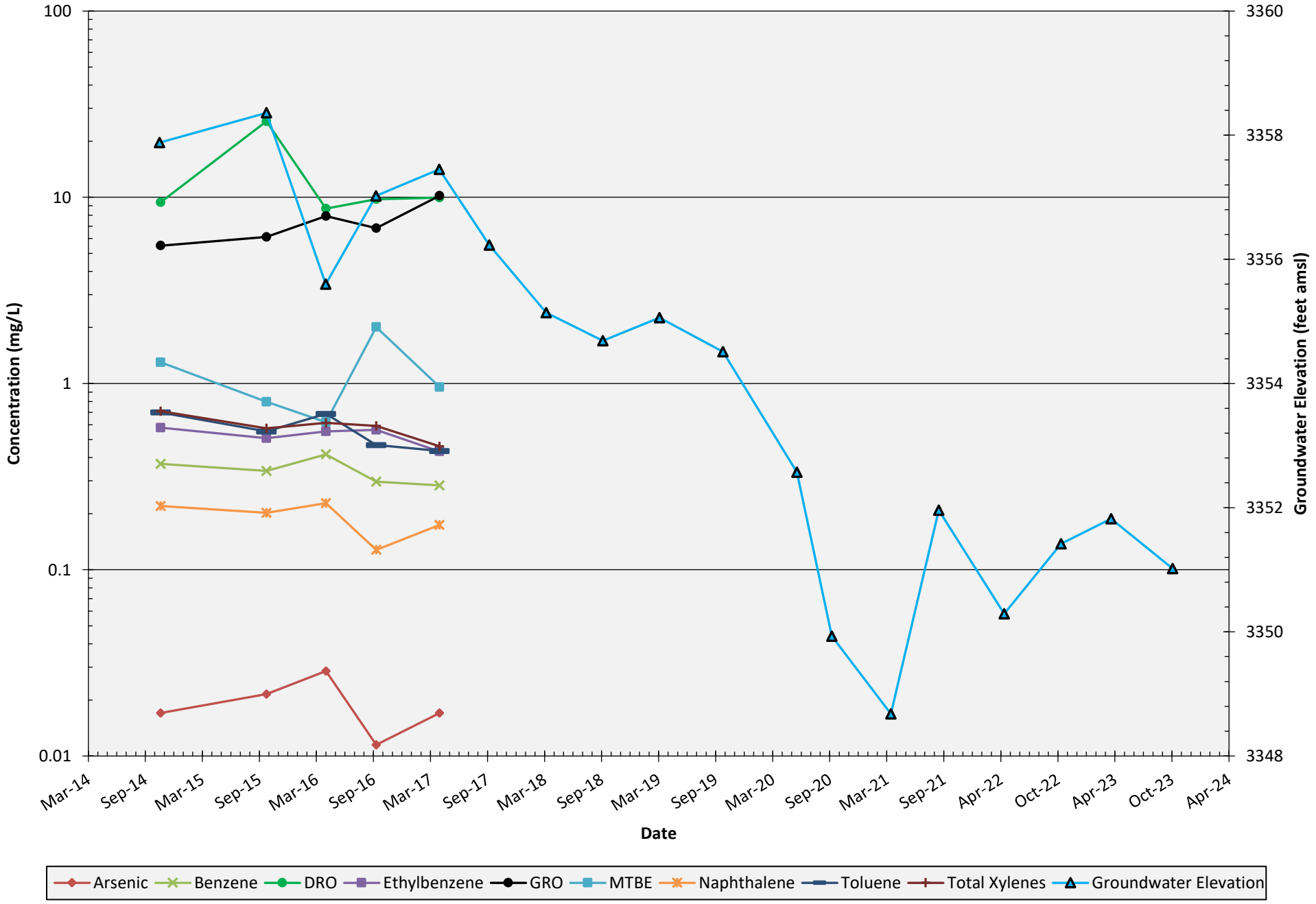


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

MW-94: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

North Refinery

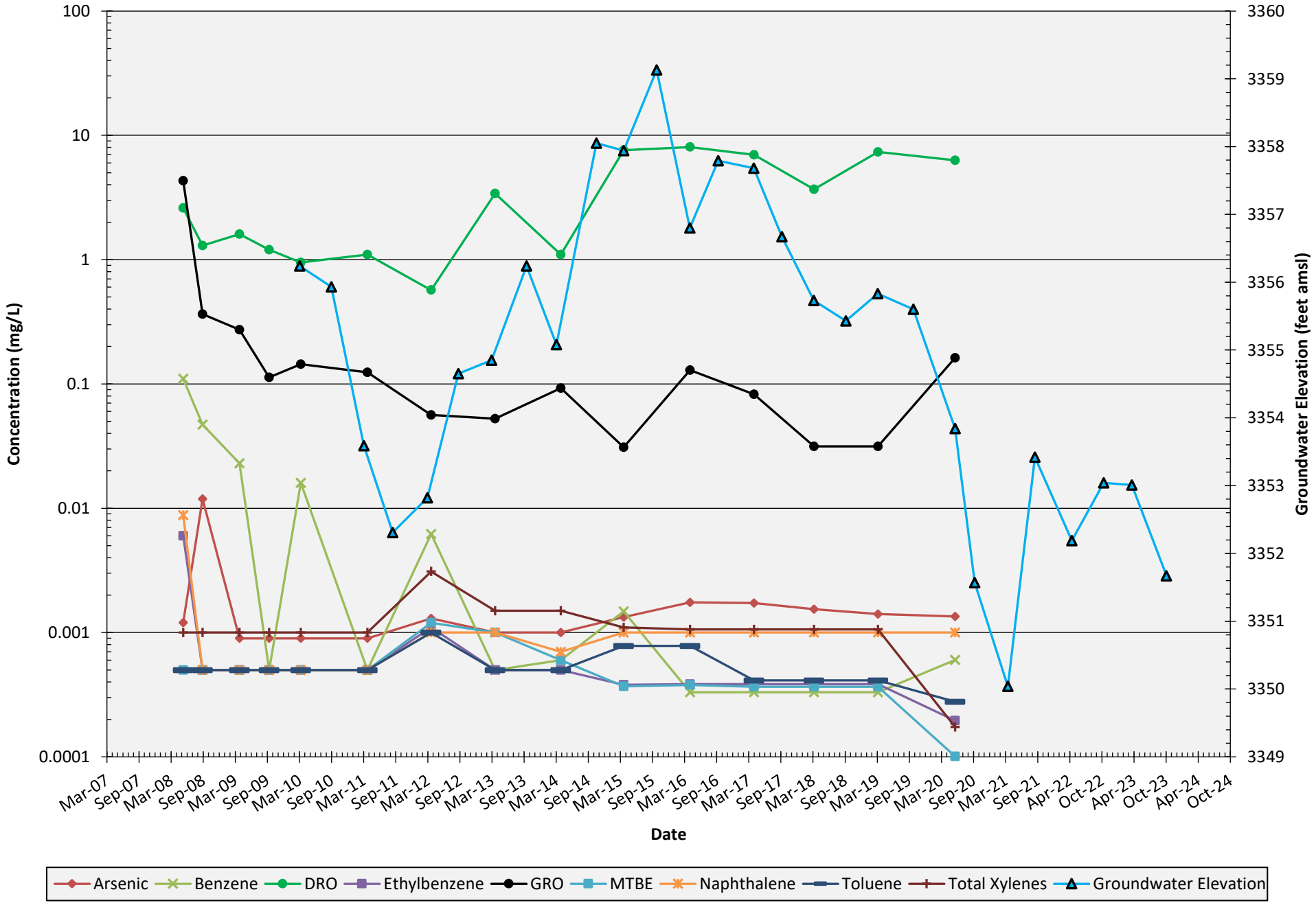


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

MW-95: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

North Refinery

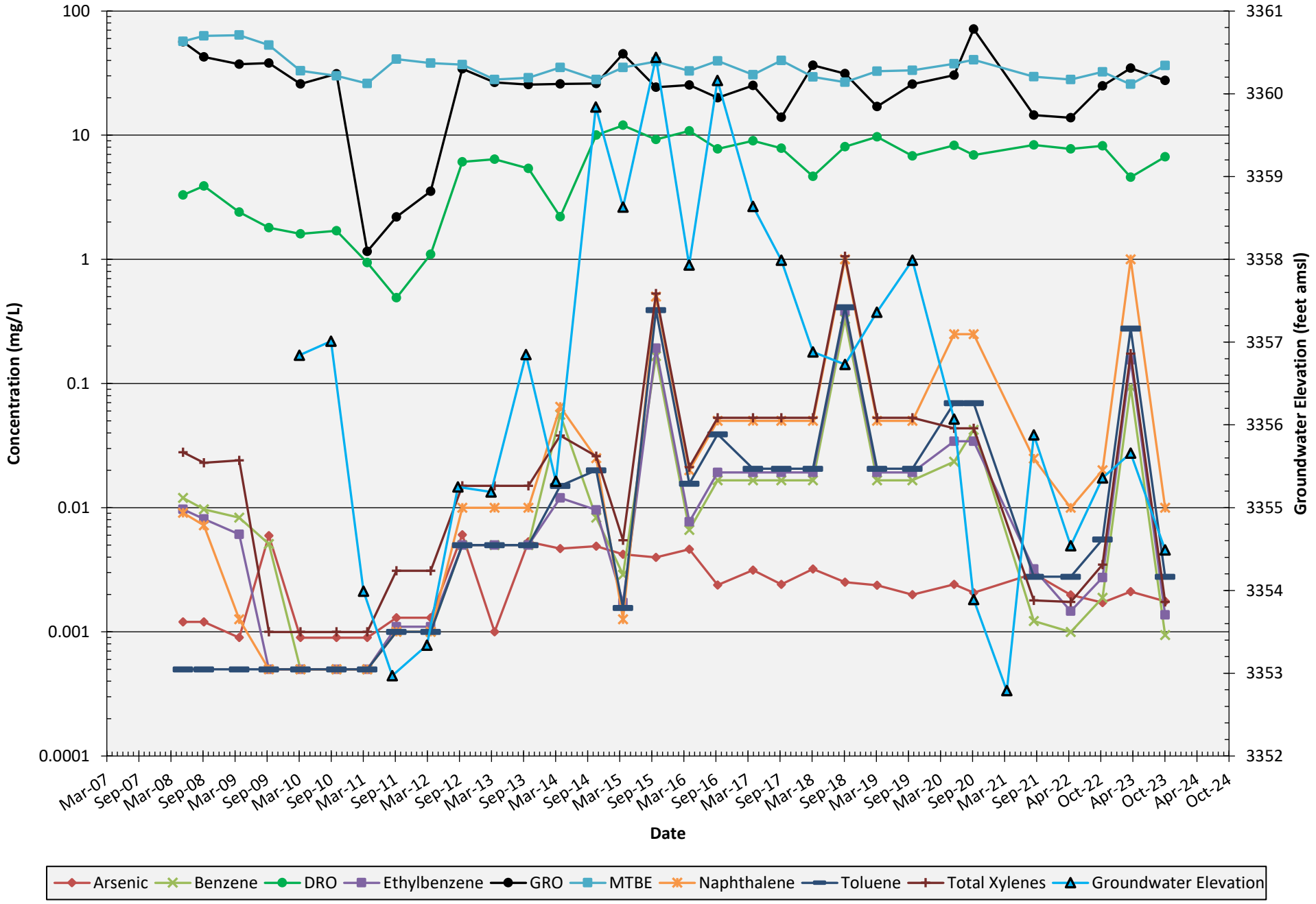


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

MW-96: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

North Refinery

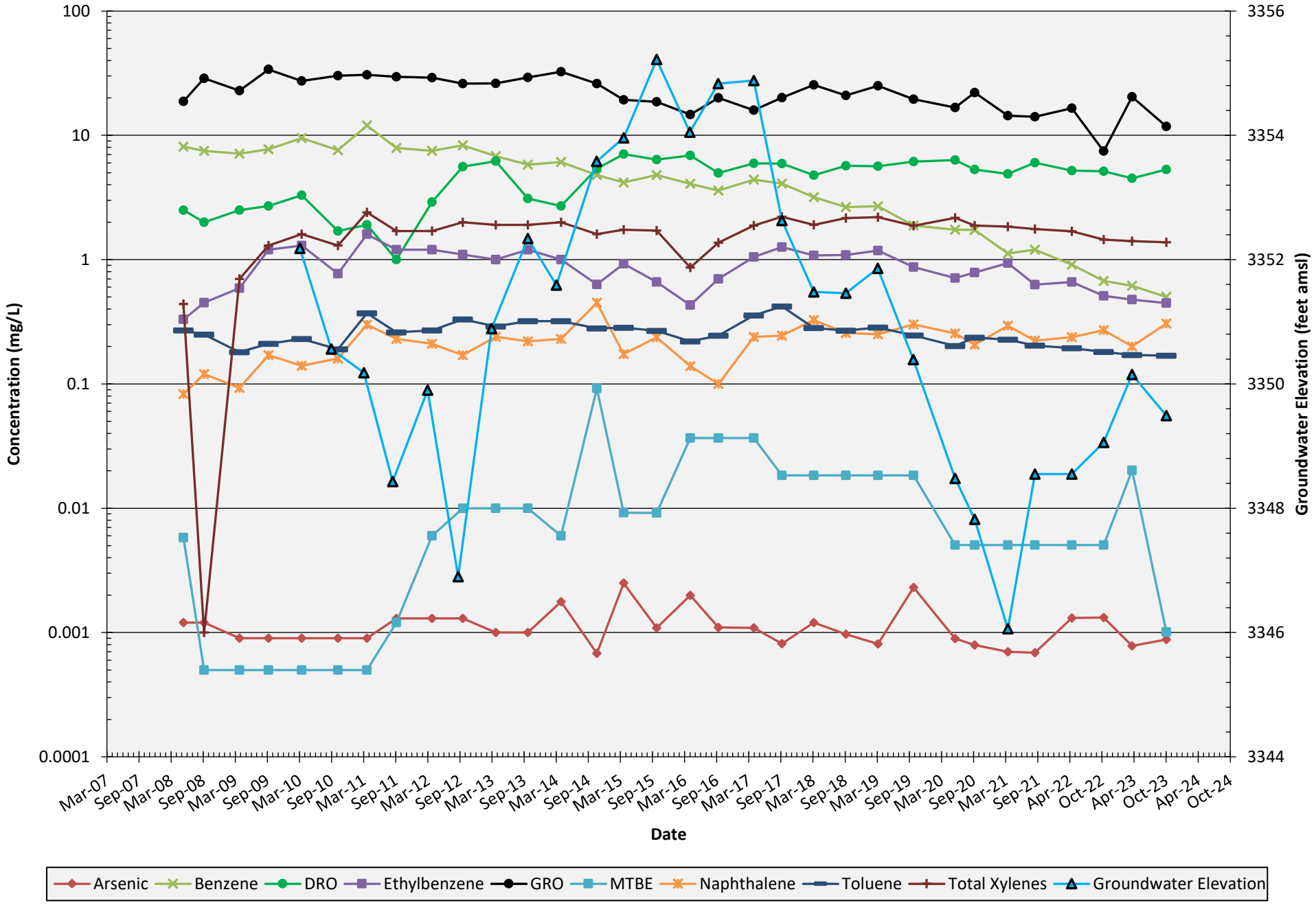


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

MW-98: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

North Refinery

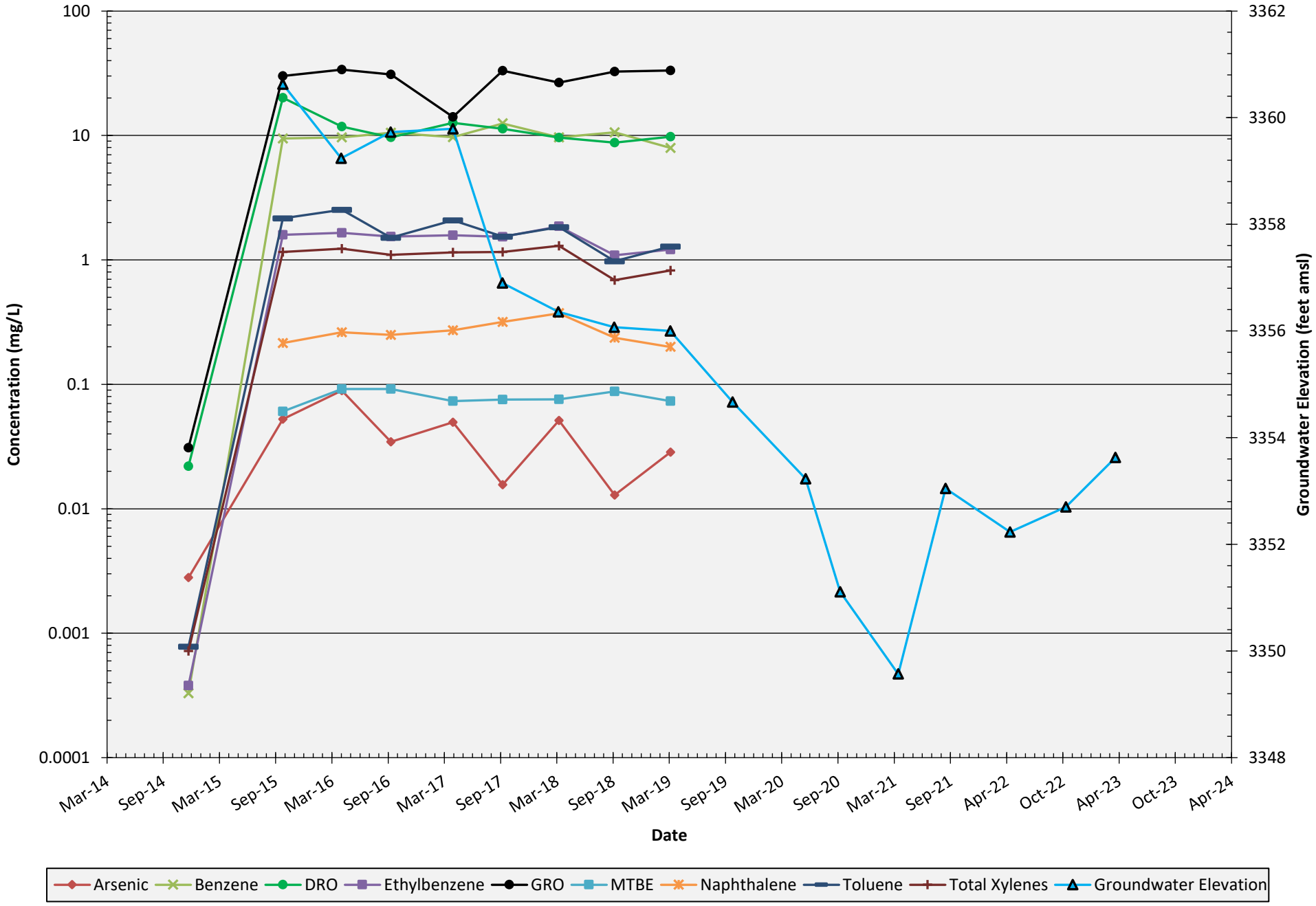


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Received by OCD: 6/12/2024 3:31:05 PM

MW-137: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

North Refinery

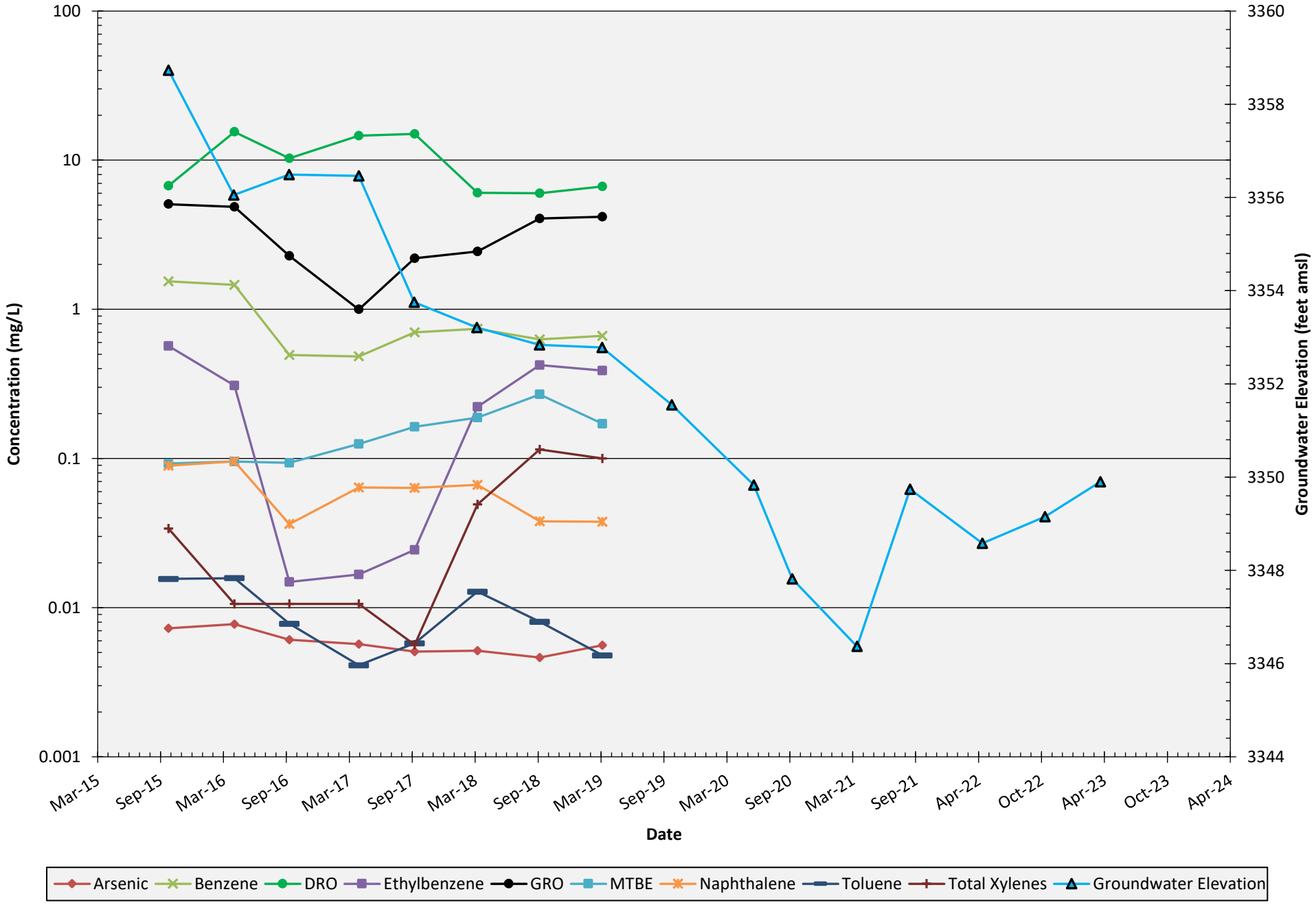


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

MW-138: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

North Refinery

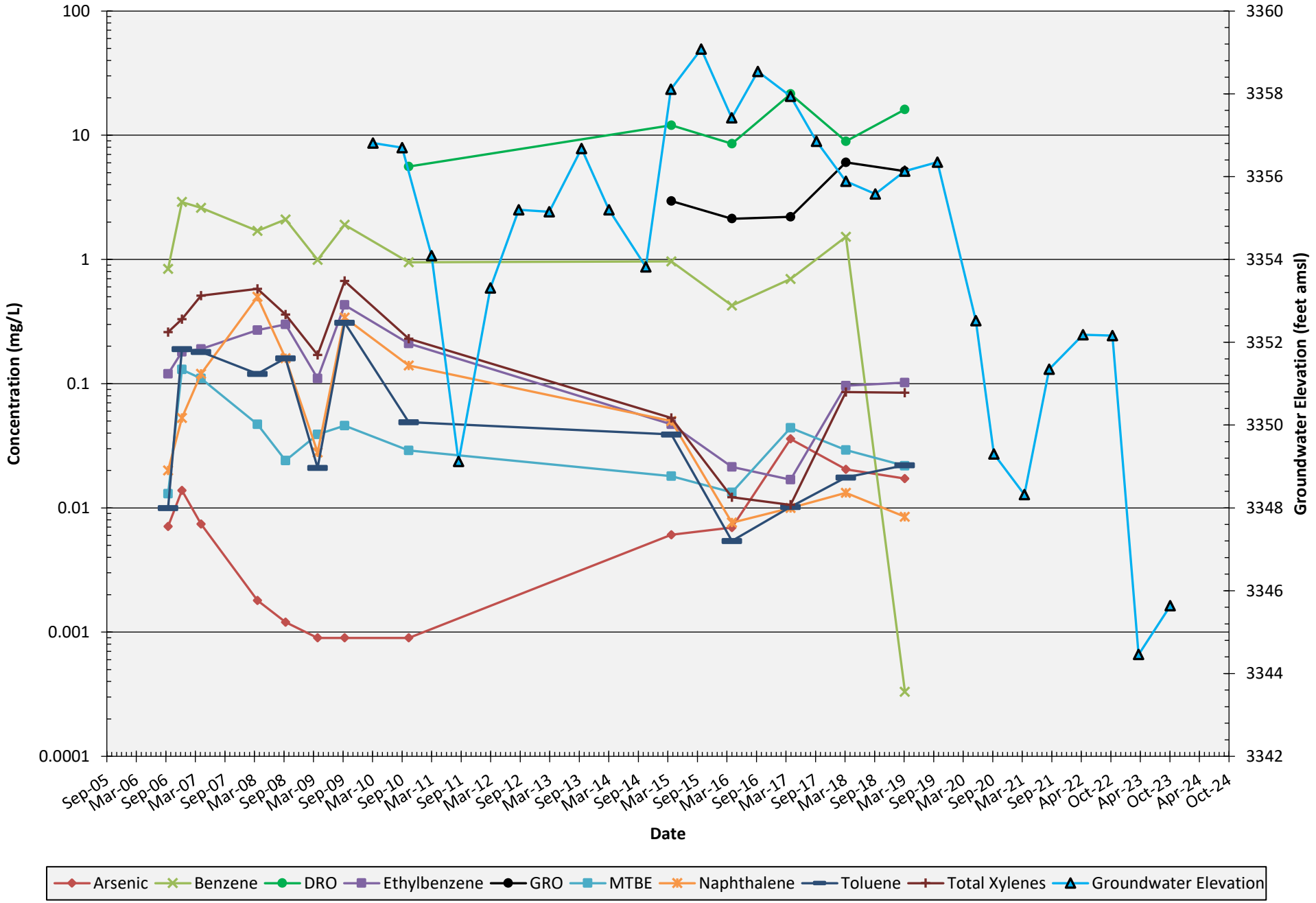


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

RW-1 & RW-1R: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

North Refinery

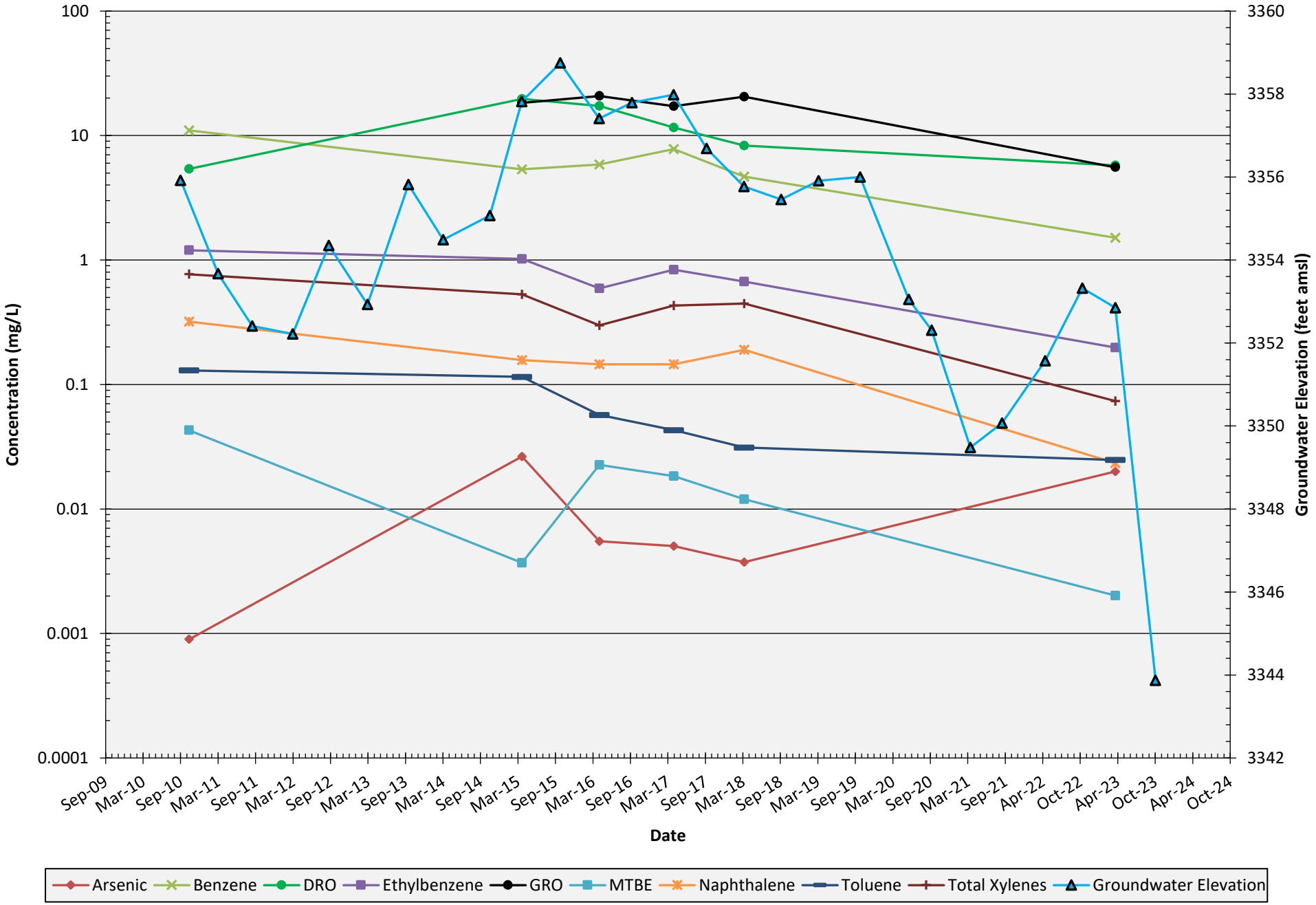


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Received by OCD: 6/12/2024 3:31:05 PM

RW-2 & RW-2R: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

North Refinery

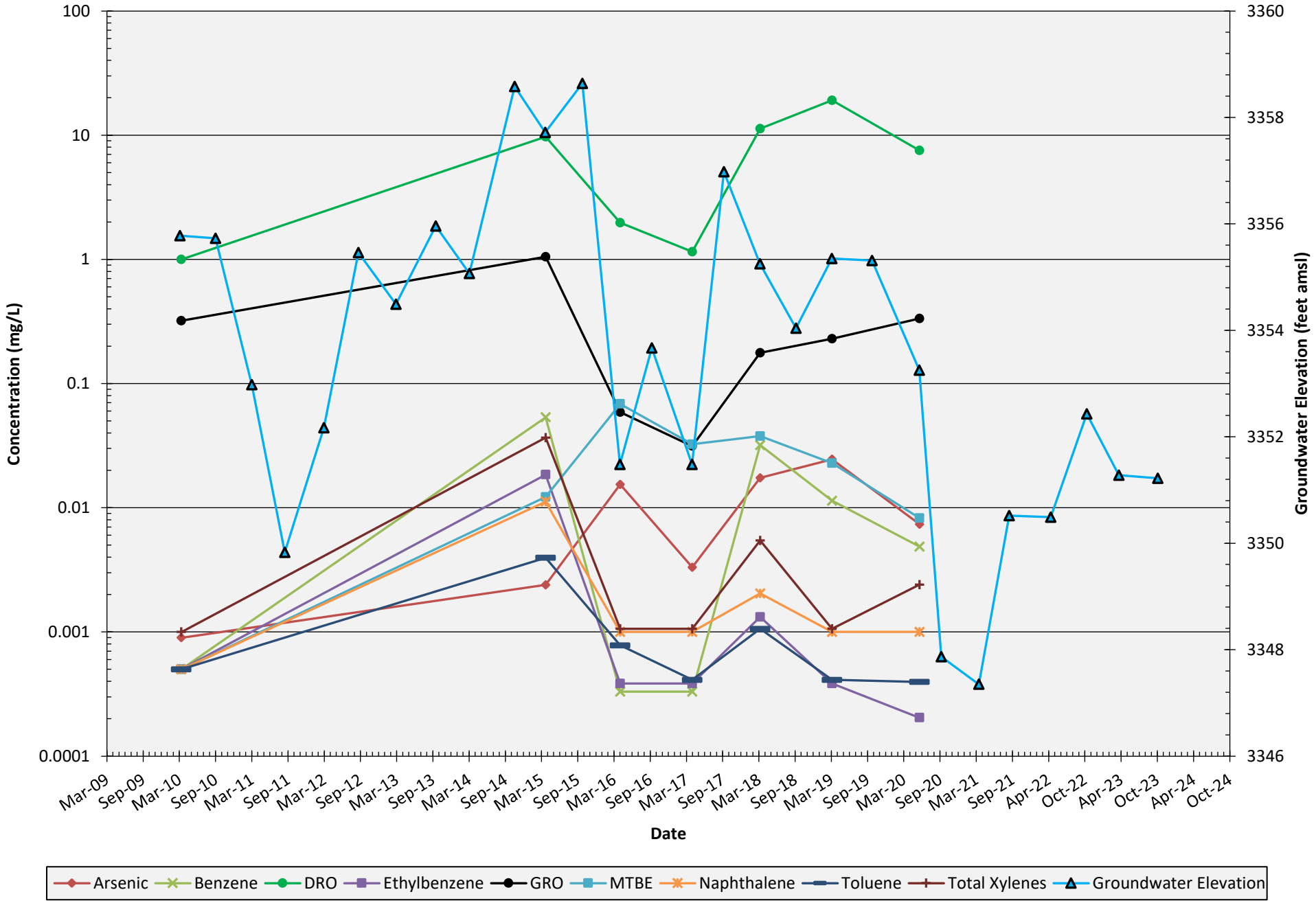


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Received by OCD: 6/12/2024 3:31:05 PM

RW-7 & RW-7R: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

North Refinery

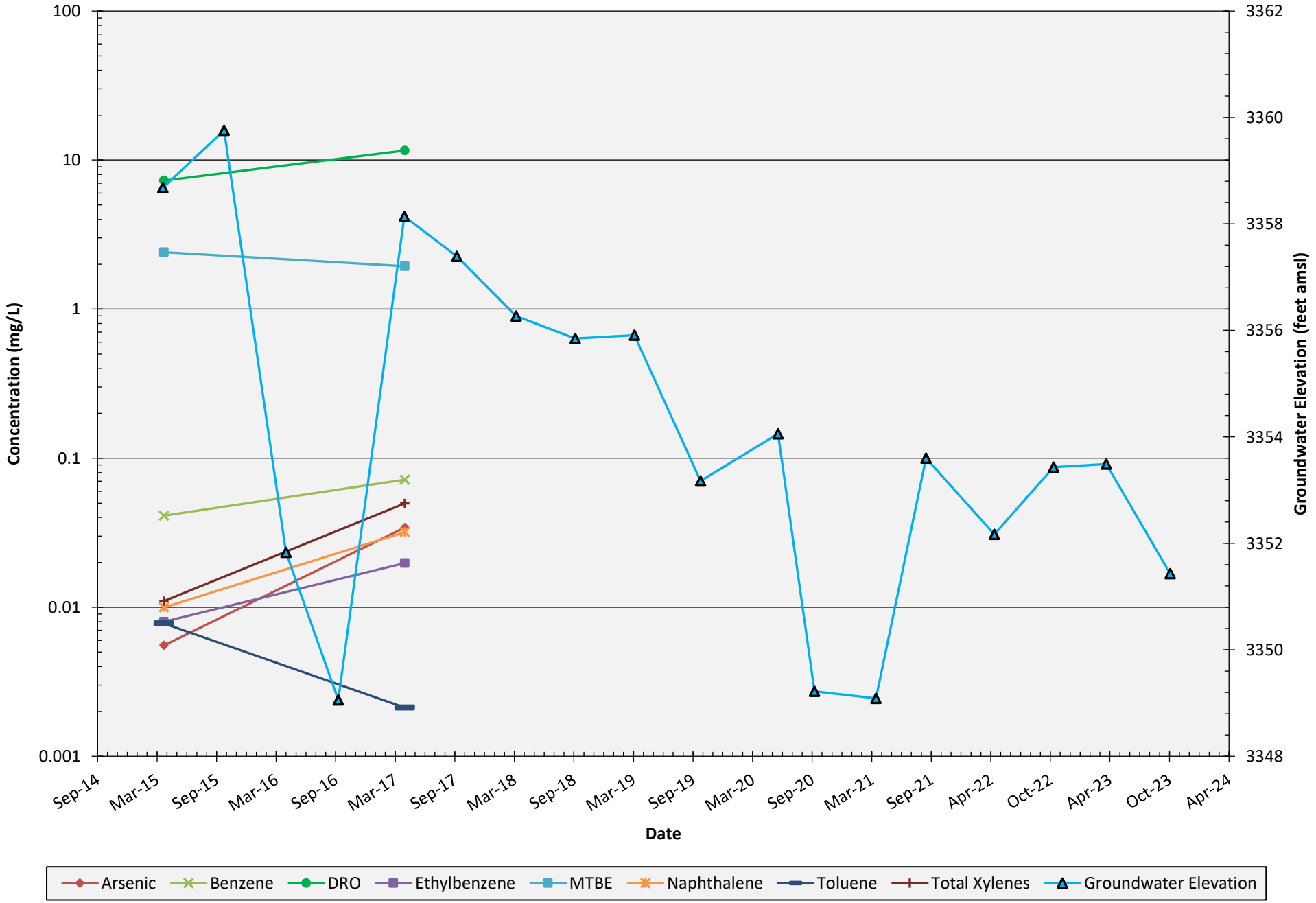


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Received by OCD: 6/12/2024 3:31:05 PM

RW-8: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

North Refinery

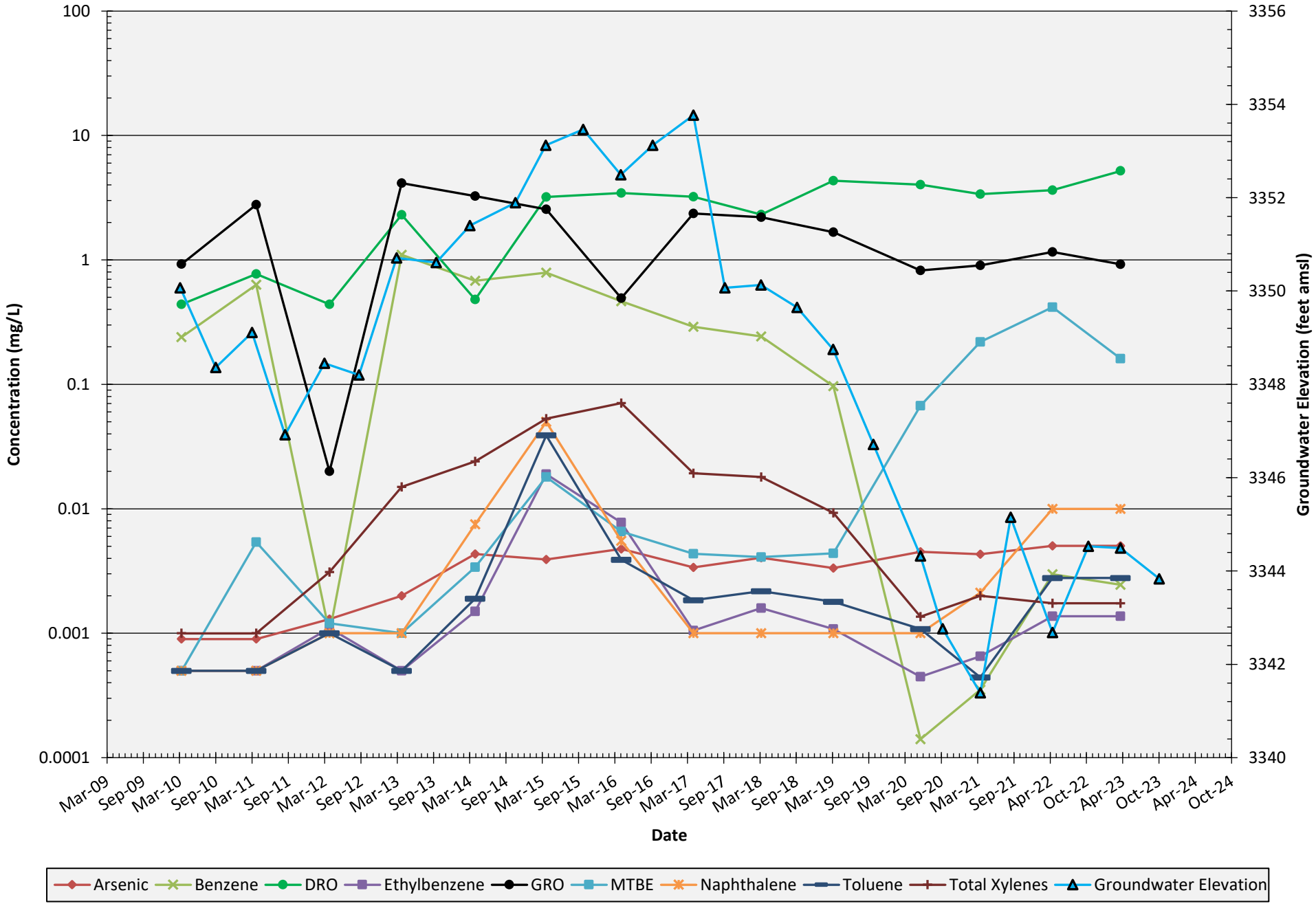


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Received by OCD: 6/12/2024 3:31:05 PM

RW-9: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

North Refinery

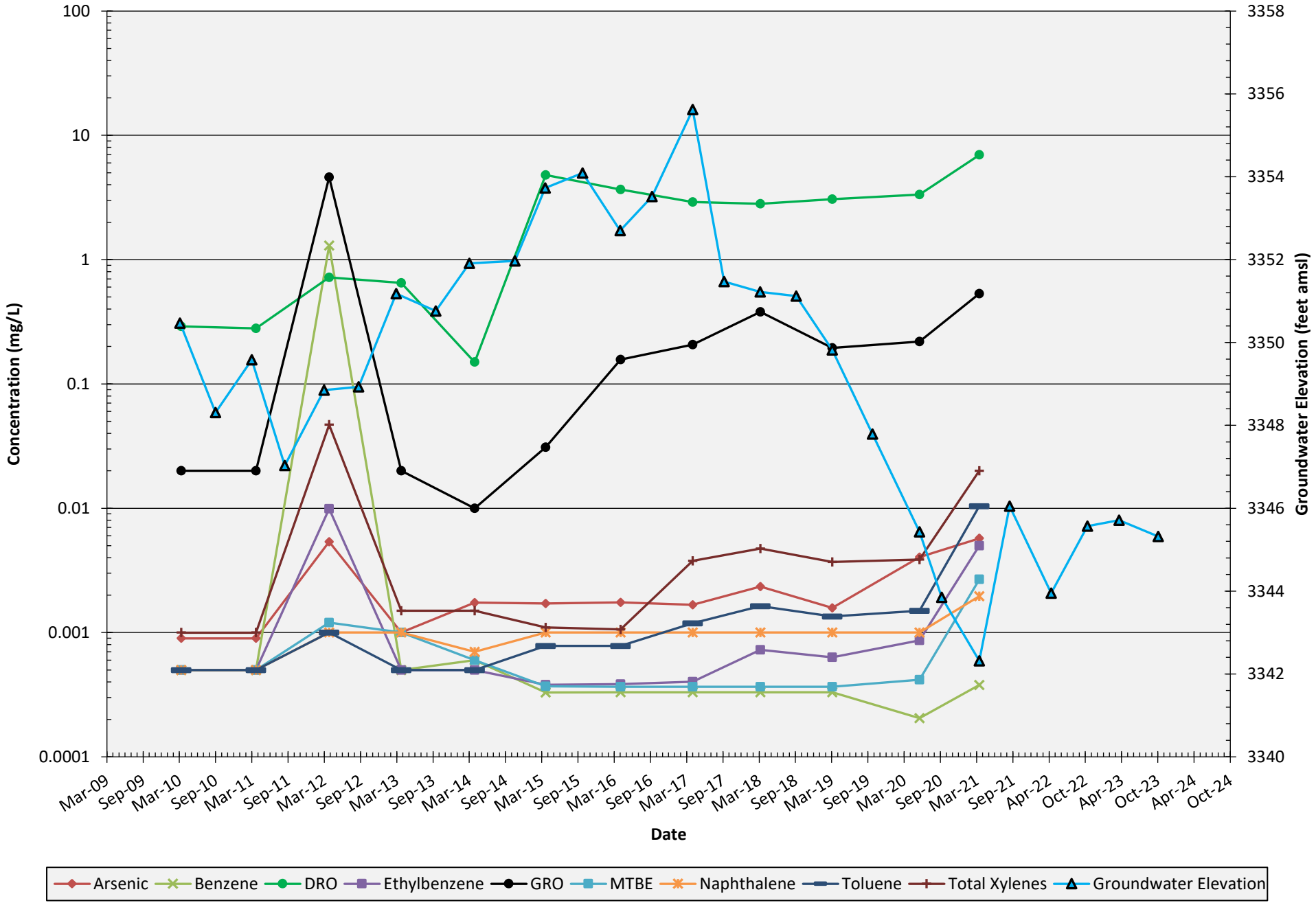


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Received by OCD: 6/12/2024 3:31:05 PM

RW-10: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

North Refinery

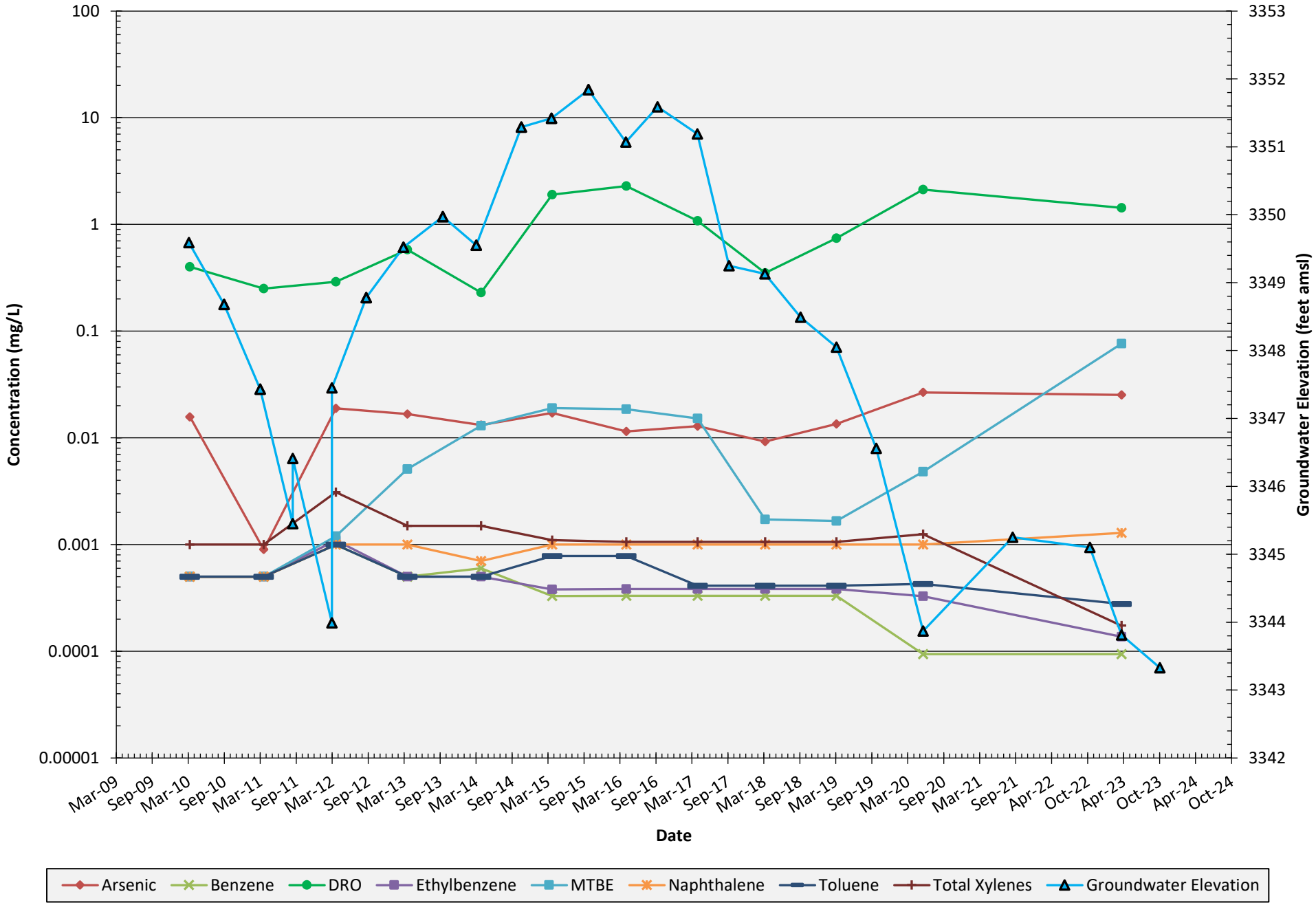


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Received by OCD: 6/12/2024 3:31:05 PM

RW-16: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

North Refinery

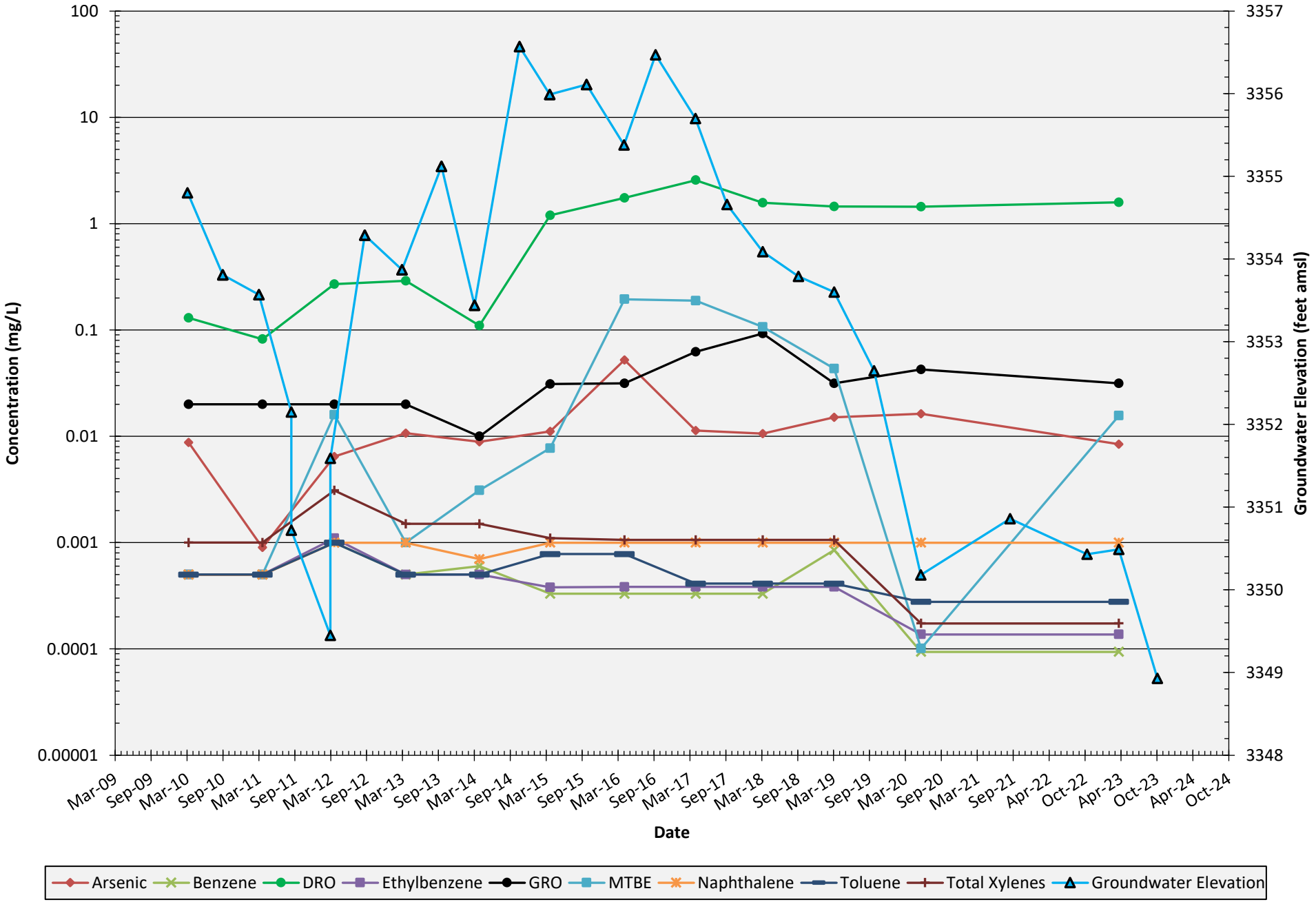


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Received by OCD: 6/12/2024 3:31:05 PM

RW-17: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

North Refinery

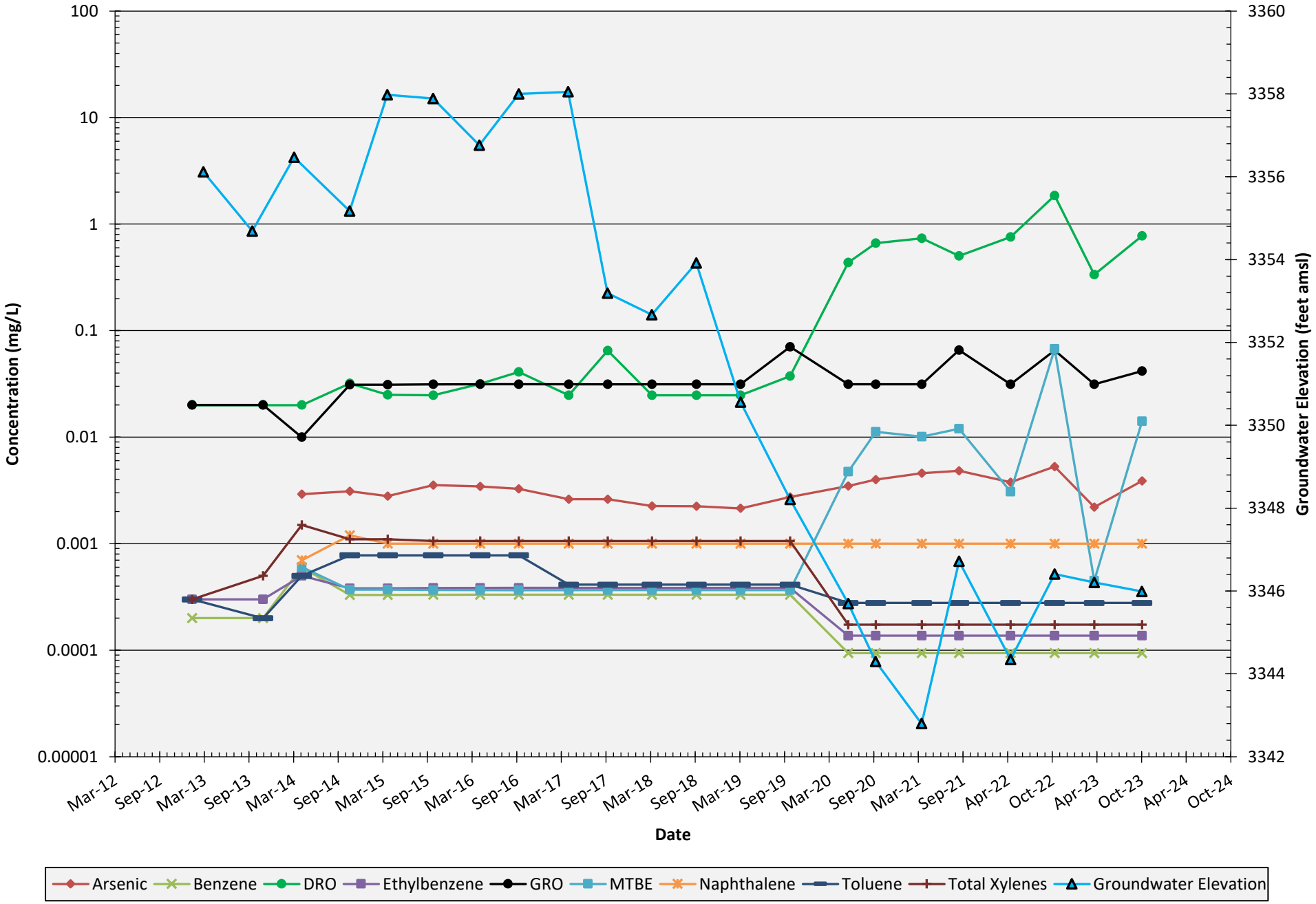


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Received by OCD: 6/12/2024 3:31:05 PM

MW-114: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Reverse Osmosis Reject Field

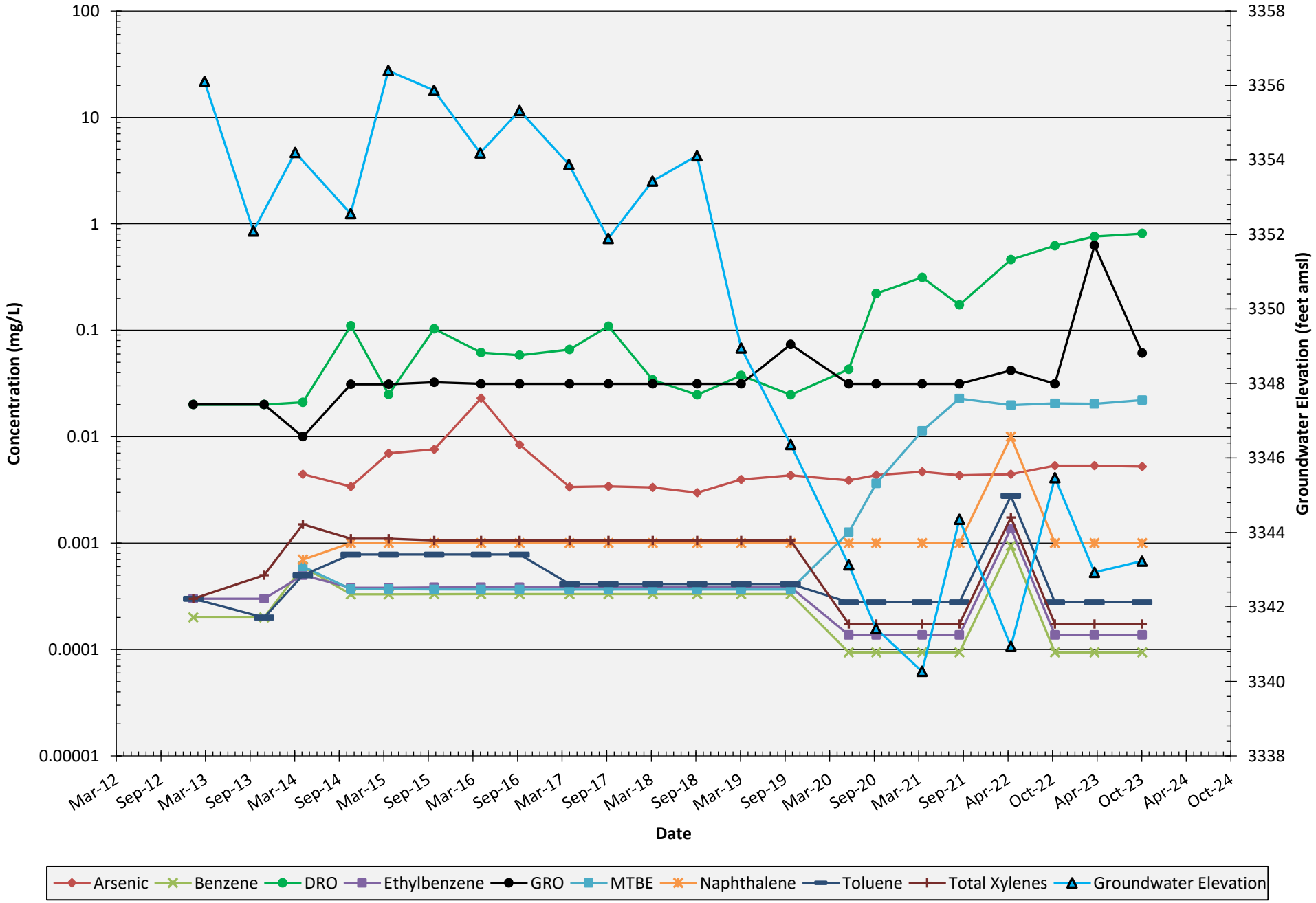


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

MW-115: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Reverse Osmosis Reject Field

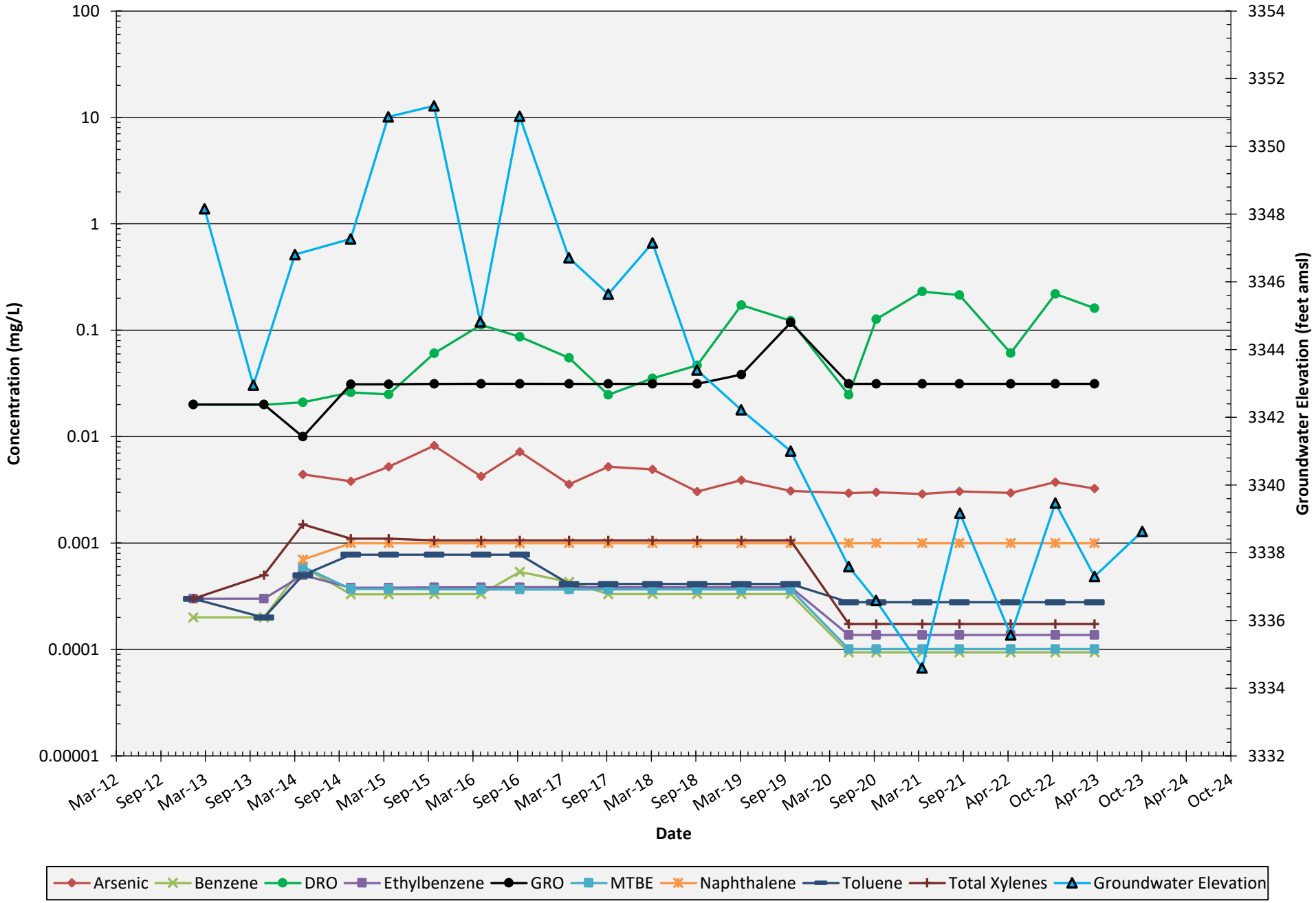


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

MW-116: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Reverse Osmosis Reject Field

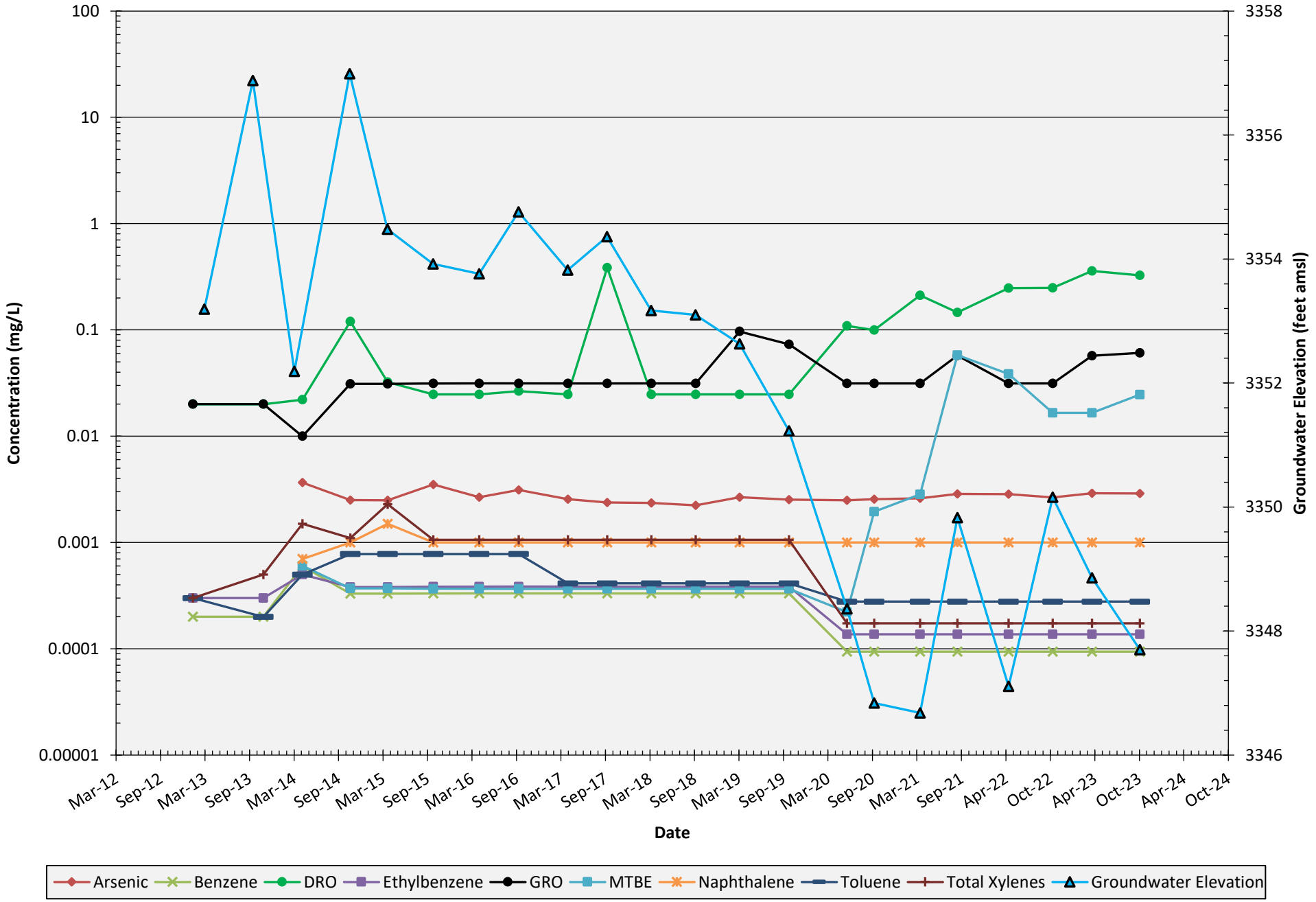


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

MW-117: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Reverse Osmosis Reject Field

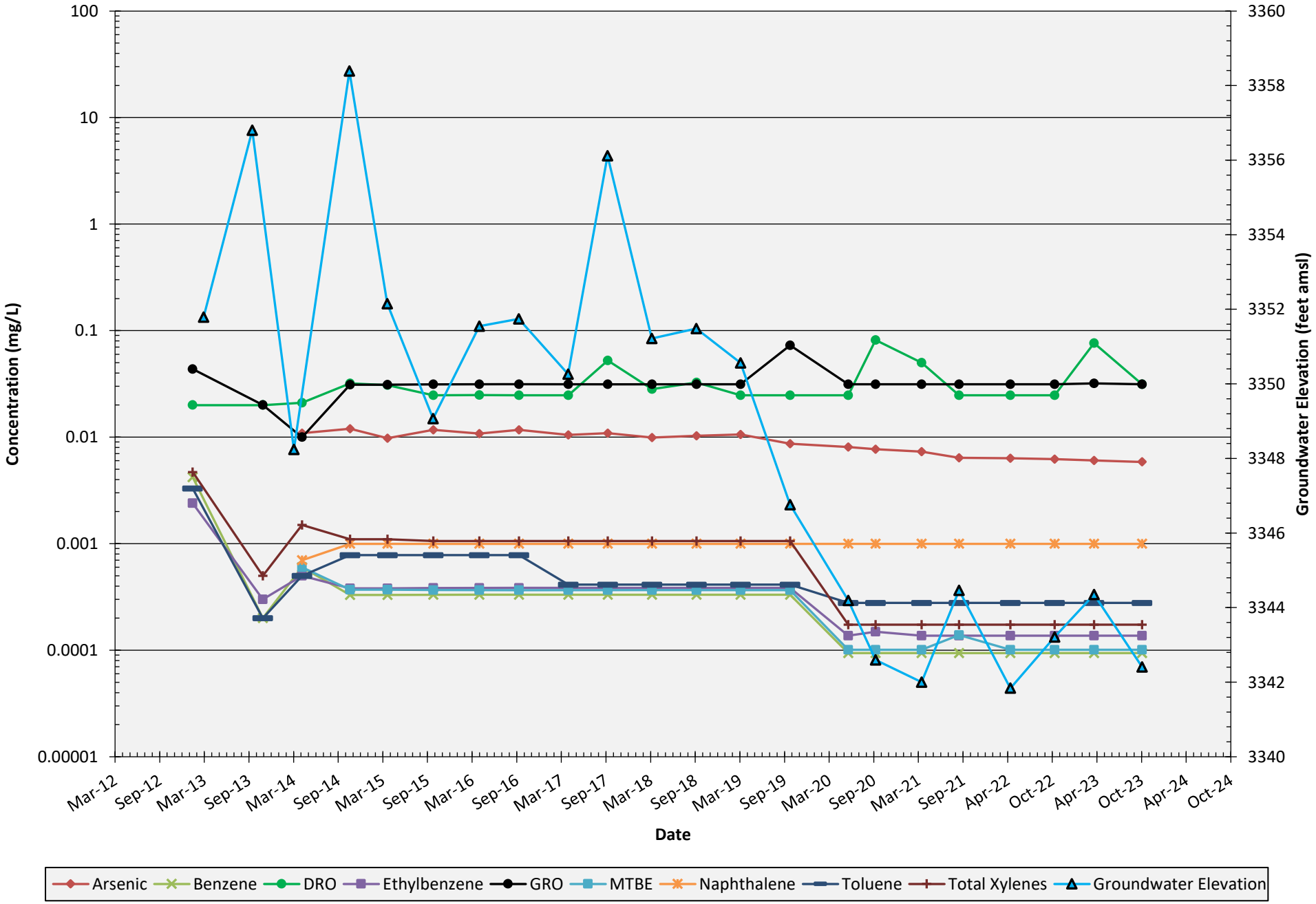


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

MW-118: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Reverse Osmosis Reject Field

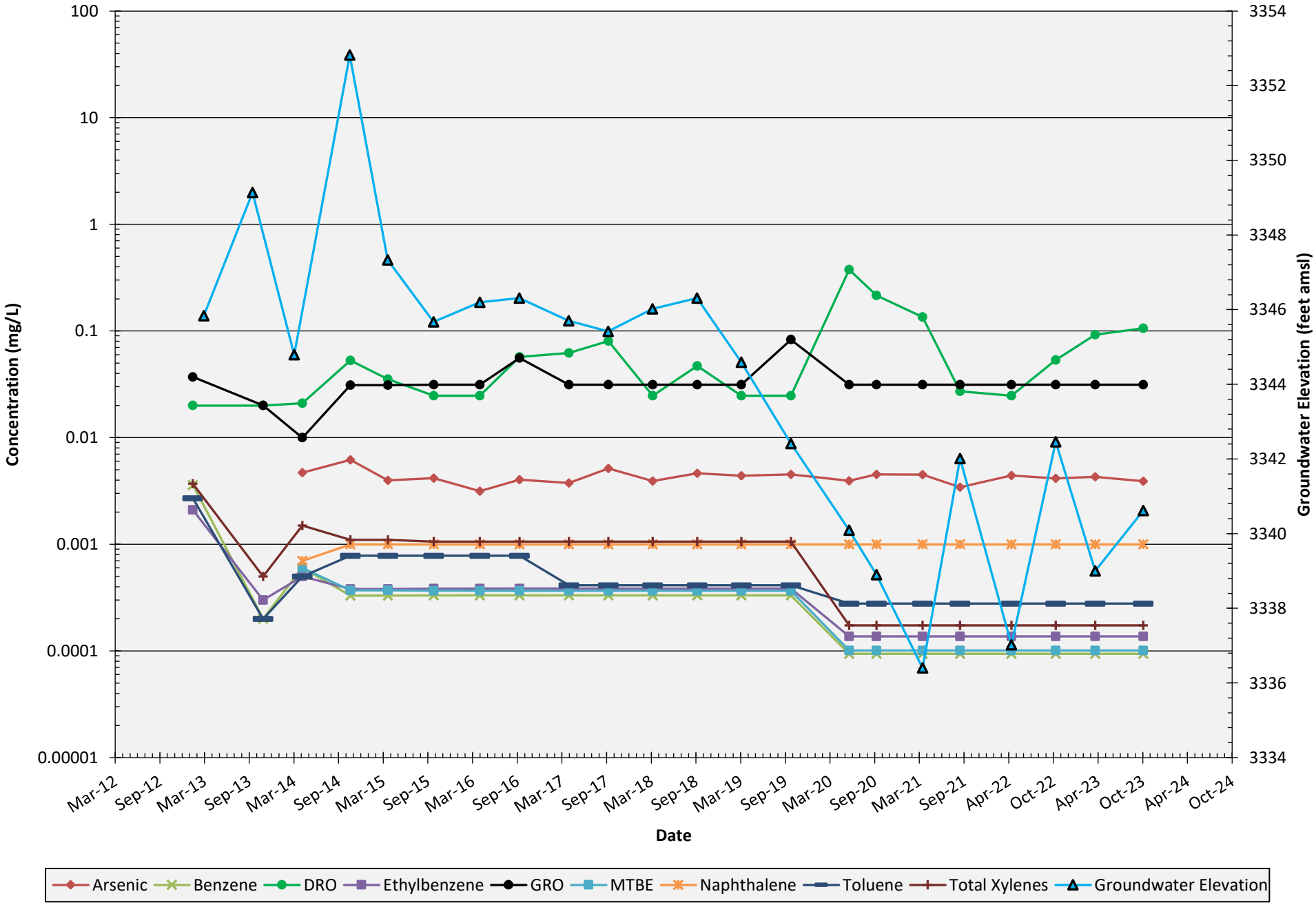


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

MW-119: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Reverse Osmosis Reject Field

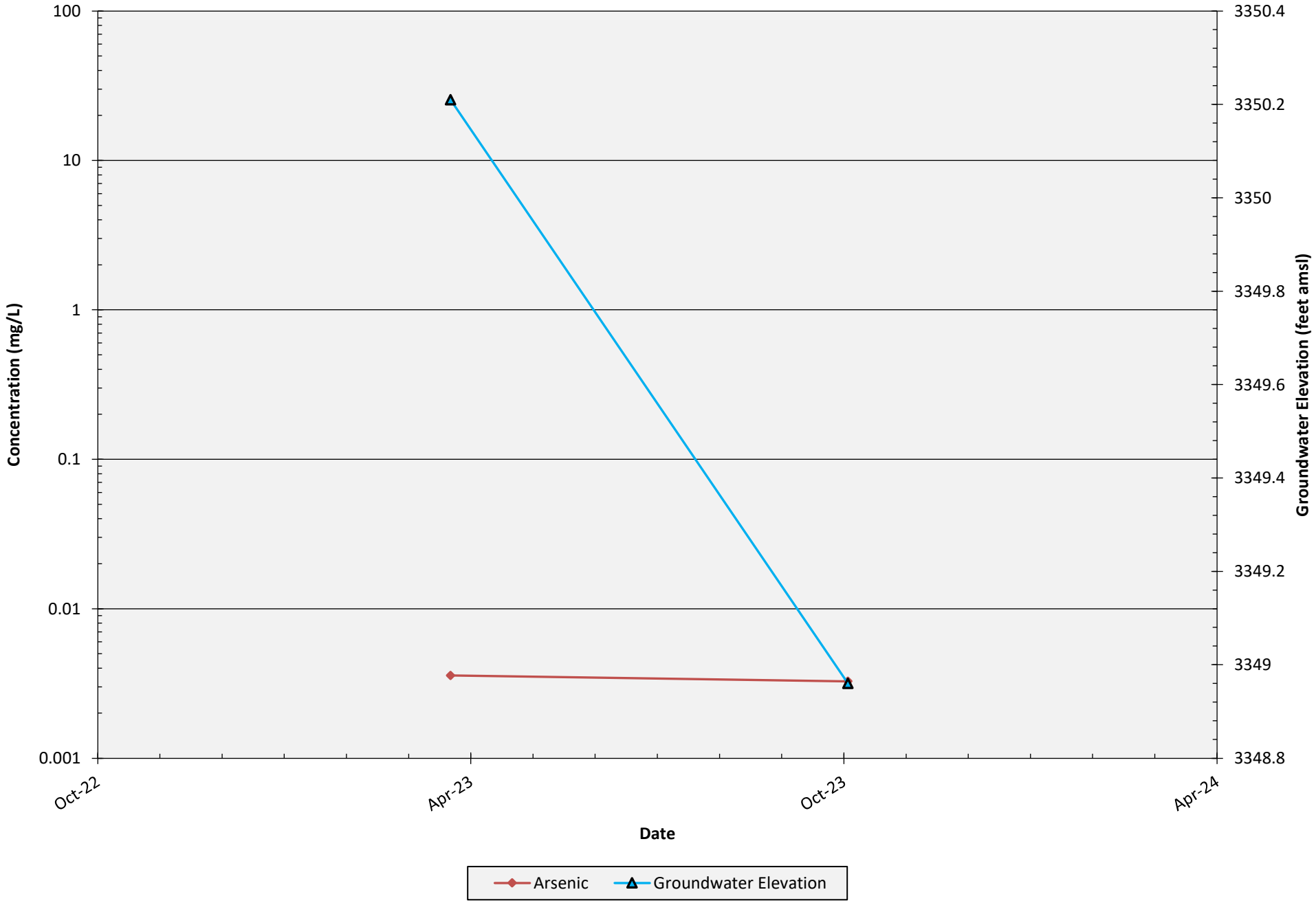


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

MW-140: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Reverse Osmosis Reject Field

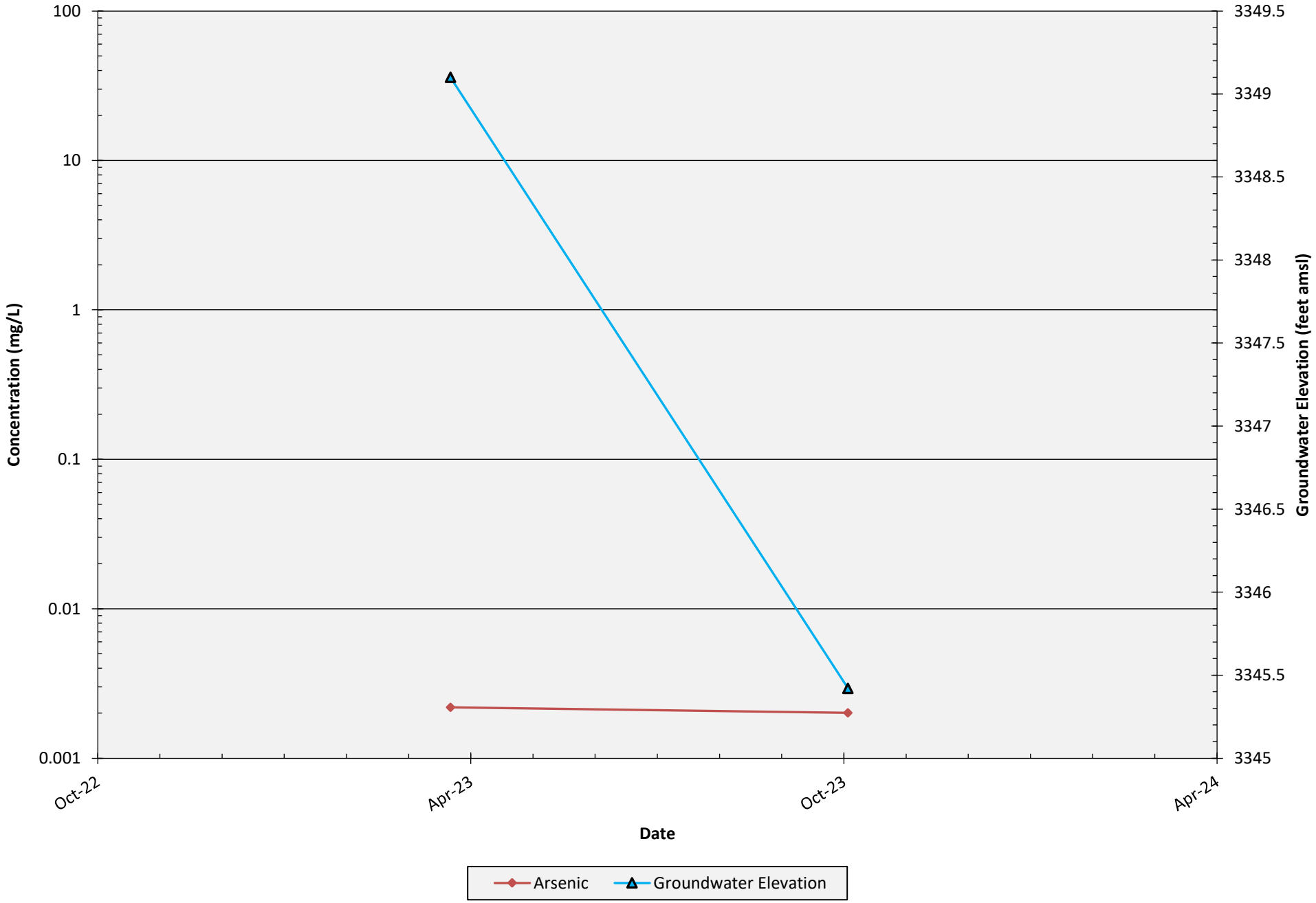


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

MW-141: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Reverse Osmosis Reject Field

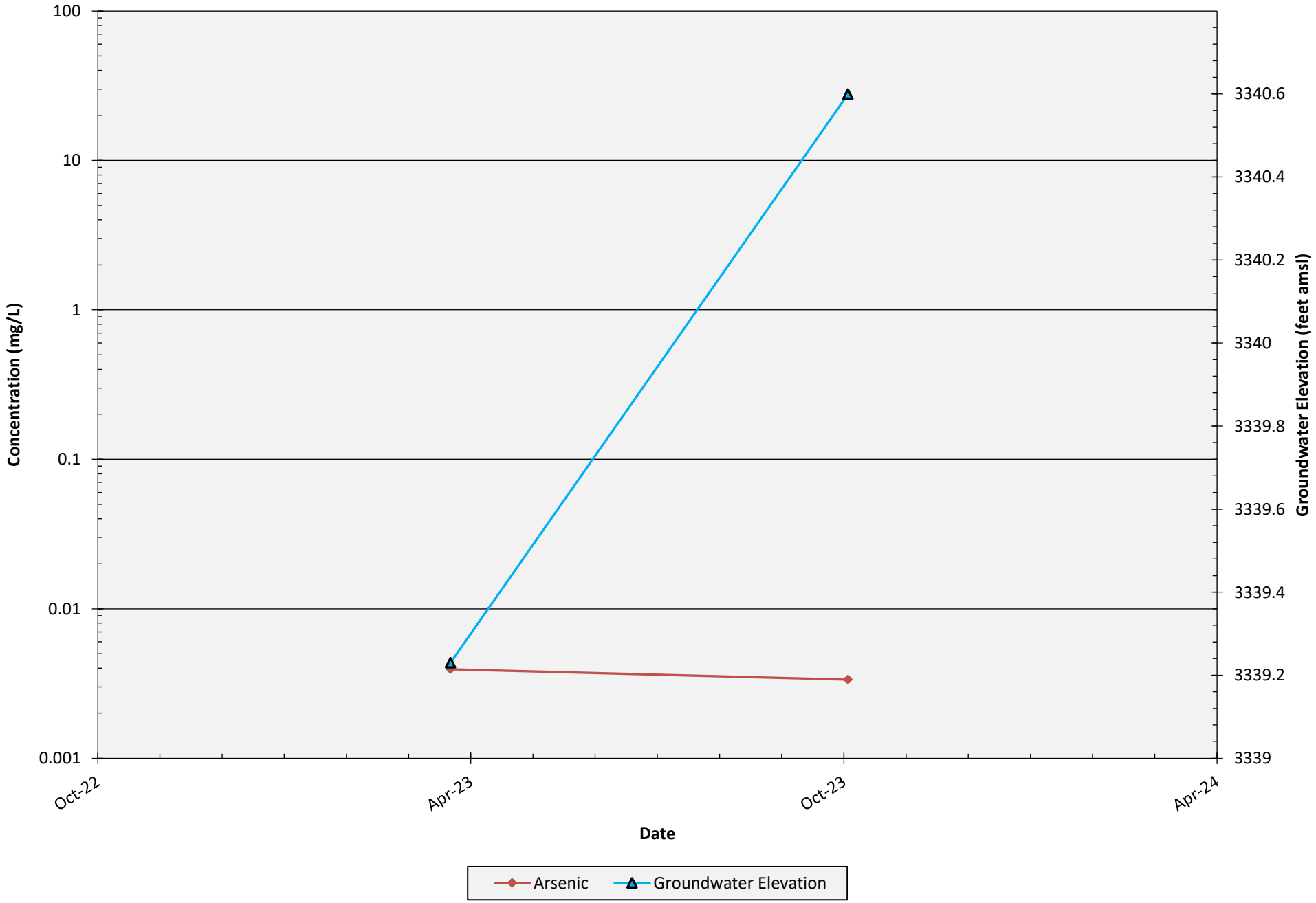


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

MW-142: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Reverse Osmosis Reject Field

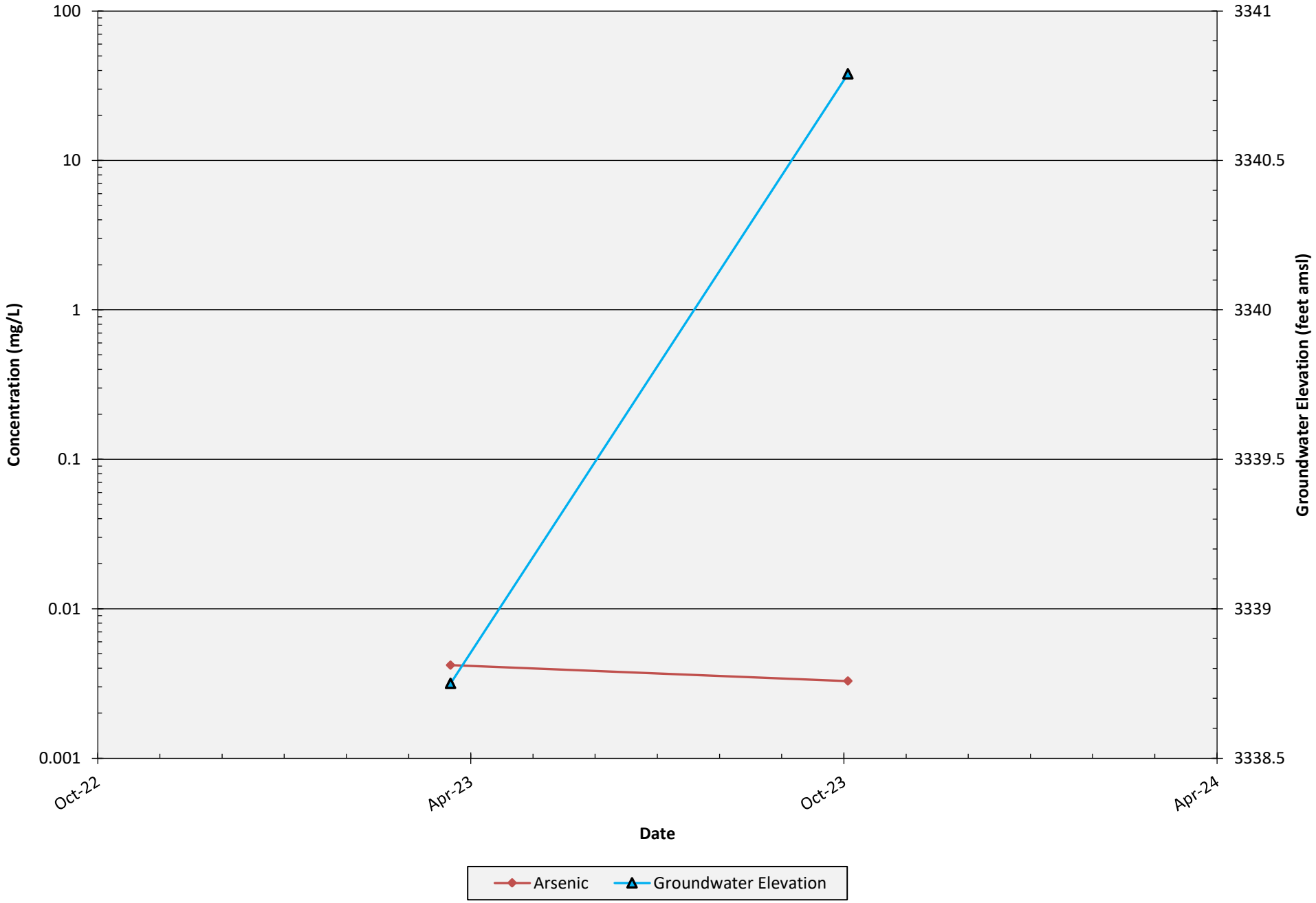


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

MW-143: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Reverse Osmosis Reject Field

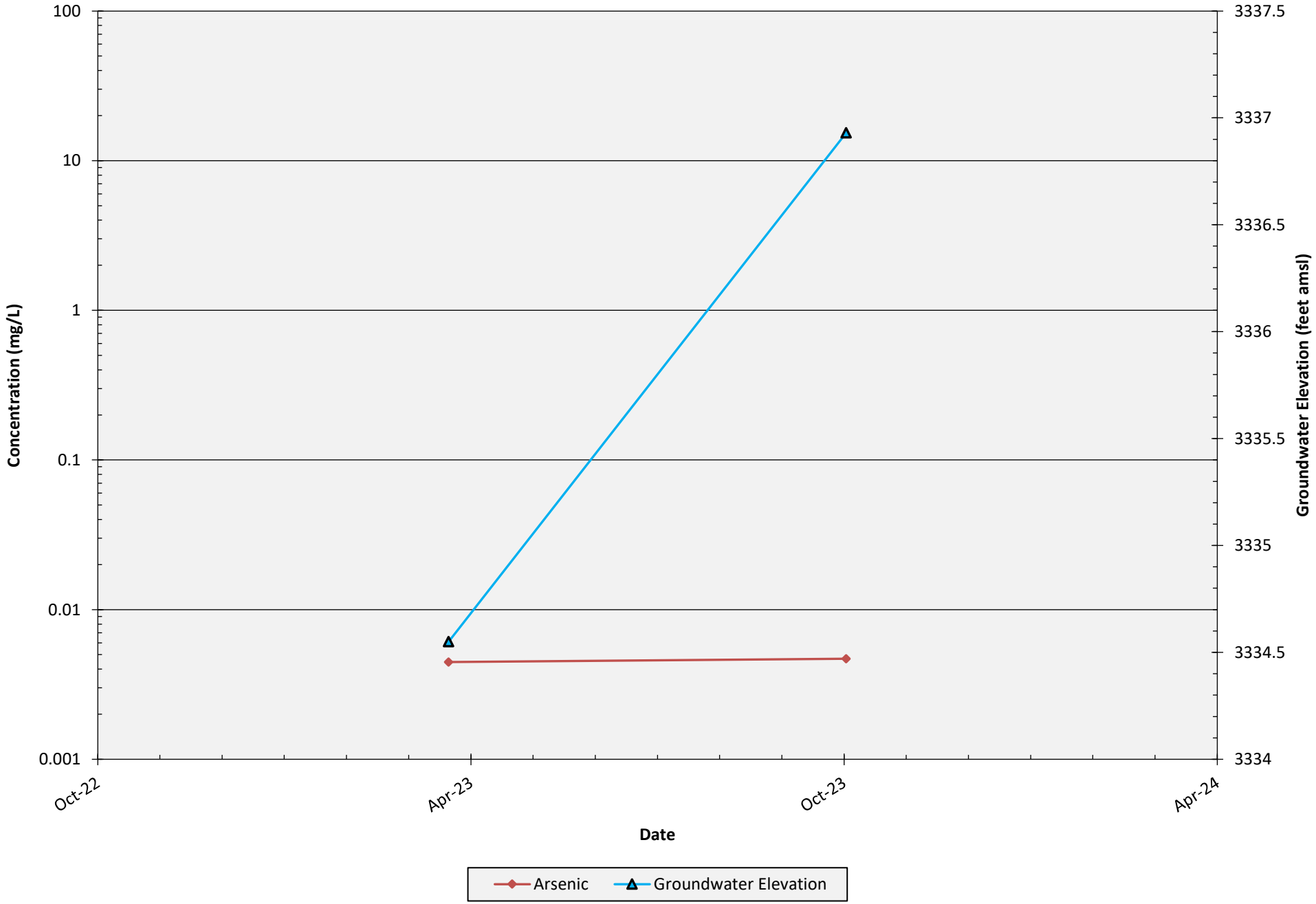


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Received by OCD: 6/12/2024 3:31:05 PM

MW-144: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Reverse Osmosis Reject Field

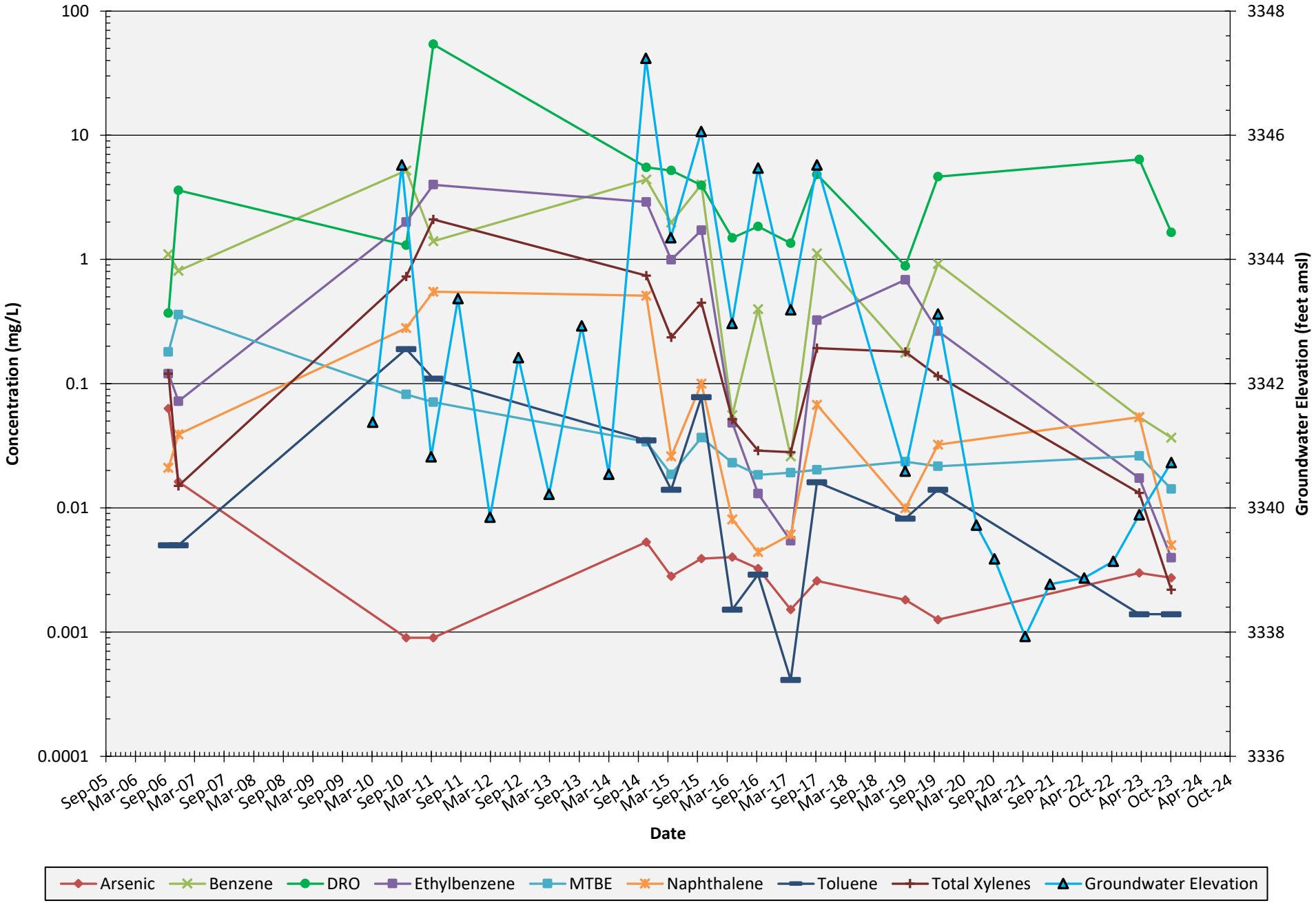


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

KWB-2R: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

South Refinery

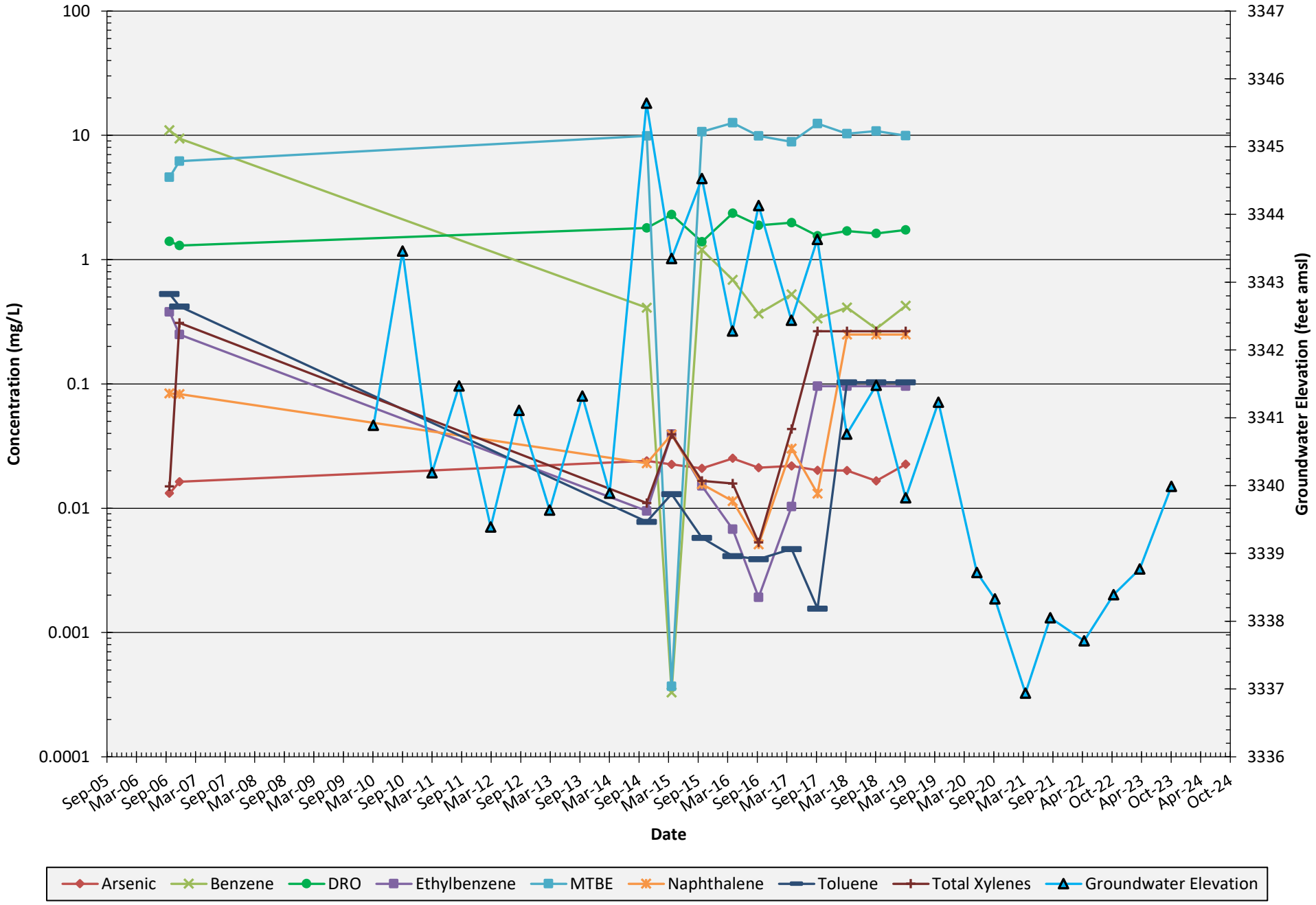


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Received by OCD: 6/12/2024 3:31:05 PM

KWB-5: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

South Refinery

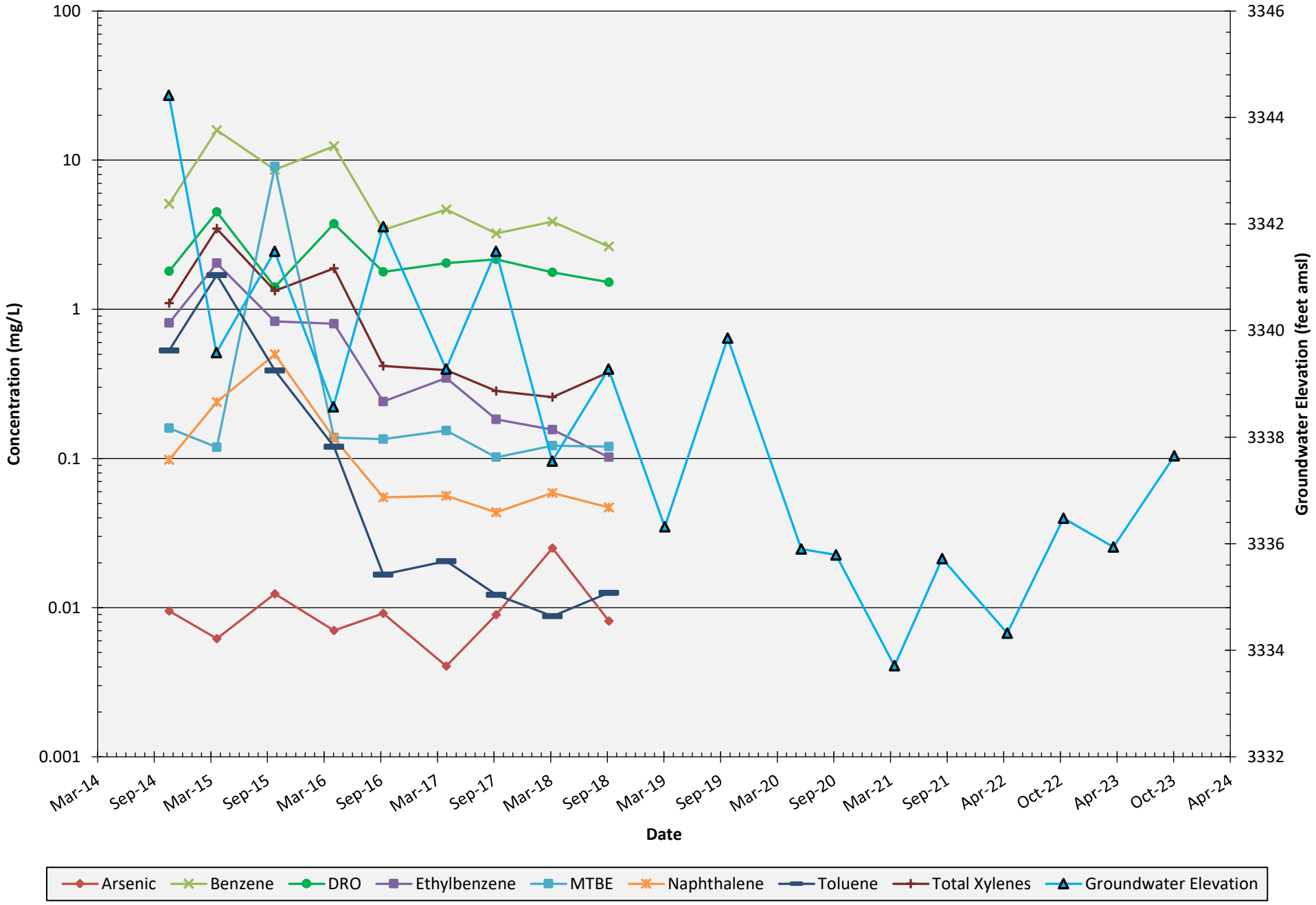


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Received by OCD: 6/12/2024 3:31:05 PM

KWB-6: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

South Refinery

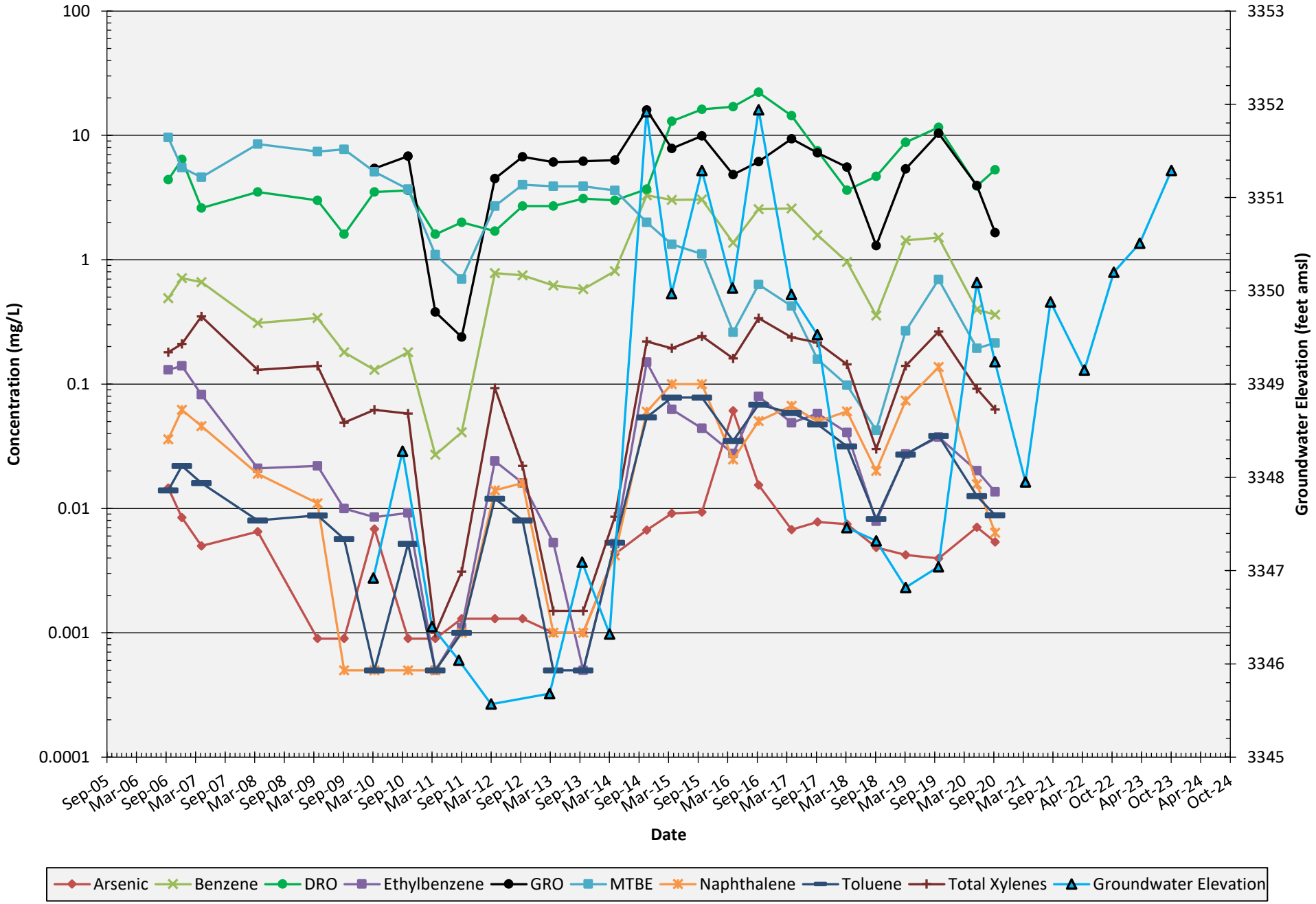


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Received by OCD: 6/12/2024 3:31:05 PM

MW-28: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

South Refinery

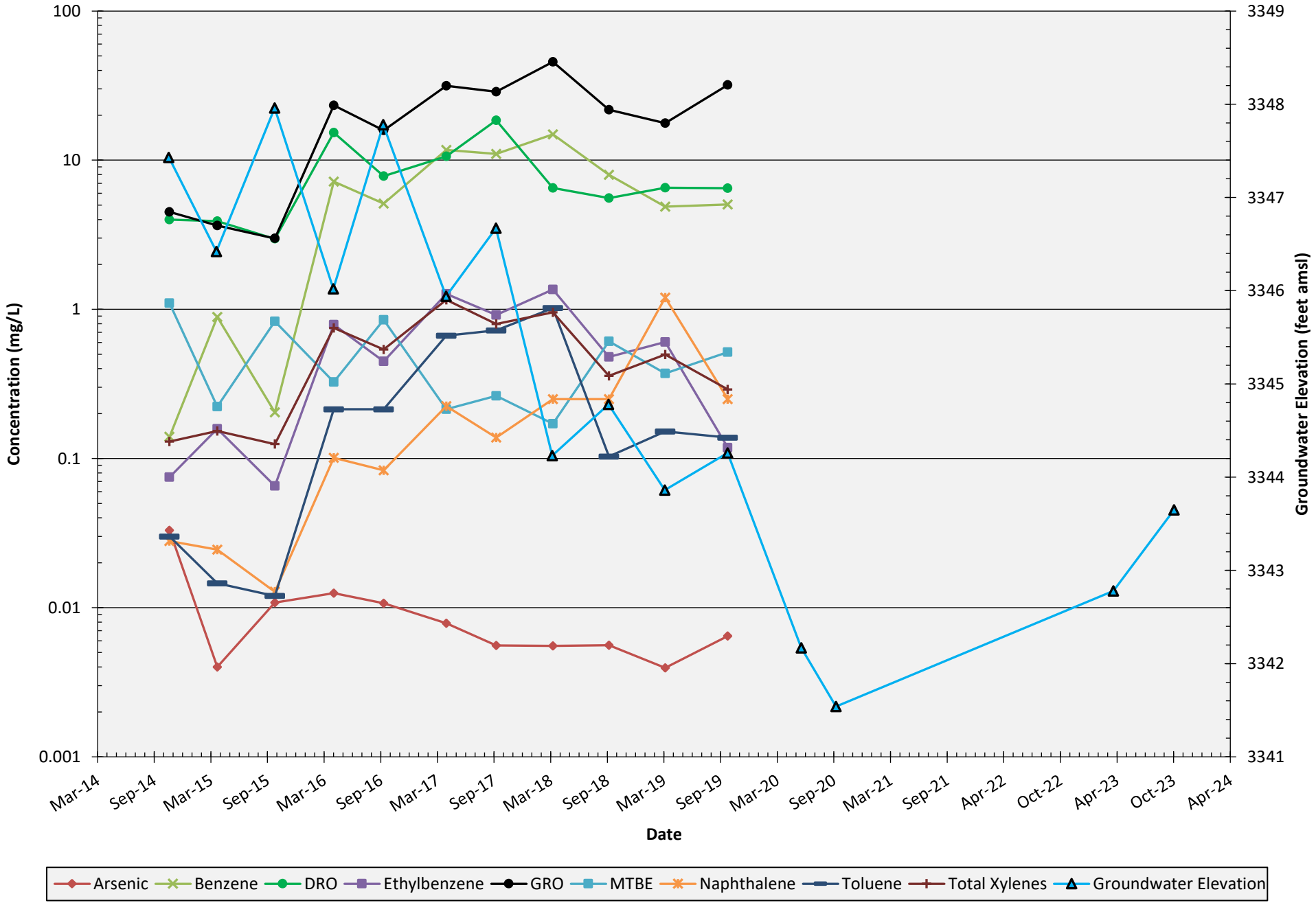


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Received by OCD: 6/12/2024 3:31:05 PM

MW-48: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

South Refinery

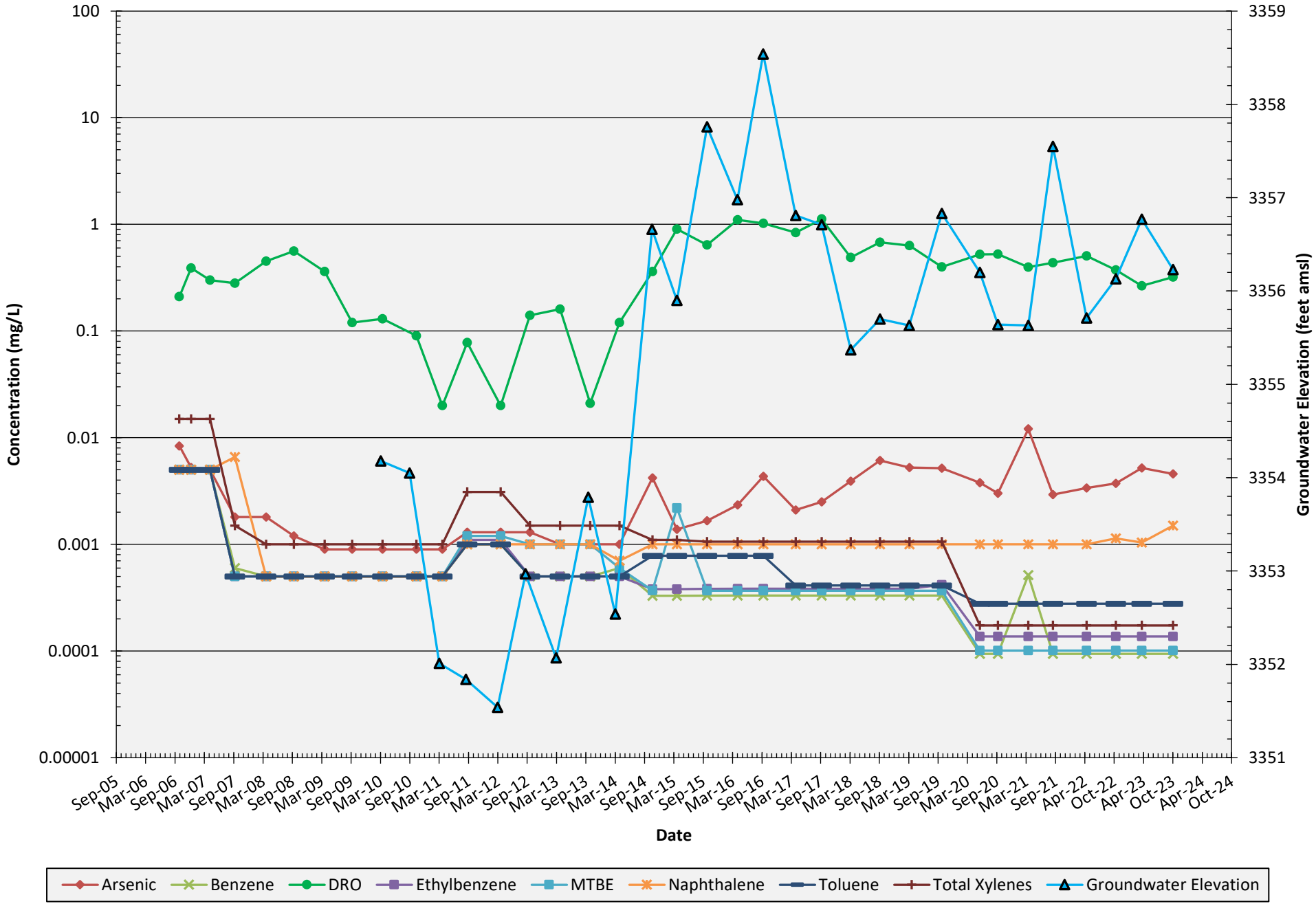


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MW-50: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

South Refinery

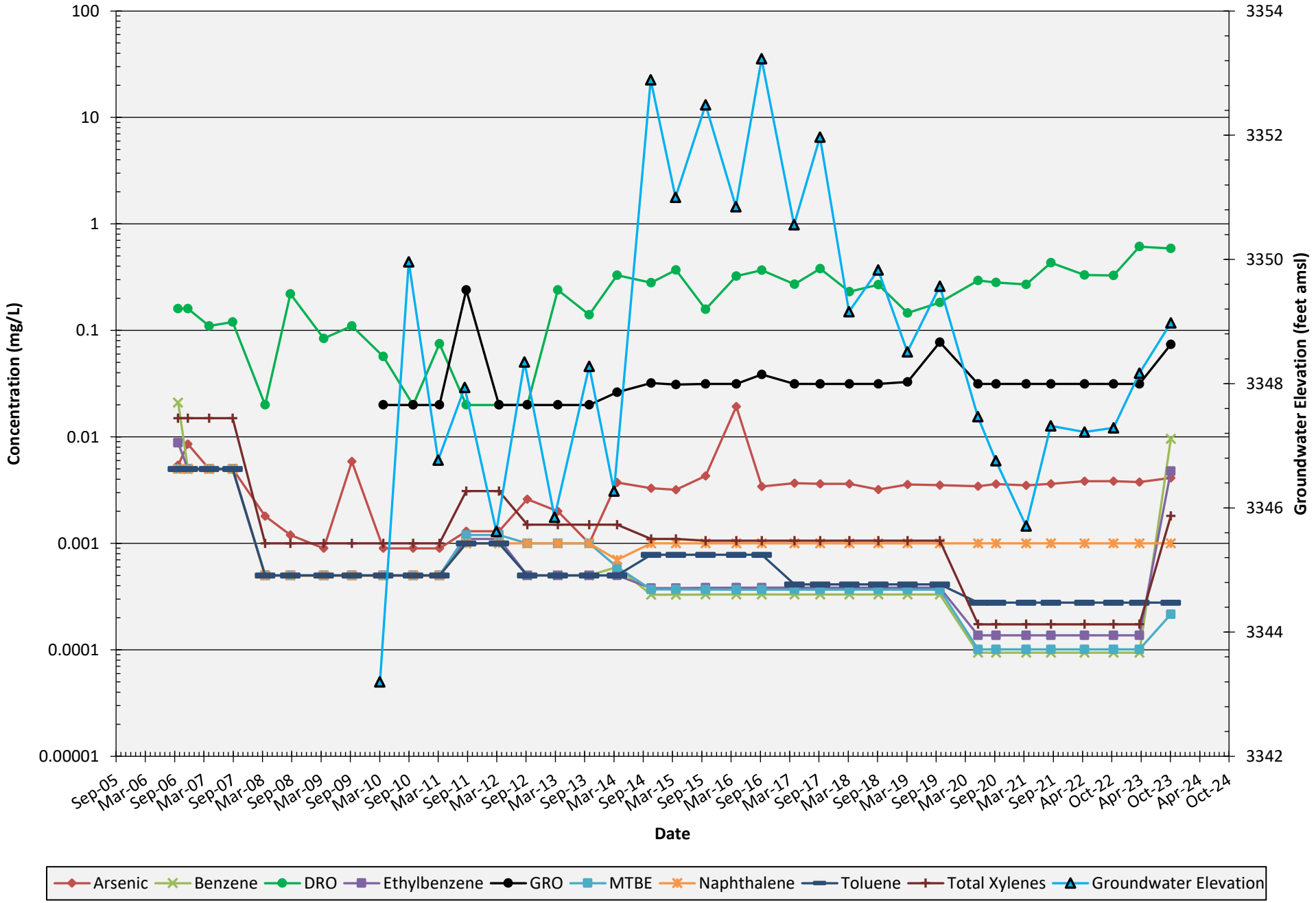


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Received by OCD: 6/12/2024 3:31:05 PM

MW-52: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

South Refinery

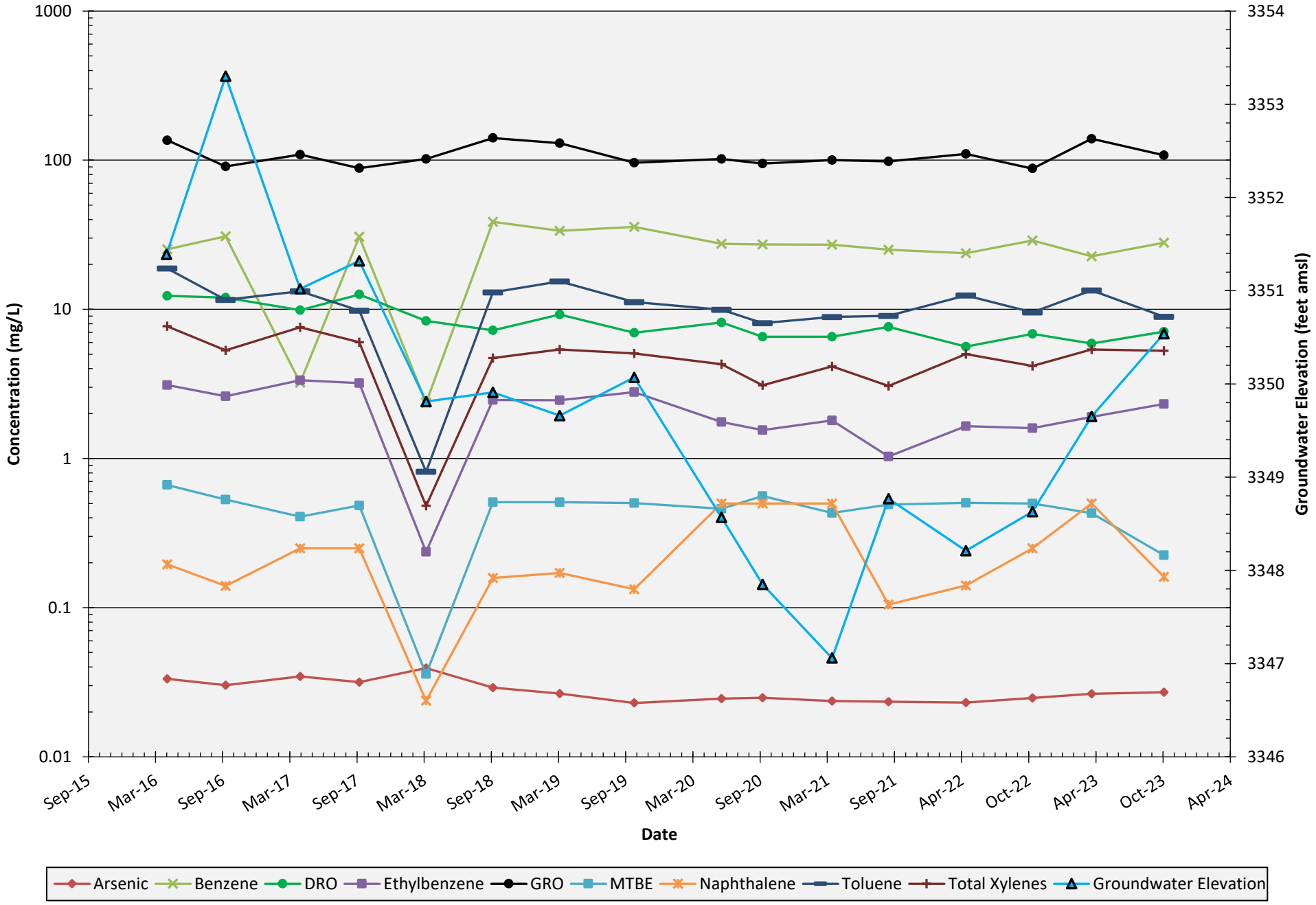


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

MW-64: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

South Refinery

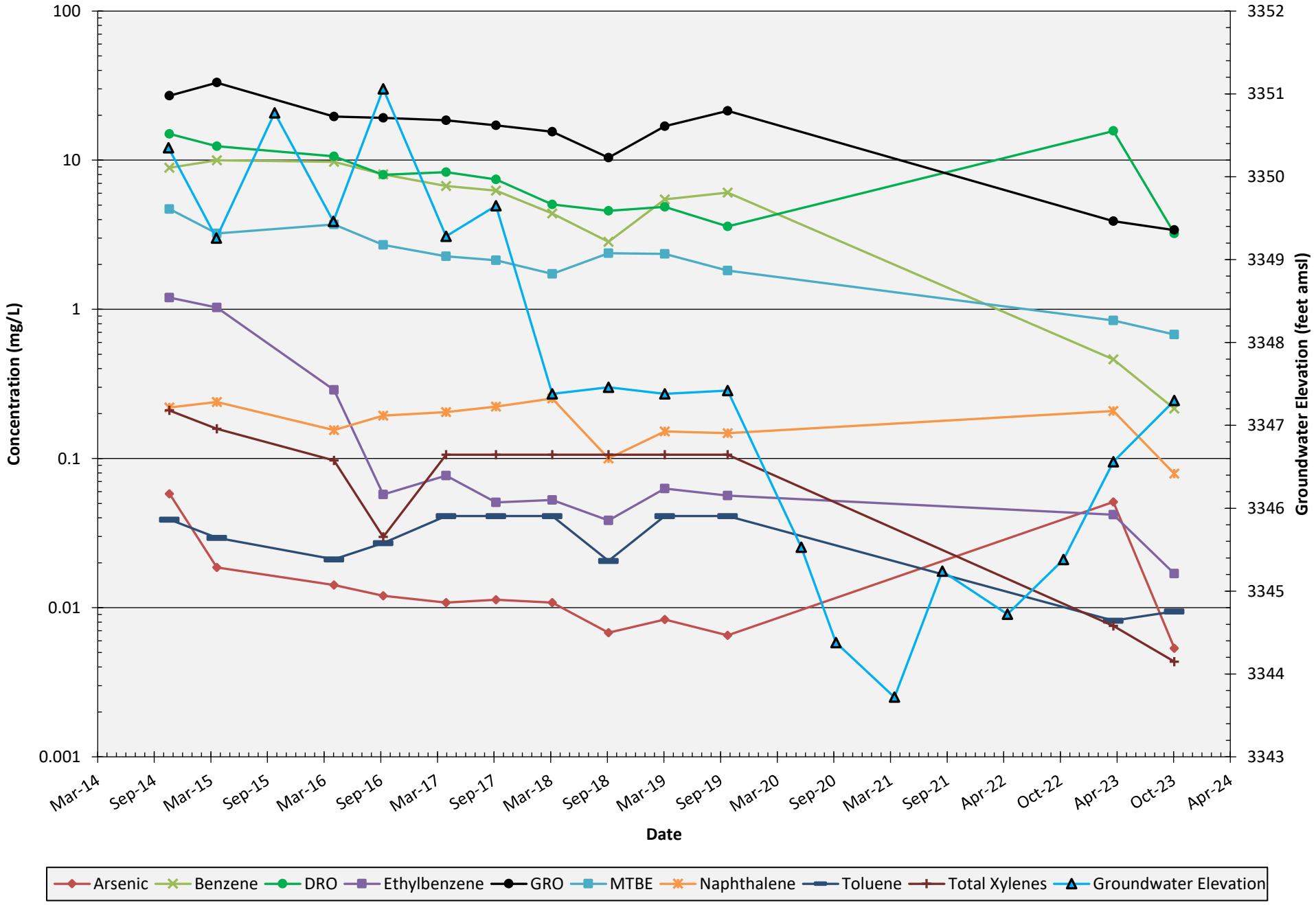


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

MW-65: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

South Refinery

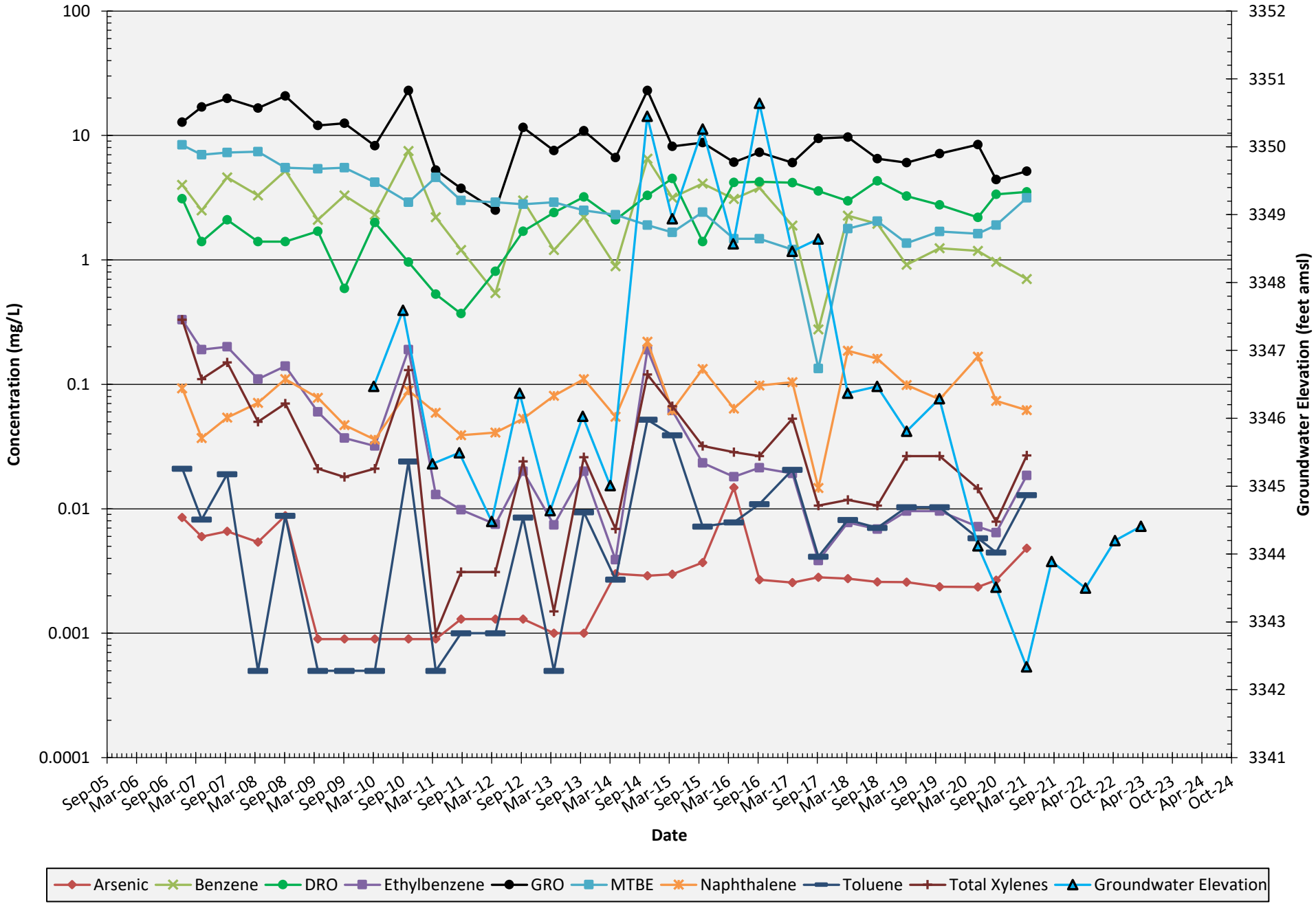


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Received by OCD: 6/12/2024 3:31:05 PM

MW-66: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

South Refinery

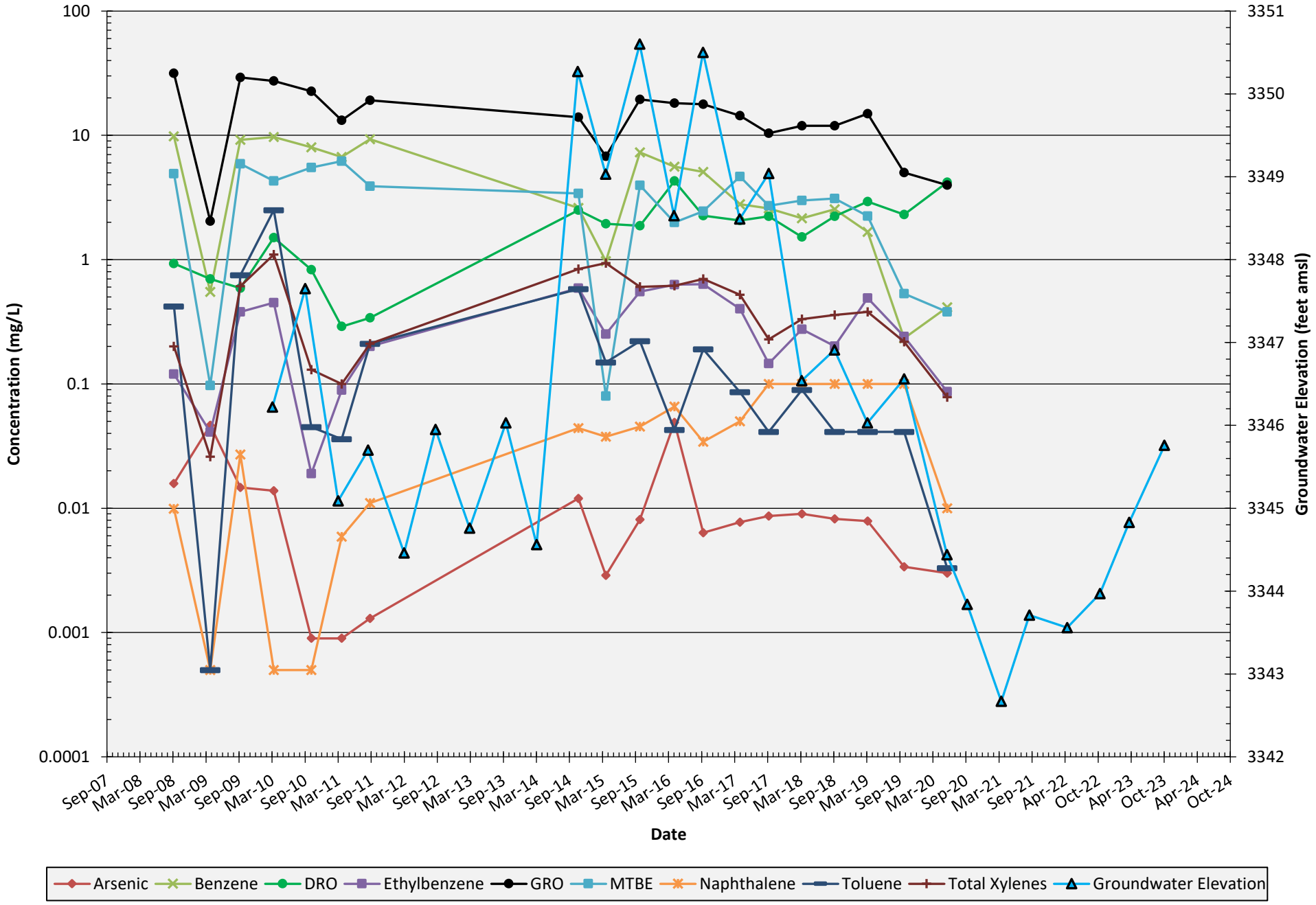


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

MW-99: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

South Refinery

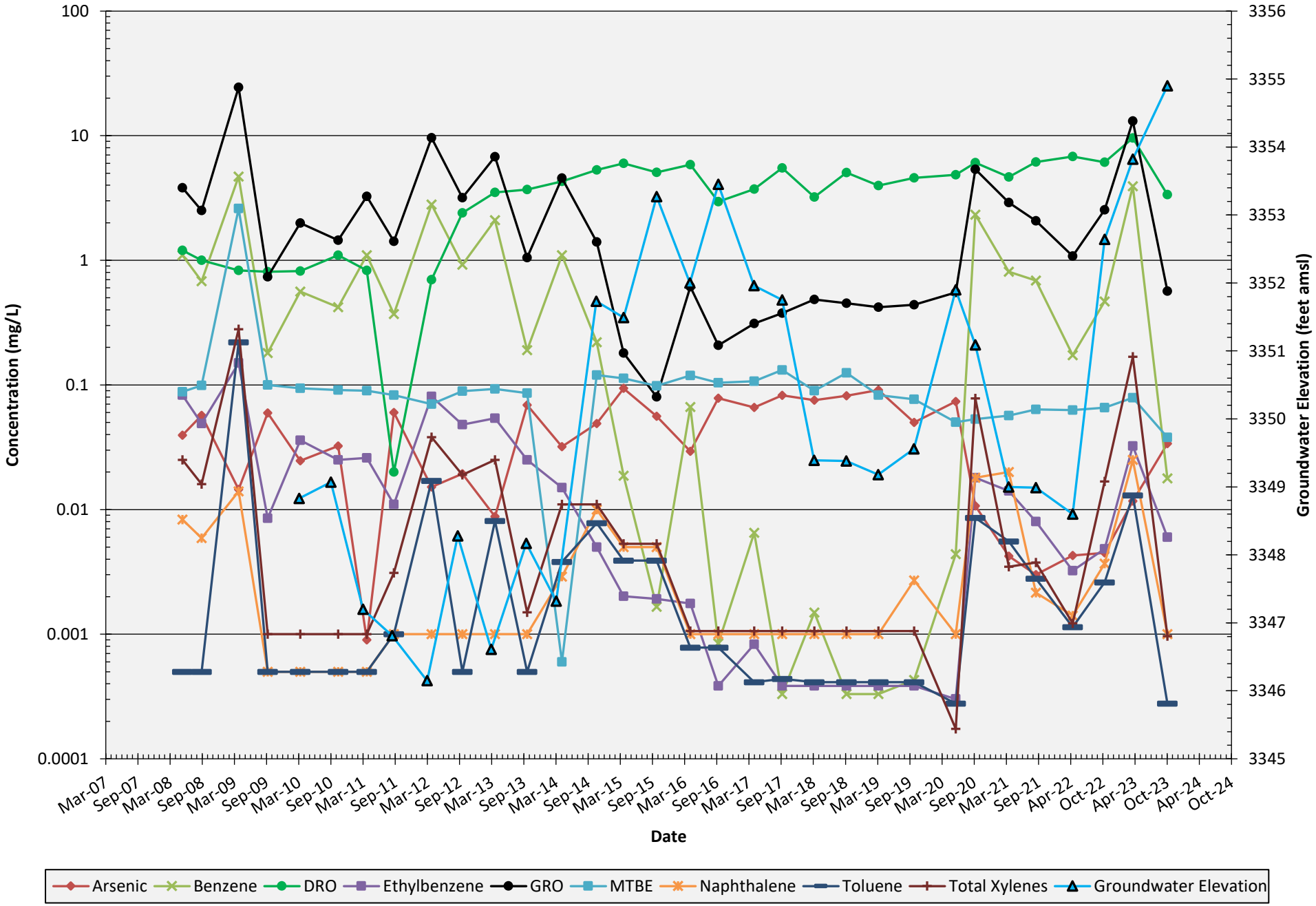


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

MW-101: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

South Refinery

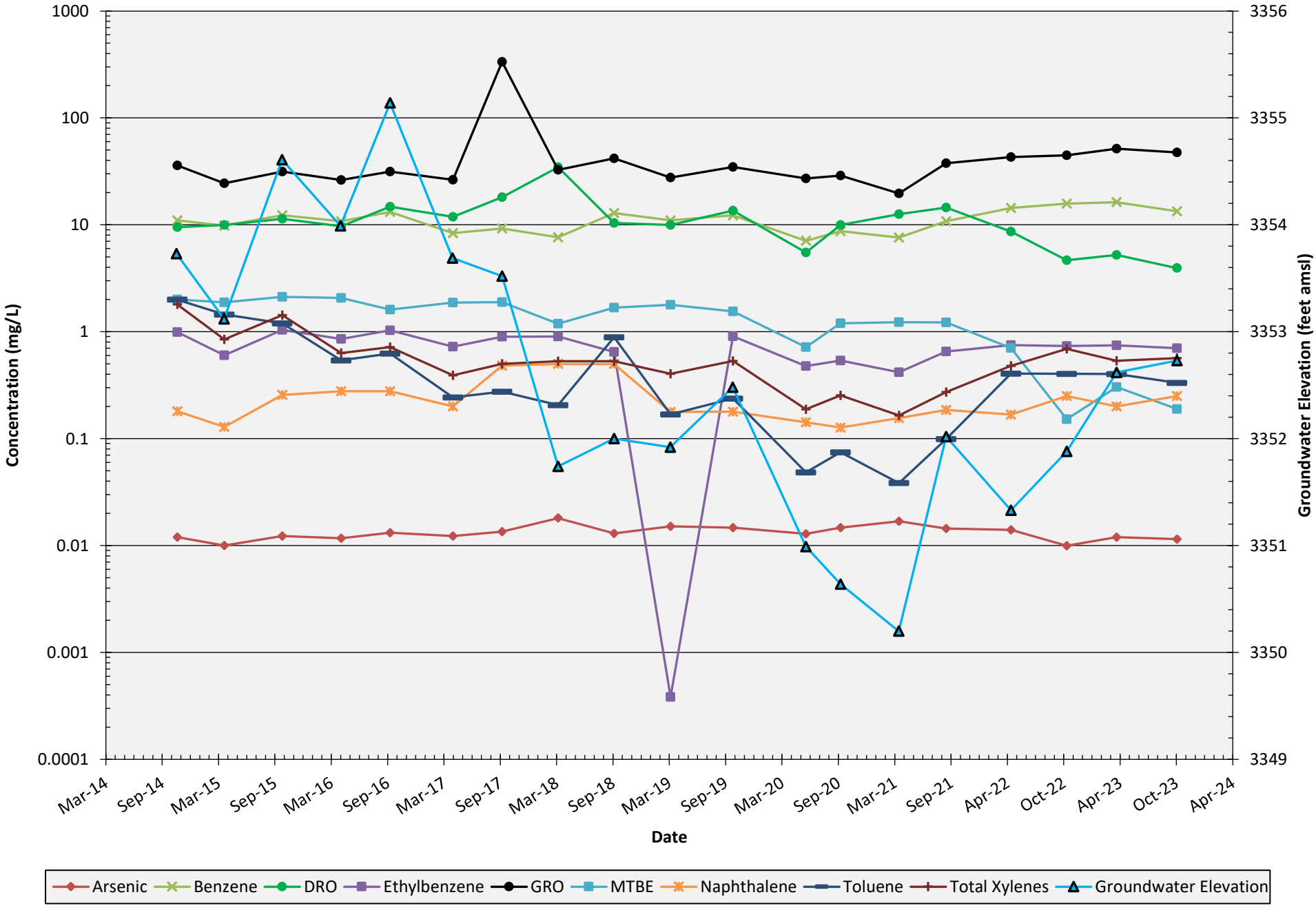


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

MW-102: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

South Refinery

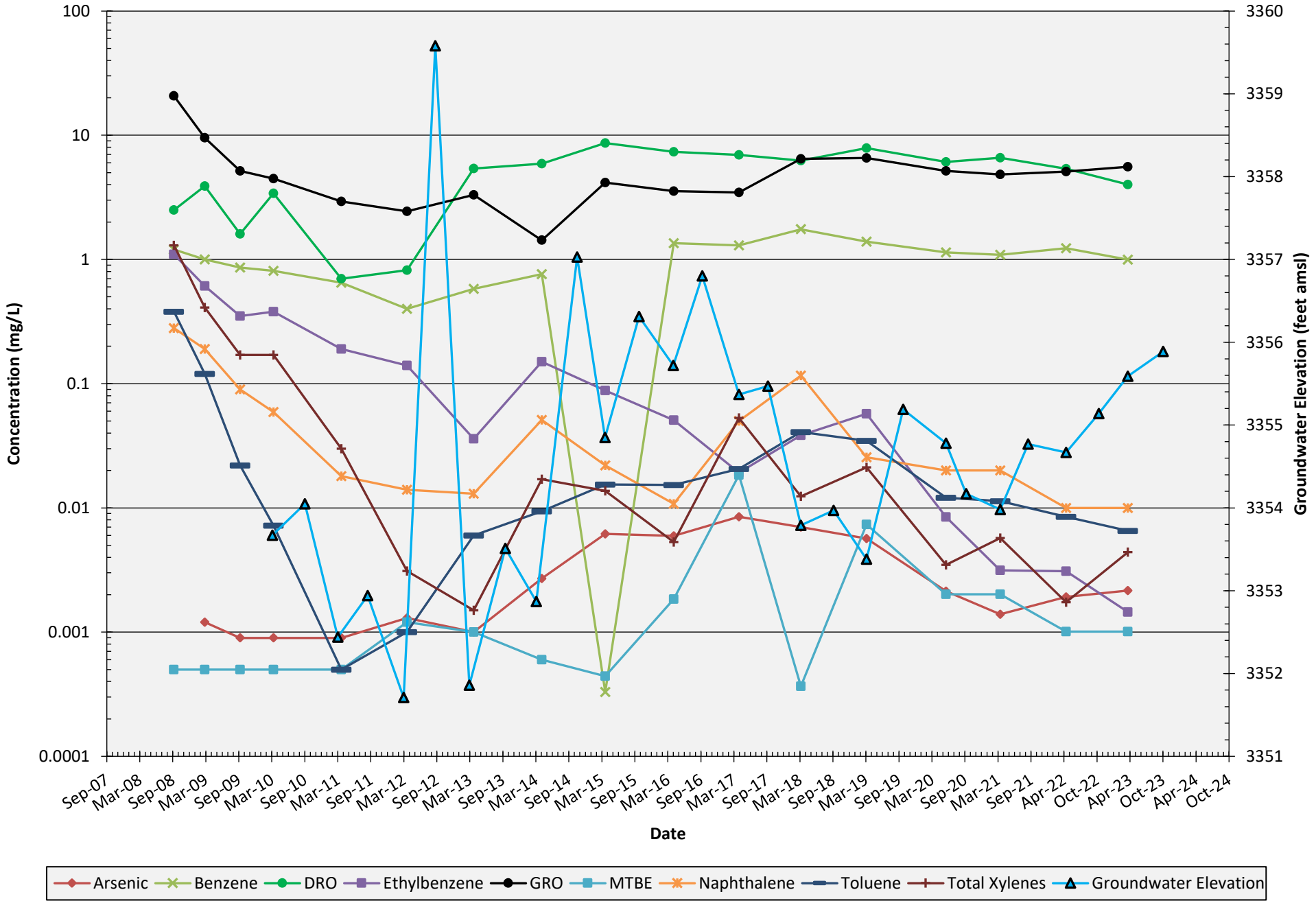


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

MW-103: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

South Refinery

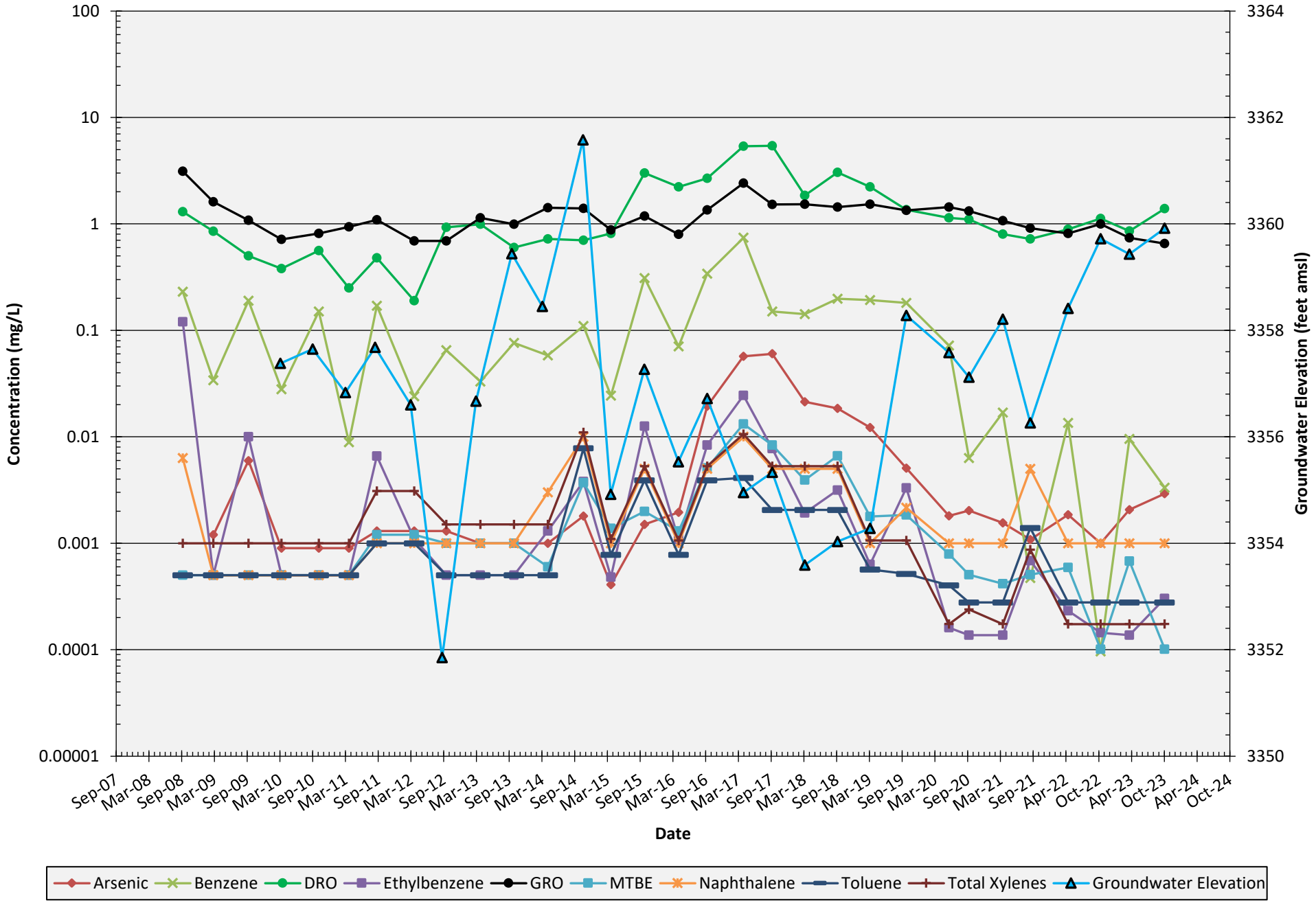


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MW-104: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

South Refinery

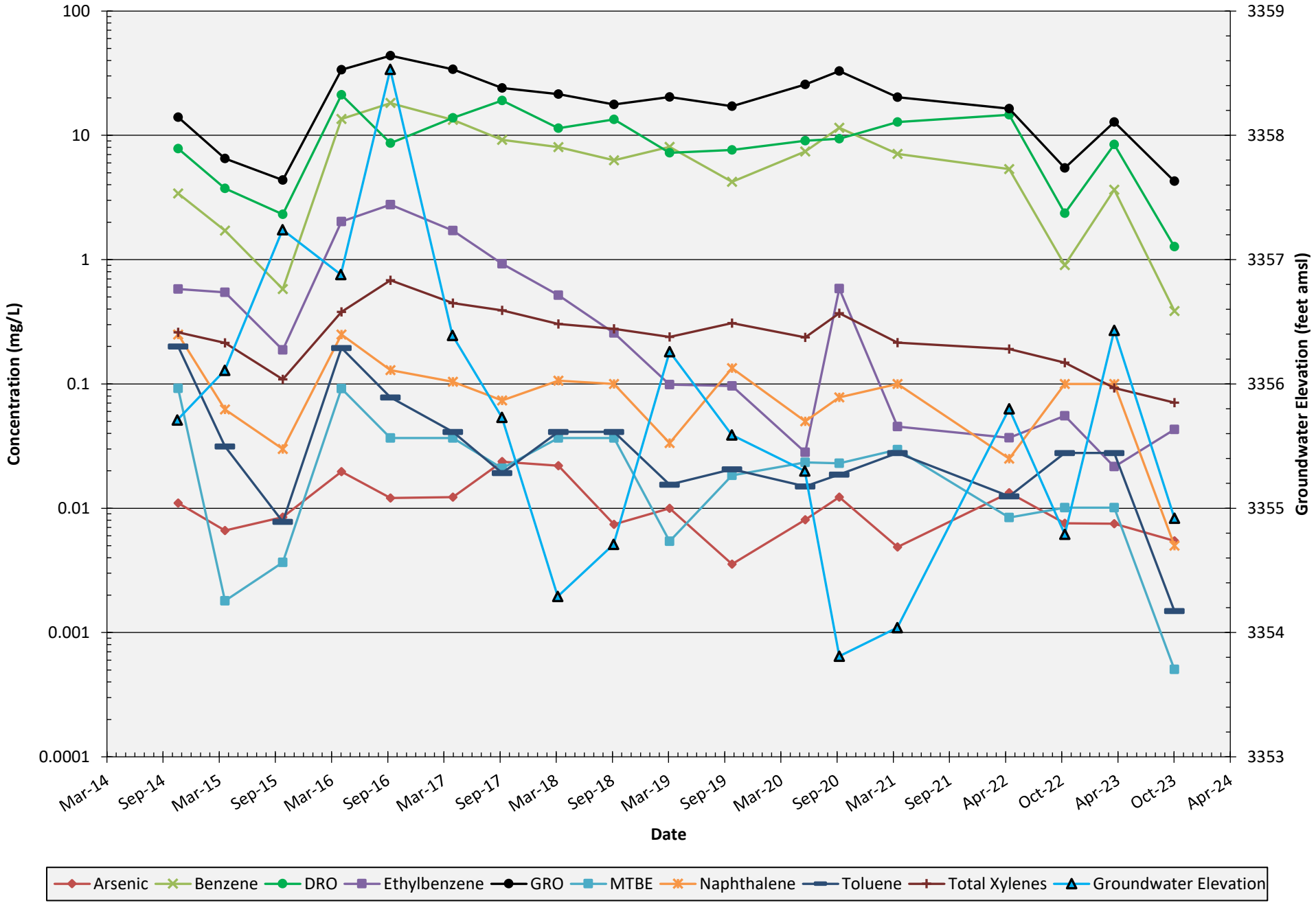


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

MW-105: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

South Refinery

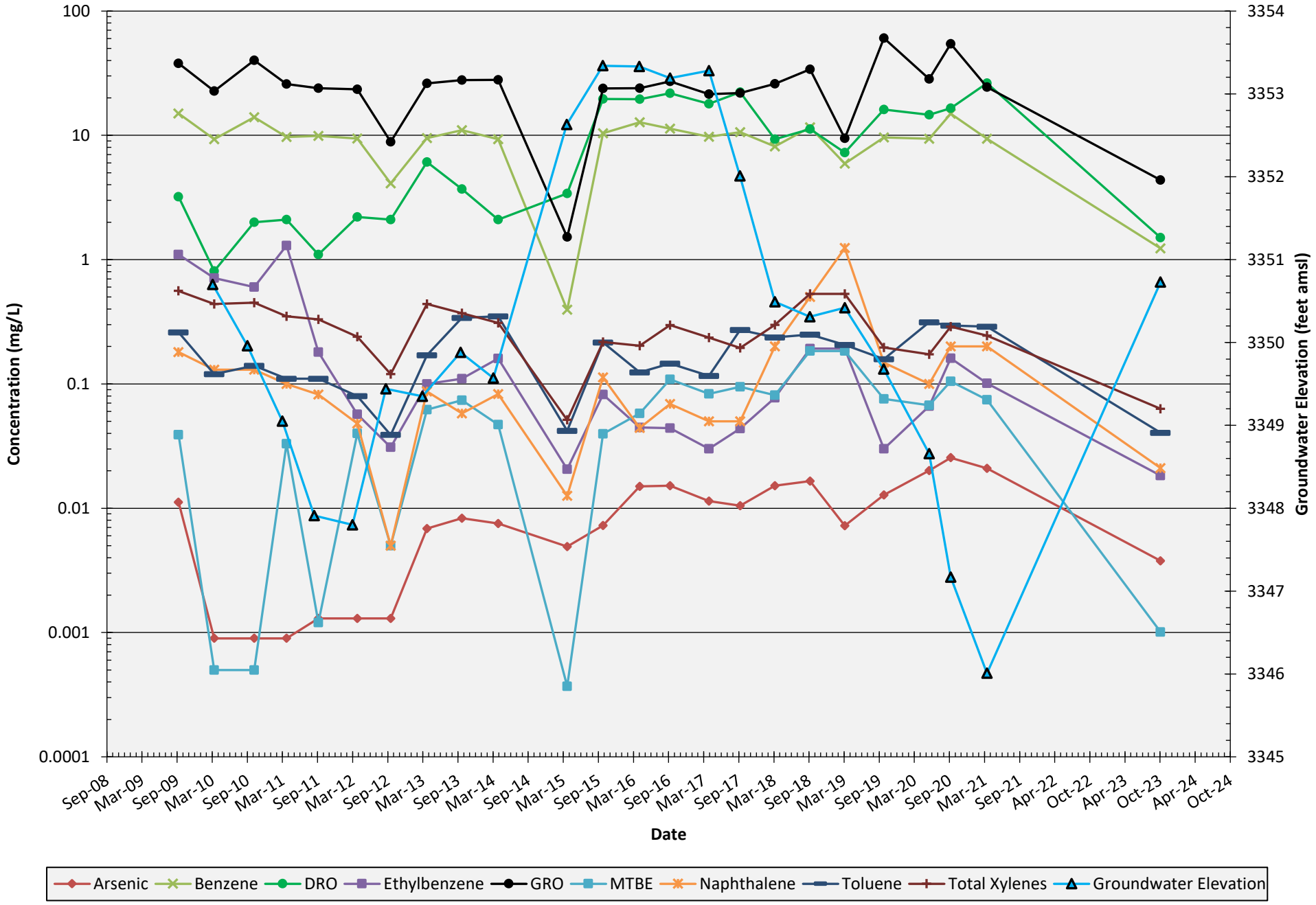


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

MW-106: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

South Refinery

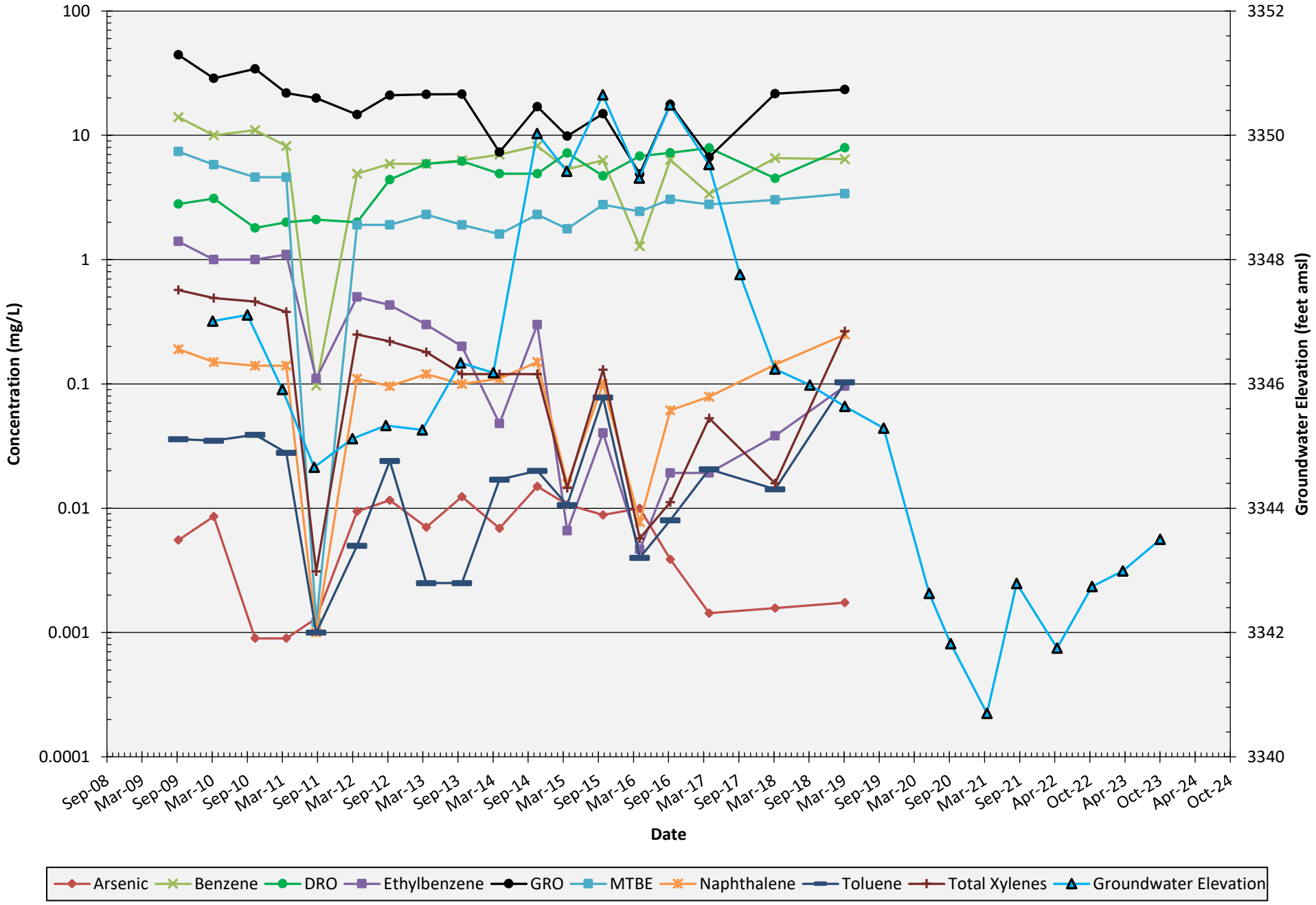


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

MW-107: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

South Refinery

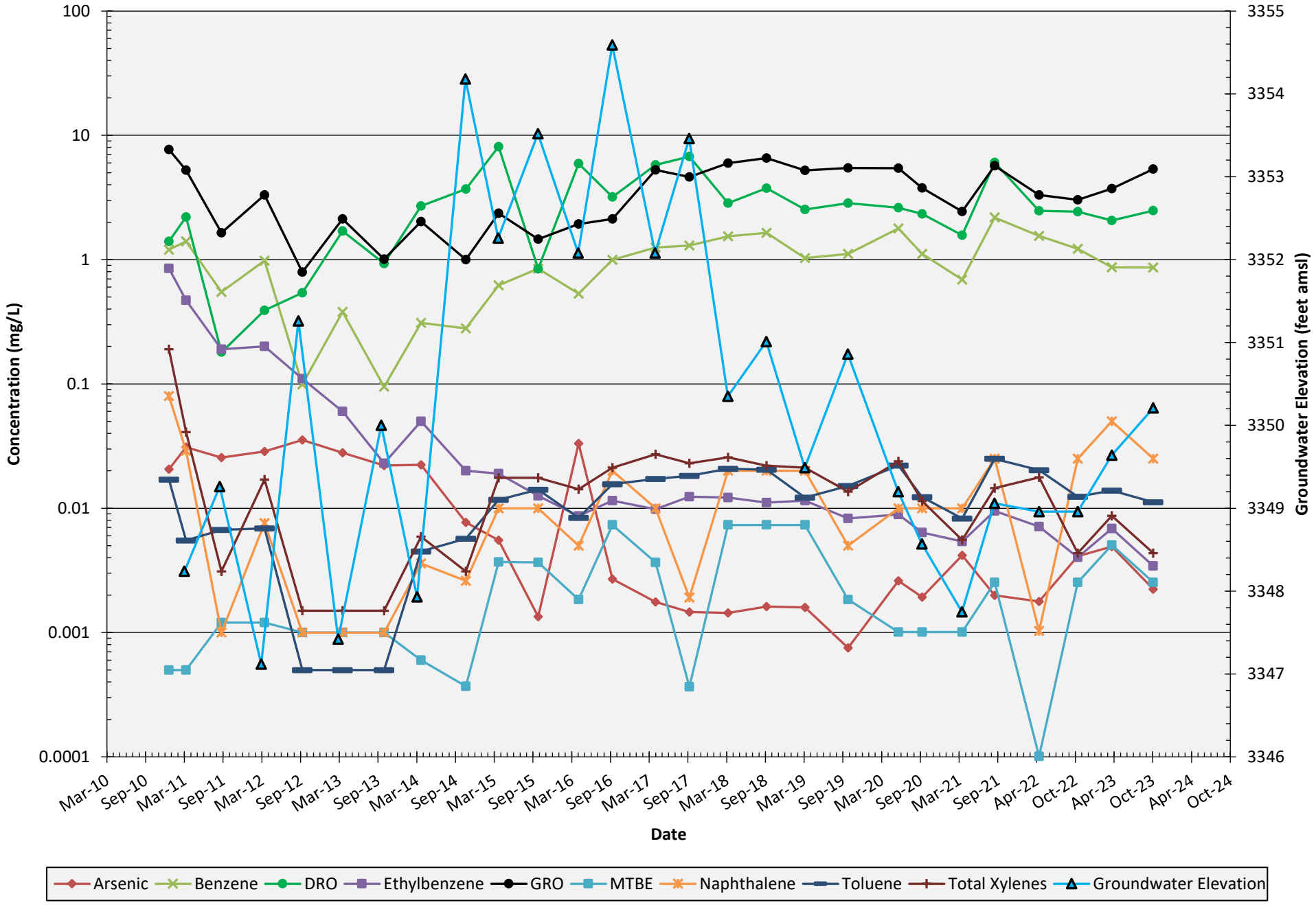


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

MW-109: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

South Refinery

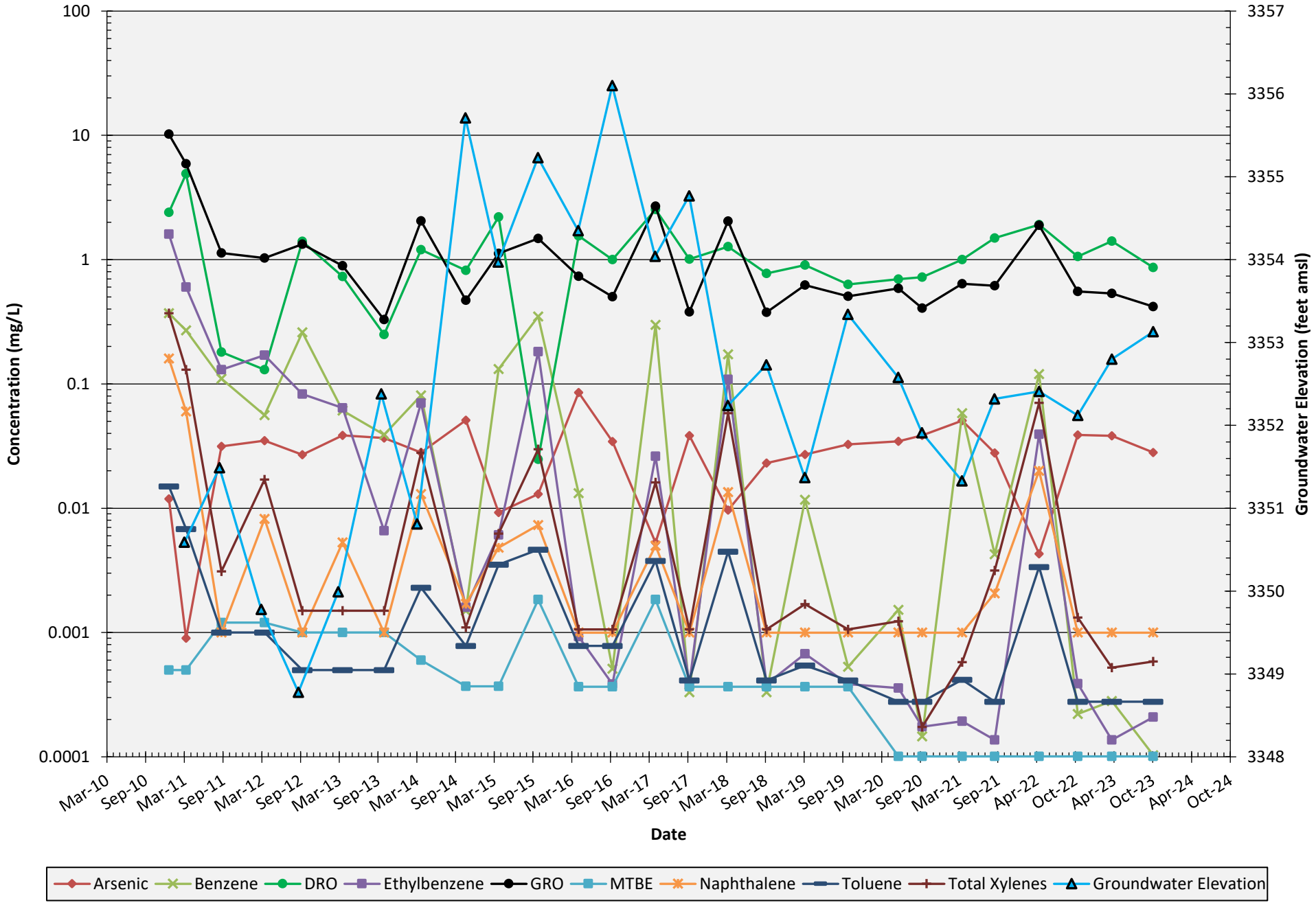


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

MW-110: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

South Refinery

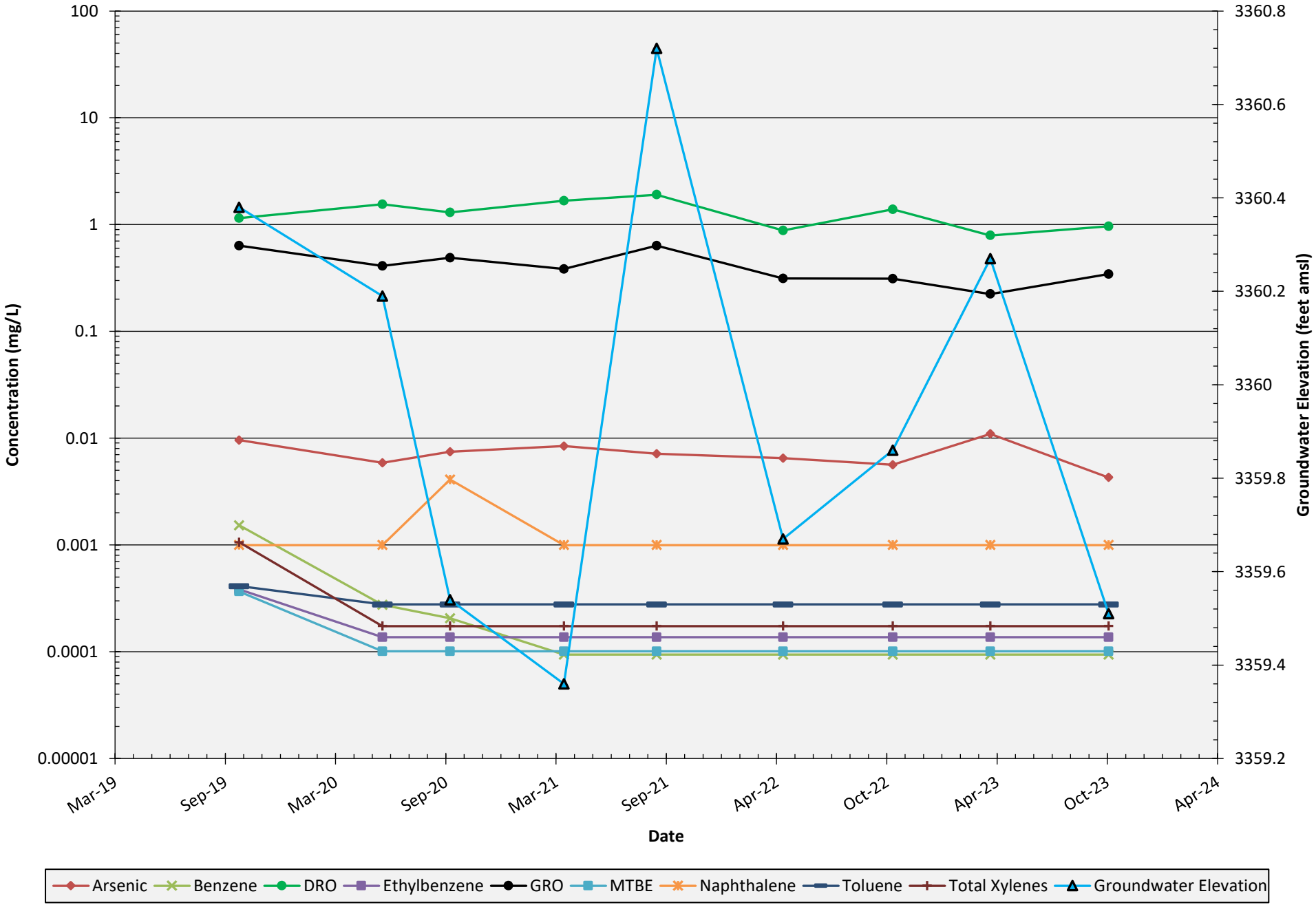


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Received by OCD: 6/12/2024 3:31:05 PM

MW-139: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

South Refinery

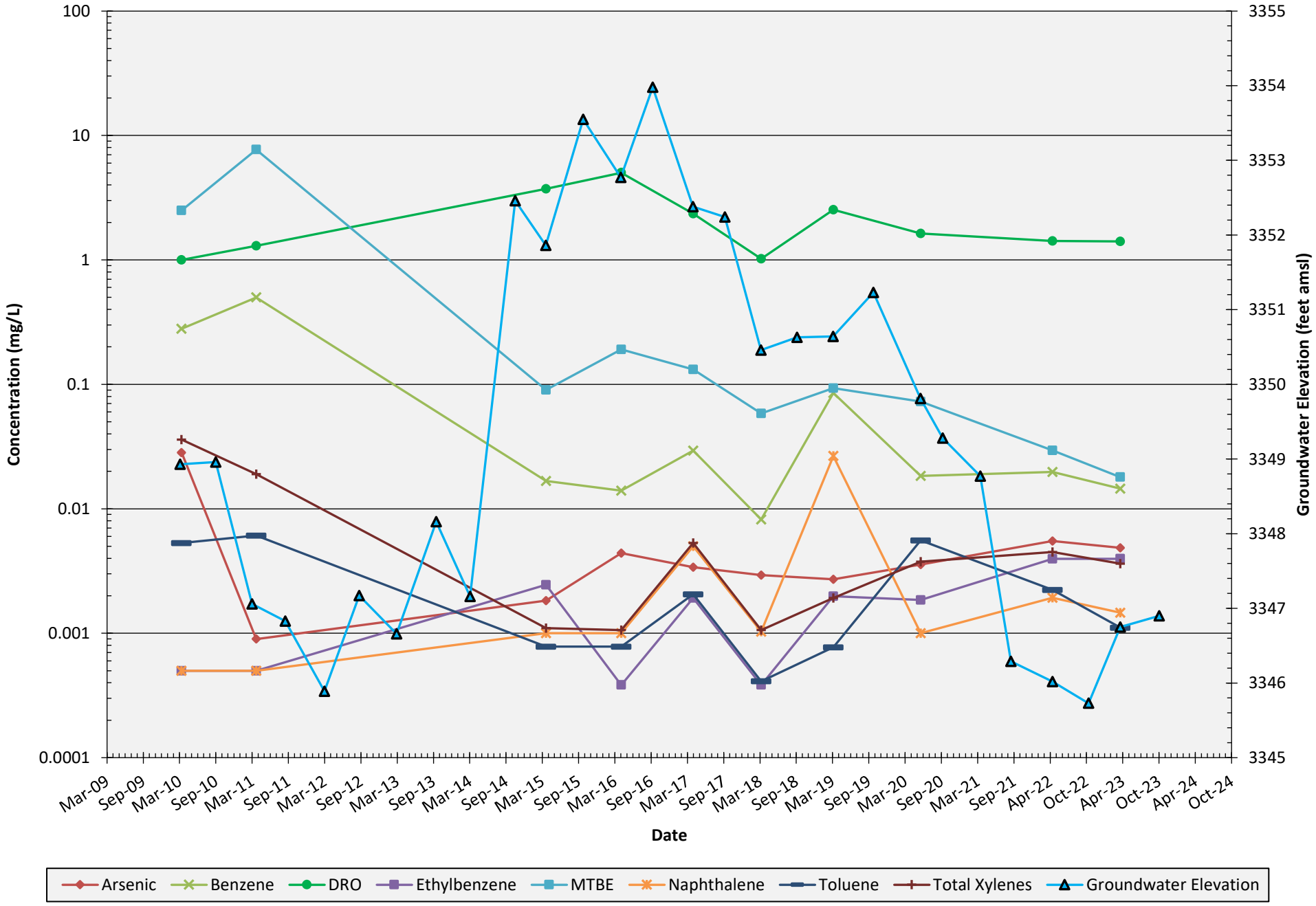


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

RW-4 & RW-4R: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

South Refinery

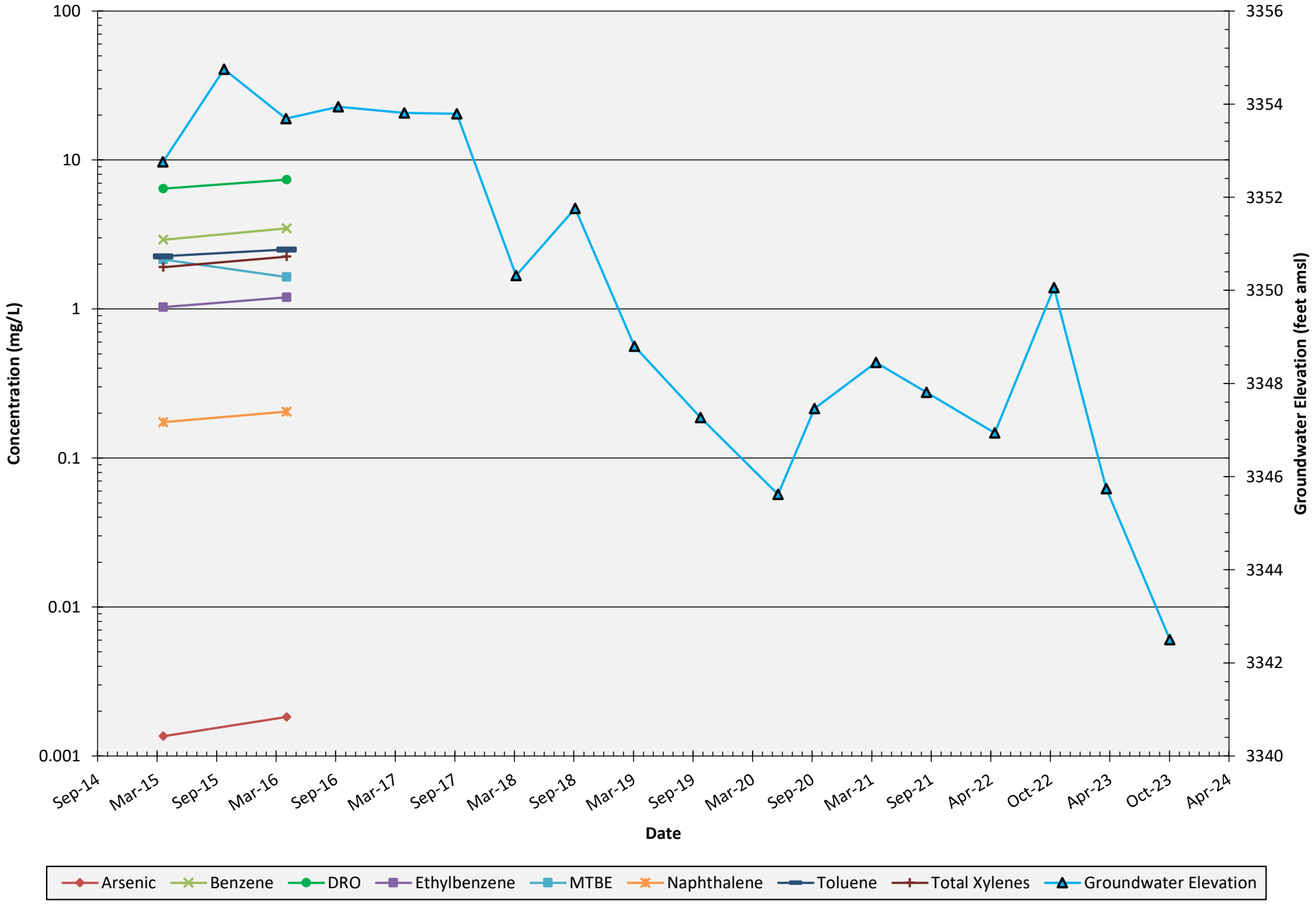


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

RW-5 & RW-5R: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

South Refinery

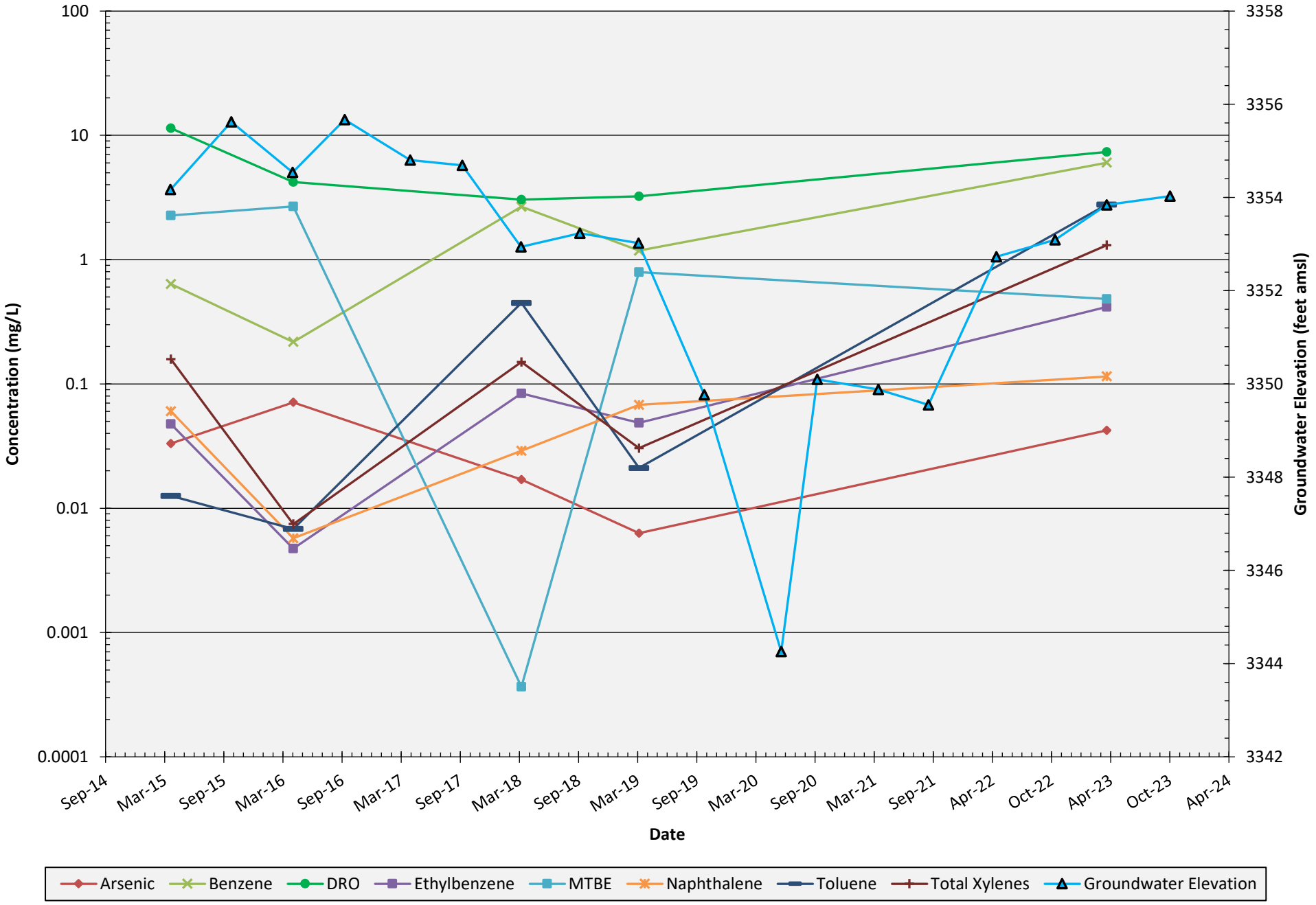


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

RW-6 & RW-6R: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

South Refinery

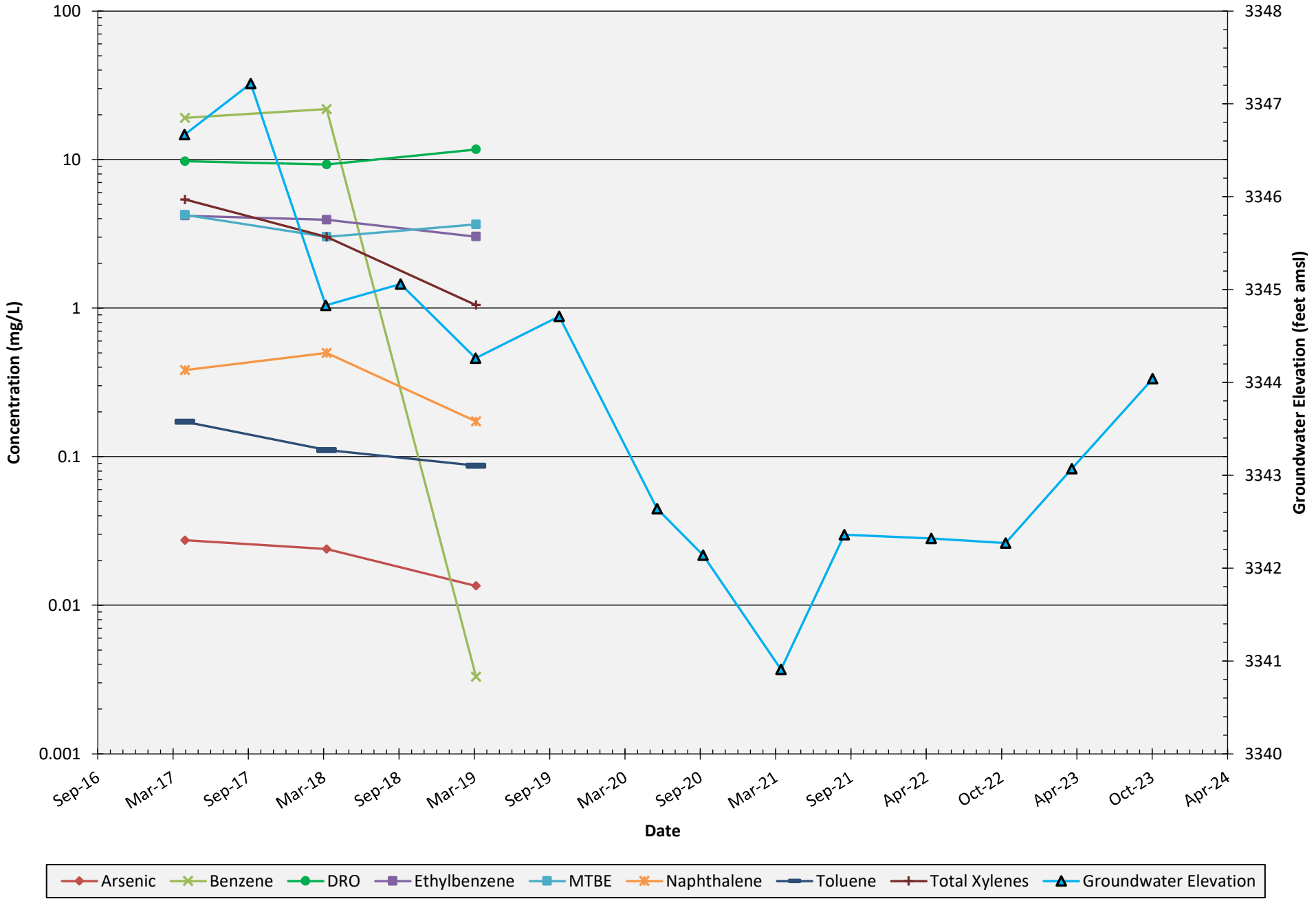


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

RW-15C: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

South Refinery

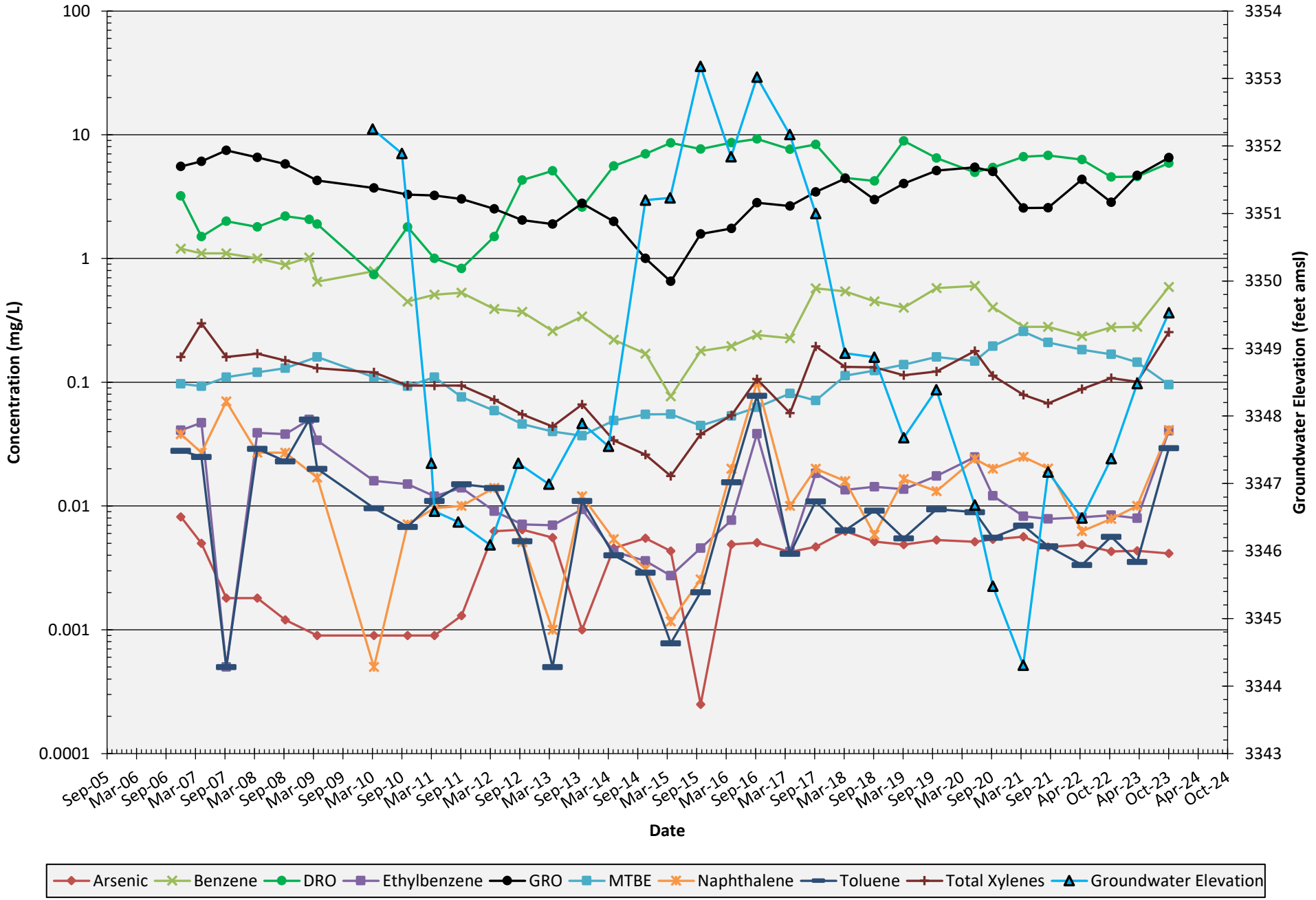


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

MW-49: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Tetra Ethyl Lead Surface Impoundment

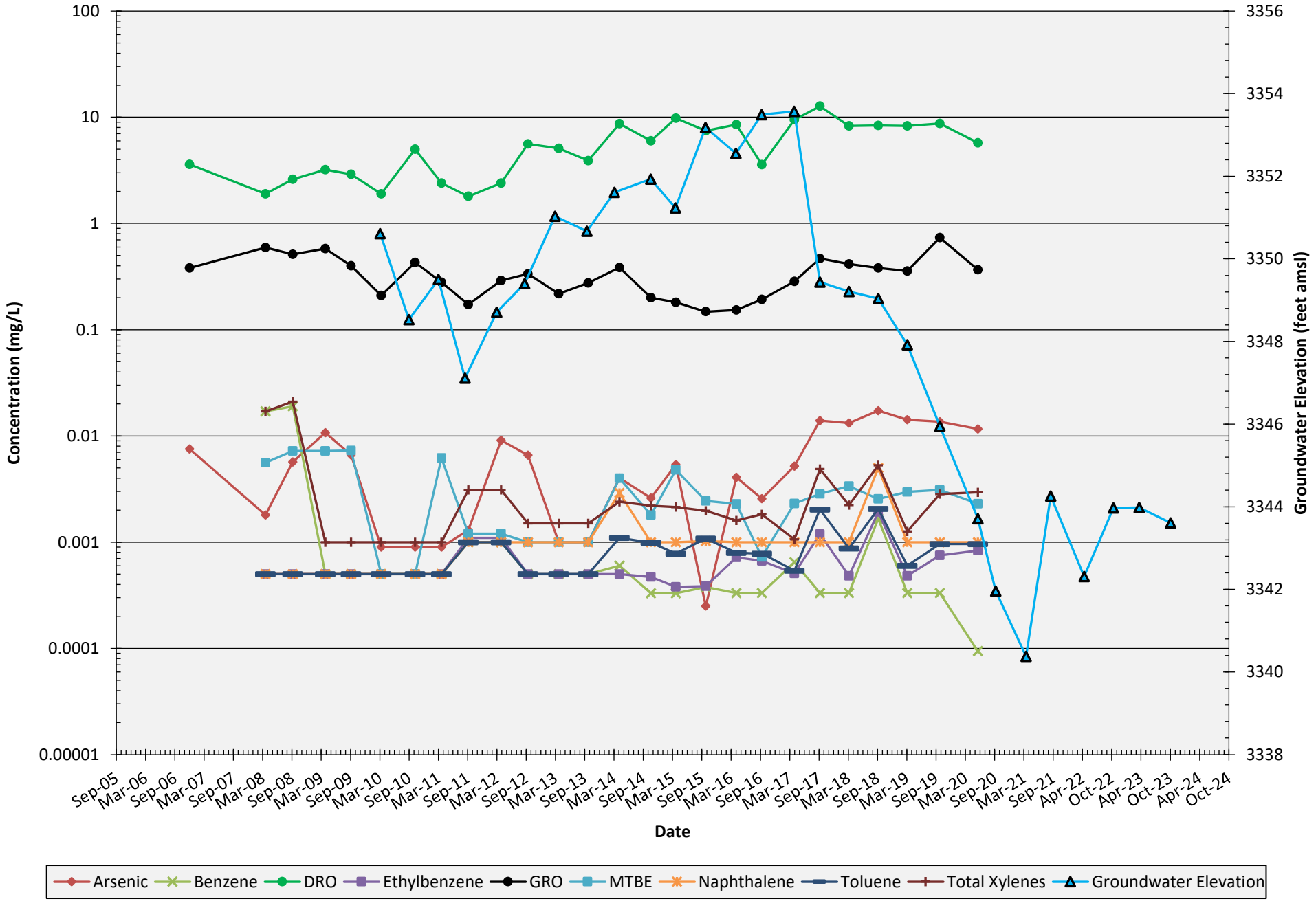


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

TEL-1: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Tetra Ethyl Lead Surface Impoundment

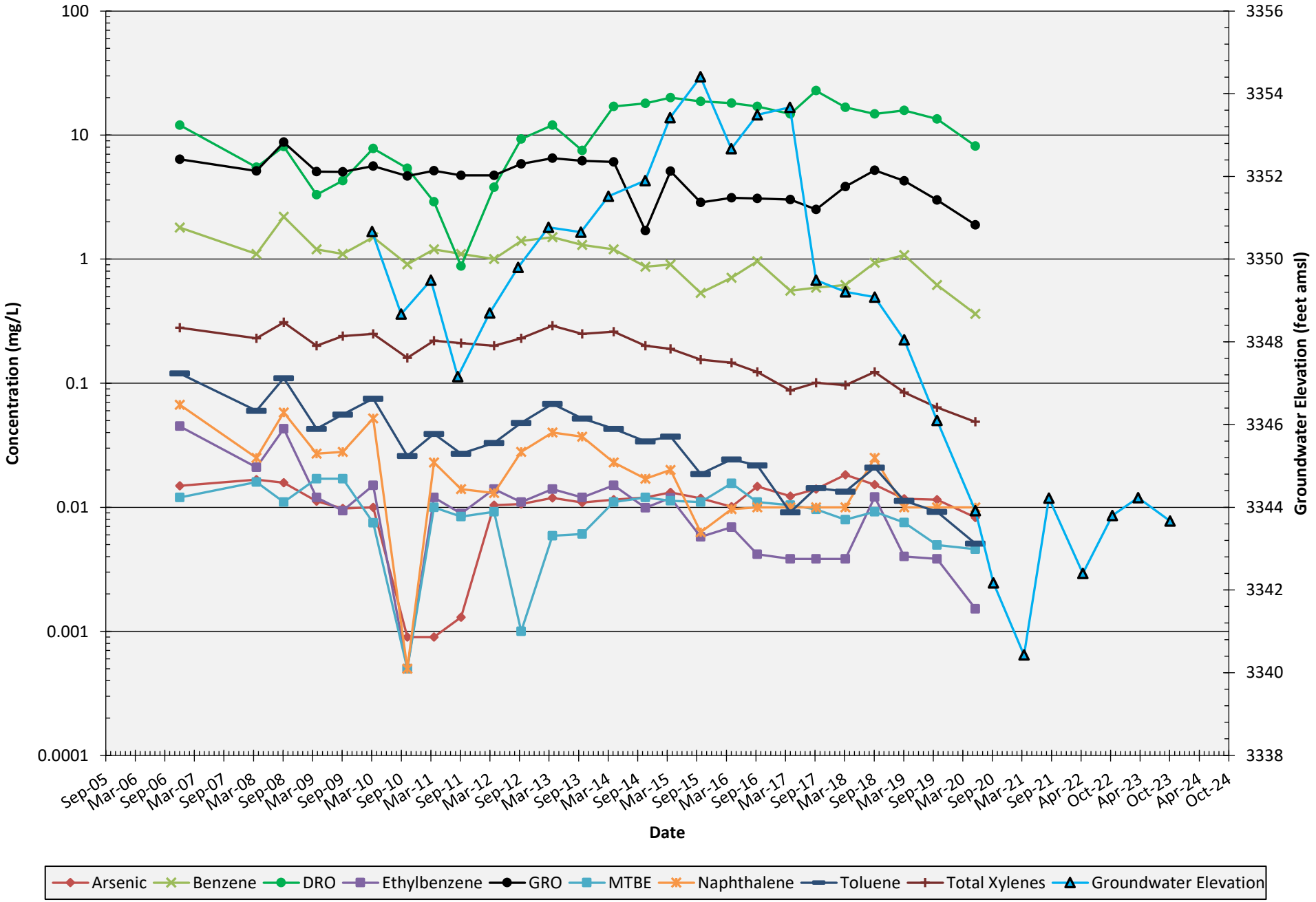


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

TEL-2: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Tetra Ethyl Lead Surface Impoundment

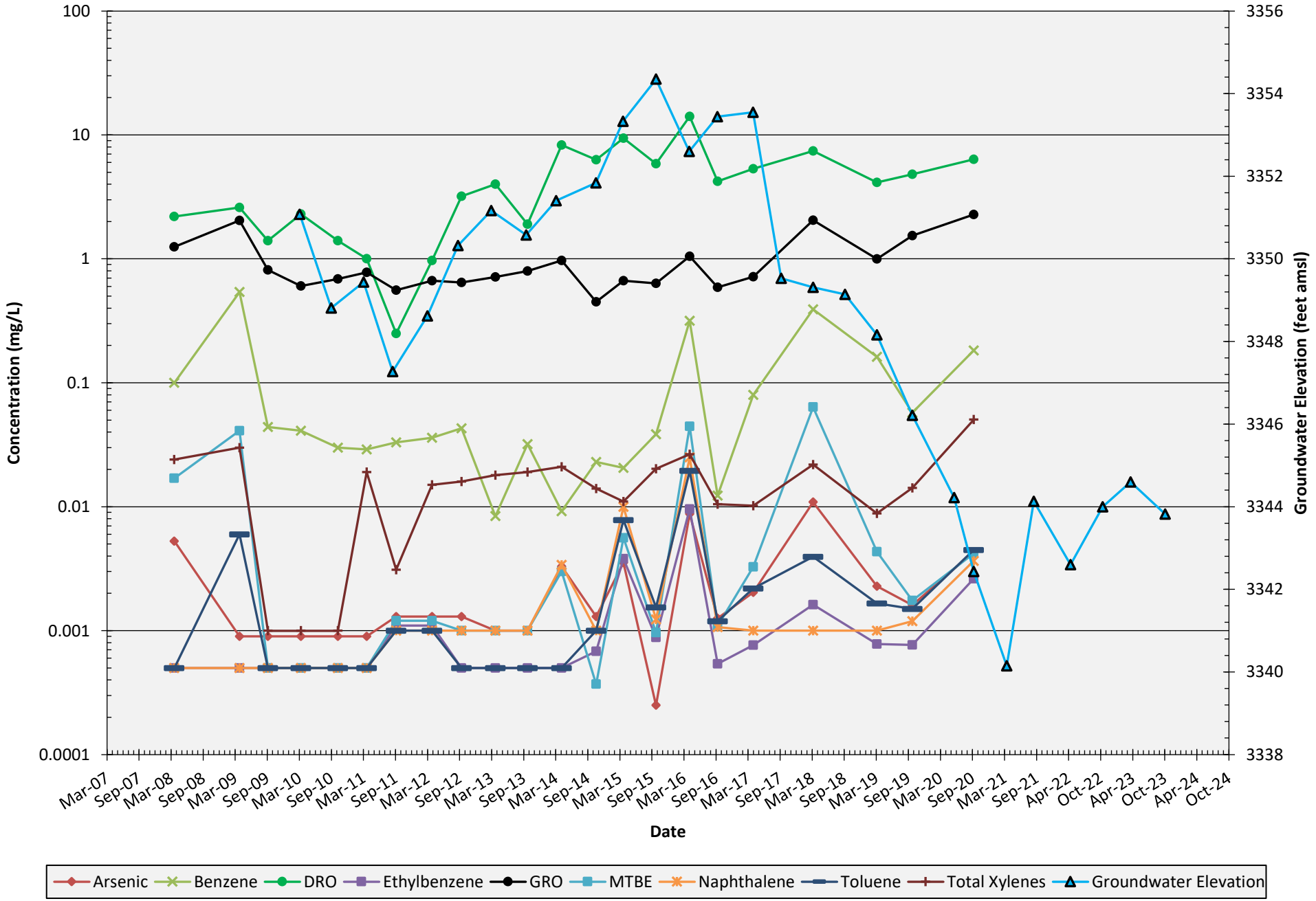


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

TEL-3: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Tetra Ethyl Lead Surface Impoundment

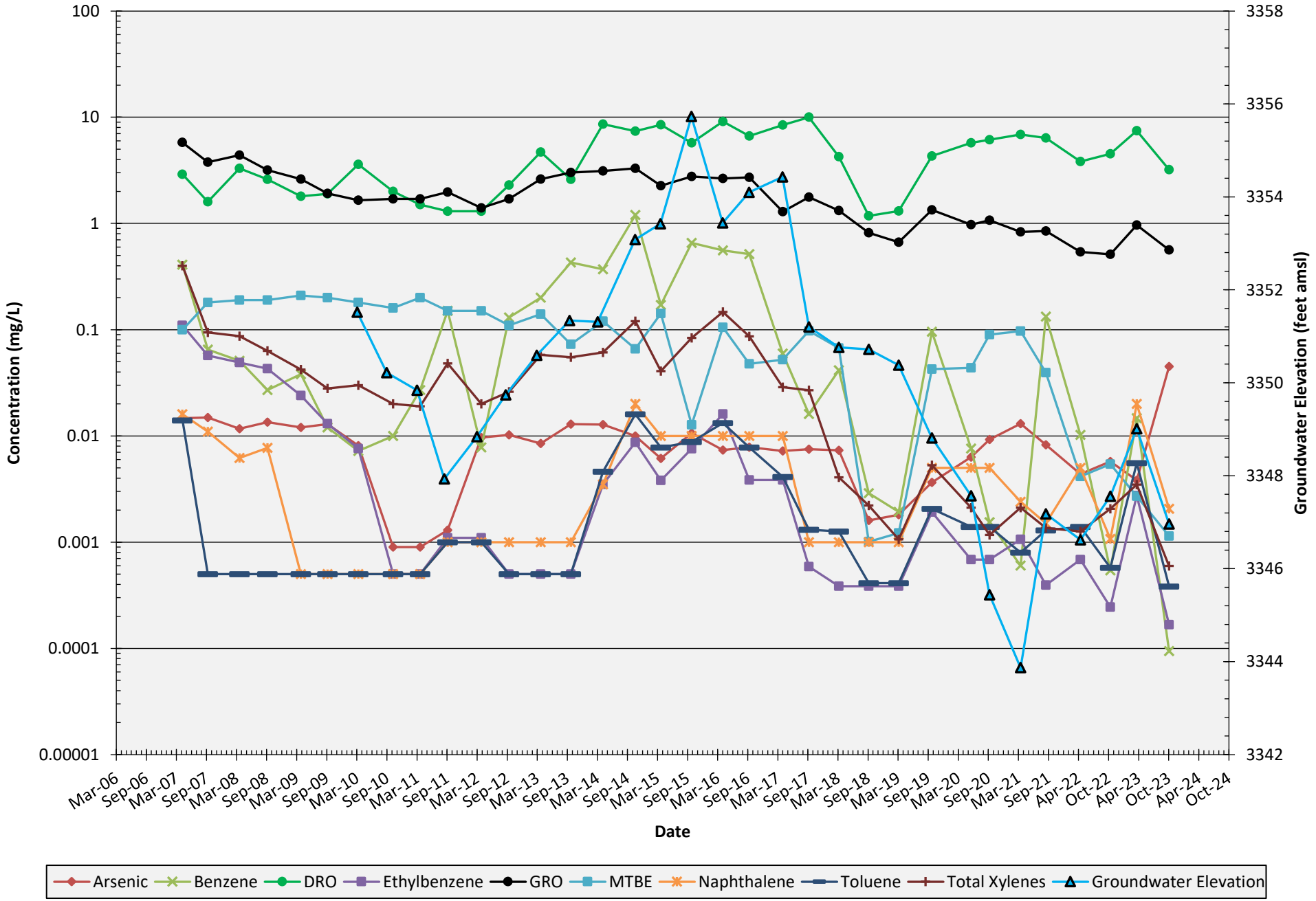


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Received by OCD: 6/12/2024 3:31:05 PM

TEL-4: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Tetra Ethyl Lead Surface Impoundment

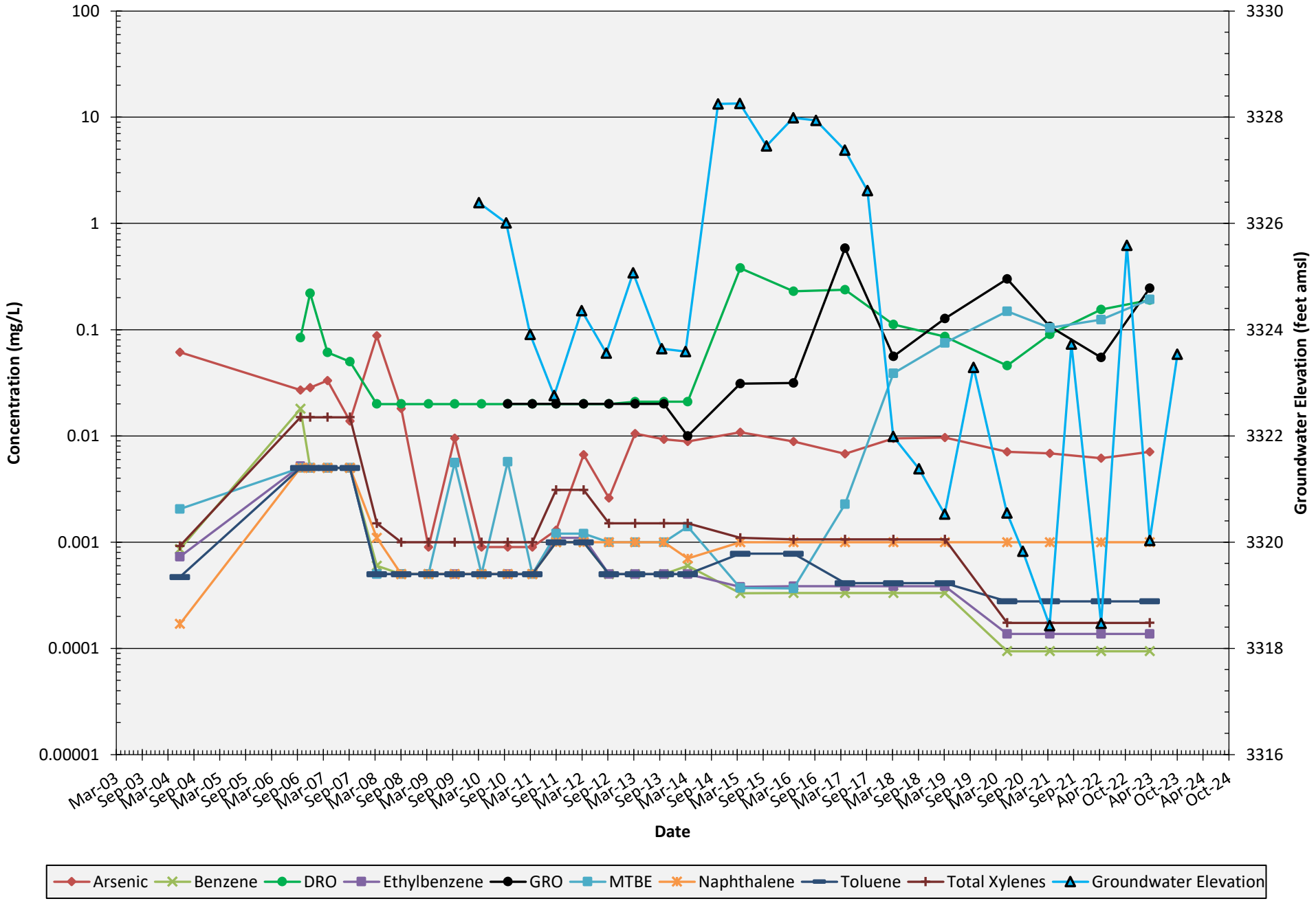


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Received by OCD: 6/12/2024 3:31:05 PM

MW-8: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Three Mile Ditch

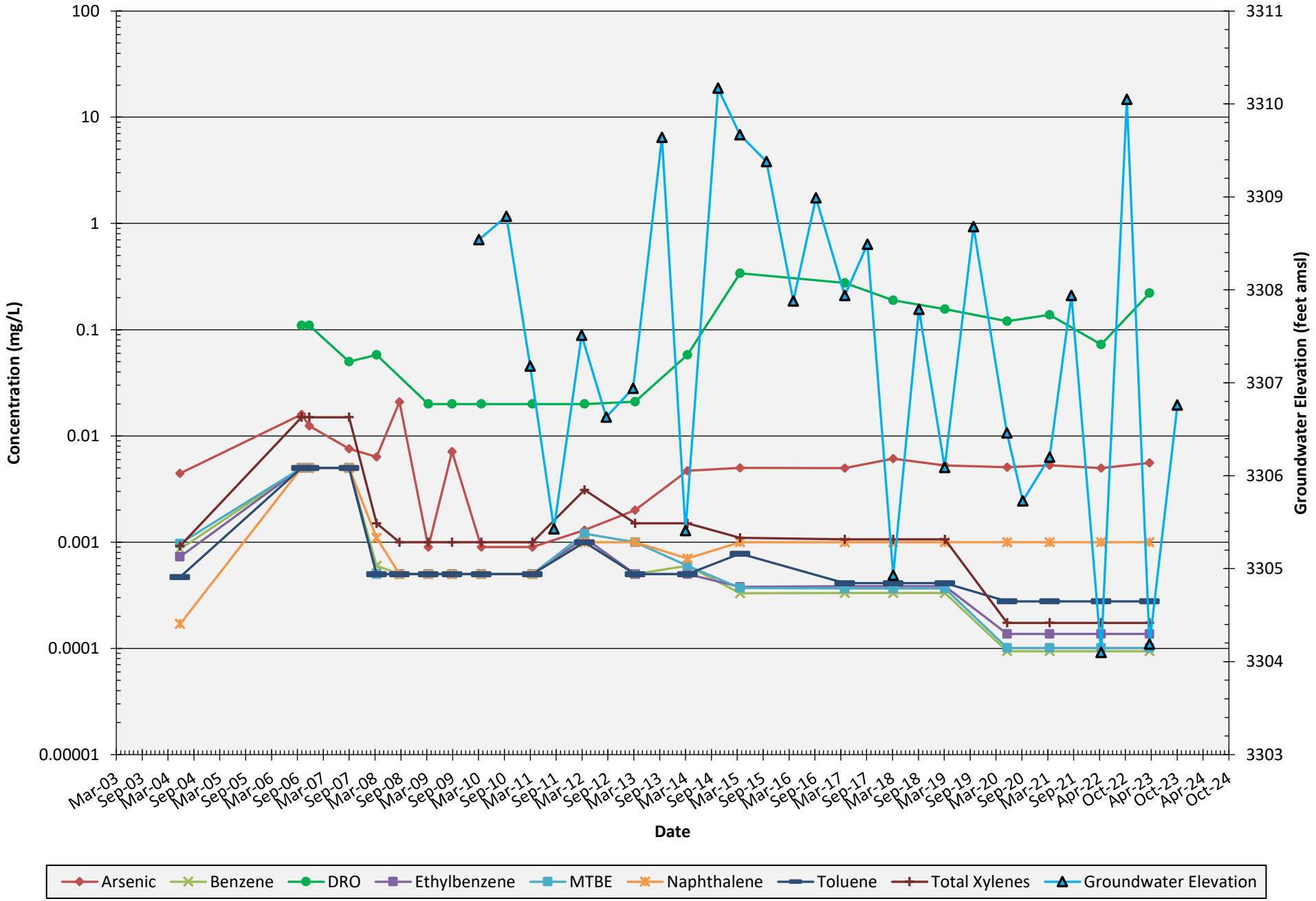


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

MW-16: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Three Mile Ditch

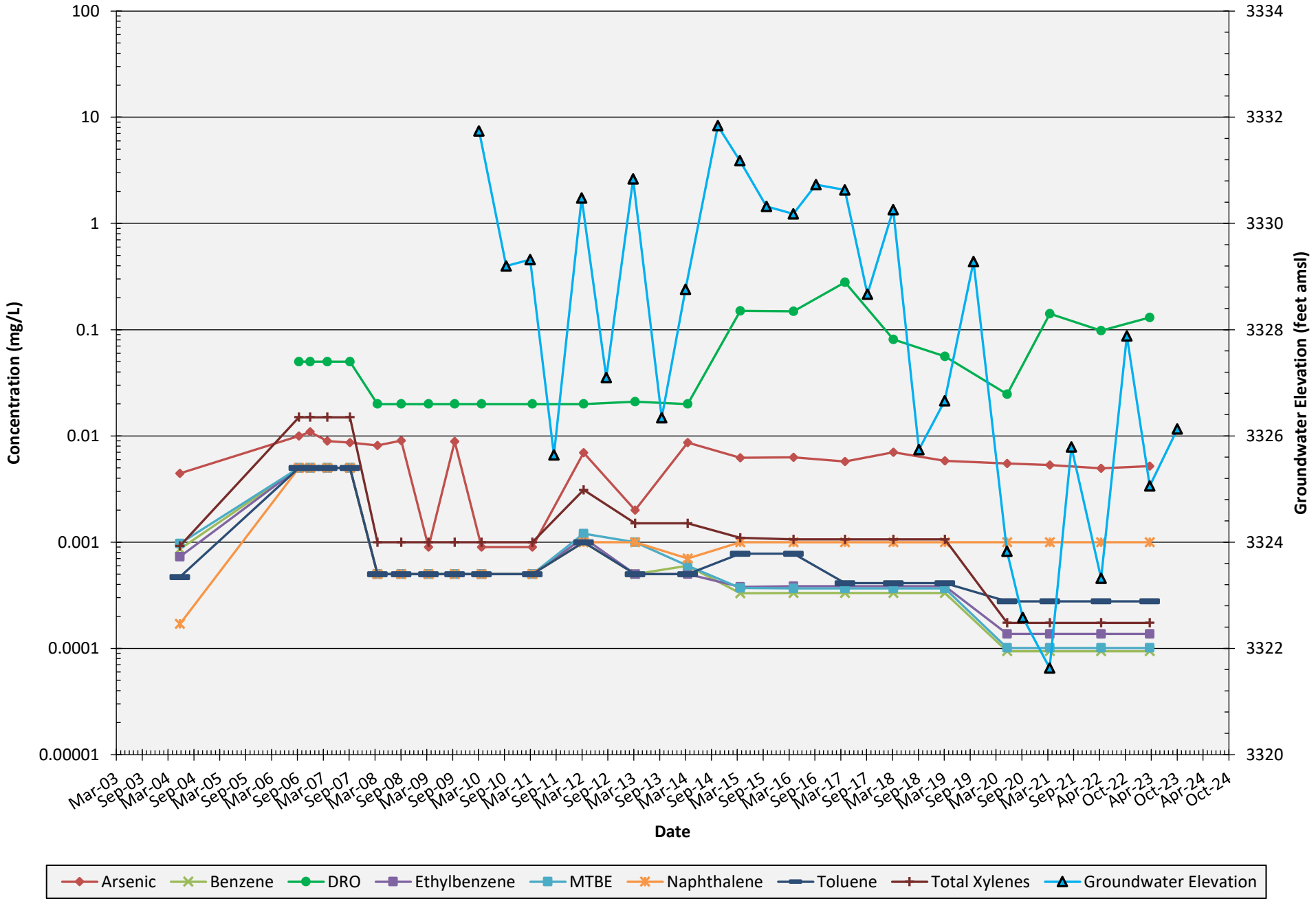


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

MW-20: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Three Mile Ditch

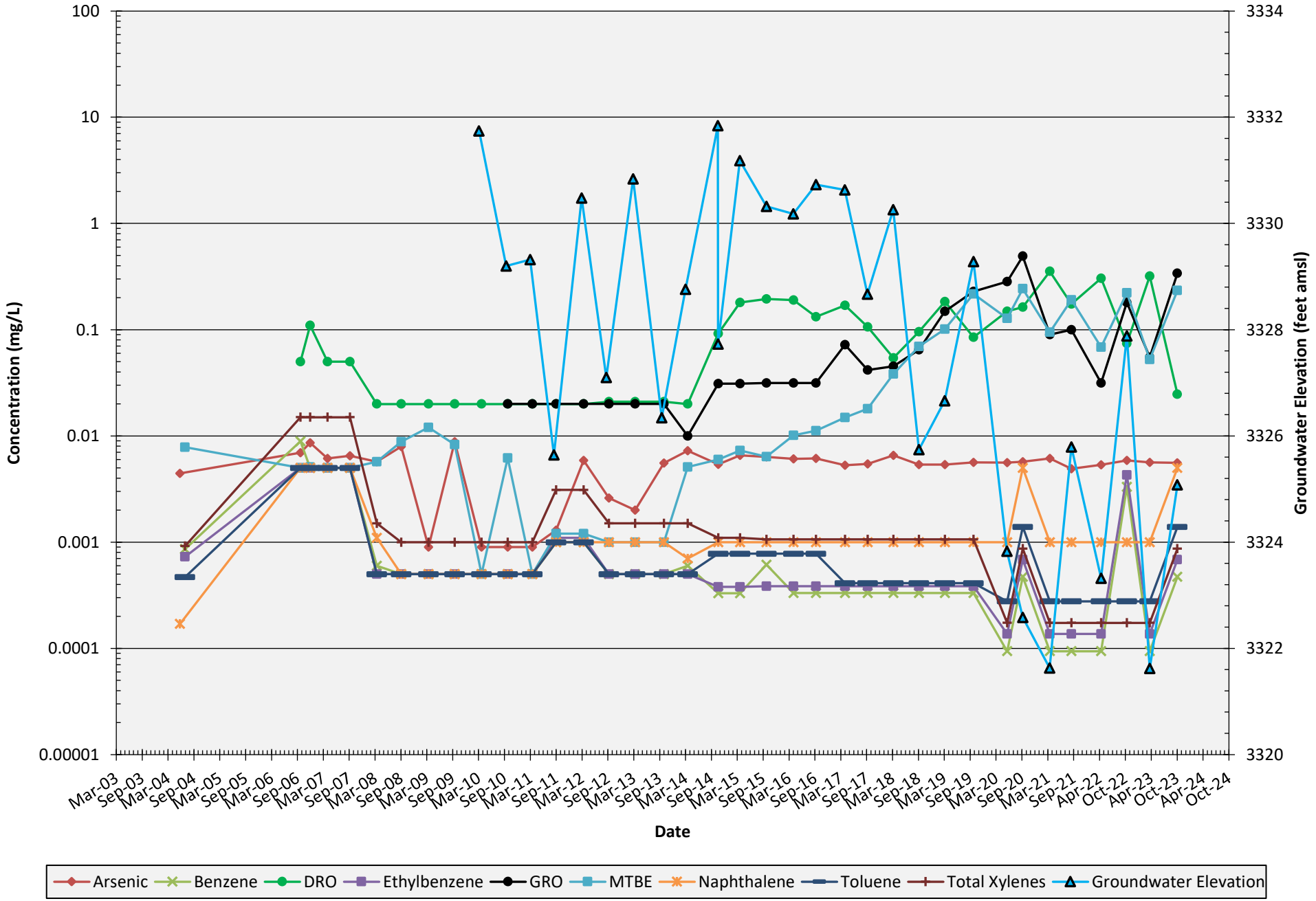


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

MW-21: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Three Mile Ditch

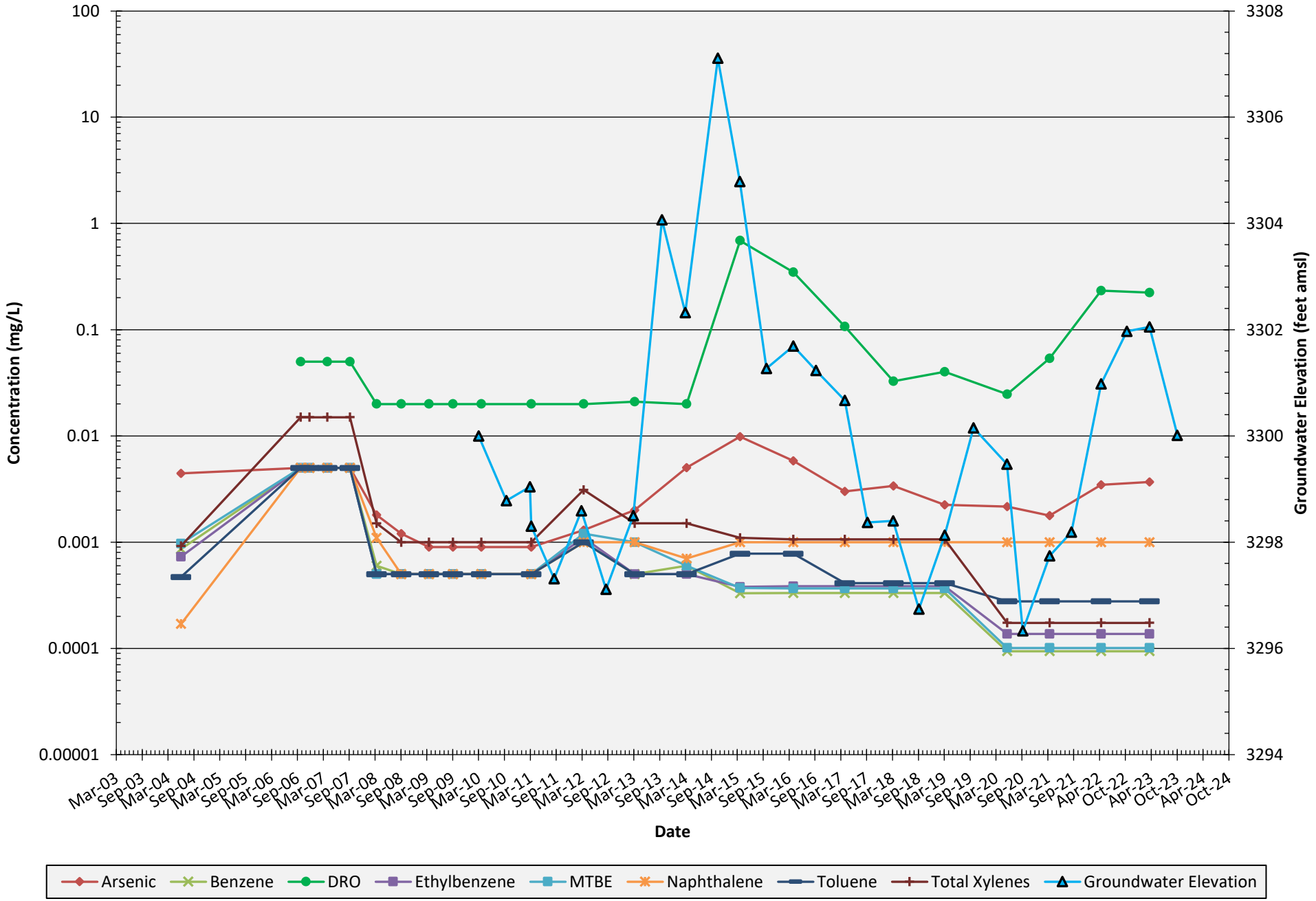


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

MW-25: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Three Mile Ditch

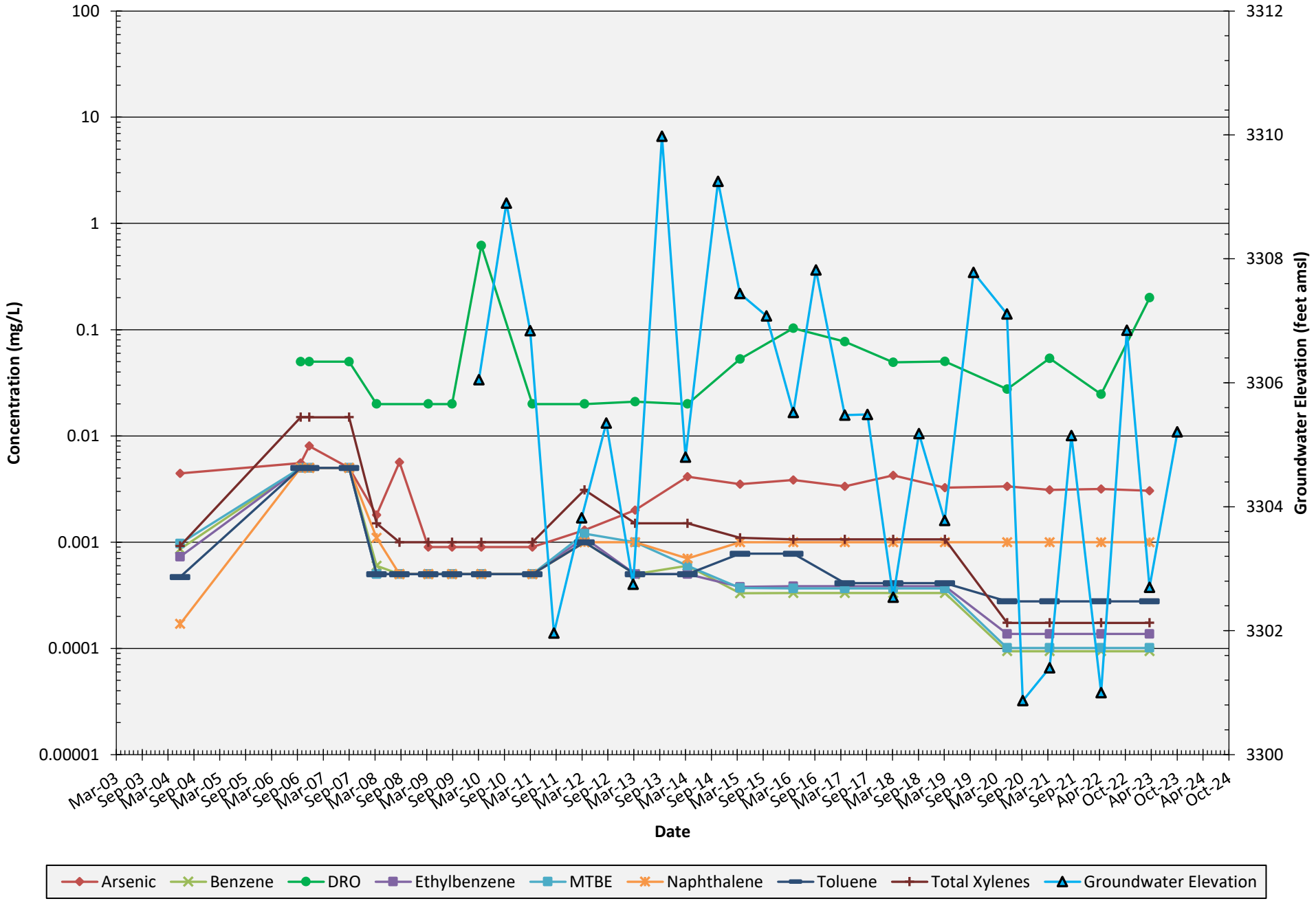


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

MW-26: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Three Mile Ditch

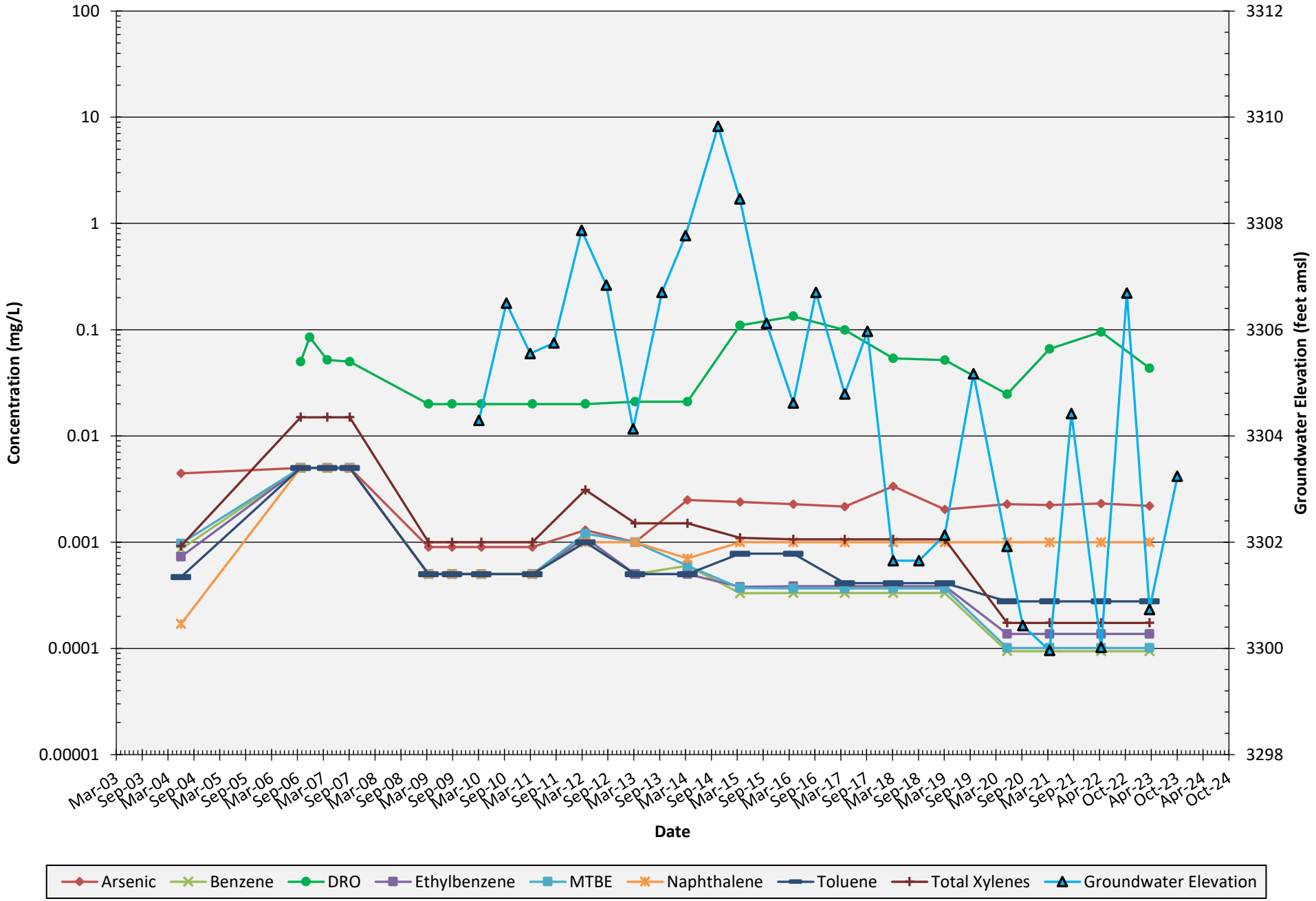


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

MW-27: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Three Mile Ditch

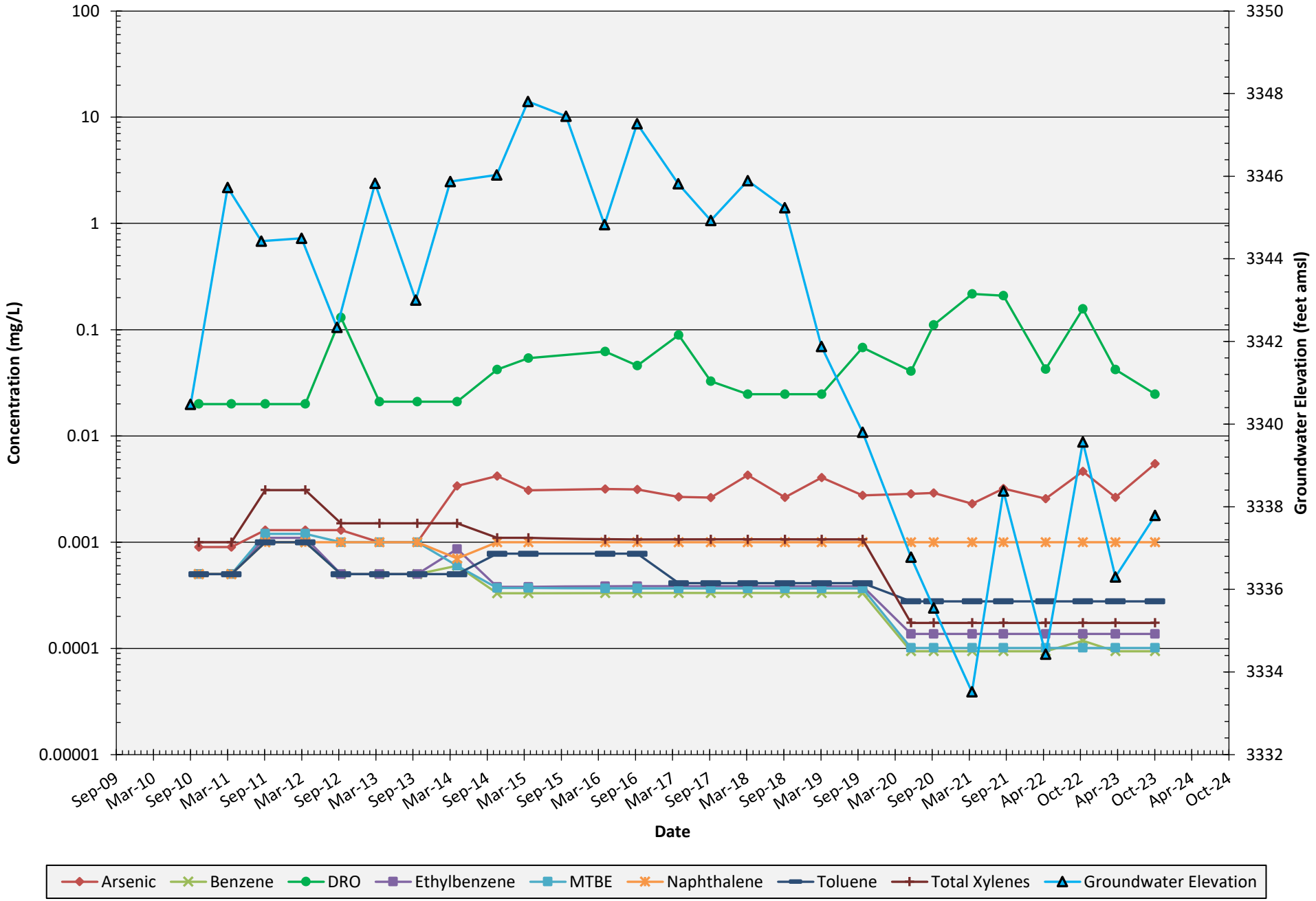


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

MW-46 & MW-46R: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Three Mile Ditch

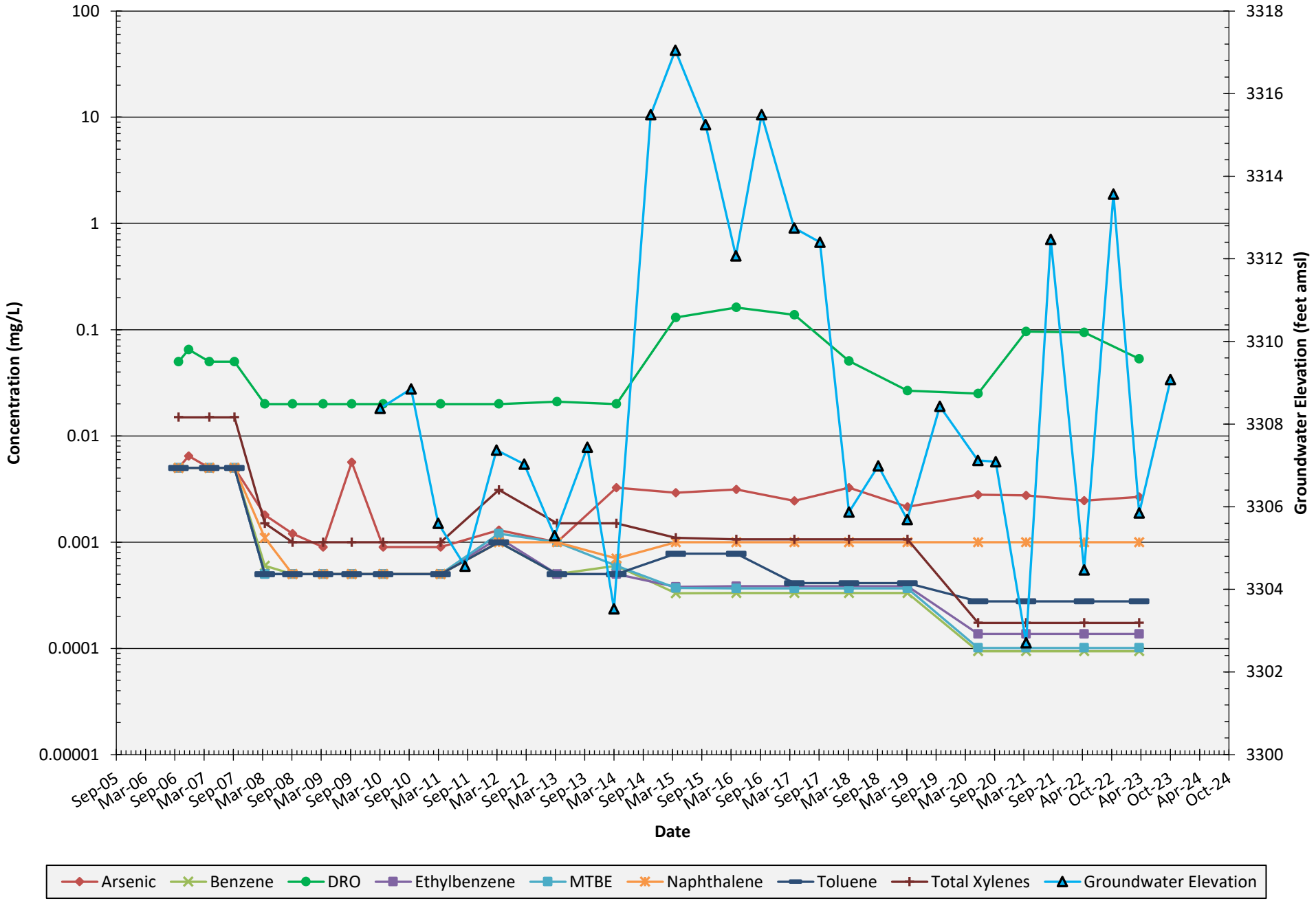


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

MW-68: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Three Mile Ditch

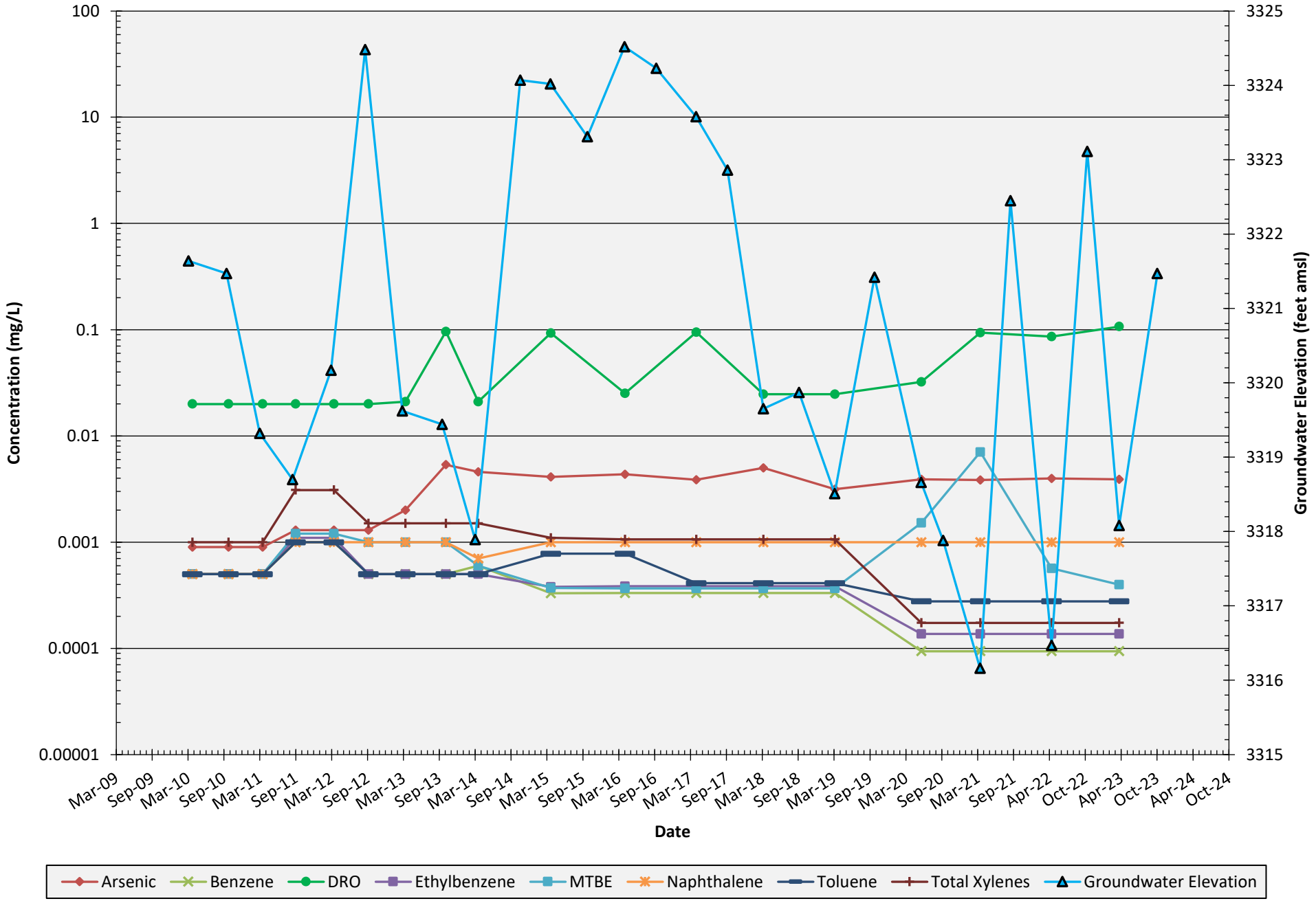


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

MW-71: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Three Mile Ditch

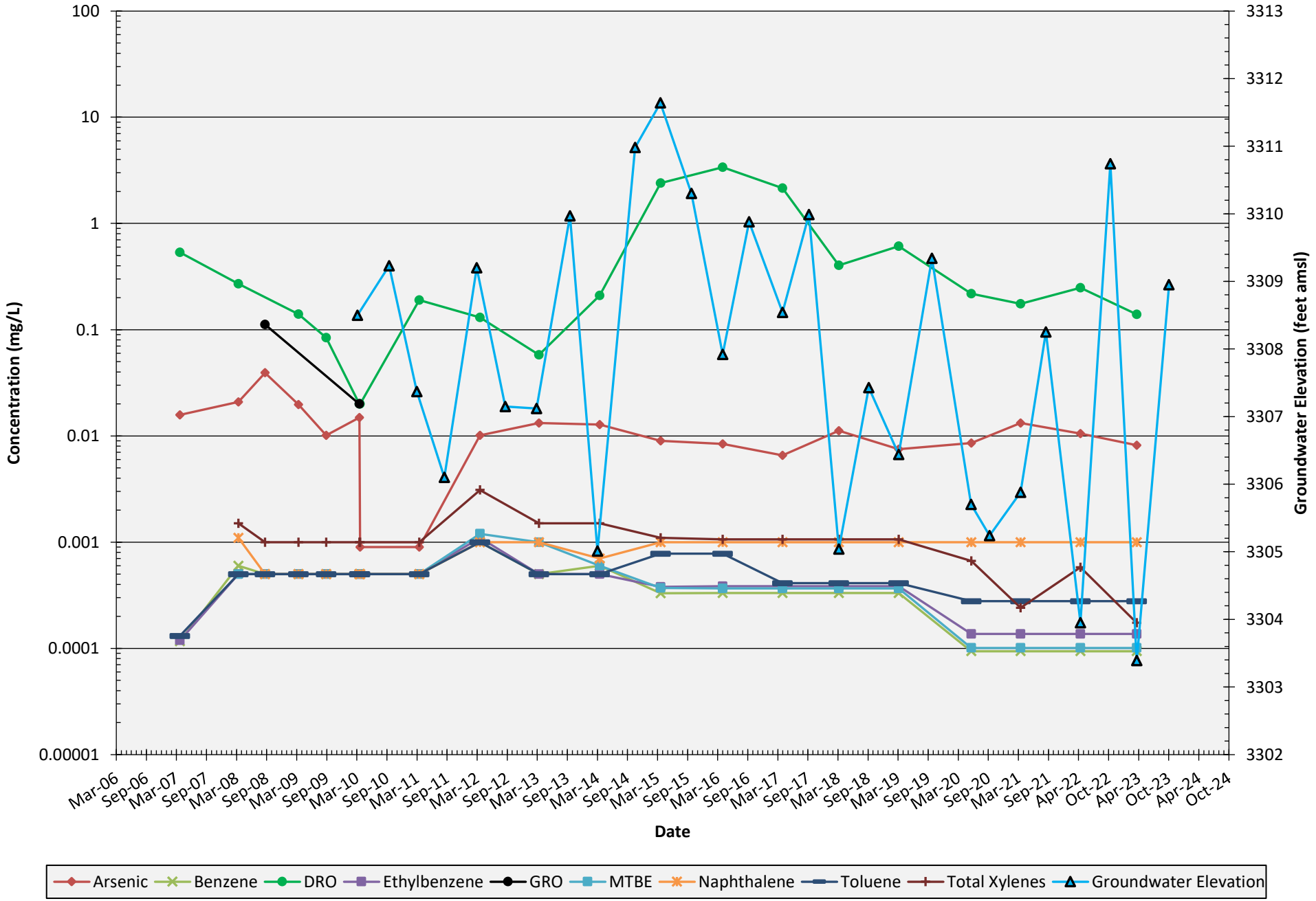


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

MW-89: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Three Mile Ditch

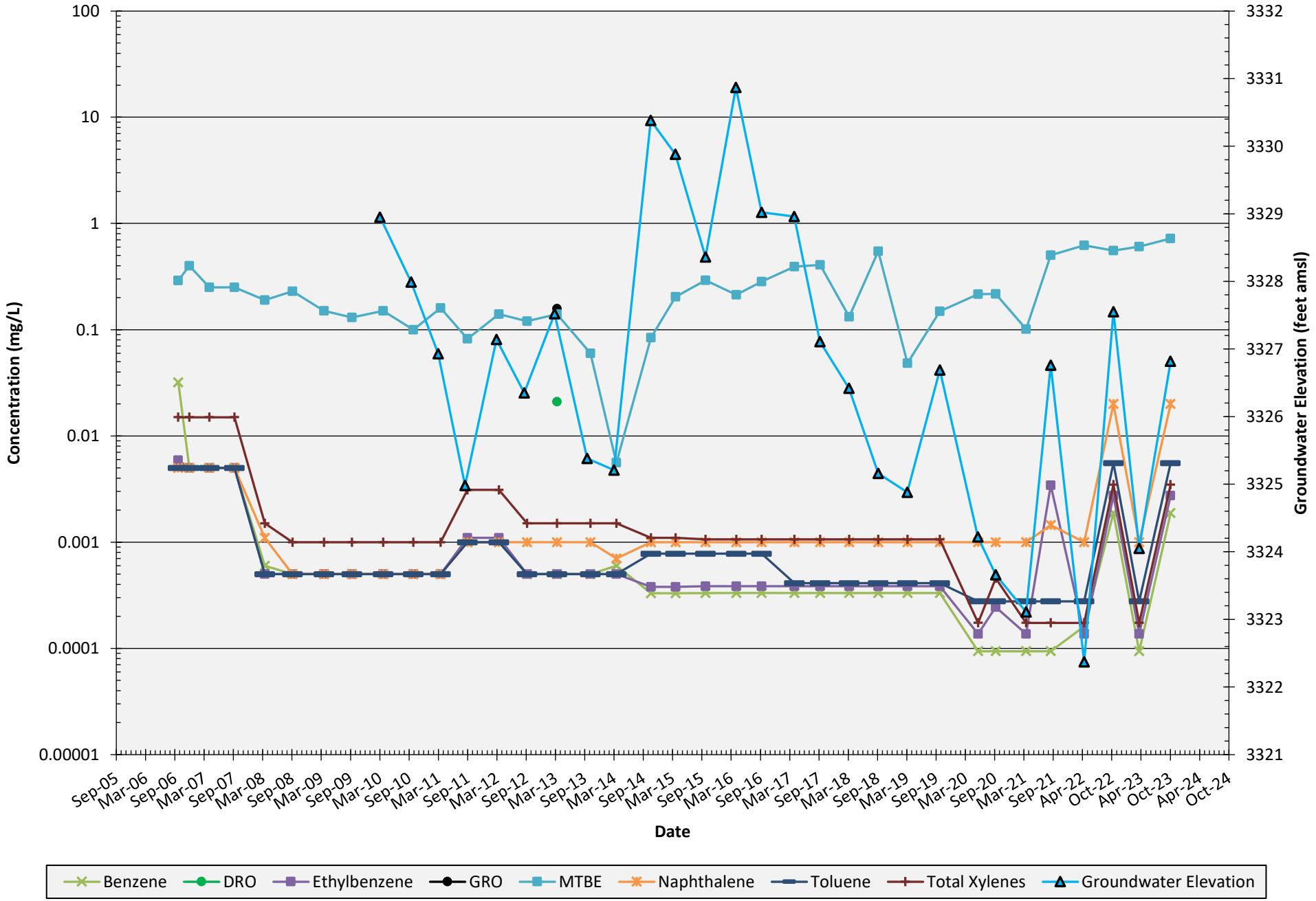


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

NP-1: COC Concentrations and Groundwater Elevations

HF Sinclair Navajo Refining LLC - Artesia Refinery

Three Mile Ditch

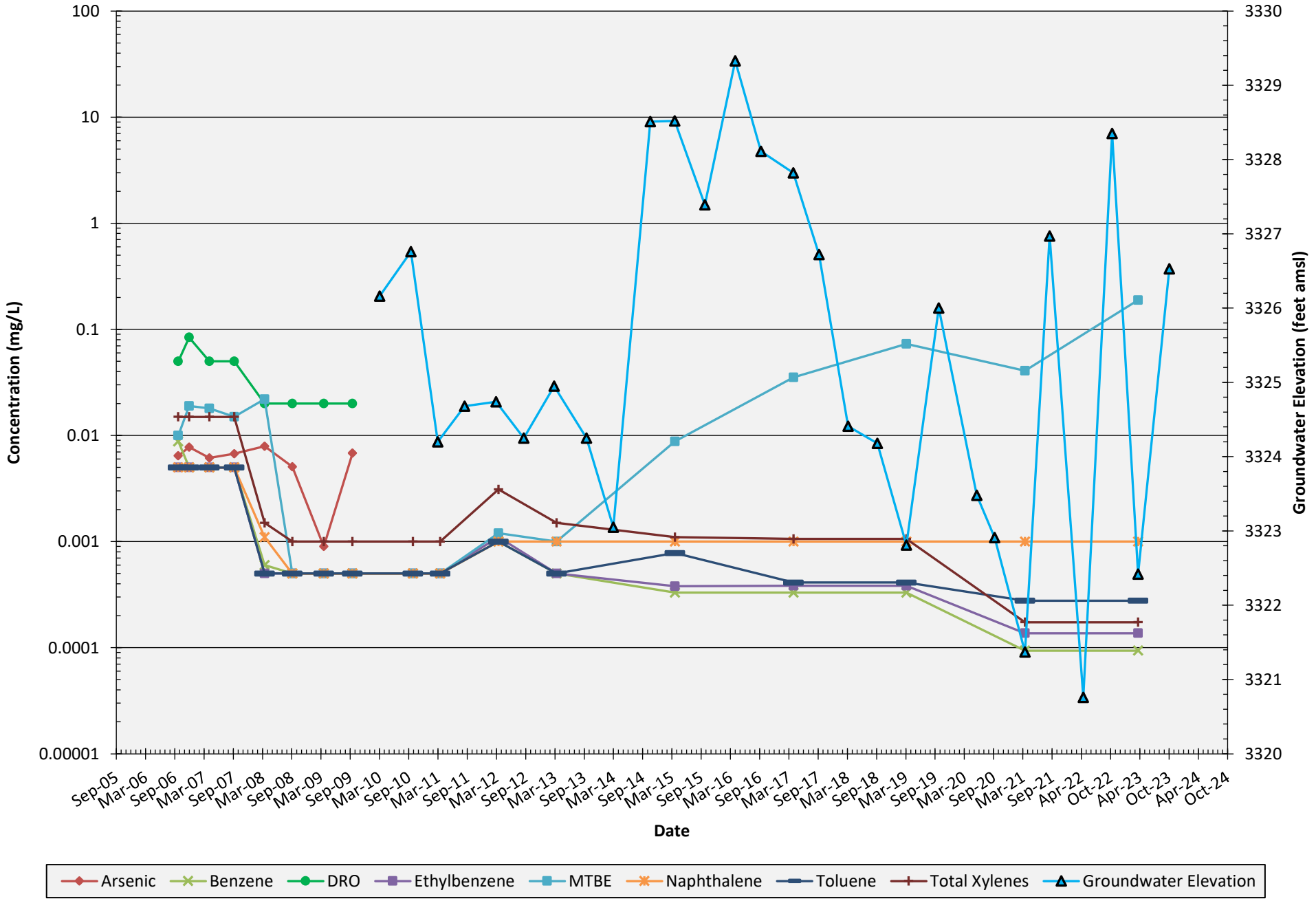


Released to Imaging: 6/28/2024 11:23:28 AM
Received by OCD: 6/12/2024 3:31:05 PM

NP-6: COC Concentrations and Groundwater Elevations

HF Sinclair 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 March and October 2023 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 issues were identified.

- Due to significant holding time exceedances, the nondetect results for nitrate and nitrite in samples DUP-REST-02, DUP-TEL-01, EB-NCL-01, MW-4A, MW-75, MW-76, MW-77, MW-109, MW-113, OCD-3, RW-#17A, and TEL-4 collected on March 22, 2023, nitrate in samples DUP-EP-01, DUP-EP-02, MW-7A, MW-10, MW-22A, MW-29, MW-49, and MW-123 collected on October 4, 2023, and nitrite in samples DUP-EP-01, DUP-EP-02, DUP-TEL-01, MW-7A, MW-10, MW-22A, MW-29, MW-49, MW-123, and TEL-4 collected on October 4, 2023 are not usable for project objectives.
- Due to a significantly low surrogate recovery, the nondetect results for acid compounds, 2,4,5-trichlorophenol, 2,4,6-trichlorophenol, 2,4-dichlorophenol, 2,4-dimethylphenol, 2,4-dinitrophenol, 2-chlorophenol, 2-methylphenol, 2-nitrophenol, 3&4-methyl phenol, 4,6-dinitro-2-methylphenol, 4-chloro-3-methylphenol, 4-nitrophenol, pentachlorophenol, and phenol, in sample MW-61 collected on October 3, 2023 are not usable for project objectives.

The following sections discuss the QC issues identified during the data review for each of the data reports listed below.

March 2023 Data Packages	October 2023 Data Packages
L1596664	L1662588 (Revised 1/16/24)
L1597201	L1663141
L1597529	
L1598054	

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 L1596664

Sample identifiers cross-referenced to laboratory identifications are presented below.

Sample ID	Lab ID
L1596664-01	RW-#18A
L1596664-02	MW-145
L1596664-03	MW-146
L1596664-04	MW-135
L1596664-05	MW-147
L1596664-06	MW-148
L1596664-07	UG-3R
L1596664-08	UG-4
L1596664-09	UG-1
L1596664-10	UG-2
L1596664-11	DUP-REST-04[1]
L1596664-12	EB-REST-04

[1]Field duplicate of MW-146

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 laboratory control sample (LCS) 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 in the field samples were 2.5-10 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 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, cyanide, fluoride, and/or sulfate. The laboratory noted that select samples were diluted due to matrix (i.e., likely the presence of these target and/or non-target analytes which would have exceeded the calibration range if undiluted). Except as noted below for nitrate and nitrite, there is no impact on data usability for these analytes since these analytes were detected above the MDLs and/or RLs in the diluted samples. The nondetect RLs for nitrite in samples RW-#18A, MW-135, UG-1, UG-2, UG-3R, and UG-4, cyanide in samples UG-1 and UG-2, and nitrate in sample UG-4 were elevated accordingly.

Laboratory Method Blanks

The following analytes were detected in the method blanks: chloride, fluoride, total manganese, TPH (GC/FID) low fraction, and TPH (GC/FID) high fraction. The analytes listed below were detected in the corresponding samples at concentrations within five times the blank concentration for inorganic analytes and within 10 times the blank concentrations for organic analytes. Therefore, these samples may include measurement contributions from the laboratory.

- Fluoride: MW-145, MW-146, MW-147, MW-148, DUP-REST-04, EB-REST-04
- TPH (GC/FID) low fraction: MW-135, MW-145, MW-146, MW-147, UG-1, DUP-REST-04
- TPH (GC/FID) high fraction: DUP-REST-04, MW-135, MW-145, MW-146, MW-147, MW-148, UG-3R, UG-4
- Total manganese: MW-146, UG-3R, EB-REST-04

Equipment Blanks

The following analytes were detected in the equipment blank submitted with this data set: EB-REST-04: total arsenic, dissolved arsenic, total barium, dissolved barium, total calcium, carbon tetrachloride, chloride, dissolved solids, fluoride**+**, total manganese**+**, dissolved manganese, total potassium, total sodium, and sulfate. 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.

- Total arsenic: UG-1, UG-3R, UG-4
- Dissolved arsenic: UG-1, UG-3R, UG-4
- Total barium: DUP-REST-04, MW-135, MW-145, MW-146, MW-147, MW-148, RW-#18A, UG-1, UG-2, UG-3R, UG-4
- Dissolved barium, total potassium, chloride, and dissolved solids: DUP-REST-04, MW-135, MW-145, MW-146, MW-147, MW-148, RW-#18A, UG-1, UG-2, UG-3R, UG-4
- Dissolved manganese: MW-146, MW-148, UG-3R, UG-4, RW-#18A

- Total sodium: DUP-REST-04, RW-#18A, UG-1, UG-2, UG-3R
- Sulfate: DUP-REST-04, MW-135, MW-145, MW-146, MW-147, MW-148, RW-#18A, UG-4
- Chloride: DUP-REST-04, MW-135, MW-145, MW-146, MW-147, MW-148, RW-#18A, UG-1, UG-2, UG-3R, UG-4

+The results for fluoride and total manganese in equipment blank sample EB-REST-04 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 any field sample results.

LCS/LCSD

The LCS %R (44.2%) and LCS/LCSD RPD (26.0%) for naphthalene were outside of the laboratory-defined limits (54-135% and 20%, respectively) in QC batch WG2029960. Potential low bias exists for the nondetect results for naphthalene in the samples from this QC batch, RW-#18A, MW-145, and MW-146.

The LCS/LCSD RPD (28.0%) for bromomethane was outside of the laboratory-defined limits (25%) in QC batch WG2030006. There is no impact on the data usability due to this issue since bromomethane was not detected in the samples from this QC batch, MW-135, MW-147, MW-148, UG-1, UG-2, UG-3R, UG-4, DUP-REST-04, and EB-REST-04.

MS/MSDs

MS/MSD analyses were performed on sample UG-1 for total mercury, sample UG-2 for total boron, sample UG-3R for dissolved boron, sample RW-#18A for dissolved and total boron, and sample MW-146 for total 6020 metals. All criteria were met except as noted below.

The %Rs of total calcium in the MSD and total sodium in the MS/MSD performed on sample MW-146 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 spiked concentrations; thus, the %Rs of total calcium and sodium were not used to evaluate potential matrix effects.

Laboratory Duplicates

Laboratory duplicate analysis was performed on sample EB-REST-04 for dissolved solids. All criteria were met.

Field Duplicates

Samples DUP-REST-04/MW-146 were submitted as the field duplicate pair. All criteria were met.

LAB REPORT L1597201

Sample identifiers cross-referenced to laboratory identifications are presented below.

Lab ID	Sample ID
L1597201-01	MW-6A
L1597201-02	MW-6B
L1597201-03	MW-120
L1597201-04	MW-121
L1597201-05	MW-122
L1597201-06	MW-2A
L1597201-07	MW-72
L1597201-08	OCD-6
L1597201-09	OCD-7AR
L1597201-10	OCD-7B
L1597201-11	MW-4B
L1597201-12	MW-5A
L1597201-13	MW-5B
L1597201-14	MW-5C
L1597201-15	MW-7A
L1597201-16	MW-7B
L1597201-17	OCD-8A
L1597201-18	OCD-8B
L1597201-19	DUP-EP-01[1]
L1597201-20	EB-EP-03
L1597201-21	TRIP BLANK-EP-02
L1597201-22	MW-25
L1597201-23	MW-1R
L1597201-24	MW-15
L1597201-25	MW-87
L1597201-26	MW-18A
L1597201-27	MW-18B
L1597201-28	MW-70
L1597201-29	MW-124
L1597201-30	EB-EP-02
L1597201-36	MW-68
L1597201-37	MW-27
L1597201-38	MW-89
L1597201-39	MW-16
L1597201-40	MW-26
L1597201-41	KWB-11A
L1597201-42	MW-117
L1597201-43	MW-118
L1597201-44	MW-119

Lab ID	Sample ID
L1597201-45	NP-5
L1597201-46	MW-136
L1597201-47	MW-126B
L1597201-48	KWB-1A
L1597201-49	KWB-1C
L1597201-50	KWB-12B
L1597201-51	KWB-2R
L1597201-52	KWB-13
L1597201-53	DUP-REST-05[2]
L1597201-54	EB-REST-05
L1597201-55	TRIP BLANK-REST-02
L1597201-56	MW-101
L1597201-57	MW-105
L1597201-58	RW-2
L1597201-59	MW-61
L1597201-60	MW-62R
L1597201-61	MW-49
L1597201-62	TRIP BLANK-REST-04
L1597201-63	MW-103
L1597201-64	MW-104
L1597201-65	MW-64
L1597201-66	MW-65
L1597201-67	RW-4
L1597201-68	RW-6
L1597201-69	MW-96
L1597201-70	NCL-33
L1597201-71	NCL-44
L1597201-72	NCL-32
L1597201-73	MW-108
L1597201-74	NCL-31
L1597201-75	MW-55
L1597201-76	MW-18
L1597201-77	MW-53R

[1]Field duplicate of MW-7A
[2]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		

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 all samples except the equipment blanks (EB-EP-03, EB-EP-02, and EB-REST-05) 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 nitrate, nitrite, chloride, fluoride, and sulfate analyses of samples KWB-2R, KWB-1A, KWB-1C, KWB-12B, KWB-13, MW-1R, MW-2A, MW-4B, MW-5B, MW-5A, MW-5C, MW-6A, MW-6B, MW-7A, MW-7B, MW-16, MW-18, MW-18A, MW-18B, MW-25, MW-26, MW-27, MW-53R, MW-61, MW-70, MW-68, MW-87, MW-89, MW-101, MW-103, MW-105, MW-117, MW-118, MW-119, MW-120, MW-121*, MW-122, MW-124, MW-126B, MW-136, NCL-32, NCL-33, NCL-44, NP-5, DUP-EP-01, DUP-REST-05, OCD-7B, OCD-8A, and OCD-8B were diluted due to matrix. There is no impact on data usability for these analytes since these analytes were detected above the method detection limits (MDLs) and/or RL in these samples with the exception of fluoride in samples DUP-REST-05, MW-70, MW-126B, and KWB-12B and nitrate and/or nitrate in several samples listed above. The nondetect RLs for nitrate and/or nitrite in several of these samples were elevated accordingly.

> *The laboratory was contacted during this review about the sample narrative added to the metals results for sample MW-121; the laboratory stated that the sample narrative associated with the metals results of this sample was incorrect as the metals results were not diluted and that the sample narrative should have been associated with the anions analysis of this sample, which were diluted. A revised laboratory report was not requested.

The laboratory noted that the total sodium (10-fold) and dissolved lead and TPH (GC/FID) High Fraction (5-fold) analyses of sample MW-2A were diluted due to matrix; total sodium and TPH (GC/FID) High Fraction were detected in this sample and were therefore not adversely impacted

by the elevated RLs. However, the nondetect RL for dissolved lead in this sample was elevated accordingly.

The laboratory noted that the total sodium (10-fold) and dissolved lead (5-fold) analyses of sample OCD-7AR were diluted due to matrix; total sodium was detected in this sample and was therefore not adversely impacted by the elevated RL. However, the nondetect RL for dissolved lead in this sample was elevated accordingly.

The laboratory noted that the total sodium (10-fold) and dissolved lead and dissolved uranium (5-fold) analyses of sample OCD-8A were diluted due to matrix; total sodium and dissolved uranium were detected in this sample and were therefore not adversely impacted by the elevated RLs. However, the nondetect RL for dissolved lead in this sample was elevated accordingly.

The laboratory noted that the total sodium, dissolved lead, and dissolved uranium (5-fold) analyses of sample MW-18A were diluted due to matrix; total sodium and dissolved uranium were detected in this sample and were therefore not adversely impacted by the elevated RsL. However, the nondetect RL for dissolved lead in this sample was elevated accordingly.

The laboratory noted that the cyanide analyses of samples KWB-13 (5-fold), MW-18 (2-fold), MW-49 (25-fold), and MW-136 (2-fold) were diluted due to matrix. Therefore, the nondetect RLs for cyanide in these samples were elevated accordingly.

Several other samples were analyzed at dilutions for total sodium, total barium, total calcium, dissolved lead, nitrate, nitrite, chloride, fluoride, sulfate, VOCs, TPH (GC/FID) high fraction, and/or TPH (GC/FID) low fraction but the laboratory did not include a sample narrative explaining the dilutions with the exception of VOCs in select samples; the laboratory noted that select VOC dilutions were due to elevated concentrations of target compounds. 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 total sodium, total barium, total calcium, chloride, fluoride, sulfate, TPH (GC/FID) high fraction, and/or TPH (GC/FID) low fraction since these analytes were detected above the MDLs and/or RLs in the diluted samples. The nondetect RLs for several VOCs in samples KWB-2R, MW-49, MW-61, MW-62R, MW-64, MW-96, MW-101, MW-103, MW-105, RW-2, and RW-6, nitrate and nitrite in sample KWB-11A, and dissolved lead in sample OCD-6 were elevated accordingly.

The results for total and dissolved arsenic in samples MW-4B, MW-120, and RW-2, total and dissolved barium in samples KWB-12B, MW-7B, MW-61, MW-105, MW-121, MW-136, and RW-2, and total and dissolved manganese in samples MW-4B, MW-61, MW-62R, MW-72, and OCD-6 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 with the exception of total arsenic in sample MW-120 and total manganese in sample MW-62R; these results were < 5x the RL but the absolute differences between the total and dissolved results were well above 2x the RL.

The laboratory flagged the result for dissolved uranium in sample MW-119 with an "O1" qualifier indicating that either a serial dilution (SD) or post-digestion spike (PDS) result was outside of the acceptance criteria. The laboratory was contacted during this review and specified that the SD performed on this sample was outside of the acceptance criteria (10 percent difference [%D]) for dissolved uranium (10.3%D). Thus, potential uncertainty exists for the dissolved uranium result in sample MW-119; this uncertainty may extend to other positive results for dissolved uranium in samples collected during the March 2023 sampling event.

Standard Conditions

The laboratory noted that no containers were received for 1,4-dioxane analysis that was requested on the COC for sample MW-126B; there is no impact on the data usability due to this COC error since 1,4-dioxane analysis was not required for this sample.

The laboratory only completed the Sample Receipt Checklist for this SDG on page 1 of the COC; there is no impact on the data usability due to this COC error since no issues were noted on the Sample Receipt Checklist on page 1 of the COC or in the case narrative.

Holding Times

Samples KWB-12B, MW-18, MW-26, and MW-136 were re-analyzed five days beyond the 48-hour holding time for nitrate. The laboratory reported both the in-hold and out-of-hold nitrate results for these samples due to a QC failure associated with the original analyses; the laboratory indicated during this review that the QC failure was a continuing calibration verification (CCV) nonconformance. However, only the out-of-hold results for nitrate in the re-analyses of these samples were used for project objectives since the re-analyzed nitrate results were higher than the original results. Therefore, potential low bias exists for the positive results for nitrate in these samples due to the holding time exceedance.

Samples MW-15, KWB-11A, and KWB-2R were analyzed for nitrate and nitrite 29 minutes, 23 minutes, and 33 minutes, respectively, after the 48-hour holding time. Therefore, potential low bias exists for the nondetect results for nitrate and nitrite in these samples.

Laboratory Method Blanks

The following analytes were detected in the method blanks: chloride, fluoride, total boron, total manganese, total sodium, total chromium, dissolved arsenic, dissolved iron, dissolved vanadium, dissolved manganese, TPH (GC/FID) low fraction, TPH (GC/FID) high fraction, and carbon disulfide. 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.

- Chloride: EB-EP-03
- Fluoride: EB-EP-03, KWB-11A, KWB-13, KWB-2R, MW-15, MW-1R, MW-25, MW-27, MW-4B, MW-53R, MW-5C, NCL-33, OCD-6, OCD-7AR, OCD-7B

- Total manganese: EB-EP-03
- Total sodium: EB-EP-03
- Total chromium: MW-1R, MW-25, MW-18A, MW-70, MW-117, MW-118, MW-119
- Dissolved iron: KWB-1A, KWB-2R, MW-49, MW-53R, MW-61, MW-96, NCL-31, NCL-44
- Dissolved vanadium: EB-REST-05, MW-49
- TPH (GC/FID) low fraction: MW-2A, MW-4B, MW-5C, MW-6A, MW-6B, MW-72, MW-7A, MW-7B, MW-120, MW-121, MW-122, OCD-6, OCD-7AR, OCD-7B, KWB-11A, MW-117, MW-118, MW-136, EB-REST-05, RW-2
- Carbon disulfide: MW-2A, MW-4B, MW-5A, MW-5B, MW-6A, MW-6B, MW-120, MW-121, MW-122, OCD-6, OCD-7B, OCD-8A, OCD-8B, KWB-13, MW-49, MW-61, MW-62R, MW-64, MW-101, MW-103, MW-105, MW-126B, RW-2, TRIP BLANK-REST-02
- TPH (GC/FID) high fraction: MW-5A, MW-6A, MW-6B, MW-72, MW-120, MW-122, OCD-6, OCD-7AR, DUP-REST-05, EB-REST-05, KWB-1A, KWB-1C, KWB-12B, KWB-13, MW-26, MW-117, MW-118, MW-119, MW-126B, MW-136, NP-5, NCL-31, MW-53R

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-02	Dissolved barium	None
	Chloroform	MW-15
EB-EP-03	2-Butanone (MEK)	None
	Chloride**	
	Fluoride**	
	Total manganese**	
	Dissolved manganese	
	Nitrate	MW-2A, MW-72, MW-121, MW-122, MW-126B, OCD-6, OCD-7AR
	Sulfate	None
	tert-Butyl alcohol	DUP-EP-01, MW-5A, MW-6A, MW-121, OCD-7AR, OCD-7B
EB-EP-02, EB-EP-03	Total calcium	None
	Total sodium	

Blank ID(s)	Analyte	Impacted Sample Results*
	(EB-EP-03**)	
Associated samples (EP Area of the site from this report): DUP-EP-01, EB-EP-02, EB-EP-03, MW-15, MW-18A, MW-18B, MW-1R, MW-2A, MW-4B, MW-5A, MW-5B, MW-5C, MW-6A, MW-6B, MW-7A, MW-7B, MW-70, MW-72, MW-87, MW-120, MW-121, MW-122, MW-124, MW-126B, OCD-6, OCD-7AR, OCD-7B, OCD-8A, OCD-8B		
EB-REST-05	Dissolved barium	None
	Total boron	
	Total calcium	
	Chloride	
	Chloroform	
	Total cobalt	KWB-11A, KWB-12B, KWB-13, MW-18, MW-49, MW-55, MW-117, MW-118, MW-119, MW-136, DUP-REST-05
	Dissolved lead	KWB-2R, MW-18, MW-62R, NCL-32
	Dissolved manganese	KWB-13, MW-18, MW-27, MW-68, MW-96, MW-103, MW-117, MW-119, MW-136, NP-5
	Dissolved nickel	KWB-11A, MW-18, MW-55, MW-117, MW-118, MW-119, MW-136
EB-REST-05	Nitrate	KWB-12B, MW-16, MW-26, MW-27, MW-53R, MW-61, MW-65, MW-68, MW-89, MW-117, NCL-32, NP-5
	Sulfate	None
	TPH (GC/FID) high fraction**	
	TPH (GC/FID) low fraction**	
	Dissolved vanadium**	
Associated samples (the remaining Areas of the site from this report. i.e., REST, NCL, TEL, and TMD): **NCL:** MW-18, MW-53R, MW-55, MW-108, NCL-31, NCL-32, NCL-33, NCL-44 **TEL:** MW-49 **TMD:** MW-16, MW-25, MW-26, MW-27, MW-68, MW-89 **REST:** DUP-REST-05, KWB-11A, KWB-12B, KWB-13, KWB-1A, KWB-1C, KWB-2R, MW-61, MW-62R, MW-64, MW-65, MW-96, MW-101, MW-103, MW-104, MW-105, MW-117, MW-118, MW-119, MW-136, NP-5, RW-2, RW-4, RW-6		
*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 five times the concentration detected in the associated method blank for inorganic analytes and were less than 10 times the concentration detected in the associated method blank for organic 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

Carbon disulfide was detected in the trip blank sample, TRIP BLANK-REST-02. The result for carbon disulfide in this sample less than 10 times the concentration detected in the associated method blank. Therefore, there was likely no impact on data usability for field samples.

LCS/LCSD

The LCS %R for dissolved chromium (128%) was above the laboratory-defined limits (80-120%) in QC batch WG2028259. Therefore, the positive result for dissolved chromium that were reported from this batch in sample MW-105 is potentially biased high. There is no impact on data usability for the remaining associated nondetect results.

The LCS %R (43.4%) and LCS/LCSD RPD (28.8%) for naphthalene (VOC) were outside of the laboratory-defined limits (54-135% and 20%, respectively) in QC batch WG2030330. Therefore the nondetect results for naphthalene (VOC) that were reported from this batch in samples EB-EP-02, KWB-11A, MW-1R, MW-15, MW-16, MW-18A, MW-18B, MW-25, MW-26, MW-27, MW-68, MW-70, MW-87, MW-89, MW-117, MW-118, MW-119, MW-124, NP-5, and TRIP BLANK-EP-02 are potentially biased low.

The LCS/LCSD RPDs for bromoform (30.1%), bromomethane (94.9%), chloromethane (43.0%), 1,2-dibromoethane (20.8%), 1,2-dichloroethane (20.3%), trans-1,3-dichloropropene (26.9%), 2-butanone (MEK) (28.6%), 2-hexanone (32.4%), 4-methyl-2-pentanone (MIBK) (27.8%), methyl tert-butyl ether (23.7%), naphthalene (VOC) (40.4%), and 1,1,2,2-tetrachloroethane (29.4%) were above the laboratory-defined limits (20% for all except 25% for bromomethane) in QC batch WG2030392. Further, the LCS %R for methylene chloride (121%) and the LCSD %Rs for 4-methyl-2-pentanone (MIBK) (65.6%) and naphthalene (VOC) (47.8%) were outside of the laboratory-defined limits (67-120%, 68-142%, and 54-135%, respectively) in the same QC batch. Therefore, the positive result for 2-butanone (MEK) in sample NCL-32, the positive results for methyl tert-butyl ether in samples RW-6 and MW-96, and the positive and nondetect results for naphthalene (VOC) and 4-methyl-2-pentanone (MIBK) in the samples from this QC batch, MW-65, RW-6, MW-96, NCL-33, NCL-44, NCL-32, MW-108, NCL-31, MW-55, MW-18, and MW-53R, are potentially uncertain. Since the remaining compounds were not detected in the samples from this QC batch, there is no impact on data usability.

The LCS %R for chloroethane (38.0%) was below the laboratory-defined limits (47-150%) in QC batch WG2030864. Therefore, the nondetect result for chloroethane in the associated sample, KWB-2R, is potentially biased low.

The LCS %R for benzaldehyde (192%) was above the laboratory-defined limits (10-160%) in QC batch WG2030230. There is no impact on the data usability due to this issue since benzaldehyde was not detected in the associated samples, RW-2 and MW-61.

MS/MSDs

MS and/or MS/MSD analyses were performed on the following samples:

- MW-6B, MW-49, MW-62R, MW-64, MW-96, RW-6: Chloride, fluoride, sulfate, nitrite, nitrate
- EB-REST-05, NCL-31: Nitrate
- MW-117, DUP-REST-05: Total mercury
- MW-117, OCD-8A, EB-REST-05: Dissolved mercury
- MW-18, MW-117: Dissolved boron
- MW-119: Total boron
- MW-6B, MW-25, MW-103, RW-2: Total 6020 metals
- MW-6A, MW-25, MW-119: Dissolved 6020 metals

The %Rs of chloride and sulfate in the MS and/or MSD performed on samples MW-6B and RW-6, chloride in the MS and MSD performed on sample MW-49, chloride in the MS performed on sample MW-64, and chloride in the MS and MSD performed on sample MW-62R were outside of the laboratory-defined recovery limits (80-120%). However, the concentrations of chloride and sulfate in the unspiked sample were greater than four times the spiked concentration; thus, the %Rs of chloride and sulfate were not used to evaluate potential matrix effects.

The %Rs of nitrite in the MS performed on sample MW-96 (159%) and MS and MSD performed on sample MW-6B (71.4% and 71.1%) were outside of the laboratory-defined recovery limits (80-120%); therefore, the positive and nondetect results for nitrite in all groundwater samples from this lab report except MW-49, MW-62R, MW-64, and RW-6 may be potentially uncertain.

The %R of sulfate in the MS performed on sample MW-49 (78.6%) was outside of the laboratory-defined recovery limits (80-120%); therefore, the positive and nondetect results for sulfate in all groundwater samples from this lab report except MW-6B, MW-62R, MW-64, MW-96, and RW-6 may be biased low.

The %R of total mercury in the MSD performed on sample MW-117 (74.0%) was outside of the laboratory-defined recovery limits (75-125%); therefore, the nondetect results for total mercury in all groundwater samples from this lab report may be biased low.

The %R of dissolved mercury in the MSD performed on sample MW-117 (73.8%) was outside of the laboratory-defined recovery limits (75-125%); therefore, the nondetect results for dissolved mercury in all groundwater samples from this lab report except OCD-8A may be biased low.

The %Rs of total calcium, total manganese, and total sodium in the MS and MSD performed on samples MW-6B and MW-25 were outside of the laboratory-defined recovery limits (75-125%). However, the concentrations of total calcium, total manganese, and total sodium in the

unspiked sample were greater than four times the spiked concentrations; thus, the %Rs of these three metals were not used to evaluate potential matrix effects.

The %Rs of total calcium and total manganese in the MS performed on sample RW-2 were outside of the laboratory-defined recovery limits (75-125%). However, the concentrations of total calcium and total manganese in the unspiked sample were greater than four times the spiked concentrations; thus, the %Rs of these metals were not used to evaluate potential matrix effects.

The %Rs of total arsenic (63.2%/65.0%) in the MS and MSD performed on sample RW-2 were outside of the laboratory-defined recovery limits (75-125%); therefore, the positive results for total arsenic in all groundwater samples from this lab report except MW-6B, MW-25, and MW-103 may be biased low.

The %Rs of total sodium in the MS and MSD performed on sample MW-103 were outside of the laboratory-defined recovery limits (75-125%). However, the concentration of total sodium in the unspiked sample was greater than four times the spiked concentration; thus, the %Rs of sodium were not used to evaluate potential matrix effects.

Surrogate Recoveries

The surrogate (o-terphenyl) recovered above the laboratory control limits (31.0-160%) in the TPH (GC/FID) high fraction analyses of sample MW-2A (165%) and MW-101 (189%). The laboratory noted that these surrogate issues were due to matrix interference. Therefore, the positive results for TPH (GC/FID) high fraction in samples MW-2A and MW-101 may be biased high.

Laboratory Duplicates

Laboratory duplicate analyses were performed on the following samples:

- MW-5C, MW-104, MW-105, EB-EP-02, EP-EB-03: Dissolved solids
- KWB-11A: Cyanide
- MW-6B, MW-49, MW-62R, MW-64, MW-96, RW-6: Chloride, fluoride, sulfate, nitrite, nitrate
- EB-REST-05, NCL-31: Nitrate

The RPDs for dissolved solids in the duplicate analyses performed on samples MW-5C (8.99%), MW-104 (18.7%), and MW-105 (17.7%), and RPD for fluoride in the duplicate analyses performed on sample MW-96 (17.1%) exceeded the laboratory-defined control limits (5% for dissolved solids and 15% for fluoride). However, there was no impact on the data usability since the RPDs were within the acceptance criteria used in this evaluation (20%).

The RPDs for nitrite in the duplicate analyses performed on samples MW-96 and RW-6 exceeded the laboratory-defined control limits (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 DUP-EP-01/MW-7A and DUP-REST-05/KWB-12B were submitted as the field duplicate pairs. All criteria were met except as noted below:

- The RPDs for total arsenic (46.5%) and total iron (73.9%) were above the acceptance criteria (30%) in field duplicate pair MW-7A/DUP-EP-01. Therefore, the positive results for total arsenic and total iron in samples MW-7A and DUP-EP-01 may be potentially uncertain.
- It should be noted that the re-analyzed nitrate result for sample KWB-12B was used in the field duplicate evaluation for samples KWB-12B/DUP-REST-05 as explained above; the initial nitrate result in the parent sample was not included in the field duplicate evaluation. The absolute difference for nitrate (3.23 mg/L) was above the acceptance criteria (when one or both results are < five times the RL [1.0 mg/L], the absolute difference must be < the RL; absolute difference = 2.0 mg/L) in field duplicate pair KWB-12B/DUP-REST-05. Therefore, the positive results for nitrate in samples KWB-12B and DUP-REST-05 may be considered estimated.

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Sample identifiers cross-referenced to laboratory identifications are presented below.

Lab ID	Sample ID
L1597529-01	MW-84
L1597529-02	MW-81
L1597529-03	MW-80
L1597529-04	MW-79
L1597529-05	MW-82
L1597529-06	MW-74
L1597529-07	MW-73
L1597529-08	MW-130
L1597529-09	EB-EP-01
L1597529-10	EB-EP-04
L1597529-11	TRIP BLANK-EP-01
L1597529-12	MW-76
L1597529-13	MW-77
L1597529-14	MW-78
L1597529-15	MW-75
L1597529-16	MW-83
L1597529-17	MW-3
L1597529-18	MW-88
L1597529-19	MW-22A
L1597529-20	MW-22B
L1597529-21	MW-10
L1597529-22	MW-123
L1597529-23	MW-4A
L1597529-24	DUP-EP-02[1]
L1597529-25	DUP-EP-03[2]
L1597529-27	KWB-P4
L1597529-28	OCD-1R
L1597529-29	OCD-2A
L1597529-30	OCD-3
L1597529-31	OCD-4
L1597529-32	MW-11A
L1597529-33	MW-11B
L1597529-34	OCD-5
L1597529-35	MW-52
L1597529-36	MW-109
L1597529-37	MW-110
L1597529-38	TRIP BLANK-EP-03
L1597529-43	MW-144
L1597529-44	MW-113

Lab ID	Sample ID
L1597529-45	RW-13R
L1597529-46	MW-134
L1597529-47	RA-4196
L1597529-48	RA-313
L1597529-49	KWB-7
L1597529-50	MW-20
L1597529-51	NP-1
L1597529-52	NP-6
L1597529-53	MW-8
L1597529-54	MW-21
L1597529-55	MW-71
L1597529-56	KWB-11B
L1597529-57	MW-115
L1597529-58	MW-114
L1597529-59	MW-125
L1597529-60	DUP-REST-01[3]
L1597529-61	EB-REST-01
L1597529-62	DUP-REST-03[4]
L1597529-63	EB-REST-03
L1597529-64	TRIP BLANK-REST-01
L1597529-65	TRIP BLANK-TMD-01
L1597529-66	MW-102
L1597529-67	MW-116
L1597529-68	MW-46R
L1597529-69	DUP-REST-02[5]
L1597529-70	EB-REST-02
L1597529-71	TRIP BLANK-REST-03
L1597529-72	TEL-4
L1597529-73	MW-98
L1597529-74	RW-9
L1597529-75	MW-29
L1597529-76	RW-#16B
L1597529-77	MW-56
L1597529-78	MW-45
L1597529-79	DUP-TEL-01[6]
L1597529-80	EB-TEL-01
L1597529-82	TRIP BLANK-TEL-01
L1597529-83	MW-139
L1597529-84	MW-50
L1597529-85	MW-90
L1597529-86	RW-#17A
L1597529-87	MW-54A

Lab ID	Sample ID
L1597529-88	MW-54B
L1597529-89	NCL-49
L1597529-90	DUP-NCL-01[7]
L1597529-91	EB-NCL-01
L1597529-92	TRIP BLANK-NCL-01

[1]Field duplicate of MW-22A
[2]Field duplicate of MW-3
[3]Field duplicate of MW-113
[4]Field duplicate of MW-134
[5]Field duplicate of MW-102
[6]Field duplicate of TEL-4
[7]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

The Condition (i.e., nonconformance [NCF] / OK) and sample pHs, as applicable, were not recorded on the COCs. However, since all answers to the Sample Receipt Checklist were marked "Y" on the COCs, indicating acceptable preservation and condition, the laboratory was not contacted about this issue.

RLs for dissolved solids in all samples except six of the seven equipment blanks (EB-EP-01, EB-EP-04, EB-REST-01, EB-REST-03, EB-REST-02, and EB-NCL-01) 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 TPH (GC/FID) low fraction analyses of sample DUP-EP-02, DUP-EP-03, DUP-TEL-01, MW-3, MW-4A, MW-10, MW-22A, MW-22B, MW-73, MW-75, MW-76, MW-77, MW-78, MW-83, MW-84, MW-115, OCD-5, and TEL-4 were diluted 20- to 25-fold, and the VOC analyses of samples KWB-7, MW-77, MW-78, MW-84, OCD-5, and TEL-4 were diluted 10- to 50-fold due to sample foaming. TPH (GC/FID) low fraction was detected in all affected samples except MW-78, MW-115, and OCD-5 and were therefore not adversely impacted by the elevated RLs. However, the nondetect RLs for TPH (GC/FID) low fraction in samples MW-78, MW-115, and OCD-5 and select VOCs, respectively, in the listed samples were elevated accordingly.

The laboratory noted that the TPH (GC/FID) high fraction analyses of samples MW-77 and MW-78 were diluted 20-fold due to matrix interference. There is no impact on data usability since TPH (GC/FID) high fraction was detected in these samples.

The laboratory noted that the nitrate, nitrite, chloride, fluoride, and sulfate analyses of samples DUP-EP-02, DUP-EP-03, DUP-REST-01, DUP-REST-02, DUP-REST-03, DUP-NCL-01, KWB-11B, MW-3, MW-4A, MW-8, MW-10, MW-11A, MW-11B, MW-20, MW-21, MW-22A, MW-22B, MW-29, MW-46R, MW-50, MW-54B, MW-71, MW-73, MW-74, MW-75, MW-76, MW-77, MW-78, MW-79, MW-80, MW-82, MW-83, MW-88, MW-90, MW-98, MW-102, MW-109, MW-114, MW-115, MW-116, MW-123, MW-125, MW-134, MW-139, MW-144, NCL-49, NP-1, OCD-1R, OCD-2A, OCD-3, OCD-4, OCD-5, RA-313, RA-4196, RW-#16B, RW-#17A, and TEL-4, and the sulfate analysis of sample MW-110 were diluted due to matrix. There is no impact on data usability for these analytes since these analytes were detected above the MDLs and/or RL in these samples with the exception of nitrate and/or nitrate in several samples listed above. The nondetect RLs for fluoride in samples KWB-11B, MW-54B, and RW-#16B, and nitrate and/or nitrite in several of these samples were elevated accordingly. As noted below under Holding Times, select nitrate and nitrite results were rejected due to a significant holding time exceedance.

- It should be noted that sample EB-REST-01 was also marked as being diluted for nitrate, nitrite, chloride, fluoride, and sulfate due to matrix; however, this sample was not diluted for those analytes. The laboratory was not contacted to remove this statement.

The laboratory noted that the total metals and dissolved lead analyses of sample MW-11A were diluted 10-fold and 5-fold, respectively due to matrix. Therefore, the nondetect RLs for select total metals and dissolved lead in this sample were elevated accordingly.

The laboratory noted that the total sodium and dissolved lead analyses of sample DUP-EP-02 were diluted 10-fold and 5-fold, respectively due to matrix. Total sodium was detected in this sample and was therefore not adversely impacted by the elevated RL. However, the nondetect RL for dissolved lead in this sample was elevated accordingly.

The laboratory noted that the total metals analyses of samples MW-11B and OCD-5 were diluted 10-fold due to matrix. Therefore, the nondetect RLs for select total metals in these samples were elevated accordingly.

The laboratory noted that the cyanide and sulfate analyses of sample MW-52 were diluted 5-fold and 10-fold, respectively, due to matrix. Sulfate was detected in this sample and was therefore not adversely impacted by the elevated RL. However, the nondetect RL for cyanide in this sample was elevated accordingly.

The laboratory noted that the cyanide analyses of samples MW-71 and KWB-7 were diluted 5-fold due to matrix. Therefore, the nondetect RLs for cyanide in these samples were elevated accordingly.

Several other samples were analyzed at dilutions for nitrate, nitrite, chloride, fluoride, sulfate, total sodium, dissolved barium, methyl tert-butyl ether, VOCs, TPH (GC/FID) high fraction, and/or TPH (GC/FID) low 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 chloride, fluoride, sulfate, total sodium, dissolved barium, TPH (GC/FID) high fraction, and/or TPH (GC/FID) low fraction since these analytes were detected above the MDLs and/or RLs in the diluted samples. The nondetect RLs for nitrite in samples DUP-TEL-01, MW-81, and MW-84, nitrate in sample DUP-TEL-01, several VOCs in samples DUP-REST-02, DUP-TEL-01, MW-90, MW-98, MW-102, MW-109, RW-9, and RW-13R were elevated accordingly.

The results for total and dissolved barium and total and dissolved chromium in sample MW-3, total and dissolved manganese in samples OCD-2A, OCD-3, and OCD-4, total and dissolved arsenic and total and dissolved barium in samples MW-102 and DUP-REST-02, and total and dissolved uranium in sample MW-29 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.

The laboratory flagged the result for total uranium in sample MW-125 with an “O1” qualifier indicating that either a SD or PDS result was outside of the acceptance criteria. The laboratory was contacted during this review and specified that the SD performed on this sample was outside of the acceptance criteria (10%D) for total uranium (10.2%D). Thus, potential uncertainty exists for the total uranium result in sample MW-125; this uncertainty may extend to other positive results for total uranium in samples collected during the March 2023 sampling event.

The laboratory flagged the results for total manganese and total sodium in sample RW-#17A with an “O1” qualifier indicating that either a SD or PDS result was outside of the acceptance criteria. The laboratory was contacted during this review and specified that the recoveries for total sodium (6.65%) and total manganese (0%) in the PDS performed on this sample were outside of the acceptance criteria (75-125%). There is no impact on the data usability due to this issue since the concentrations of total manganese and total sodium in the unspiked sample were greater than four times the spiked concentrations (the laboratory confirmed during this review that the PDS spike concentrations were equal to the MS/MSD spike concentrations);

thus, the %Rs of total manganese and total sodium were not used to evaluate potential matrix effects.

Standard Conditions

The laboratory noted that the VOC analysis of sample RW-9 was 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 this sample was analyzed for VOCs after seven but less than 14 days of collection. Therefore, the positive and nondetect results for VOCs in sample RW-9 may be biased low.

Holding Times

Samples DUP-EP-02, DUP-REST-01, EB-EP-01, MW-110, MW-116, MW-11B, MW-125, MW-21, MW-3, MW-78, MW-84, MW-98, NP-1, OCD-1R, and RW-13R were analyzed for nitrate and nitrite after the 48-hour holding time but less than 96 hours after collection. Therefore, potential low bias exists for the nondetect results for nitrate and nitrite in these samples.

Samples DUP-EP-03, DUP-NCL-01, DUP-REST-02, DUP-TEL-01, EB-EP-04, EB-NCL-01, EB-REST-01, EB-REST-02, EB-REST-03, EB-TEL-01, KWB-7, MW-10, MW-102, MW-109, MW-113, MW-114, MW-115, MW-11A, MW-20, MW-22A, MW-22B, MW-29, MW-45, MW-4A, MW-50, MW-52, MW-54A, MW-56, MW-71, MW-75, MW-76, MW-77, MW-79, MW-8, MW-80, MW-82, MW-83, MW-90, NCL-49, OCD-3, OCD-4, OCD-5, RA-313, RA-4196, RW-#17A, RW-9, and TEL-4 were analyzed for nitrate and nitrite more than 96 hours after collection (i.e., a significant hold time exceedance; more then 2x the method holding time of 48-hours after collection). **Therefore, the nondetect results for nitrate and nitrite in samples DUP-REST-02, DUP-TEL-01, EB-NCL-01, MW-4A, MW-75, MW-76, MW-77, MW-109, MW-113, OCD-3, RW-#17A, and TEL-4 are not usable for project objectives due to the significant holding time exceedance.** Potential low bias exists for the remaining positive results for nitrate and/or nitrite in the samples listed above.

Laboratory Method Blanks

The following analytes were detected in the method blanks: chloride, fluoride, nitrate dissolved iron, total manganese, total calcium, total chromium, total potassium, TPH (GC/FID) low fraction, carbon disulfide, 1,4-dioxane, 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 and within 10 times the method blank concentration for organic analytes. Therefore, these samples may include measurement contributions from the laboratory.

- Chloride: EB-EP-04, EB-REST-01, EB-REST-03
- Fluoride: EB-EP-04, EB-REST-01, EB-REST-02, EB-REST-03, MW-10, MW-22B, MW-29, MW-45, MW-71, MW-80, MW-90, MW-102, DUP-NCL-01, OCD-4, OCD-5

- Nitrate: EB-EP-04, EB-REST-01, EB-REST-03, KWB-7, MW-10, MW-11B, MW-22B, MW-29, MW-45, MW-79, MW-80, MW-84, MW-88, MW-90, MW-102, MW-139, RW-9, OCD-4, OCD-5
- Dissolved iron: MW-3, MW-10, MW-50, MW-75, MW-78, MW-79, MW-82, MW-88, RW-#16B, DUP-TEL-01
- Total chromium: MW-45
- Total potassium: MW-54A, MW-139, NCL-49, DUP-NCL-01
- TPH (GC/FID) low fraction: MW-3, MW-4A, MW-10, MW-22A, MW-22B, MW-73, MW-75, MW-76, MW-77, MW-79, MW-80, MW-81, MW-82, MW-83, MW-84, MW-88, MW-130, EB-EP-01, EB-EP-04, OCD-1R, OCD-2A, DUP-EP-02, DUP-EP-03
- Carbon disulfide: DUP-REST-01, DUP-REST-02, DUP-REST-03, EB-REST-01, EB-REST-02, EB-REST-03, TRIP BLANK-EP-03, TRIP BLANK-REST-01, TRIP BLANK-REST-03, TRIP BLANK-TMD-01, KWB-7, KWB-11B, MW-8, MW-11A, MW-11B, MW-20, MW-21, MW-46R, MW-52, MW-71, MW-98, MW-102, MW-110, MW-113, MW-114, MW-115, MW-116, MW-125, MW-134, NP-1, NP-6, OCD-2A, OCD-3, OCD-4, OCD-5, RA-313, RA-4196, RW-13R, TEL-4
- TPH (GC/FID) high fraction: DUP-REST-03, EB-REST-01, EB-REST-03, KWB-11B, MW-8, MW-20, MW-21, MW-71, MW-114, MW-125, MW-134
- 1,4-Dioxane: RA-313

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 for inorganic analytes and within 10 times the maximum equipment blank concentration for organic analytes, where applicable. 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-04	Total calcium	None
	Chloride**	
	Fluoride**	
	Nitrate**	
	Nitrite	MW-80
	Sulfate	None
EB-EP-01, EB-EP-04	Chloroform	
	TPH (GC/FID) high fraction	MW-11A, MW-11B, MW-79, MW-80, MW-88, OCD-1R, OCD-2A, OCD-3, OCD-4

Blank ID(s)	Analyte	Impacted Sample Results*
	TPH (GC/FID) low fraction	None
Associated samples (EP Area of the site from this report): DUP-EP-02, DUP-EP-03, MW-10, MW-11A, MW-11B, MW-123, MW-22A, MW-22B, MW-3, MW-4A, MW-73, MW-74, MW-75, MW-76, MW-77, MW-78, MW-79, MW-80, MW-81, MW-82, MW-83, MW-84, MW-88, OCD-1R, OCD-2A, OCD-3, OCD-4, OCD-5		
EB-TEL-01	Total barium	None
	Dissolved barium	
	Total Calcium	
	Chloride	
	Dissolved Solids	
	Nitrate	
	Total selenium	
	TPH (GC/FID) high fraction	
Associated samples (TEL Area of the site from this report): TEL-4, DUP-TEL-01		
EB-NCL-01	Total barium	None
	Total calcium	
	Total sodium	
Associated samples (NCL Area of the site from this report): DUP-NCL-01, MW-45, MW-54A, MW-54B, MW-56, NCL-49		
EB-REST-02	Total arsenic	DUP-REST-01, KWB-11B, KWB-7, MW-46R, MW-98, MW-113, MW-114, RW-13R
	Dissolved arsenic	DUP-REST-01, KWB-11B, KWB-7, MW-98, MW-113, MW-114, MW-116, RW-13R
EB-REST-02	Carbon tetrachloride	None
	Chloride	MW-52, MW-110, MW-130, RW-13R, DUP-REST-01, DUP-REST-02, DUP-REST-03, KWB-11B, KWB-7, MW-8, MW-20, MW-21, MW-29, MW-46R, MW-50, MW-71, MW-90, MW-98, MW-102, MW-109, MW-113, MW-114, MW-115, MW-116, MW-125, MW-134, MW-139, MW-144, NP-1, RA-313, RA-, 4196, RW-9, RW-16B, RW-17A
	Nitrate	DUP-REST-03, KWB-7***, KWB-11B, MW-8, MW-20, MW-21, MW-29***, MW-71, MW-90***, MW-102***, MW-114, MW-115, MW-130, MW-134, MW-139***, MW-144, RA-313, RA-4196, RW-9***
	Nitrite	MW-29, RW-9
	Dissolved solids	DUP-REST-01, DUP-REST-02, DUP-REST-03, KWB-11B, KWB-7, MW-8, MW-20, MW-21, MW-29, MW-46R, MW-50, MW-52, MW-71, MW-90, MW-98, MW-102, MW-109, MW-110, MW-113, MW-114, MW-115, MW-116, MW-125, MW-130, MW-134, MW-139, MW-144, NP-1, RA-313, RA-4196, RW-9, RW-13R, RW-16B, RW-17A

Blank ID(s)	Analyte	Impacted Sample Results*
	Total manganese	MW-20, MW-71, KWB-11B
	Dissolved manganese	KWB-11B, MW-46R
	Total potassium	DUP-REST-01, DUP-REST-02, DUP-REST-03, KWB-11B, KWB-7, MW-8, MW-20, MW-21, MW-29, MW-46R, MW-50, MW-52, MW-71, MW-90, MW-98, MW-102, MW-109, MW-113, MW-114, MW-115, MW-116, MW-125, MW-130, MW-134, MW-139***, MW-144, NP-1, RA-313, RA-4196, RW-9, RW-13R, RW-16B, RW-17A
	Total selenium	MW-90, MW-109, MW-125
	Dissolved selenium	DUP-REST-01, DUP-REST-02, MW-29, MW-90, MW-98, MW-102, MW-114, MW-125, RW-9
	TPH (GC/FID) low fraction	MW-8, MW-21, MW-29, MW-90, MW-98, MW-102, MW-109, MW-130***, MW-139
EB-REST-01, EB-REST-02, EB-REST-03	Total barium	DUP-REST-03, KWB-11B, MW-8, MW-20, MW-21, MW-29, MW-46R, MW-50, MW-52, MW-71, MW-90, MW-98, MW-114, MW-115, MW-116, MW-125, MW-130, MW-134, MW-139, MW-144, RW-9, RW-16B, RW-17A
	Total calcium	MW-109
	Carbon disulfide**	None
	Fluoride**	
	Sulfate	MW-110, RW-13R, DUP-REST-01, DUP-REST-02, DUP-REST-0, KWB-11B, KWB-7, MW-8, MW-20, MW-21, MW-46R, MW-50, MW-52, MW-98, MW-71, MW-102, MW-109, MW-113, MW-116, MW-125, MW-134, MW-144, RA-313, RA-4196, RW-16B, RW-9, RW-17A
EB-REST-02, EB-REST-03	Dissolved barium	DUP-REST-03, KWB-11B, MW-8, MW-20, MW-21, MW-29, MW-46R, MW-50, MW-52, MW-71 MW-90, MW-98, MW-114, MW-115, MW-116, MW-125, MW-130, MW-134, MW-139, MW-144, RW-16B, RW-17A, RW-9
EB-REST-01, EB-REST-03	Chloride**	None
	Nitrate**	
	TPH (GC/FID) high fraction**	
	Chloroform	MW-90, MW-113
EB-REST-01, EB-REST-02	Total sodium	DUP-REST-01, KWB-11B, MW-46R, MW-90, MW-98, MW-113, MW-114, MW-116, RA-313, RA-4196, RW-13R
Associated samples (the remaining Areas of the site from this report. i.e., REST and TMD): **TMD:** MW-20, MW-21, MW-46R, MW-71, MW-8, NP-1, NP-6		

Blank ID(s)	Analyte	Impacted Sample Results*
REST: DUP-REST-01, DUP-REST-02, DUP-REST-03, KWB-11B, KWB-7, KWB-P4, MW-29, MW-50, MW-52, MW-90, MW-98, MW-102, MW-109, MW-110, MW-113, MW-114, MW-115, MW-116, MW-125, MW-130, MW-134, MW-139, MW-144, RA-313, RA-4196, RW-13R, RW-16B, RW-17A, RW-9		
*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.

***Note that these asterisked results in the samples noted in the table above were also less than 10 times the concentration detected in the associated method blank.

Trip Blanks

Carbon disulfide was detected in four of the trip blank samples, TRIP BLANK-EP-03, TRIP BLANK-REST-01, TRIP BLANK-REST-03, and TRIP BLANK-TMD-01. Note that the results for carbon disulfide in all four of these trip blank samples were less than 10 times the concentration detected in the associated method blank; therefore, these results were probably the result of laboratory method blank contamination and did not affect any associated field samples.

Benzene was detected in one of the trip blank samples, TRIP BLANK-REST-01. Potential high bias exists for the positive results for benzene in samples MW-75, MW-90, MW-110, RW-9, DUP-TEL-01, and TEL-4 since the sample results were less than 10 times the concentration detected in the associated trip blank.

LCS/LCSD

The LCS/LCSD RPD for 2-butanone (MEK) (23%) was outside of the laboratory-defined limit (20%) in QC batch WG2030834. However, since 2-butanone (MEK) was not detected in the associated samples, EB-EP-01, EB-EP-04, DUP-EP-02, DUP-EP-03, KWB-P4, MW-4A, MW-10, MW-22B, MW-73, MW-74, MW-77, MW-78, MW-79, MW-80, MW-81, MW-82, MW-84, MW-123, MW-130, and OCD-1R, there is no impact on data usability.

The LCS %Rs for 2-hexanone (63.6%) and 4-methyl-2-pentanone (MIBK) (62.8%) were below the laboratory-defined recovery limits (67-149% and 68-142%, respectively) in QC batch WG2033060. Therefore, potential low bias exists for the nondetect results for 2-hexanone and 4-methyl-2-pentanone (MIBK) in the associated samples, MW-90 and RW-9.

MS/MSD

MS and/or MS/MSD analyses were performed on the following samples:

- MW-110, EB-EP-01, EB-EP-04, EB-REST-02, EB-TEL-01, EB-NCL-01: Chloride, fluoride, sulfate, nitrate, nitrite
- MW-116: Total mercury
- KWB-11B, MW-115: Total boron
- MW-115: Dissolved boron
- MW-8, MW-81, MW-123: Dissolved metals
- EB-EP-04, MW-11A, MW-125, RW-#17A: Total metals

The %R of sulfate in the MS performed on sample MW-110 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 concentrations; thus, the %R of sulfate was not used to evaluate potential matrix effects.

The %Rs of dissolved manganese in the MS/MSD performed on sample MW-123 were above 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 and total sodium in the MS and MSD performed on sample MW-11A 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 and total sodium were not used to evaluate potential matrix effects.

The %Rs of total calcium in the MS and MSD performed on sample MW-125 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 %Rs of total calcium were not used to evaluate potential matrix effects.

The %Rs of total calcium, total manganese, and total sodium in the MS and MSD performed on sample RW-#17A 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.

Surrogate Recoveries

The surrogate (o-terphenyl) recovered below the laboratory-defined control limits (31.0-160%) in the TPH (GC/FID) high fraction analyses of samples MW-77 (0%), MW-78 (0%), and MW-84

(0%). There was no impact on the data usability due to this issue since the samples were diluted ≥10-fold; therefore, the surrogate recoveries were not applicable.

The surrogate (toluene-d8) recovered above the laboratory-defined control limits (80-120%) in the VOC analyses of samples MW-3 (128%) and MW-88 (121%). Therefore, the positive result for tert-butyl alcohol in sample MW-3 and the positive result for carbon disulfide in sample MW-88 may be biased high.

The surrogate (nitrobenzene-d5) recovered below the laboratory-defined control limits (10-120%) in the 1,4-dioxane analysis of sample MW-22A (9.5%). The laboratory noted that the surrogate failure was due to matrix interference during the extraction procedure. Therefore, the positive result for 1,4-dioxane in sample MW-22A may be biased low.

The surrogate (1,2-dichloroethane-d4) recovered above the laboratory-defined control limits (70-130%) in the VOC analyses of samples MW-20 (133%), NP-1 undiluted (131%), and OCD-5 (131%). Therefore, the positive results for carbon disulfide in samples MW-20, NP-1, and OCD-5, and 1,2-dichloroethane in sample NP-1 may be biased high.

Laboratory Duplicates

Laboratory duplicate analyses were performed on the following samples:

- KWB-7, MW-4A, MW-81, MW-83, MW-84, MW-123, NCL-49, NP-1: Dissolved solids
- MW-45: Cyanide
- MW-110, EB-EP-01, EB-EP-04, EB-REST-02, EB-TEL-01, EB-NCL-01: Chloride, fluoride, sulfate, nitrite, and nitrate

The RPDs for dissolved solids in the duplicate analyses performed on samples KWB-7 (11.2%), MW-4A (8.65%), MW-81 (9.95%), MW-84 (5.99%), MW-123 (8.57%), and NCL-49 (17.1%) exceeded the laboratory-defined control limit (5%). However, there was no impact on the data usability since the RPDs were within the acceptance criteria used in this evaluation (20%).

The RPDs for chloride, fluoride, sulfate, nitrite, and nitrate in the duplicate analysis performed on sample EB-EP-04, chloride in the duplicate analysis performed on sample EB-TEL-01, and fluoride and sulfate in the duplicate analysis performed on sample EB-NCL-01 exceeded the laboratory-defined control limits (15%). However, the results in the parent and duplicate samples were less than 5x the RL so the laboratory duplicate RPDs were not applicable.

Field Duplicates

Samples MW-22A/DUP-EP-02, MW-3/DUP-EP-03, MW-113/DUP-REST-01, MW-134/DUP-REST-03, MW-102/DUP-REST-02, TEL-4/DUP-TEL-01, and NCL-49/DUP-NCL-01 were submitted as the field duplicate pairs. All criteria were met except as noted below:

- The results for nitrate were <5x the RL in both samples in the field duplicate pair MW-22A/DUP-EP-02 and the absolute difference was greater than the RL. Therefore, the

positive results for nitrate in samples MW-22A and DUP-EP-02 may be considered estimated.

- The result for dissolved barium was <5x the RL in the field duplicate sample and was > 5x the RL in the parent sample from the field duplicate pair MW-3/DUP-EP-03; further, the result for dissolved chromium was > 5x the RL in the parent sample and was nondetect in the field duplicate sample. The absolute differences were greater than the RLs. Therefore, the positive results for dissolved barium and the positive and nondetect results for dissolved chromium in samples MW-3 and DUP-EP-03 may be considered estimated.
- The RPDs for TPH (GC/FID) high fraction (64.3%) and total selenium (78%) were above the acceptance criteria (30%) in field duplicate pair TEL-4/DUP-TEL-01. Therefore, the positive results for TPH (GC/FID) high fraction and total selenium in samples TEL-4 and DUP-TEL-01 may be considered estimated.
- The RPDs for 1,2,4-trimethylbenzene (30.9%), total barium (91.5%), and benzene (43.7%) were above the acceptance criteria (30%) in field duplicate pair MW-113/DUP-REST-01. Therefore, the positive results for 1,2,4-trimethylbenzene, total barium, and benzene in samples MW-113 and DUP-REST-01 may be considered estimated.
- The RPD for total selenium (65.3%) was above the acceptance criteria (30%) in field duplicate pair MW-102/DUP-REST-02. Therefore, the positive results for total selenium in samples MW-102 and DUP-REST-02 may be considered estimated.
- It should be noted that select parent and field duplicate samples were not analyzed for the same analyte list. The field duplicate results could only be evaluated when the parent and duplicate samples were analyzed for the same exact analytes.

LAB REPORT L1598054

Sample identifiers cross-referenced to laboratory identifications are presented below.

Sample ID	Lab ID
L1598054-01	MW-140
L1598054-02	MW-141
L1598054-03	MW-142
L1598054-04	MW-143

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 LCSD %Rs out of laboratory defined limits?		X	
Any LCS/LCSD RPD above laboratory defined limits?		X	
Any MS or 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.

All samples were analyzed at dilutions for nitrate, nitrite, chloride, fluoride, and/or sulfate. The laboratory noted that the samples were diluted due to matrix (i.e., likely 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 for these analytes except as noted for nitrate and nitrite since these analytes were detected above the MDLs and/or RLs in the diluted samples. The nondetect RLs for nitrite in all samples in this data set, and nitrate in samples MW-142 and MW-143 were elevated accordingly.

Laboratory Method Blanks

The following analytes were detected in the method blanks: chloride, nitrate, total boron, and total iron. The analytes listed below were detected in the corresponding samples at concentrations within five times the blank concentration for inorganic analytes. Therefore, these samples may include measurement contributions from the laboratory.

- Total boron: MW-141
- Total iron: MW-141

Equipment Blanks

^Although an equipment blank was not submitted in this laboratory report, the "REST" equipment blanks submitted with laboratory report L1597529 were evaluated with the samples in this laboratory report (L1598054) since they were collected within one day of each other and were from a similar location at the site. The following table summarizes the analytes detected in the "REST" equipment blank samples from laboratory report L1597529 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 for inorganic analytes and within 10 times the maximum equipment blank concentration for organic analytes, where applicable. 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-REST-02	Total arsenic	MW-141
	Dissolved arsenic	None
	Carbon tetrachloride	Not applicable to this laboratory report
	Chloride	MW-140, MW-141, MW-142, MW-143
	Nitrate	MW-140, MW-141
	Nitrite	None
	Dissolved solids	MW-140, MW-141, MW-143
	Total manganese	MW-141
	Dissolved manganese	
	Total potassium	MW-141, MW-142, MW-143
	Total selenium	MW-143
	Dissolved selenium	
	TPH (GC/FID) low fraction	Not applicable to this laboratory report
EB-REST-01, EB-REST-02, EB-REST-03	Total barium	MW-140, MW-141, MW-142, MW-143
	Total calcium	None
	Carbon disulfide**	
	Fluoride**	
	Sulfate	MW-141, MW-142, MW-143
EB-REST-02, EB-REST-03	Dissolved barium	MW-140, MW-141, MW-142, MW-143
EB-REST-01, EB-REST-03	Chloride**	None
	Nitrate**	

Blank ID(s)	Analyte	Impacted Sample Results*
	TPH (GC/FID) high fraction**	
	Chloroform	Not applicable to this laboratory report
EB-REST-01, EB-REST-02	Total sodium	MW-141, MW-142
*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.

MS/MSDs

MS/MSD analyses were performed on sample MW-140 for dissolved and total boron. All criteria were met.

LAB REPORT L1662588 (REVISED 1/16/24)

Sample identifiers cross-referenced to laboratory identifications are presented below.

Lab ID	Sample ID
L1662588-01	MW-120
L1662588-02	MW-121
L1662588-03	MW-84
L1662588-04	MW-122
L1662588-05	MW-79
L1662588-06	MW-74
L1662588-07	MW-2A
L1662588-08	OCD-6
L1662588-09	OCD-7AR
L1662588-10	EB-EP-01
L1662588-11	EB-EP-04
L1662588-12	TRIP BLANK-EP-01
L1662588-13	MW-76
L1662588-14	MW-75
L1662588-15	MW-83
L1662588-16	MW-3
L1662588-17	MW-4A
L1662588-18	MW-5A
L1662588-19	DUP-EP-03[1]
L1662588-20	EB-EP-03
L1662588-21	OCD-1R
L1662588-22	OCD-2A
L1662588-23	OCD-3
L1662588-24	OCD-4
L1662588-25	MW-11A
L1662588-26	OCD-5
L1662588-27	TRIP BLANK-EP-03
L1662588-28	MW-134
L1662588-29	KWB-7
L1662588-30	NP-1
L1662588-31	MW-21
L1662588-32	KWB-11A
L1662588-33	KWB-11B
L1662588-34	DUP-REST-03[2]
L1662588-35	EB-REST-03
L1662588-36	TRIP BLANK-REST-01
L1662588-37	TRIP BLANK-TMD-01
L1662588-38	MW-136
L1662588-39	MW-126B

Lab ID	Sample ID
L1662588-40	KWB-1A
L1662588-41	KWB-12A
L1662588-42	KWB-12B
L1662588-43	DUP-REST-05[3]
L1662588-44	EB-REST-05
L1662588-45	TRIP BLANK-REST-02
L1662588-46	MW-144
L1662588-47	MW-145
L1662588-48	MW-146
L1662588-49	MW-135
L1662588-50	MW-147
L1662588-51	MW-148
L1662588-52	DUP-REST-04[4]
L1662588-53	EB-REST-04
L1662588-54	MW-101
L1662588-55	MW-105
L1662588-56	MW-61
L1662588-58	MW-98
L1662588-59	TRIP BLANK-REST-04
L1662588-60	MW-50
L1662588-61	MW-90
L1662588-62	MW-96
L1662588-63	NCL-33
L1662588-64	NCL-44

[1]Field duplicate of MW-3
[2]Field duplicate of MW-134
[3]Field duplicate of KWB-12B
[4]Field duplicate of MW-146

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		

Items	Yes	No	Not applicable
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

Sample MW-62R was inadvertently listed on the bottle order and therefore, inadvertently sampled and listed on the COC. Sample MW-62R was analyzed by the laboratory; the report was revised on 1/16/24 to remove reported data for this sample.

RLs for dissolved solids in all samples in this data set except MW-105 and all of the equipment blanks (EB-EP-01, EB-EP-04, EB-EP-03, EB-REST-03, EB-REST-05, and EB-REST-04) were 2 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 TPH (GC/FID) low fraction analyses of samples MW-4A and OCD-7AR were diluted 10-fold and 20-fold, respectively, due to foaming. There is no impact on data usability since TPH (GC/FID) low fraction was detected in these samples.

The laboratory noted that the nitrate, nitrite, chloride, fluoride, and sulfate analyses of samples DUP-EP-03, DUP-REST-03, DUP-REST-05, KWB-1A, KWB-7, KWB-11A, KWB-11B, KWB-12A, KWB-12B, MW-2A, MW-3, MW-4A, MW-5A, MW-11A, MW-21, MW-61, MW-74, MW-75, MW-76, MW-79, MW-83, MW-84, MW-90, MW-96, MW-98, MW-120, MW-121, MW-122, MW-126B, MW-134, MW-135, MW-136, MW-144, NCL-33, NCL-44, OCD-1R, OCD-5, OCD-6, and OCD-7AR, and the chloride, fluoride and sulfate analyses of samples DUP-REST-04, MW-145, and MW-146 were diluted due to matrix. There is no impact on data usability for these analytes since these analytes were detected above the MDLs and/or RL in these samples with the exception of fluoride, nitrate and/or nitrate in several samples listed above. The nondetect RLs for fluoride, nitrate, and/or nitrite in several of these samples were elevated accordingly.

Several other samples were analyzed at dilutions for total sodium, cyanide, chloride, fluoride, sulfate, nitrate, nitrite, VOCs, TPH (GC/FID) high fraction, and/or TPH (GC/FID) low 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 total sodium, chloride, fluoride, sulfate, nitrate, nitrite, TPH (GC/FID) high fraction, and/or TPH (GC/FID) low fraction since these analytes were detected above the MDLs and/or RLs in the diluted samples. The nondetect RLs for cyanide in samples DUP-REST-05, KWB-7, KWB-12A, KWB-12B, and MW-136, all VOCs except methyl tert-butyl ether in samples

MW-21 and NP-1, and select VOCs in samples MW-61, MW-96, MW-98, and MW-105 were elevated accordingly.

Standard Conditions

The laboratory noted that the TPH (GC/FID) high fraction analyses of samples MW-74, MW-84, and MW-96 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-74, MW-84, and MW-96 may be biased low.

Holding Times

Samples MW-2A, MW-5A, MW-74, and EB-EP-03 were prepared two days outside of the 7-day holding time for dissolved solids; therefore, the positive results for dissolved solids in samples MW-2A, MW-5A, MW-74, and the nondetect result for dissolved solids in sample EB-EP-03 may be biased low.

Samples EB-EP-01, EB-EP-04, EB-REST-03, KWB-1A, MW-126B, MW-134, MW-74, MW-79, MW-84, and MW-98 were analyzed for nitrate and nitrite between approximately 15 minutes and four hours after the 48-hour holding time. Therefore, potential low bias exists for the positive and nondetect results for nitrate and nitrite in these samples.

Laboratory Method Blanks

The following analytes were detected in the method blanks: TPH (GC/FID) high fraction, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, fluoranthene, indeno(1,2,3-cd)pyrene, and pyrene. The analytes listed below were detected in the corresponding samples at concentrations within 10 times the method blank concentration for organic analytes. Therefore, these samples may include measurement contributions from the laboratory.

- TPH (GC/FID) high fraction: MW-2A, EB-EP-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
	Sulfate	
	Dissolved solids	
	Manganese	
EB-EP-01, EB-EP-03	Total calcium	
	Chloride	
EB-EP-01, EB-EP-04	Nitrate	DUP-EP-03, MW-2A, MW-11A, MW-75, MW-76, MW-79, MW-83, MW-84, MW-120, MW-121, MW-122, OCD-5
	TPH (GC/FID) high fraction**	None
EB-EP-01, EB-EP-03, EB-EP-04	Total sodium	
Associated samples (EP Area of the site from this report): DUP-EP-03, MW-2A, MW-3, MW-4A, MW-5A, MW-11A, MW-74, MW-75, MW-76, MW-79, MW-83, MW-84, MW-120, MW-121, MW-122, OCD-1R, OCD-2A, OCD-3, OCD-4, OCD-5, OCD-6, OCD-7AR		
EB-REST-04, EB-REST-05	Total barium	DUP-REST-03, DUP-REST-04, DUP-REST-05, KWB-1A KWB-11A, KWB-11B, KWB-12A, KWB-12B, MW-3, MW-4A, MW-5A, MW-21, MW-50, MW-90, MW-98, MW-126B, MW-134, MW-135, MW-136, MW-144, MW-145, MW-146, MW-147, MW-148, NCL-33, NCL-44
	Chloride	MW-105, DUP-REST-03, DUP-REST-04, DUP-REST-05, KWB-1A, KWB-7, KWB-11A, KWB-11B, KWB-12A, KWB-12B, MW-50, MW-61, MW-90, MW-96, MW-98, MW-126B, MW-134, MW-136, MW-145, MW-146, MW-147, MW-148, NCL-44
EB-REST-03, EB-REST-05	Total calcium	None
	Total sodium	MW-105
	Nitrate	MW-101, MW-105, DUP-REST-03, KWB-7, KWB-11A, KWB-11B, KWB-12B, MW-21, MW-50, MW-90, MW-96, MW-126B, MW-134, NCL-33
EB-REST-04	Carbon tetrachloride	None
EB-REST-03	Chloroform	
EB-REST-05	Dissolved Solids	
	Fluoride	DUP-REST-03, DUP-REST-04, KWB-7, KWB-12B, MW-21, MW-50, MW-61, MW-90, MW-96, MW-98, MW-105, MW-126B, MW-134, MW-135, MW-136, MW-144, MW-145, MW-146, MW-147, MW-148, NCL-33, NCL-44
	Total potassium	DUP-REST-03, DUP-REST-05, KWB-1A, KWB-7, KWB-11A, KWB-11B, KWB-12A, KWB-12B, MW-21, MW-50, MW-61, MW-90, MW-96, MW-98, MW-101, MW-105,

Blank ID(s)	Analyte	Impacted Sample Results*
		MW-126B, MW-134, MW-135, MW-136, MW-144, MW-145, MW-146, MW-147, NCL-33, NCL-44
	tert-Butyl alcohol	KWB-7, KWB-11B, MW-101
	TPH (GC/FID) high fraction	KWB-1A, KWB-7, MW-50, MW-61, MW-90, MW-96, MW-98, MW-101, MW-105, MW-126B, MW-145, MW-146, MW-148, NCL-33, NCL-44
EB-REST-03, EB-REST-04, EB-REST-05	Sulfate	None
Associated samples (the remaining Areas of the site from this report. i.e., REST, NCL, and TMD): **NCL:** NCL-33, NCL-44 **TMD:** NP-1, MW-21 **REST:** DUP-REST-03, DUP-REST-04, DUP-REST-05, KWB-1A, KWB-7, KWB-11A, KWB-11B, KWB-12A, KWB-12B, MW-50, MW-61, MW-90, MW-96, MW-98, MW-101, MW-105, MW-126B, MW-134, MW-135, MW-136, MW-144, MW-145, MW-146, MW-147, MW-148		
*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; 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.

LCS/LCSD

The LCS %R for trichloroethene (126%) was above the laboratory-defined recovery limits (78-124%) in QC batch WG2145862. However, since trichloroethene was not detected in the associated samples, TRIP BLANK-EP-01, TRIP BLANK-EP-03, KWB-7, MW-21, MW-120, MW-134, NP-1, there is no impact on data usability.

The LCS %R for methylene chloride (66.8%), and LCS/LCSD %Rs for naphthalene (VOC) (42.6% and 45.8%) were below the laboratory-defined control limits (67-120% and 54-135%, respectively) in QC batch WG2146814. Therefore, the nondetect results for methylene chloride and naphthalene (VOC) in the associated samples, MW-135, MW-145, MW-146, MW-147, MW-148, TRIP BLANK-REST-02, DUP-REST-04, and EB-REST-04, are potentially biased low.

The LCS %R for cis-1,3-dichloropropene (78.2%) was outside of the laboratory-defined control limits (80-123%) in QC batch WG2147138. Therefore, the nondetect results for cis-1,3-dichloropropene in the associated samples, MW-50, MW-90, MW-96, NCL-33, NCL-44, and TRIP BLANK-REST-04, are potentially biased low.

The LCS/LCSD %Rs for naphthalene (VOC) (42.8%/42.8%) were below the laboratory-defined control limits (54-135%) in QC batch WG2147981. Therefore, the positive and nondetect results

for naphthalene (VOC) in the associated samples, MW-61, MW-101, and MW-105, are potentially biased low.

The LCS %R for benzaldehyde (173%) was above the laboratory-defined recovery limits (10-160%) in QC batch WG2147626. However, since benzaldehyde was not detected in the associated sample, MW-61, there is no impact on data usability.

MS/MSD

MS and/or MS/MSD analyses were performed on the following samples:

- KWB-1A, EB-REST-05: Cyanide
- MW-101, EB-EP-03: Nitrate, nitrite, chloride, fluoride, sulfate
- MW-21, OCD-7AR: Total metals
- EB-REST-05: Total boron

The %Rs of chloride (58.3%) and sulfate (60.3%) in the MS performed on sample MW-101 were below the laboratory-defined recovery limits (80-120%); therefore, the positive results for chloride and sulfate in all groundwater samples from this lab report may be biased low.

The %Rs of total calcium, total manganese, and total sodium in the MS and/or MSD performed on samples MW-21 and OCD-7AR 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 %Rs of total calcium, total manganese, and total sodium were not used to evaluate potential matrix effects.

Surrogate Recoveries

The surrogate (o-terphenyl) recovered below the laboratory-defined control limits (31.0-160%) in the TPH (GC/FID) high fraction analyses of samples MW-84 (0%) and NCL-33 (0%). There was no impact on the data usability due to this issue since the samples were diluted ≥10-fold; therefore, the surrogate recoveries were not applicable.

The surrogate (2-fluorophenol) exhibited significantly low recovery (<10%) below the laboratory-defined control limits (10-120%) in the SVOC analysis of sample MW-61 (0.0%). **Therefore the nondetect results for acid compounds, 2,4,5-trichlorophenol, 2,4,6-trichlorophenol, 2,4-dichlorophenol, 2,4-dimethylphenol, 2,4-dinitrophenol, 2-chlorophenol, 2-methylphenol, 2-nitrophenol, 3&4-methyl phenol, 4,6-dinitro-2-methylphenol, 4-chloro-3-methylphenol, 4-nitrophenol, pentachlorophenol, and phenol, are not usable for project objectives in this sample.**

The surrogate (toluene-d8) recovered above the laboratory-defined control limits (80-120%) in the VOC analysis of sample NCL-44 (121%). Therefore, the positive result for isopropylbenzene in sample NCL-44 may be biased high.

Laboratory Duplicates

Laboratory duplicate analyses were performed on the following samples:

- KWB-7, MW-84, MW-101, MW-134, OCD-6: Dissolved solids
- KWB-11A: Cyanide
- MW-101, EB-EP-03: Nitrate, nitrite, chloride, fluoride, sulfate

The RPDs for dissolved solids in the duplicate analyses performed on samples KWB-7 (15.4%), MW-134 (18.8%), and OCD-6 (5.95%). However, there was no impact on the data usability since the RPDs were within the acceptance criteria used in this evaluation (20%).

The RPD for nitrate (200%) in the duplicate analysis performed on sample EB-EP-03 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 RPDs were not applicable.

Field Duplicates

Samples DUP-EP-03/MW-3, DUP-REST-03/MW-134, DUP-REST-04/MW-146, and DUP-REST-05/KWB-12B were submitted as the field duplicate pairs. All criteria were met except as noted below:

- It should be noted that select parent and field duplicate samples were not analyzed for the same analyte list. The field duplicate results could only be evaluated when the parent and duplicate samples were analyzed for the same exact analytes.
- The RPD for dissolved solids (39.3%) was above the acceptance criteria (30%) in field duplicate pair MW-146/DUP-REST-04. Therefore, the positive results for dissolved solids in samples MW-146 and DUP-REST-04 may be considered estimated.

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Sample identifiers cross-referenced to laboratory identifications are presented below.

Lab ID	Sample ID
L1663141-01	MW-130
L1663141-02	MW-88
L1663141-03	MW-22A
L1663141-04	MW-10
L1663141-05	MW-123
L1663141-06	MW-7A
L1663141-07	OCD-8A
L1663141-08	DUP-EP-01[1]
L1663141-09	DUP-EP-02[2]
L1663141-10	TRIP BLANK-EP-02
L1663141-11	MW-87
L1663141-12	MW-18A
L1663141-13	MW-70
L1663141-14	MW-124
L1663141-15	MW-52
L1663141-16	MW-109
L1663141-17	MW-110
L1663141-18	MW-140
L1663141-19	MW-141
L1663141-20	EB-EP-02
L1663141-21	MW-113
L1663141-22	RA-4196
L1663141-23	MW-115
L1663141-24	MW-114
L1663141-25	MW-125
L1663141-26	DUP-REST-01[3]
L1663141-27	EB-REST-01
L1663141-28	MW-117
L1663141-29	MW-118
L1663141-30	MW-119
L1663141-31	KWB-2R
L1663141-32	MW-149
L1663141-33	MW-150
L1663141-34	MW-142
L1663141-35	MW-143
L1663141-36	MW-104
L1663141-37	MW-64
L1663141-38	MW-65
L1663141-39	MW-102

Lab ID	Sample ID
L1663141-41	MW-46R
L1663141-42	DUP-REST-02[4]
L1663141-43	EB-REST-02
L1663141-44	TRIP BLANK-REST-03
L1663141-46	TEL-4
L1663141-47	MW-29
L1663141-48	MW-49
L1663141-49	MW-106
L1663141-50	MW-45
L1663141-51	DUP-TEL-01[5]
L1663141-52	EB-TEL-01
L1663141-53	TRIP BLANK-TEL-01
L1663141-54	MW-139
L1663141-55	NCL-32
L1663141-56	MW-108
L1663141-57	NCL-31
L1663141-58	MW-55
L1663141-59	MW-54A
L1663141-60	NCL-49
L1663141-61	DUP-NCL-01[6]
L1663141-62	EB-NCL-01
L1663141-63	TRIP BLANK-NCL-01

[1]Field duplicate of MW-7A
[2]Field duplicate of MW-22A
[3]Field duplicate of MW-113
[4]Field duplicate of MW-102
[5]Field duplicate of TEL-4
[6]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		

Items	Yes	No	Not applicable
Any field duplicate data additionally flagged as estimated?	X		
Any analyte analyzed by a nonequivalent method than planned?		X	

Other

Sample RW-2 was inadvertently listed on the bottle order and therefore, inadvertently sampled and listed on the COC. Sample RW-2 was not reported by the laboratory.

The Condition (nonconformance [NCF] / OK) and sample pHs, as applicable, were not recorded on the COCs. However, since all answers to the Sample Receipt Checklist were marked "Y" on the COCs, indicating acceptable preservation and condition, the laboratory was not contacted about this issue.

The laboratory noted that several samples were not received with the original shipment of coolers (10/5/23) but that all samples were received one day after (10/6/23). The laboratory was instructed to analyze samples as received.

RLs for dissolved solids in all samples in this data set except all of the equipment blanks (EB-EP-02, EB-REST-01, EB-REST-02, EB-TEL-01, and EB-NCL-01) were 1.33 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 KWB-2R was diluted 5-fold due to sample foaming. Therefore, the nondetect RLs for VOCs in this sample were elevated accordingly.

The laboratory noted that the cyanide analysis of sample MW-49 was diluted 40-fold due to matrix interference. Therefore, the nondetect RL for cyanide in this sample was elevated accordingly.

The laboratory noted that the nitrate, nitrite, chloride, fluoride, and sulfate analyses of samples DUP-REST-01, DUP-REST-02, KWB-2R, MW-10, MW-18A, MW-22A, MW-29, MW-45, MW-46R, MW-54A, MW-102, MW-108, MW-109, MW-110, MW-113, MW-114, MW-115, MW-119, MW-140, MW-141, MW-142, MW-143, MW-149, MW-150, NCL-32, and RA-4196 were diluted due to matrix. There is no impact on data usability for these analytes since these analytes were detected above the MDLs and/or RL in these samples with the exception of nitrate and/or nitrate in several samples listed above. The nondetect RLs for fluoride, nitrate, and/or nitrite in several of these samples were elevated accordingly. As noted below under Holding Times, select nitrate and nitrite results were rejected due to a significant holding time exceedance.

Several other samples were analyzed at dilutions for nitrate, nitrite, chloride, fluoride, sulfate, total metals, VOCs, TPH (GC/FID) high fraction, and/or TPH (GC/FID) low 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 select total metals except as noted below, chloride, fluoride, sulfate, TPH (GC/FID) high fraction, and/or TPH (GC/FID) low fraction since these analytes were detected above the MDLs and/or RLs in the diluted samples. The nondetect RLs for select total metals in samples MW-18A, MW-87, MW-88, MW-124, and OCD-8A, nitrate and nitrite in samples DUP-EP-01, DUP-EP-02, MW-7A, MW-123, and OCD-8A, nitrite in sample MW-124, nitrate in sample MW-125, and select VOCs in samples MW-49, MW-55, MW-64, MW-65, MW-106, MW-109, MW-113, DUP-REST-01, and DUP-REST-02 were elevated accordingly.

Standard Conditions

The laboratory noted that the TPH (GC/FID) high fraction analyses of samples DUP-EP-01, DUP-EP-02, MW-29, MW-49, MW-102, and TEL-4 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 these samples may be biased low.

Holding Times

Samples MW-10, MW-123, MW-141, and DUP-EP-02 were prepared one day outside of the 7-day holding time for dissolved solids; therefore, the positive results for dissolved solids in samples MW-10, MW-123, MW-141, and DUP-EP-02 may be biased low.

Sample MW-88 was extracted 11 days outside of the 14-day holding time for TPH (GC/FID) high fraction; therefore, the positive result for TPH (GC/FID) high fraction in sample MW-88 may be biased low.

Samples DUP-EP-01, DUP-EP-02, DUP-TEL-01, MW-7A, MW-10, MW-22A, MW-29, MW-49, MW-106, MW-123, and TEL-4 were analyzed 4-7 days outside of the 48 hour holding time for nitrate and nitrite. The positive results for nitrate in samples DUP-TEL-01, MW-106, and TEL-4, and the positive result for nitrite in sample MW-106 may be biased low due to the holding time exceedance. **The nondetect results for nitrate in samples DUP-EP-01, DUP-EP-02, MW-7A, MW-10, MW-22A, MW-29, MW-49, and MW-123, and nitrite in samples DUP-EP-01, DUP-EP-02, DUP-TEL-01, MW-7A, MW-10, MW-22A, MW-29, MW-49, MW-123, and TEL-4 are not usable for project objectives due to the significant (i.e., >2x the holding time) holding time exceedance.**

Laboratory Method Blanks

The following analytes were detected in the method blanks: chloride, sulfate, total iron, total barium, TPH (GC/FID) low fraction, bromomethane, and 1,4-dioxane. 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.

- Chloride: EB-EP-02, EB-REST-02
- Total iron: DUP-REST-01, MW-18A, MW-52, MW-87, MW-109, MW-113, MW-115, MW-125, MW-130
- TPH (GC/FID) low fraction: EB-EP-02, MW-114, MW-117, MW-115
- Bromomethane: TRIP BLANK-EP-02, EB-REST-01
- 1,4-Dioxane: MW-106

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-02	Total calcium	None
	Chloride**	
	Nitrate	MW-18A, MW-124
	Sulfate	None
	TPH (GC/FID) low fraction**	
Associated samples (EP Area of the site from this report): DUP-EP-01, DUP-EP-02, MW-7A, MW-10, MW-18A, MW-22A, MW-70, MW-87, MW-88, MW-123, MW-124, OCD-8A		
EB-TEL-01	Total barium	None
	Total calcium	
	Chloroform	
	Total sodium	
	Nitrate	TEL-4, DUP-TEL-01
Associated samples (TEL Area of the site from this report): MW-49, TEL-4, DUP-TEL-01		
EB-NCL-01	Total calcium	None
	Chloroform	
	Fluoride	DUP-NCL-01, MW-45, MW-54A, MW-55, MW-108, NCL-31, NCL-32, NCL-49
	Nitrate	MW-108
Associated samples (NCL Area of the site from this report): DUP-NCL-01, MW-45, MW-54A, MW-55, MW-108, NCL-31, NCL-32, NCL-49		

Blank ID(s)	Analyte	Impacted Sample Results*
EB-REST-01, EB-REST-02	Total barium	None
	Total calcium	
	Chloroform	MW-109
	Nitrate	DUP-REST-01, DUP-REST-02, KWB-2R, MW-46R, MW-64, MW-102, MW-109, MW-110, MW-113, MW-115, MW-117, MW-139, MW-142, MW-143, MW-150, RA-4196
EB-REST-01	Bromomethane**	None
	Chloride	MW-108
EB-REST-02	Chloride**	None
	Fluoride	DUP-REST-02, KWB-2R, MW-18A, MW-29, MW-46R, MW-54A, MW-108, MW-109, MW-110, MW-114, MW-115, MW-117, MW-119, MW-125, MW-139, MW-140, MW-142, MW-143
	Nitrite	MW-65, MW-114, MW-117, MW-118, MW-119, MW-125, MW-130, MW-139
	Total sodium	None
	Sulfate	MW-65
Associated samples (the remaining Areas of the site from this report. i.e., REST and TMD): **TMD:** MW-46R **REST:** DUP-REST-01, DUP-REST-02, KWB-2R, MW-29, MW-52, MW-64, MW-65, MW-102, MW-104, MW-106, MW-109, MW-110, MW-113, MW-114, MW-115, MW-117, MW-118, MW-119, MW-125, MW-130, MW-139, MW-140, MW-141, MW-142, MW-143, MW-149, MW-150, RA-4196		
*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

Bromomethane was detected in one of the trip blank samples, TRIP BLANK-EP-02. There is no impact on the data usability due to this issue since bromomethane was detected in the associated method blank and therefore likely did not impact any field samples.

LCS/LCSD

The LCS %R for chloromethane (143%) was above the laboratory-defined control limits (41-142%) in QC batch WG2147194. However, since chloromethane was not detected in the associated samples, DUP-REST-02, EB-REST-02, KWB-2R, MW-46R, MW-64, MW-65, MW-102,

MW-104, MW-118, MW-119, MW-149, MW-150, and TRIP BLANK-REST-03, there is no impact on data usability.

The LCS/LCSD %Rs for cis-1,3-dichloropropene (73.8%/75.4%) were below the laboratory-defined control limits (80-123%) in QC batch WG2147386. Therefore the nondetect results for cis-1,3-dichloropropene in the associated samples, DUP-NCL-01, EB-NCL-01, EB-TEL-01, MW-45, MW-54A, MW-55, MW-108, MW-139, NCL-31, NCL-32, NCL-49, and TRIP BLANK-NCL-01, are potentially biased low.

The LCSD %R for cis-1,3-dichloropropene (77.6%) was below the laboratory-defined control limits (80-123%) in QC batch WG2147457. Therefore the nondetect results for cis-1,3-dichloropropene in the associated samples, DUP-EP-01, DUP-TEL-01, MW-7A, MW-29, MW-49, MW-106, TEL-4, and TRIP BLANK-TEL-01, are potentially biased low.

The LCS %R for naphthalene (VOC) (52.2%) was below the laboratory-defined control limits (54-135%) in QC batch WG2149272. Therefore, the positive results for naphthalene (VOC) in the associated samples, MW-113 and DUP-REST-01, are potentially biased low.

MS/MSD

MS and/or MS/MSD analyses were performed on the following samples:

- MW-49, EB-NCL-01: Nitrate, nitrite, chloride, fluoride, sulfate
- KWB-2R, MW-88, NCL-31: Total metals
- RA-4196: Ethylene dibromide

The %Rs of chloride in the MS and MSD performed on sample MW-49 were below the laboratory-defined recovery limits (80-120%). However, the concentration of chloride in the unspiked sample was greater than four times the spiked concentration; thus, the %Rs of chloride were not used to evaluate potential matrix effects.

The %Rs of fluoride (ok/79.5%), nitrate (68.4%/65.7%), nitrite (79.5%/79.5%), and sulfate (50.1%/48.1%) in the MS and/or MSD performed on sample MW-49 were below the laboratory-defined recovery limits (80-120%). Therefore, potential low bias exists for the positive and nondetect results for fluoride, nitrate, nitrite, and sulfate in all groundwater samples from this laboratory report.

The %Rs of total calcium, total manganese, and total sodium in the MS and/or MSD performed on sample MW-88 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.

The %Rs of total sodium in the MS and MSD performed on sample KWB-2R 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 %Rs of total sodium were not used to evaluate potential matrix effects.

The %Rs of total calcium and total manganese in the MS and/or MSD performed on sample NCL-31 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 and total manganese were not used to evaluate potential matrix effects.

Surrogate Recoveries

The surrogate toluene-d8 recovered above the laboratory-defined recovery limits (80-120%) in the VOC analyses of samples MW-139 (123%), TEL-4 (125%), and DUP-TEL-01 (126%). Therefore, the positive results for detected VOCs in samples MW-139, TEL-4, and DUP-TEL-01 may be biased high; there is no impact on nondetect results due to this issue.

The surrogate (o-terphenyl) recovered below the laboratory-defined control limits (31.0-160%) in the TPH (GC/FID) high fraction analysis of samples NCL-32 (0%). There was no impact on the data usability due to this issue since the sample was diluted ≥10-fold; therefore, the surrogate recovery was not applicable.

Laboratory Duplicates

Laboratory duplicate analyses were performed on the following samples:

- MW-29, MW-110, MW-115, MW-150, TEL-4: Dissolved solids
- MW-49, EB-NCL-01: Nitrate, nitrite, chloride, fluoride, sulfate

The RPD for dissolved solids in the duplicate analysis performed on sample MW-29 (15%) exceeded the laboratory-defined control limit (5%). However, there was no impact on the data usability since the RPD was within the acceptance criteria used in this evaluation (20%).

The RPDs for fluoride (33.4%) and nitrate (200%) in the 10-fold duplicate analysis performed on sample MW-49 exceeded the laboratory-defined control limit (15%). However, the results in the parent and duplicate samples were less than 5x the RLs so the laboratory duplicate RPDs were not applicable.

Field Duplicates

Samples DUP-EP-01/MW-7A, DUP-EP-02/MW-22A, DUP-NCL-01/NCL-49, DUP-TEL-01/TEL-4, DUP-REST-01/MW-113, and DUP-REST-02/MW-102 were submitted as the field duplicate pairs. All criteria were met except as noted below:

- The RPD for dissolved solids (33.2%) was above the acceptance criteria (30%) in field duplicate pair MW-22A/DUP-EP-02. Therefore, the positive results for dissolved solids in samples MW-22A and DUP-EP-02 may be considered estimated.

- The RPD for dissolved solids (34.8%) was above the acceptance criteria (30%) in field duplicate pair NCL-49/DUP-NCL-01. Therefore, the positive results for dissolved solids in samples NCL-49 and DUP-NCL-01 may be considered estimated.
- The RPDs for total chromium (61.7%) and total iron (77.1%) were above the acceptance criteria (30%) in field duplicate pair TEL-4/DUP-TEL-01. Therefore, the positive results for total chromium and total iron in samples TEL-4 and DUP-TEL-01 may be considered estimated.
- The results for 2-butanone, carbon disulfide, naphthalene, and sec-butylbenzene were either nondetect in one of the two samples or detected at <5x the parent sample RL in one of the two samples from the field duplicate pair MW-102/DUP-REST-02; the absolute differences were greater than the parent sample RLs but were less than the field duplicate sample RLs due to varying dilutions performed by the laboratory on these samples. Since the samples were analyzed at varying dilutions for these two samples, and since the absolute differences were < the field duplicate RLs, professional judgement was used and there is no adverse impact on the data usability due to this issue.

Appendix E.1 - Summary of Production from Recovery Trenches and Wells

2023 Annual Groundwater Monitoring Report

HF Sinclair 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 2023	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total 2023
RW-1R [2]	Automated Pump	0	407,524	534,673	724,576	1,666,773	0	0	0	0	0
RW-2R [2]	Automated Pump	95,856	630,810	97,413	382,048	1,206,127	480	146	0	58	684
RW-4R	Automated Pump	0	0	0	1,935,056	1,935,056	0	0	0	0	0
RW-5R	Automated Pump	82,006	51,478	47,247	129,791	310,522	44	1	7,252	2,503	9,800
RW-6R	Automated Pump	0	0	0	0	0	0	0	0	4,263	4,263
RW-7R [2]	Automated Pump	500,012	268,020	188,670	172,763	1,129,465	1,499	0	0	0	1,499
RW-8R [2]	Automated Pump	0	0	0	0	0	0	0	0	0	0
RW-12R	Automated Pump	0	0	0	0	0	0	0	0	0	0
RW-13R	Automated Pump	0	0	0	0	0	0	0	0	6	6
RW-14R	Automated Pump	0	735,639	227,244	1	962,884	2	856	30	19,477	20,365
RW-15 [3]	Automated Pump	0	0	0	0	0	0	0	0	0	0
RW-19 [3]	Automated Pump	57,943	52,667	58,436	58,406	227,452	0	2,864	8,945	0	11,809
RW-20	Automated Pump	0	0	0	0	0	0	0	0	0	0
RW-22 [4]	Automated Pump	462	2,370	552	33,608	36,992	1	2,038	0	0	2,039
TOTAL VOLUME RECOVERED:		736,279	2,148,508	1,154,235	3,436,249	**7,475,271**	2,026	5,905	16,227	26,307	**50,465**

[1] Volumes of recovered water and PSH are based on automated system readings, rounded to the nearest gallon.

[2] During the week of October 30, 2023, the PLC units at wells on the T-9012 skid (RW-1R, RW-2R, RW-7R, and RW-8R) were repaired. The programming was reset and restarted at non-zero values at some wells. The RW-2R automated system restarted at a reading of 8,162.

[3] The automated system at Skid T-9021 (RW-15 and RW-19) was reset between June 19 and July 3, 2023.

[4] The automated system associated with RW-22 is malfunctioning. Volume of water recovered is based off local totalizer readings at Tank T-9020.

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Appendix E.1 - Recovery System Gauging Data

2023 Annual Groundwater Monitoring Report

HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, NM

Automated Fluid Readings - Skid Area T-9012

Date	Total Fluids Readings				PSH Readings				Tank Reading
	RW-1R	RW-2R	RW-7R	RW-8R	RW-1R	RW-2R	RW-7R	RW-8R	T-9012
12/27/2022	502,787	3,949,200	4,261,500	3,692,647	73,747	93,332	80,779	74,717	346,804
1/3/2023	502,787	3,969,563	4,308,137	3,692,647	73,747	93,765	82,256	74,717	346,910
1/9/2023	502,787	3,985,459	4,346,455	3,692,647	73,747	93,799	82,268	74,717	346,991
1/16/2023	502,787	3,986,341	4,396,779	3,692,647	73,747	93,799	82,268	74,717	346,991
1/23/2023	502,787	3,988,657	4,433,906	3,692,647	73,747	93,799	82,269	74,717	346,991
1/30/2023	502,787	3,990,856	4,452,966	3,692,647	73,747	93,799	82,278	74,717	346,991
2/6/2023	502,787	3,991,749	4,453,245	3,692,647	73,747	93,799	82,278	74,717	346,991
2/13/2023	502,787	3,991,856	4,501,653	3,692,647	73,747	93,799	82,278	74,717	346,991
2/20/2023	502,787	3,993,688	4,548,628	3,692,647	73,747	93,799	82,278	74,717	346,991
2/27/2023	502,787	3,995,593	4,594,767	3,692,647	73,747	93,799	82,278	74,717	346,991
3/6/2023	502,787	4,001,236	4,638,127	3,692,647	73,747	93,799	82,278	74,717	346,991
3/13/2023	502,787	4,006,510	4,679,662	3,692,647	73,747	93,799	82,278	74,717	346,991
3/20/2023	502,787	4,009,624	4,721,276	3,692,647	73,747	93,811	82,278	74,717	346,991
3/27/2023	502,787	4,045,056	4,761,512	3,692,647	73,747	93,812	82,278	74,717	346,991
1Q Totals:	**-**	**95,856**	**500,012**	**-**	**-**	**480**	**1,499**	**-**	**187**
4/3/2023	502,787	4,074,622	4,798,657	3,692,647	73,747	93,953	82,278	74,717	346,991
4/10/2023	502,787	4,115,610	4,832,200	3,692,647	73,747	93,958	82,278	74,717	346,991
4/17/2023	502,787	4,153,083	4,864,764	3,692,647	73,747	93,958	82,278	74,717	346,991
4/24/2023	502,787	4,215,567	4,893,497	3,692,647	73,747	93,958	82,278	74,717	346,992
5/1/2023	530,708	4,279,525	4,917,789	3,692,647	73,747	93,958	82,278	74,717	347,579
5/8/2023	587,619	4,342,179	4,938,798	3,692,647	73,747	93,958	82,278	74,717	348,955
5/15/2023	-	-	-	-	-	-	-	-	-
5/22/2023	613,509	4,370,481	4,947,006	3,692,647	73,747	93,958	82,278	74,717	349,169
5/30/2023	672,968	4,429,598	4,966,316	3,692,647	73,747	93,958	82,278	74,717	349,384
6/5/2023	734,434	4,487,286	4,980,932	3,692,647	73,747	93,958	82,278	74,717	349,496
6/12/2023	799,421	4,551,239	4,997,028	3,692,647	73,747	93,958	82,278	74,717	349,796
6/19/2023	855,032	4,613,915	5,012,727	3,692,647	73,747	93,958	82,278	74,717	349,801
6/26/2023	910,311	4,675,866	5,029,532	3,692,647	73,747	93,958	82,278	74,717	-
2Q Totals:	**407,524**	**630,810**	**268,020**	**-**	**-**	**146**	**-**	**-**	**2,810**
7/3/2023	961,646	4,737,053	5,050,137	3,692,647	73,747	93,958	82,278	74,717	349,805
7/10/2023	1,016,143	4,773,279	5,072,044	3,692,647	73,747	93,958	82,278	74,717	-
7/17/2023	1,095,312	4,773,279	5,102,392	3,692,647	73,747	93,958	82,278	74,717	351,184
7/24/2023	1,125,806	4,773,279	5,114,049	3,692,647	73,747	93,958	82,278	74,717	351,184
7/31/2023	-	-	-	-	-	-	-	-	-
8/1/2023	1,193,785	4,773,279	5,137,792	3,692,647	73,747	93,958	82,278	74,717	351,185
8/7/2023	1,241,343	4,773,279	5,154,565	3,692,647	73,747	93,958	82,278	74,717	351,187
8/14/2023	1,242,043	4,773,279	5,173,625	3,692,647	73,747	93,958	82,278	74,717	351,201
8/21/2023	1,341,770	4,773,279	5,194,196	3,692,647	73,747	93,958	82,278	74,717	351,201
8/28/2023	1,342,726	4,773,279	5,194,697	3,692,647	73,747	93,958	82,278	74,717	331,361
9/6/2023	1,342,726	4,773,279	5,194,697	3,692,647	73,747	93,958	82,278	74,717	331,502
9/11/2023	1,384,193	4,773,279	5,194,697	3,692,647	73,747	93,958	82,278	74,717	351,410
9/19/2023	1,444,984	4,773,279	5,218,202	3,692,647	73,747	93,958	82,278	74,717	-
3Q Totals:	**534,673**	**97,413**	**188,670**	**-**	**-**	**-**	**-**	**-**	**1,609**
10/2/2023	1,512,859	4,773,279	5,229,084	3,692,647	73,747	93,958	82,278	74,717	352,123
10/9/2023	1,546,251	4,773,279	5,238,453	3,692,647	73,747	93,957	82,278	74,717	352,127
10/16/2023	1,608,717	4,773,279	5,255,396	3,692,647	73,747	93,958	82,278	74,717	352,503
10/23/2023	1,676,319	4,773,279	5,270,725	3,692,647	73,747	93,958	82,278	74,717	352,505
10/30/2023	1,747,177	4,773,279	5,287,148	3,692,647	73,747	93,958	82,278	74,717	352,506
11/6/2023	1,821,102	35,229	5,301,795	3,368,902	73,747	4	82,278	45,691	352,506
11/13/2023	1,880,411	62,014	5,317,135	3,368,902	73,747	4	82,278	45,691	352,506
11/20/2023	-	-	-	-	-	-	-	-	-
11/27/2023	2,000,568	163,190	5,342,175	3,368,902	73,747	62	82,278	45,691	-
12/4/2023	2,045,465	215,143	5,352,580	3,368,902	73,747	62	82,278	45,691	352,526
12/11/2023	-	-	-	-	-	-	-	-	-
12/18/2023	-	-	-	-	-	-	-	-	-
12/27/2023	2,169,560	390,210	5,390,965	3,368,902	73,747	62	82,278	45,691	352,617
4Q Totals:	**724,576**	**382,048**	**172,763**	**-**	**-**	**58**	**-**	**-**	**352,617**

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Appendix E.1 - Recovery System Gauging Data

2023 Annual Groundwater Monitoring Report

HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, NM

Automated Fluid Readings - Skid Area T-9003

Date	Total Fluids Readings		PSH Readings		Tank Reading
	RW-4R	RW-6R	RW-4R	RW-6R	T-9003
12/27/2022	6,419,421	2,941,779	14,045	73,099	46,364
1/3/2023	6,419,421	2,941,779	14,045	73,099	46,364
1/9/2023	6,419,421	2,941,779	14,045	73,099	46,376
1/16/2023	6,419,421	2,941,779	14,045	73,099	46,377
1/23/2023	6,419,421	2,941,779	14,045	73,099	46,377
1/30/2023	6,419,421	2,941,779	14,045	73,099	46,377
2/6/2023	6,419,421	2,941,779	14,045	73,099	46,377
2/13/2023	6,419,421	2,941,779	14,045	73,099	46,377
2/20/2023	6,419,421	2,941,779	14,045	73,099	46,377
2/27/2023	6,419,421	2,941,779	14,045	73,099	46,377
3/6/2023	6,419,421	2,941,779	14,045	73,099	46,377
3/13/2023	6,419,421	2,941,779	14,045	73,099	46,377
3/20/2023	6,419,421	2,941,779	14,045	73,099	46,382
3/27/2023	6,419,421	2,941,779	14,045	73,099	46,382
1Q Totals:	**-**	**-**	**-**	**-**	**18**
4/3/2023	6,419,421	2,941,779	14,045	73,099	46,382
4/10/2023	6,419,421	2,941,779	14,045	73,099	46,382
4/17/2023	6,419,421	2,941,779	14,045	73,099	46,382
4/24/2023	6,419,421	2,941,779	14,045	73,099	46,382
5/1/2023	6,419,421	2,941,779	14,045	73,099	46,382
5/8/2023	6,419,421	2,941,779	14,045	73,099	46,382
5/15/2023	-	-	-	-	-
5/22/2023	6,419,421	2,941,779	14,045	73,099	46,382
5/30/2023	6,419,421	2,941,779	14,045	73,099	46,382
6/5/2023	6,419,421	2,941,779	14,045	73,099	46,382
6/12/2023	6,419,421	2,941,779	14,045	73,099	46,382
6/19/2023	6,419,421	2,941,779	14,045	73,099	46,382
6/26/2023	6,419,421	2,941,779	14,045	73,099	-
2Q Totals:	**-**	**-**	**-**	**-**	**-**
7/3/2023	6,419,421	2,941,779	14,045	73,099	46,382
7/10/2023	6,419,421	2,941,779	14,045	73,099	-
7/17/2023	6,419,421	2,941,779	14,045	73,099	46,382
7/24/2023	6,419,421	2,941,779	14,045	73,099	46,382
7/31/2023	-	-	-	-	-
8/1/2023	6,419,421	2,941,779	14,045	73,099	46,382
8/7/2023	6,419,421	2,941,779	14,045	73,099	46,382
8/14/2023	6,419,421	2,941,779	14,045	73,099	46,503
8/21/2023	6,419,421	2,941,779	14,045	73,099	46,382
8/28/2023	6,419,421	2,941,779	14,045	73,099	46,503
9/6/2023	6,419,421	2,941,779	14,045	73,099	46,503
9/11/2023	6,419,421	2,941,779	14,045	73,099	46,382
9/19/2023	6,419,421	2,941,779	14,045	73,099	-
3Q Totals:	**-**	**-**	**-**	**-**	**-**
10/2/2023	6,419,421	2,941,779	14,045	73,099	46,382
10/9/2023	6,419,421	2,941,779	14,045	73,099	46,382
10/16/2023	6,419,421	2,941,779	14,045	73,099	46,382
10/23/2023	6,419,421	2,941,779	14,045	73,099	46,503
10/30/2023	6,449,421	2,941,779	14,045	75,539	46,382
11/6/2023	7,303,718	2,941,779	14,045	77,360	947
11/13/2023	7,476,914	2,941,779	14,045	77,362	947
11/20/2023	-	-	-	-	-
11/27/2023	7,801,965	2,941,779	14,045	77,362	-
12/4/2023	7,951,890	2,941,779	14,045	77,362	948
12/11/2023	-	-	-	-	-
12/18/2023	-	-	-	-	-
12/27/2023	8,354,477	2,941,779	14,045	77,362	952
4Q Totals:	**1,935,056**	**-**	**-**	**4,263**	**5**

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Appendix E.1 - Recovery System Gauging Data

2023 Annual Groundwater Monitoring Report

HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, NM

Automated Fluid Readings - Skid Area T-9021

Date	Total Fluids Readings			PSH Readings			Tank Reading
	RW-5R	RW-15	RW-19	RW-5R	RW-15	RW-19	T-9021
12/27/2022	738,979	2,559	549,805	30,660	13,070	10,746	679,362
1/3/2023	745,209	2,559	554,724	30,663	13,070	10,746	679,362
1/9/2023	750,449	2,559	558,783	30,663	13,070	10,746	679,362
1/16/2023	757,438	2,559	564,174	30,674	13,070	10,746	679,362
1/23/2023	762,721	2,559	568,205	30,671	13,070	10,746	679,362
1/30/2023	768,883	2,559	572,763	30,677	13,070	10,746	679,362
2/6/2023	775,045	2,559	577,241	30,681	13,070	10,746	679,362
2/13/2023	781,227	2,559	581,692	30,685	13,070	10,746	679,362
2/20/2023	787,389	2,559	586,104	30,688	13,070	10,746	679,362
2/27/2023	793,516	2,559	590,529	30,692	13,070	10,746	679,362
3/6/2023	799,648	2,559	594,916	30,698	13,070	10,746	679,362
3/13/2023	805,773	2,559	599,207	30,702	13,070	10,746	679,362
3/20/2023	812,936	2,559	603,423	30,704	13,070	10,746	679,362
3/27/2023	820,985	2,559	607,748	30,704	13,070	10,746	679,363
1Q Totals:	**82,006**	**-**	**57,943**	**44**	**-**	**-**	**1**
4/3/2023	828,942	2,559	612,023	30,704	13,070	10,746	679,363
4/10/2023	836,859	2,559	616,310	30,705	13,070	10,746	679,363
4/17/2023	844,721	2,559	620,709	30,705	13,070	10,746	679,363
4/24/2023	852,518	2,559	625,161	30,705	13,070	10,746	679,363
5/1/2023	860,272	2,559	628,937	30,705	13,070	11,559	680,749
5/8/2023	867,905	2,559	632,126	30,705	13,070	12,965	681,610
5/15/2023	-	-	-	-	-	-	-
5/22/2023	871,332	2,559	633,683	30,705	13,070	13,608	682,444
5/30/2023	872,463	2,559	638,163	30,705	13,070	13,610	750,176
6/5/2023	872,463	2,559	642,916	30,705	13,070	13,610	820,465
6/12/2023	872,463	2,559	648,457	30,705	13,070	13,610	898,090
6/19/2023	872,463	2,559	654,329	30,705	13,070	13,610	974,832
6/26/2023	872,463	2,559	660,415	30,705	13,070	13,610	-
2Q Totals:	**51,478**	**-**	**52,667**	**1**	**-**	**2,864**	**295,469**
7/3/2023	872,463	2,559	666,525	30,705	13,070	13,610	113,477
7/10/2023	872,463	2,559	672,821	30,705	13,070	13,610	-
7/17/2023	872,463	2,559	681,973	30,705	13,070	13,610	281,529
7/25/2023	872,463	2,559	685,638	30,705	13,070	13,610	-
7/31/2023	-	-	-	-	-	-	-
8/1/2023	881,139	2,559	693,220	30,708	13,070	13,610	399,952
8/7/2023	890,485	2,559	698,890	30,712	13,070	13,610	448,600
8/14/2023	904,718	2,559	704,695	30,712	13,070	13,995	516,858
8/21/2023	919,378	2,559	709,217	30,712	13,070	15,776	586,436
8/28/2023	919,710	2,559	709,308	30,712	13,070	-	659,933
9/6/2023	919,710	2,559	709,308	34,191	13,070	20,486	752,825
9/11/2023	919,710	2,559	713,143	35,908	13,070	20,598	-
9/19/2023	919,710	2,559	718,851	37,957	13,070	22,555	-
3Q Totals:	**47,247**	**-**	**58,436**	**7,252**	**-**	**8,945**	**639,348**
10/2/2023	921,869	2,559	720,730	39,045	13,070	23,904	-
10/9/2023	937,079	2,559	727,383	40,454	13,070	24,388	79,871
10/16/2023	952,941	2,559	734,316	40,454	13,070	24,395	156,910
10/23/2023	968,768	2,559	741,331	40,454	13,070	24,396	240,308
10/30/2023	171,691	2,559	748,137	40,454	13,070	24,404	325,865
11/6/2023	1,000,710	-	754,850	40,454	-	24,404	410,747
11/13/2023	1,016,439	-	761,396	40,454	-	24,404	495,873
11/20/2023	-	-	-	-	-	-	-
11/27/2023	1,047,197	-	767,819	40,454	-	24,410	-
12/4/2023	1,049,501	-	770,738	40,460	-	24,414	754,216
12/11/2023	-	-	-	-	-	-	-
12/18/2023	-	-	-	-	-	-	-
12/27/2023	1,049,501	-	777,257	40,460	-	26,611	-
4Q Totals:	**129,791**	**-**	**58,406**	**2,503**	**-**	**4,056**	**754,216**

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Appendix E.1 - Recovery System Gauging Data

2023 Annual Groundwater Monitoring Report

HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, NM

Automated Fluid Readings - Skid Area T-9020

Date	Total Fluids Readings					PSH Readings					Tank Reading
	RW-12R	RW-13R	RW-14R	RW-20	RW-22	RW-12R	RW-13R	RW-14R	RW-20	RW-22	T-9020
12/27/2022	234	2,034,440	4,301,685	1,767,306	2,413,271	4,755	12,831	379,184	48,816	156,178	576,946
1/3/2023	234	2,034,440	4,301,685	1,767,306	2,413,271	4,755	12,831	379,184	48,816	156,178	576,946
1/9/2023	234	2,034,440	4,301,685	1,767,306	2,413,271	4,755	12,831	379,185	48,816	156,178	576,991
1/16/2023	234	2,034,440	4,301,685	1,767,306	2,413,271	4,755	12,831	379,185	48,816	156,178	577,005
1/23/2023	234	2,034,440	4,301,685	1,767,306	2,413,271	4,755	12,831	379,185	48,816	156,179	577,044
1/30/2023	234	2,034,440	4,301,685	1,767,306	2,413,271	4,755	12,831	379,185	48,816	156,179	577,096
2/6/2023	234	2,034,440	4,301,685	1,767,306	2,413,271	4,755	12,831	379,186	48,816	156,179	577,308
2/13/2023	234	2,034,440	4,301,685	1,767,306	2,413,271	4,755	12,831	379,186	48,816	156,179	577,363
2/20/2023	234	2,034,440	4,301,685	1,767,306	2,413,272	4,755	12,831	379,186	48,816	156,179	577,388
2/27/2023	234	2,034,440	4,301,685	1,767,306	2,413,272	4,755	12,831	379,186	48,816	156,179	577,400
3/6/2023	234	2,034,440	4,301,685	1,767,306	2,413,272	4,755	12,831	379,186	48,816	156,179	577,400
3/13/2023	234	2,034,440	4,301,685	1,767,306	2,413,272	4,755	12,831	379,186	48,816	156,179	577,400
3/20/2023	234	2,034,440	4,301,685	1,767,306	2,413,272	4,755	12,831	379,186	48,816	156,179	577,407
3/27/2023	234	2,034,440	4,301,685	1,767,306	2,413,274	4,755	12,831	379,186	48,816	156,179	577,408
1Q Totals:	**-**	**-**	**-**	**-**	**3**	**-**	**-**	**2**	**-**	**1**	**462**
4/3/2023	234	2,034,440	4,301,685	1,767,306	2,413,274	4,735	12,831	379,186	48,816	156,179	577,408
4/10/2023	234	2,034,440	4,301,685	1,767,306	2,413,274	4,755	12,831	379,186	48,816	156,179	577,408
4/17/2023	234	2,034,440	4,301,685	1,767,306	2,413,274	4,755	12,831	379,332	48,816	156,179	577,609
4/24/2023	234	2,034,440	4,301,685	1,767,306	2,413,274	4,755	12,831	379,554	48,816	156,179	577,609
5/1/2023	234	2,034,440	4,353,738	1,767,306	2,413,274	4,755	12,831	380,042	48,816	156,347	578,016
5/8/2023	234	2,034,440	4,451,107	1,767,306	2,413,274	4,755	12,831	380,042	48,816	156,347	578,016
5/15/2023	-	-	-	-	-	-	-	-	-	-	-
5/22/2023	234	2,034,440	4,552,648	1,767,306	2,413,276	4,755	12,831	380,042	48,816	157,770	579,390
5/30/2023	234	2,034,440	4,648,471	1,767,306	2,413,276	4,755	12,831	380,042	48,816	158,217	579,776
6/5/2023	234	2,034,440	4,727,966	1,767,306	2,413,276	4,755	12,831	380,042	48,816	158,217	579,776
6/12/2023	234	2,034,440	4,832,752	1,767,306	2,413,276	4,755	12,831	380,042	48,816	158,217	579,778
6/19/2023	234	2,034,440	4,925,308	1,767,306	2,413,276	4,755	12,831	380,042	48,816	158,217	579,778
6/26/2023	234	2,034,440	5,037,324	1,767,306	2,413,276	4,755	12,831	380,042	48,816	158,217	-
2Q Totals:	**-**	**-**	**735,639**	**-**	**2**	**-**	**-**	**856**	**-**	**2,038**	**2,370**
7/3/2023	234	2,034,440	5,144,321	1,767,306	2,413,276	4,755	12,831	380,042	48,816	158,217	580,325
7/10/2023	234	2,034,440	5,261,599	1,767,306	2,413,276	4,755	12,831	380,042	48,816	158,217	-
7/17/2023	234	2,034,440	5,263,916	1,767,306	2,413,276	4,755	12,831	380,042	48,816	158,217	579,781
7/25/2023	234	2,034,440	5,263,916	1,767,306	2,413,276	4,755	12,831	380,042	48,816	158,217	579,784
8/1/2023	234	2,034,440	5,263,916	1,767,306	2,413,276	4,755	12,831	380,042	48,816	158,217	579,784
8/7/2023	234	2,034,440	5,264,561	1,767,306	2,413,277	4,755	12,831	380,042	48,816	158,217	448,600
8/14/2023	234	2,034,440	5,264,565	1,767,306	2,413,277	4,755	12,831	380,042	48,816	158,217	579,785
8/21/2023	234	2,034,440	5,264,567	1,767,306	2,413,277	4,755	12,831	380,061	48,816	158,217	579,785
8/28/2023	234	2,034,440	5,264,567	1,767,306	2,413,277	4,756	12,831	380,067	48,816	158,217	580,330
9/6/2023	234	2,034,440	5,264,568	1,767,306	2,413,277	4,755	12,831	380,072	48,816	158,217	580,330
9/11/2023	234	2,034,440	5,264,568	1,767,306	2,413,277	4,755	12,831	380,072	48,816	158,217	580,330
9/19/2023	234	2,034,440	5,264,568	1,767,306	2,413,277	4,755	12,831	380,072	48,816	158,217	-
3Q Totals:	**-**	**-**	**227,244**	**-**	**1**	**-**	**-**	**30**	**-**	**-**	**552**
10/2/2023	234	2,034,440	5,264,568	1,767,306	2,413,277	4,755	12,831	380,072	48,816	158,214	579,786
10/9/2023	234	2,034,440	5,264,569	1,767,306	2,413,279	4,755	12,831	380,072	48,816	158,217	579,786
10/16/2023	234	2,034,440	5,264,569	1,767,306	2,413,279	4,755	12,831	380,072	48,816	158,217	579,786
10/23/2023	234	2,034,440	5,264,569	1,767,306	2,413,279	4,755	12,831	380,072	48,816	158,217	579,786
10/30/2023	234	2,034,440	5,264,569	1,767,306	2,413,279	4,755	12,831	380,091	48,816	158,217	579,798
11/6/2023	234	1,498,335	5,264,569	1,767,306	2,413,279	4,755	130	380,185	48,816	158,217	-
11/13/2023	234	1,498,335	5,264,569	1,767,306	2,413,280	4,755	130	380,875	48,816	158,217	585,403
11/20/2023	-	-	-	-	-	-	-	-	-	-	-
11/27/2023	234	1,498,335	5,264,569	1,767,306	2,413,280	4,755	130	399,374	48,816	158,219	-
12/4/2023	234	1,498,335	5,264,569	1,767,306	2,413,280	4,755	135	399,549	48,816	158,219	607,683
12/11/2023	-	-	-	-	-	-	-	-	-	-	-
12/18/2023	-	-	-	-	-	-	-	-	-	-	-
12/27/2023	234	1,498,335	5,264,569	-	2,413,280	4,755	136	399,549	-	158,219	613,394
4Q Totals:	**-**	**-**	**1**	**-**	**3**	**-**	**6**	**19,477**	**-**	**2**	**33,608**

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Appendix E.2 - Recovery System Gauging Data
2023 Annual Groundwater Monitoring Report
HF Sinclair 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)
12/27/22	23.25	24.45	17.50	1.20	3,384.03	3,360.78	3,359.58	18.70	18.73	20.00	0.03	3,385.17	3,366.47	3,366.44	-	18.50	OUT	-	3,381.86	-	3,363.36
1/3/23	23.00	24.00	17.50	1.00	3,384.03	3,361.03	3,360.03	25.95	26.15	20.00	0.20	3,385.17	3,359.22	3,359.02	-	18.30	OUT	-	3,381.86	-	3,363.56
1/9/23	22.45	23.70	17.50	1.25	3,384.03	3,361.58	3,360.33	15.20	15.22	20.00	0.02	3,385.17	3,369.97	3,369.95	-	17.45	OUT	-	3,381.86	-	3,364.41
1/16/23	22.35	23.65	17.50	1.30	3,384.03	3,361.68	3,360.38	-	15.00	20.00	-	3,385.17	-	3,370.17	-	18.05	OUT	-	3,381.86	-	3,363.81
1/23/23	22.40	23.65	17.50	1.25	3,384.03	3,361.63	3,360.38	-	15.05	20.00	-	3,385.17	-	3,370.12	-	18.05	OUT	-	3,381.86	-	3,363.81
1/30/23	22.40	23.50	17.50	1.10	3,384.03	3,361.63	3,360.53	-	14.97	20.00	-	3,385.17	-	3,370.20	11.20	17.40	OUT	6.20	3,381.86	3,370.66	3,364.46
2/6/23	22.30	23.50	17.50	1.20	3,384.03	3,361.73	3,360.53	-	14.75	20.00	-	3,385.17	-	3,370.42	-	17.80	OUT	-	3,381.86	-	3,364.06
2/13/23	22.30	23.43	17.50	1.13	3,384.03	3,361.73	3,360.60	-	14.80	20.00	-	3,385.17	-	3,370.37	-	17.90	OUT	-	3,381.86	-	3,363.96
2/20/23	22.35	23.50	17.50	1.15	3,384.03	3,361.68	3,360.53	-	15.05	20.00	-	3,385.17	-	3,370.12	-	17.98	OUT	-	3,381.86	-	3,363.88
2/27/23	22.50	23.55	17.50	1.05	3,384.03	3,361.53	3,360.48	-	15.30	20.00	-	3,385.17	-	3,369.87	-	17.80	OUT	-	3,381.86	-	3,364.06
3/6/23	22.45	23.45	17.50	1.00	3,384.03	3,361.58	3,360.58	-	15.20	20.00	-	3,385.17	-	3,369.97	-	17.82	OUT	-	3,381.86	-	3,364.04
3/13/23	22.60	23.52	17.50	0.92	3,384.03	3,361.43	3,360.51	-	28.80	20.00	-	3,385.17	-	3,356.37	-	17.85	OUT	-	3,381.86	-	3,364.01
3/20/23	22.45	23.52	17.50	1.07	3,384.03	3,361.58	3,360.51	-	15.38	20.00	-	3,385.17	-	3,369.79	-	18.30	OUT	-	3,381.86	-	3,363.56
3/27/23	22.80	23.80	17.50	1.00	3,384.03	-	3,360.23	23.25	26.20	20.00	2.95	3,385.17	3,361.92	3,358.97	-	18.10	OUT	-	3,381.86	-	3,363.76
4/3/23	22.80	24.00	17.50	1.20	3,384.03	-	3,360.03	-	25.80	20.00	-	3,385.17	-	3,359.37	-	18.05	OUT	-	3,381.86	-	3,363.81
4/10/23	14.00	14.80	17.50	0.80	3,384.03	3,370.03	3,369.23	-	15.45	20.00	-	3,385.17	-	3,369.72	-	18.00	OUT	-	3,381.86	-	3,363.86
4/17/23	22.85	23.70	17.50	0.85	3,384.03	3,361.18	3,360.33	-	27.65	20.00	-	3,385.17	-	3,357.52	-	17.55	OUT	-	3,381.86	-	3,364.31
4/24/23	22.85	23.70	17.50	0.85	3,384.03	3,361.18	3,360.33	26.90	28.30	20.00	1.40	3,385.17	3,358.27	3,356.87	-	17.45	OUT	-	3,381.86	-	3,364.41
5/1/23	22.80	23.65	17.50	0.85	3,384.03	3,361.23	3,360.38	28.10	28.90	20.00	0.80	3,385.17	3,357.07	3,356.27	-	17.45	OUT	-	3,381.86	-	3,364.41
5/8/23	22.85	23.25	17.50	0.40	3,384.03	3,361.18	3,360.78	27.32	28.57	20.00	1.25	3,385.17	3,357.85	3,356.60	-	17.65	OUT	-	3,381.86	-	3,364.21
5/15/23	-	-	17.50	-	3,384.03	-	3,384.03	-	-	20.00	-	3,385.17	-	3,385.17	-	-	OUT	-	3,381.86	-	3,381.86
5/22/23	13.25	13.92	17.50	0.67	3,384.03	3,370.78	3,370.11	-	14.90	20.00	-	3,385.17	-	3,370.27	-	14.00	OUT	-	3,381.86	-	3,367.86
5/30/23	22.40	22.90	17.50	0.50	3,384.03	3,361.63	3,361.13	-	26.90	20.00	-	3,385.17	-	3,358.27	-	14.00	OUT	-	3,381.86	-	3,367.86
6/5/23	22.38	22.64	17.50	0.26	3,384.03	3,361.65	3,361.39	-	27.24	20.00	-	3,385.17	-	3,357.93	-	13.95	OUT	-	3,381.86	-	3,367.91
6/12/23	22.02	22.07	17.50	0.05	3,384.03	3,362.01	3,361.96	25.00	28.50	20.00	3.50	3,385.17	3,360.17	3,356.67	13.75	13.80	OUT	0.05	3,381.86	-	3,368.06
6/19/23	19.35	19.40	-	0.05	3,384.03	3,364.68	3,364.63	27.22	28.35	-	1.13	3,385.17	3,357.95	3,356.82	13.75	13.80	-	0.05	3,381.86	-	3,368.06
6/26/23	23.40	25.35	-	1.95	3,384.03	3,360.63	3,358.68	-	-	-	-	3,385.17	-	3,385.17	-	-	-	-	3,381.86	-	3,381.86
7/3/23	-	-	-	-	3,384.03	-	3,384.03	-	-	-	-	3,385.17	-	3,385.17	-	-	-	-	3,381.86	-	3,381.86
7/10/23	-	-	-	-	3,384.03	-	3,384.03	-	-	-	-	3,385.17	-	3,385.17	-	-	-	-	3,381.86	-	3,381.86
7/24/23	18.75	19.00	-	0.25	3,384.03	3,365.28	3,365.03	25.74	26.35	-	0.61	3,385.17	3,359.43	3,358.82	-	13.40	-	-	3,381.86	-	3,368.46
7/25/23	21.90	21.95	-	0.05	3,384.03	3,362.13	3,362.08	27.13	28.35	-	1.22	3,385.17	3,358.04	3,356.82	-	13.70	-	-	3,381.86	-	3,368.16
8/1/23	22.21	23.18	-	0.97	3,384.03	3,361.82	3,360.85	27.19	27.77	-	0.58	3,385.17	3,357.98	3,357.40	-	13.37	-	-	3,381.86	-	3,368.49
8/7/23	22.21	23.12	-	0.91	3,384.03	3,361.82	3,360.91	27.00	28.27	-	1.27	3,385.17	3,358.17	3,356.90	-	13.38	-	-	3,381.86	-	3,368.48
8/17/23	21.72	23.72	-	2.00	3,384.03	3,362.31	3,360.31	27.12	28.12	-	1.00	3,385.17	3,358.05	3,357.05	-	13.50	-	-	3,381.86	-	3,368.36
8/21/23	-	-	-	-	3,384.03	-	3,384.03	-	-	-	-	3,385.17	-	3,385.17	-	-	-	-	3,381.86	-	3,381.86
8/28/23	13.90	14.18	-	0.28	3,384.03	3,370.13	3,369.85	-	15.65	-	-	3,385.17	-	3,369.52	-	13.36	-	-	3,381.86	-	3,368.50
9/6/23	13.42	13.96	-	0.54	3,384.03	3,370.61	3,370.07	-	15.18	-	-	3,385.17	-	3,369.99	-	14.40	-	-	3,381.86	-	3,367.46
9/11/23	22.65	22.70	-	0.05	3,384.03	3,361.38	3,361.33	27.22	27.55	-	0.33	3,385.17	3,357.95	3,357.62	13.25	13.30	-	0.05	3,381.86	-	3,368.56
9/19/23	22.75	22.80	-	0.05	3,384.03	3,361.28	3,361.23	26.67	27.40	-	0.73	3,385.17	3,358.50	3,357.77	-	13.25	-	-	3,381.86	-	3,368.61
10/2/23	21.11	21.72	-	0.61	3,384.03	3,362.92	3,362.31	-	24.82	-	-	3,385.17	-	3,360.35	-	14.82	-	-	3,381.86	-	3,367.04
10/9/23	23.05	23.55	-	0.50	3,384.03	3,360.98	3,360.48	-	27.00	-	-	3,385.17	-	3,358.17	-	18.00	-	-	3,381.86	-	3,363.86
10/16/23	22.70	22.82	-	0.12	3,384.03	3,361.33	3,361.21	25.35	25.55	-	0.20	3,385.17	3,359.82	3,359.62	-	14.08	-	-	3,381.86	-	3,367.78
10/23/23	22.63	23.67	-	1.04	3,384.03	3,361.40	3,360.36	26.34	27.82	-	1.48	3,385.17	3,358.83	3,357.35	-	18.05	-	-	3,381.86	-	3,363.81
10/30/23	22.45	23.50	-	1.05	3,384.03	3,361.58	3,360.53	-	27.10	-	-	3,385.17	-	3,358.07	-	18.00	-	-	3,381.86	-	3,363.86
11/6/23	-	-	-	-	3,384.03	-	3,384.03	-	-	-	-	3,385.17	-	3,385.17	-	-	-	-	3,381.86	-	3,381.86
11/13/23	22.60	22.65	-	0.05	3,384.03	3,361.43	3,361.38	24.80	25.62	-	0.82	3,385.17	3,360.37	3,359.55	-	18.15	-	-	3,381.86	-	3,363.71
11/20/23	-	-	-	-	3,384.03	-	3,384.03	-	-	-	-	3,385.17	-	3,385.17	-	-	-	-	3,381.86	-	3,381.86
11/27/23	22.65	22.85	-	0.20	3,384.03	3,361.38	3,361.18	24.90	25.65	-	0.75	3,385.17	3,360.27	3,359.52	-	18.60	-	-	3,381.86	-	3,363.26
12/4/23	-	18.95	-	-	3,384.03	-	3,365.08	25.00	25.42	-	0.42	3,385.17	3,360.17	3,359.75	-	18.52	-	-	3,381.86	-	3,363.34
12/11/23	-	-	-	-	3,384.03	-	3,384.03	-	-	-	-	3,385.17	-	3,385.17	-	-	-	-	3,381.86	-	3,381.86
12/18/23	-	-	-	-	3,384.03	-	3,384.03	-	-	-	-	3,385.17	-	3,385.17	-	-	-	-	3,381.86	-	3,381.86
12/27/23	21.72	21.93	17.50	0.21	3,384.03	3,362.31	3,362.10	25.05	25.47	20.00	0.42	3,385.17	3,360.12	3,359.70	-	18.50	OUT	-	3,381.86	-	3,363.36

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Appendix E.2 - Recovery System Gauging Data
2023 Annual Groundwater Monitoring Report
HF Sinclair 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)
12/27/22	21.45	21.70	21.00	0.25	3,385.56	3,364.11	3,363.86	25.60	25.75	22.50	0.15	3,385.36	3,359.76	3,359.61	15.45	16.00	21.00	0.55	3,384.09	3,368.64	3,368.09
1/3/23	20.91	21.45	21.00	0.54	3,385.56	3,364.65	3,364.11	-	25.25	22.50	-	3,385.36	-	3,360.11	15.45	16.28	21.00	0.83	3,384.09	3,368.64	3,367.81
1/9/23	22.15	22.60	21.00	0.45	3,385.56	3,363.41	3,362.96	-	25.10	22.50	-	3,385.36	-	3,360.26	15.35	16.40	21.00	1.05	3,384.09	3,368.74	3,367.69
1/16/23	22.20	22.35	21.00	0.15	3,385.56	3,363.36	3,363.21	-	24.90	22.50	-	3,385.36	-	3,360.46	15.45	16.50	21.00	1.05	3,384.09	3,368.64	3,367.59
1/23/23	22.10	22.30	21.00	0.20	3,385.56	3,363.46	3,363.26	-	24.75	22.50	-	3,385.36	-	3,360.61	15.55	16.30	21.00	0.75	3,384.09	3,368.54	3,367.79
1/30/23	20.90	21.45	21.00	0.55	3,385.56	3,364.66	3,364.11	-	24.25	22.50	-	3,385.36	-	3,361.11	15.60	16.90	21.00	1.30	3,384.09	3,368.49	3,367.19
2/6/23	21.48	21.78	21.00	0.30	3,385.56	3,364.08	3,363.78	24.50	24.75	22.50	0.25	3,385.36	3,360.86	3,360.61	15.65	16.55	21.00	0.90	3,384.09	3,368.44	3,367.54
2/13/23	21.19	21.45	21.00	0.26	3,385.56	3,364.37	3,364.11	24.10	24.25	22.50	0.15	3,385.36	3,361.26	3,361.11	15.62	16.65	21.00	1.03	3,384.09	3,368.47	3,367.44
2/20/23	21.35	21.66	21.00	0.31	3,385.56	3,364.21	3,363.90	23.80	23.95	22.50	0.15	3,385.36	3,361.56	3,361.41	15.70	16.90	21.00	1.20	3,384.09	3,368.39	3,367.19
2/27/23	21.68	21.70	21.00	0.02	3,385.56	3,363.88	3,363.86	-	15.15	22.50	-	3,385.36	-	3,370.21	15.30	16.40	21.00	1.10	3,384.09	3,368.79	3,367.69
3/6/23	22.52	22.70	21.00	0.18	3,385.56	3,363.04	3,362.86	-	14.80	22.50	-	3,385.36	-	3,370.56	15.60	16.60	21.00	1.00	3,384.09	3,368.49	3,367.49
3/13/23	21.35	21.72	21.00	0.37	3,385.56	3,364.21	3,363.84	-	14.80	22.50	-	3,385.36	-	3,370.56	15.50	16.75	21.00	1.25	3,384.09	3,368.59	3,367.34
3/20/23	22.58	22.94	21.00	0.36	3,385.56	3,362.98	3,362.62	-	14.50	22.50	-	3,385.36	-	3,370.86	15.60	16.60	21.00	1.00	3,384.09	3,368.49	3,367.49
3/27/23	-	-	21.00	-	3,385.56	-	3,385.56	-	14.65	22.50	-	3,385.36	-	3,370.71	15.55	16.30	21.00	0.75	3,384.09	3,368.54	3,367.79
4/3/23	22.10	23.55	21.00	1.45	3,385.56	3,363.46	3,362.01	-	14.60	22.50	-	3,385.36	-	3,370.76	15.65	16.40	21.00	0.75	3,384.09	3,368.44	3,367.69
4/10/23	22.85	24.35	21.00	1.50	3,385.56	3,362.71	3,361.21	-	14.70	22.50	-	3,385.36	-	3,370.66	15.50	16.75	21.00	1.25	3,384.09	3,368.59	3,367.34
4/17/23	22.70	25.40	21.00	2.70	3,385.56	3,362.86	3,360.16	-	14.65	22.50	-	3,385.36	-	3,370.71	15.45	16.80	21.00	1.35	3,384.09	3,368.64	3,367.29
4/24/23	22.30	25.36	21.00	3.06	3,385.56	3,363.26	3,360.20	-	14.70	22.50	-	3,385.36	-	3,370.66	15.50	17.00	21.00	1.50	3,384.09	3,368.59	3,367.09
5/1/23	21.72	25.45	21.00	3.73	3,385.56	3,363.84	3,360.11	-	17.75	22.50	-	3,385.36	-	3,367.61	15.22	17.40	21.00	2.18	3,384.09	3,368.87	3,366.69
5/8/23	21.52	26.00	21.00	4.48	3,385.56	3,364.04	3,359.56	-	14.90	22.50	-	3,385.36	-	3,370.46	15.40	17.13	21.00	1.73	3,384.09	3,368.69	3,366.96
5/15/23	-	-	21.00	-	3,385.56	-	3,385.56	-	-	22.50	-	3,385.36	-	3,385.36	-	-	21.00	-	3,384.09	-	3,384.09
5/22/23	-	-	21.00	-	3,385.56	-	3,385.56	-	14.95	22.50	-	3,385.36	-	3,370.41	14.50	16.00	21.00	1.50	3,384.09	3,369.59	3,368.09
5/30/23	17.08	19.65	21.00	2.57	3,385.56	3,368.48	3,365.91	-	14.80	22.50	-	3,385.36	-	3,370.56	15.25	17.30	21.00	2.05	3,384.09	3,368.84	3,366.79
6/5/23	17.08	19.74	21.00	2.66	3,385.56	3,368.48	3,365.82	-	14.90	22.50	-	3,385.36	-	3,370.46	15.00	17.80	21.00	2.80	3,384.09	3,369.09	3,366.29
6/12/23	18.81	19.12	21.00	0.31	3,385.56	3,366.75	3,366.44	-	14.75	22.50	-	3,385.36	-	3,370.61	14.70	17.48	21.00	2.78	3,384.09	3,369.39	3,366.61
6/19/23	16.77	19.45	-	2.68	3,385.56	3,368.79	3,366.11	-	14.74	-	-	3,385.36	-	3,370.62	15.78	16.61	-	0.83	3,384.09	3,368.31	3,367.48
6/26/23	-	-	-	-	3,385.56	-	3,385.56	-	-	-	-	3,385.36	-	3,385.36	15.85	17.02	-	1.17	3,384.09	3,368.24	3,367.07
7/3/23	-	-	-	-	3,385.56	-	3,385.56	-	-	-	-	3,385.36	-	3,385.36	-	-	-	-	3,384.09	-	3,384.09
7/10/23	-	-	-	-	3,385.56	-	3,385.56	-	-	-	-	3,385.36	-	3,385.36	-	-	-	-	3,384.09	-	3,384.09
7/24/23	16.45	17.72	-	1.27	3,385.56	3,369.11	3,367.84	-	14.45	-	-	3,385.36	-	3,370.91	16.25	16.60	-	0.35	3,384.09	3,367.84	3,367.49
7/25/23	16.40	18.85	-	2.45	3,385.56	3,369.16	3,366.71	-	14.40	-	-	3,385.36	-	3,370.96	16.45	16.70	-	0.25	3,384.09	3,367.64	3,367.39
8/1/23	25.07	27.12	-	2.05	3,385.56	3,360.49	3,358.44	-	14.40	-	-	3,385.36	-	3,370.96	16.50	17.30	-	0.80	3,384.09	3,367.59	3,366.79
8/7/23	25.87	27.75	-	1.88	3,385.56	3,359.69	3,357.81	-	14.37	-	-	3,385.36	-	3,370.99	16.74	17.00	-	0.26	3,384.09	3,367.35	3,367.09
8/17/23	25.80	28.26	-	2.46	3,385.56	3,359.76	3,357.30	-	-	-	-	3,385.36	-	3,385.36	16.70	16.86	-	0.16	3,384.09	3,367.39	3,367.23
8/21/23	-	-	-	-	3,385.56	-	3,385.56	-	-	-	-	3,385.36	-	3,385.36	-	-	-	-	3,384.09	-	3,384.09
8/28/23	16.04	19.40	-	3.36	3,385.56	3,369.52	3,366.16	-	14.48	-	-	3,385.36	-	3,370.88	15.20	17.38	-	2.18	3,384.09	3,368.89	3,366.71
9/6/23	16.83	20.50	-	3.67	3,385.56	3,368.73	3,365.06	-	14.50	-	-	3,385.36	-	3,370.86	15.20	18.28	-	3.08	3,384.09	3,368.89	3,365.81
9/11/23	16.40	19.80	-	3.40	3,385.56	3,369.16	3,365.76	-	14.44	-	-	3,385.36	-	3,370.92	15.50	18.00	-	2.50	3,384.09	3,368.59	3,366.09
9/19/23	16.45	18.95	-	2.50	3,385.56	3,369.11	3,366.61	-	14.35	-	-	3,385.36	-	3,371.01	16.60	16.70	-	0.10	3,384.09	3,367.49	3,367.39
10/2/23	22.00	25.15	-	3.15	3,385.56	3,363.56	3,360.41	-	14.25	-	-	3,385.36	-	3,371.11	15.65	16.19	-	0.54	3,384.09	3,368.44	3,367.90
10/9/23	29.80	32.00	-	2.20	3,385.56	3,355.76	3,353.56	-	14.35	-	-	3,385.36	-	3,371.01	15.30	17.82	-	2.52	3,384.09	3,368.79	3,366.27
10/16/23	30.68	32.75	-	2.07	3,385.56	3,354.88	3,352.81	-	14.45	-	-	3,385.36	-	3,370.91	16.50	16.92	-	0.42	3,384.09	3,367.59	3,367.17
10/23/23	-	25.48	-	-	3,385.56	-	3,360.08	-	14.38	-	-	3,385.36	-	3,370.98	16.74	17.30	-	0.56	3,384.09	3,367.35	3,366.79
10/30/23	26.30	31.87	-	5.57	3,385.56	3,359.26	3,353.69	-	11.82	-	-	3,385.36	-	3,385.36	16.65	17.00	-	0.35	3,384.09	3,367.44	3,367.09
11/6/23	-	-	-	-	3,385.56	-	3,385.56	-	-	-	-	3,385.36	-	3,385.36	-	-	-	-	3,384.09	-	3,384.09
11/13/23	28.05	31.48	-	3.43	3,385.56	3,357.51	3,354.08	-	14.68	-	-	3,385.36	-	3,370.68	16.55	16.64	-	0.09	3,384.09	3,367.54	3,367.45
11/20/23	-	-	-	-	3,385.56	-	3,385.56	-	-	-	-	3,385.36	-	3,385.36	-	-	-	-	3,384.09	-	3,384.09
11/27/23	26.67	28.75	-	2.08	3,385.56	3,358.89	3,356.81	-	14.72	-	-	3,385.36	-	3,370.64	16.10	17.75	-	1.65	3,384.09	3,367.99	3,366.34
12/4/23	17.50	18.85	-	1.35	3,385.56	3,368.06	3,366.71	-	14.82	-	-	3,385.36	-	3,370.54	16.25	20.45	-	4.20	3,384.09	3,367.84	3,363.64
12/11/23	-	-	-	-	3,385.56	-	3,385.56	-	-	-	-	3,385.36	-	3,385.36	-	-	-	-	3,384.09	-	3,384.09
12/18/23	-	-	-	-	3,385.56	-	3,385.56	-	-	-	-	3,385.36	-	3,385.36	-	-	-	-	3,384.09	-	3,384.09
12/27/23	18.00	18.30	21.00	0.30	3,385.56	3,367.56	3,367.26	-	14.79	22.50	-	3,385.36	-	3,370.57	16.54	17.85	21.00	1.31	3,384.09	3,367.55	3,366.24

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Appendix E.2 - Recovery System Gauging Data
2023 Annual Groundwater Monitoring Report
HF Sinclair 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)
12/27/22	14.15	15.00	18.50	0.85	3,385.10	3,370.95	3,370.10	-	23.00	OUT	-	3,368.54	-	3,345.54	22.42	22.47	21.64	0.05	3,368.54	3,346.12	3,346.07
1/3/23	14.15	15.10	18.50	0.95	3,385.10	3,370.95	3,370.00	25.30	25.30	OUT	-	3,368.54	3,343.24	3,343.24	22.70	22.80	21.64	0.10	3,368.54	3,345.84	3,345.74
1/9/23	14.15	15.10	18.50	0.95	3,385.10	3,370.95	3,370.00	23.50	25.50	OUT	2.00	3,368.54	-	3,343.04	22.95	23.05	21.64	0.10	3,368.54	3,345.59	3,345.49
1/16/23	14.05	14.95	18.50	0.90	3,385.10	3,371.05	3,370.15	25.66	25.68	OUT	0.02	3,368.54	-	3,342.86	23.10	23.22	21.64	0.12	3,368.54	3,345.44	3,345.32
1/23/23	14.15	15.30	18.50	1.15	3,385.10	3,370.95	3,369.80	-	25.85	OUT	-	3,368.54	-	3,342.69	23.40	23.83	21.64	0.43	3,368.54	3,345.14	3,344.71
1/30/23	14.00	14.90	18.50	0.90	3,385.10	3,371.10	3,370.20	25.90	25.94	OUT	0.04	3,368.54	-	3,342.60	23.51	23.55	21.64	0.04	3,368.54	3,345.03	3,344.99
2/6/23	13.85	14.70	18.50	0.85	3,385.10	3,371.25	3,370.40	26.15	26.25	OUT	0.10	3,368.54	-	3,342.29	23.68	23.71	21.64	0.03	3,368.54	3,344.86	3,344.83
2/13/23	13.95	14.85	18.50	0.90	3,385.10	3,371.15	3,370.25	26.42	26.60	OUT	0.18	3,368.54	-	3,341.94	23.88	23.90	21.64	0.02	3,368.54	3,344.66	3,344.64
2/20/23	14.05	15.10	18.50	1.05	3,385.10	3,371.05	3,370.00	26.55	26.90	OUT	0.35	3,368.54	-	3,341.64	24.05	24.10	21.64	0.05	3,368.54	3,344.49	3,344.44
2/27/23	14.20	15.40	18.50	1.20	3,385.10	3,370.90	3,369.70	26.62	27.50	OUT	0.88	3,368.54	3,341.92	3,341.04	24.18	24.25	21.64	0.07	3,368.54	3,344.36	3,344.29
3/6/23	14.30	15.62	18.50	1.32	3,385.10	3,370.80	3,369.48	26.70	27.15	OUT	0.45	3,368.54	-	3,341.39	-	24.48	21.64	-	3,368.54	-	3,344.06
3/13/23	14.40	15.82	18.50	1.42	3,385.10	3,370.70	3,369.28	26.84	27.30	OUT	0.46	3,368.54	-	3,341.24	24.45	24.78	21.64	0.33	3,368.54	3,344.09	3,343.76
3/20/23	14.30	15.62	18.50	1.32	3,385.10	3,370.80	3,369.48	26.90	27.44	OUT	0.54	3,368.54	-	3,341.10	24.35	24.60	21.64	0.25	3,368.54	3,344.19	3,343.94
3/27/23	14.55	16.20	18.50	1.65	3,385.10	3,370.55	3,368.90	26.97	27.60	OUT	0.63	3,368.54	-	3,340.94	-	25.33	21.64	-	3,368.54	-	3,343.21
4/3/23	14.75	16.65	18.50	1.90	3,385.10	3,370.35	3,368.45	26.95	27.70	OUT	0.75	3,368.54	-	3,340.84	-	24.69	21.64	-	3,368.54	-	3,343.85
4/10/23	14.95	16.50	18.50	1.55	3,385.10	3,370.15	3,368.60	27.05	27.90	OUT	0.85	3,368.54	-	3,340.64	-	24.70	21.64	-	3,368.54	-	3,343.84
4/17/23	19.10	20.60	18.50	1.50	3,385.10	3,366.00	3,364.50	27.05	27.70	OUT	0.65	3,368.54	-	3,340.84	-	24.65	21.64	-	3,368.54	-	3,343.89
4/24/23	18.90	19.60	18.50	0.70	3,385.10	3,366.20	3,365.50	26.20	26.50	OUT	0.30	3,368.54	-	3,342.04	23.85	24.00	21.64	0.15	3,368.54	3,344.69	3,344.54
5/1/23	19.45	20.25	18.50	0.80	3,385.10	3,365.65	3,364.85	-	22.00	OUT	-	3,368.54	-	3,346.54	20.65	20.84	21.64	0.19	3,368.54	3,347.89	3,347.70
5/8/23	18.30	19.30	18.50	1.00	3,385.10	3,366.80	3,365.80	-	22.80	OUT	-	3,368.54	-	3,345.74	21.45	21.64	21.64	0.19	3,368.54	3,347.09	3,346.90
5/15/23	-	-	18.50	-	3,385.10	-	3,385.10	-	-	OUT	-	3,368.54	-	3,368.54	-	-	21.64	-	3,368.54	-	3,368.54
5/22/23	14.70	15.90	18.50	1.20	3,385.10	3,370.40	3,369.20	-	18.60	OUT	-	3,368.54	-	3,349.94	17.15	17.93	21.64	0.78	3,368.54	3,351.39	3,350.61
5/30/23	19.10	19.50	18.50	0.40	3,385.10	3,366.00	3,365.60	-	20.00	OUT	-	3,368.54	-	3,348.54	18.74	19.00	21.64	0.26	3,368.54	3,349.80	3,349.54
6/5/23	19.49	20.20	18.50	0.71	3,385.10	3,365.61	3,364.90	-	20.70	OUT	-	3,368.54	-	3,347.84	19.45	19.50	21.64	0.05	3,368.54	3,349.09	3,349.04
6/12/23	19.30	19.45	18.50	0.15	3,385.10	3,365.80	3,365.65	17.02	17.95	OUT	0.93	3,368.54	-	3,350.59	16.54	16.86	21.64	0.32	3,368.54	3,352.00	3,351.68
6/19/23	19.25	19.82	-	0.57	3,385.10	3,365.85	3,365.28	-	19.10	-	-	3,368.54	-	3,349.44	17.83	18.16	-	0.33	3,368.54	3,350.71	3,350.38
6/26/23	16.15	17.11	-	0.96	3,385.10	3,368.95	3,367.99	-	17.50	-	-	3,368.54	-	3,351.04	16.22	16.51	-	0.29	3,368.54	3,352.32	3,352.03
7/3/23	-	-	-	-	3,385.10	-	3,385.10	-	-	-	-	3,368.54	-	3,368.54	-	-	-	-	3,368.54	-	3,368.54
7/10/23	-	-	-	-	3,385.10	-	3,385.10	-	-	-	-	3,368.54	-	3,368.54	-	-	-	-	3,368.54	-	3,368.54
7/24/23	19.11	19.25	-	0.14	3,385.10	3,365.99	3,365.85	-	16.42	-	-	3,368.54	-	3,352.12	15.22	15.55	-	0.33	3,368.54	3,353.32	3,352.99
7/25/23	18.95	19.33	-	0.38	3,385.10	3,366.15	3,365.77	-	17.42	-	-	3,368.54	-	3,351.12	16.05	16.30	-	0.25	3,368.54	3,352.49	3,352.24
8/1/23	18.25	18.40	-	0.15	3,385.10	3,366.85	3,366.70	-	18.18	-	-	3,368.54	-	3,350.36	16.95	17.05	-	0.10	3,368.54	3,351.59	3,351.49
8/7/23	-	18.78	-	-	3,385.10	-	3,366.32	-	17.81	-	-	3,368.54	-	3,350.73	16.35	16.81	-	0.46	3,368.54	3,352.19	3,351.73
8/17/23	18.94	19.35	-	0.41	3,385.10	3,366.16	3,365.75	-	18.72	-	-	3,368.54	-	3,349.82	17.45	17.84	-	0.39	3,368.54	3,351.09	3,350.70
8/21/23	-	-	-	-	3,385.10	-	3,385.10	-	-	-	-	3,368.54	-	3,368.54	15.52	15.75	-	0.23	3,368.54	3,353.02	3,352.79
8/28/23	15.60	16.21	-	0.61	3,385.10	3,369.50	3,368.89	-	17.40	-	-	3,368.54	-	3,351.14	16.09	16.40	-	0.31	3,368.54	3,352.45	3,352.14
9/6/23	18.45	20.38	-	1.93	3,385.10	3,366.65	3,364.72	17.32	17.40	-	0.08	3,368.54	-	3,351.14	16.05	16.55	-	0.50	3,368.54	3,352.49	3,351.99
9/11/23	18.45	19.00	-	0.55	3,385.10	3,366.65	3,366.10	18.15	18.20	-	0.05	3,368.54	-	3,350.34	16.90	17.45	-	0.55	3,368.54	3,351.64	3,351.09
9/19/23	18.70	18.90	-	0.20	3,385.10	3,366.40	3,366.20	16.75	16.83	-	0.08	3,368.54	-	3,351.71	15.45	15.70	-	0.25	3,368.54	3,353.09	3,352.84
10/2/23	18.28	19.10	-	0.82	3,385.10	3,366.82	3,366.00	16.30	16.33	-	0.03	3,368.54	-	3,352.21	15.04	15.35	-	0.31	3,368.54	3,353.50	3,353.19
10/9/23	18.54	19.72	-	1.18	3,385.10	3,366.56	3,365.38	17.92	19.82	-	1.90	3,368.54	-	3,348.72	16.60	16.88	-	0.28	3,368.54	3,351.94	3,351.66
10/16/23	-	18.72	-	-	3,385.10	-	3,366.38	18.00	18.03	-	0.03	3,368.54	-	3,350.51	16.68	17.00	-	0.32	3,368.54	3,351.86	3,351.54
10/23/23	-	19.23	-	-	3,385.10	-	3,365.87	17.69	17.75	-	0.06	3,368.54	-	3,350.79	16.45	16.77	-	0.32	3,368.54	3,352.09	3,351.77
10/30/23	-	18.80	-	-	3,385.10	-	3,366.30	-	19.50	-	-	3,368.54	-	3,349.04	18.30	18.60	-	0.30	3,368.54	3,350.24	3,349.94
11/6/23	-	-	-	-	3,385.10	-	3,385.10	-	-	-	-	3,368.54	-	3,368.54	16.65	16.90	-	0.25	3,368.54	3,351.89	3,351.64
11/13/23	-	19.15	-	-	3,385.10	-	3,365.95	-	21.82	-	-	3,368.54	-	3,346.72	20.47	21.10	-	0.63	3,368.54	3,348.07	3,347.44
11/20/23	-	-	-	-	3,385.10	-	3,385.10	-	-	-	-	3,368.54	-	3,368.54	-	-	-	-	3,368.54	-	3,368.54
11/27/23	18.00	18.85	-	0.85	3,385.10	3,367.10	3,366.25	-	23.42	-	-	3,368.54	-	3,345.12	17.82	21.29	-	3.47	3,368.54	3,350.72	3,347.25
12/4/23	18.25	20.60	-	2.35	3,385.10	3,366.85	3,364.50	24.15	24.92	-	0.77	3,368.54	-	3,343.62	22.03	22.10	-	0.07	3,368.54	3,346.51	3,346.44
12/11/23	-	-	-	-	3,385.10	-	3,385.10	-	-	-	-	3,368.54	-	3,368.54	-	-	-	-	3,368.54	-	3,368.54
12/18/23	-	-	-	-	3,385.10	-	3,385.10	-	-	-	-	3,368.54	-	3,368.54	-	-	-	-	3,368.54	-	3,368.54
12/27/23	18.17	18.88	18.50	0.71	3,385.10	3,366.93	3,366.22	-	25.32	OUT	-	3,368.54	-	3,343.22	-	22.60	21.64	-	3,368.54	-	3,345.94

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Appendix E.2 - Recovery System Gauging Data
2023 Annual Groundwater Monitoring Report
HF Sinclair 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)
12/27/22	24.95	28.20	22.95	3.25	3,366.37	3,341.42	3,338.17	-	-	OUT	-	3,382.30	-	3,382.30	27.60	28.65	32.00	1.05	3,386.11	3,358.51	3,357.46
1/3/23	26.10	26.10	22.95	-	3,366.37	3,340.27	3,340.27	-	-	OUT	-	3,382.30	-	3,382.30	27.25	28.66	32.00	1.41	3,386.11	3,358.86	3,357.45
1/9/23	-	26.55	22.95	-	3,366.37	-	3,339.82	-	-	OUT	-	3,382.30	-	-	27.80	29.20	32.00	1.40	3,386.11	3,358.31	3,356.91
1/16/23	26.15	32.28	22.95	6.13	3,366.37	3,340.22	3,334.09	-	-	OUT	-	3,382.30	-	-	23.20	24.00	32.00	0.80	3,386.11	3,362.91	3,362.11
1/23/23	25.85	30.35	22.95	4.50	3,366.37	3,340.52	3,336.02	-	-	OUT	-	3,382.30	-	-	27.00	28.95	32.00	1.95	3,386.11	3,359.11	3,357.16
1/30/23	25.29	31.78	22.95	6.49	3,366.37	3,341.08	3,334.59	-	-	OUT	-	3,382.30	-	-	27.00	28.75	32.00	1.75	3,386.11	3,359.11	3,357.36
2/6/23	25.80	31.99	22.95	6.19	3,366.37	3,340.57	3,334.38	-	-	OUT	-	3,382.30	-	-	27.20	29.00	32.00	1.80	3,386.11	3,358.91	3,357.11
2/13/23	26.70	32.40	22.95	5.70	3,366.37	3,339.67	3,333.97	-	-	OUT	-	3,382.30	-	-	24.42	29.22	32.00	4.80	3,386.11	3,361.69	3,356.89
2/20/23	27.28	32.60	22.95	5.32	3,366.37	3,339.09	3,333.77	-	-	OUT	-	3,382.30	-	-	27.18	29.10	32.00	1.92	3,386.11	3,358.93	3,357.01
2/27/23	-	-	22.95	-	3,366.37	-	3,366.37	-	-	OUT	-	3,382.30	-	3,382.30	26.80	28.80	32.00	2.00	3,386.11	3,359.31	3,357.31
3/6/23	-	-	22.95	-	3,366.37	-	3,366.37	-	-	OUT	-	3,382.30	-	-	26.20	27.20	32.00	1.00	3,386.11	3,359.91	3,358.91
3/13/23	26.33	32.35	22.95	6.02	3,366.37	3,340.04	3,334.02	-	-	OUT	-	3,382.30	-	-	27.10	29.15	32.00	2.05	3,386.11	-	-
3/20/23	-	-	22.95	-	3,366.37	-	3,366.37	-	-	OUT	-	3,382.30	-	-	27.49	29.50	32.00	2.01	3,386.11	-	-
3/27/23	25.14	31.70	22.95	6.56	3,366.37	3,341.23	3,334.67	-	-	OUT	-	3,382.30	-	-	27.00	29.15	32.00	2.15	3,386.11	3,359.11	3,356.96
4/3/23	24.98	32.45	22.95	7.47	3,366.37	3,341.39	3,333.92	-	-	OUT	-	3,382.30	-	-	27.20	29.40	32.00	2.20	3,386.11	3,358.91	3,356.71
4/10/23	26.45	32.35	22.95	5.90	3,366.37	3,339.92	3,334.02	-	-	OUT	-	3,382.30	-	-	26.95	29.25	26.50	2.30	3,386.11	3,359.16	3,356.86
4/17/23		25.15	22.95	-	3,366.37	-	3,341.22	-	-	OUT	-	3,382.30	-	-	27.20	29.55	26.50	2.35	3,386.11	3,358.91	3,356.56
4/24/23		24.70	22.95	-	3,366.37	-	3,341.67	-	-	OUT	-	3,382.30	-	-	27.30	29.50	26.50	2.20	3,386.11	3,358.81	3,356.61
5/1/23	20.83	20.90	22.95	0.07	3,366.37	3,345.54	3,345.47	-	-	OUT	-	3,382.30	-	-	-	27.50	26.50	-	3,386.11	-	3,358.61
5/8/23	19.81	20.00	22.95	0.19	3,366.37	3,346.56	3,346.37	-	-	OUT	-	3,382.30	-	-	27.45	28.50	26.50	1.05	3,386.11	3,358.66	3,357.61
5/15/23	-	-	22.95	-	3,366.37	-	3,366.37	-	-	OUT	-	3,382.30	-	-	-	-	26.50	-	3,386.11	-	3,386.11
5/22/23	14.84	15.66	22.95	0.82	3,366.37	3,351.53	3,350.71	-	-	OUT	-	3,382.30	-	-	-	25.10	26.50	-	3,386.11	-	3,361.01
5/30/23	15.52	16.45	22.95	0.93	3,366.37	3,350.85	3,349.92	-	-	OUT	-	3,382.30	-	-	26.35	31.00	26.50	4.65	3,386.11	3,359.76	3,355.11
6/5/23	16.40	17.38	22.95	0.98	3,366.37	3,349.97	3,348.99	-	-	OUT	-	3,382.30	-	-	27.20	31.35	26.50	4.15	3,386.11	3,358.91	3,354.76
6/12/23	15.10	16.10	22.95	1.00	3,366.37	3,351.27	3,350.27	-	-	OUT	-	3,382.30	-	-	27.45	31.53	26.50	4.08	3,386.11	3,358.66	3,354.58
6/19/23	16.40	17.35	-	0.95	3,366.37	3,349.97	3,349.02	-	-	-	-	3,382.30	-	-	26.56	31.61	-	5.05	3,386.11	3,359.55	3,354.50
6/26/23	15.00	15.92	-	0.92	3,366.37	3,351.37	3,350.45	-	-	-	-	3,382.30	-	-	26.62	30.55	-	3.93	3,386.11	3,359.49	3,355.56
7/3/23	-	-	-	-	3,366.37	-	3,366.37	-	-	-	-	3,382.30	-	-	-	-	-	-	3,386.11	-	3,386.11
7/10/23	-	-	-	-	3,366.37	-	3,366.37	-	-	-	-	3,382.30	-	-	-	-	-	-	3,386.11	-	3,386.11
7/24/23	14.92	15.91	-	0.99	3,366.37	3,351.45	3,350.46	-	-	-	-	3,382.30	-	-	26.77	30.85	-	4.08	3,386.11	3,359.34	3,355.26
7/25/23	15.20	16.11	-	0.91	3,366.37	3,351.17	3,350.26	-	-	-	-	3,382.30	-	-	27.50	31.70	-	4.20	3,386.11	3,358.61	3,354.41
8/1/23	15.60	16.52	-	0.92	3,366.37	3,350.77	3,349.85	-	-	-	-	3,382.30	-	-	27.40	31.68	-	4.28	3,386.11	3,358.71	3,354.43
8/7/23	13.39	14.40	-	1.01	3,366.37	3,352.98	3,351.97	-	-	-	-	3,382.30	-	-	26.55	30.87	-	4.32	3,386.11	3,359.56	3,355.24
8/17/23	14.61	15.50	-	0.89	3,366.37	3,351.76	3,350.87	-	-	-	-	3,382.30	-	-	27.40	27.64	-	0.24	3,386.11	3,358.71	3,358.47
8/21/23	-	-	-	-	3,366.37	-	3,366.37	-	-	-	-	3,382.30	-	-	-	-	-	-	3,386.11	-	3,386.11
8/28/23	14.16	15.22	-	1.06	3,366.37	3,352.21	3,351.15	-	-	-	-	3,382.30	-	-	-	-	-	-	3,386.11	-	3,386.11
9/6/23	14.00	15.04	-	1.04	3,366.37	3,352.37	3,351.33	-	-	-	-	3,382.30	-	-	27.45	27.53	-	0.08	3,386.11	3,358.66	3,358.58
9/11/23	14.10	15.10	-	1.00	3,366.37	3,352.27	3,351.27	-	-	-	-	3,382.30	-	-	26.90	29.20	-	2.30	3,386.11	3,359.21	3,356.91
9/19/23	13.30	14.30	-	1.00	3,366.37	3,353.07	3,352.07	-	-	-	-	3,382.30	-	-	-	27.31	-	-	3,386.11	-	3,358.80
10/2/23	13.30	15.42	-	2.12	3,366.37	3,353.07	3,350.95	-	-	-	-	3,382.30	-	-	26.05	29.02	-	2.97	3,386.11	3,360.06	3,357.09
10/9/23	13.87	14.98	-	1.11	3,366.37	3,352.50	3,351.39	-	-	-	-	3,382.30	-	-	26.96	30.72	-	3.76	3,386.11	3,359.15	3,355.39
10/16/23	13.82	14.80	-	0.98	3,366.37	3,352.55	3,351.57	-	-	-	-	3,382.30	-	-	26.68	30.22	-	3.54	3,386.11	3,359.43	3,355.89
10/23/23	13.84	14.92	-	1.08	3,366.37	3,352.53	3,351.45	-	-	-	-	3,382.30	-	-	27.01	31.06	-	4.05	3,386.11	3,359.10	3,355.05
10/30/23	12.05	15.45	-	3.40	3,366.37	3,354.32	3,350.92	-	-	-	-	3,382.30	-	-	26.52	30.55	-	4.03	3,386.11	3,359.59	3,355.56
11/6/23	13.50	15.72	-	2.22	3,366.37	3,352.87	3,350.65	-	-	-	-	3,382.30	-	-	-	-	-	-	3,386.11	-	3,386.11
11/13/23	16.25	17.12	-	0.87	3,366.37	3,350.12	3,349.25	-	-	-	-	3,382.30	-	-	26.69	30.85	-	4.16	3,386.11	3,359.42	3,355.26
11/20/23	-	-	-	-	3,366.37	-	3,366.37	-	-	-	-	3,382.30	-	-	-	-	-	-	3,386.11	-	3,386.11
11/27/23	17.00	18.08	-	1.08	3,366.37	3,349.37	3,348.29	-	-	-	-	3,382.30	-	-	24.40	28.40	-	4.00	3,386.11	3,361.71	3,357.71
12/4/23	17.80	19.20	-	1.40	3,366.37	3,348.57	3,347.17	-	-	-	-	3,382.30	-	-	24.35	29.40	-	5.05	3,386.11	3,361.76	3,356.71
12/11/23	-	-	-	-	3,366.37	-	3,366.37	-	-	-	-	3,382.30	-	-	-	-	-	-	3,386.11	-	3,386.11
12/18/23	-	-	-	-	3,366.37	-	3,366.37	-	-	-	-	3,382.30	-	-	-	-	-	-	3,386.11	-	3,386.11
12/27/23	-	19.20	22.95	-	3,366.37	-	3,347.17	-	-	OUT	-	3,382.30	-	-	25.10	28.30	26.50	3.20	3,386.11	3,361.01	3,357.81

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Appendix E.2 - Recovery System Gauging Data
2023 Annual Groundwater Monitoring Report
HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, NM

Well	RW-20							RW-22							MW-132						
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)
12/27/22	-	20.50	32.00	-	3,365.44	-	3,344.94	25.25	26.30	19.60	1.05	3,366.21	3,340.96	3,339.91	-	-	-	-	3,366.21	-	3,366.21
1/3/23	-	-	32.00	-	3,365.44	-	3,365.44	25.75	27.15	19.60	1.40	3,366.21	3,340.46	3,339.06	-	-	-	-	3,366.21	-	3,366.21
1/9/23	-	-	32.00	-	3,365.44	-	-	23.22	24.00	19.60	0.78	3,366.21	3,342.99	3,342.21	-	-	-	-	3,366.21	-	3,366.21
1/16/23	-	-	32.00	-	3,365.44	-	-	23.55	24.50	19.60	0.95	3,366.21	3,342.66	3,341.71	-	-	-	-	3,366.21	-	3,366.21
1/23/23	-	-	32.00	-	3,365.44	-	-	23.93	24.90	19.60	0.97	3,366.21	3,342.28	3,341.31	-	-	-	-	3,366.21	-	3,366.21
1/30/23	-	-	32.00	-	3,365.44	-	-	24.19	24.95	19.60	0.76	3,366.21	3,342.02	3,341.26	-	-	-	-	3,366.21	-	3,366.21
2/6/23	-	-	32.00	-	3,365.44	-	-	24.40	25.80	19.60	1.40	3,366.21	3,341.81	3,340.41	-	-	-	-	3,366.21	-	3,366.21
2/13/23	-	-	32.00	-	3,365.44	-	-	24.68	27.53	19.60	2.85	3,366.21	3,341.53	3,338.68	-	-	-	-	3,366.21	-	3,366.21
2/20/23	-	-	32.00	-	3,365.44	-	-	24.90	26.05	19.60	1.15	3,366.21	3,341.31	3,340.16	-	-	-	-	3,366.21	-	3,366.21
2/27/23	-	-	32.00	-	3,365.44	-	3,365.44	25.06	26.27	19.60	1.21	3,366.21	3,341.15	3,339.94	-	-	-	-	3,366.21	-	3,366.21
3/6/23	-	-	32.00	-	3,365.44	-	-	25.25	26.82	19.60	1.57	3,366.21	3,340.96	3,339.39	-	-	-	-	3,366.21	-	3,366.21
3/13/23	-	-	32.00	-	3,365.44	-	-	25.42	26.95	19.60	1.53	3,366.21	3,340.79	3,339.26	-	-	-	-	3,366.21	-	3,366.21
3/20/23	-	-	32.00	-	3,365.44	-	-	25.49	29.50	19.60	4.01	3,366.21	3,340.72	3,336.71	-	-	-	-	3,366.21	-	3,366.21
3/27/23	-	-	32.00	-	3,365.44	-	-	25.58	27.90	19.60	2.32	3,366.21	3,340.63	3,338.31	-	-	-	-	3,366.21	-	3,366.21
4/3/23	-	-	32.00	-	3,365.44	-	-	25.60	28.30	19.60	2.70	3,366.21	3,340.61	3,337.91	-	-	-	-	3,366.21	-	3,366.21
4/10/23	-	-	32.00	-	3,365.44	-	-	25.77	28.55	19.60	2.78	3,366.21	3,340.44	3,337.66	-	-	-	-	3,366.21	-	3,366.21
4/17/23	-	-	32.00	-	3,365.44	-	-	25.55	28.33	19.60	2.78	3,366.21	3,340.66	3,337.88	-	-	-	-	3,366.21	-	3,366.21
4/24/23	-	-	32.00	-	3,365.44	-	-	-	-	19.60	-	3,366.21	-	3,366.21	-	-	-	-	3,366.21	-	3,366.21
5/1/23	-	-	32.00	-	3,365.44	-	-	18.19	18.43	19.60	0.24	3,366.21	3,348.02	3,347.78	-	-	-	-	3,366.21	-	3,366.21
5/8/23	-	-	32.00	-	3,365.44	-	-	19.39	19.77	19.60	0.38	3,366.21	3,346.82	3,346.44	-	-	-	-	3,366.21	-	3,366.21
5/15/23	-	-	32.00	-	3,365.44	-	-	-	-	19.60	-	3,366.21	-	3,366.21	-	-	-	-	3,366.21	-	3,366.21
5/22/23	-	-	32.00	-	3,365.44	-	-	-	15.00	19.60	-	3,366.21	-	3,351.21	-	-	-	-	3,366.21	-	3,366.21
5/30/23	-	-	32.00	-	3,365.44	-	-	23.75	24.05	19.60	0.30	3,366.21	3,342.46	3,342.16	-	-	-	-	3,366.21	-	3,366.21
6/5/23	-	-	32.00	-	3,365.44	-	-	23.53	23.94	19.60	0.41	3,366.21	3,342.68	3,342.27	-	-	-	-	3,366.21	-	3,366.21
6/12/23	-	-	32.00	-	3,365.44	-	-	23.45	24.32	19.60	0.87	3,366.21	3,342.76	3,341.89	-	-	-	-	3,366.21	-	3,366.21
6/19/23	-	-	-	-	3,365.44	-	-	23.55	24.23	-	0.68	3,366.21	3,342.66	3,341.98	-	-	-	-	3,366.21	-	3,366.21
6/26/23	-	-	-	-	3,365.44	-	-	23.68	23.92	-	0.24	3,366.21	3,342.53	3,342.29	-	-	-	-	3,366.21	-	3,366.21
7/3/23	-	-	-	-	3,365.44	-	-	-	-	-	-	3,366.21	-	3,366.21	-	-	-	-	3,366.21	-	3,366.21
7/10/23	-	-	-	-	3,365.44	-	-	-	-	-	-	3,366.21	-	3,366.21	-	-	-	-	3,366.21	-	3,366.21
7/24/23	-	-	-	-	3,365.44	-	-	23.31	23.92	-	0.61	3,366.21	3,342.90	3,342.29	-	19.75	-	-	3,366.21	-	3,346.46
7/25/23	-	-	-	-	3,365.44	-	-	23.40	24.10	-	0.70	3,366.21	3,342.81	3,342.11	-	19.68	-	-	3,366.21	-	3,346.53
8/1/23	-	-	-	-	3,365.44	-	-	14.70	15.35	-	0.65	3,366.21	3,351.51	3,350.86	-	19.85	-	-	3,366.21	-	3,346.36
8/7/23	-	-	-	-	3,365.44	-	-	-	-	-	-	3,366.21	-	3,366.21	-	19.82	-	-	3,366.21	-	3,346.39
8/17/23	-	-	-	-	3,365.44	-	-	28.62	28.93	-	0.31	3,366.21	3,337.59	3,337.28	-	-	-	-	3,366.21	-	3,366.21
8/21/23	-	-	-	-	3,365.44	-	-	28.21	28.87	-	0.66	3,366.21	3,338.00	3,337.34	-	-	-	-	3,366.21	-	3,366.21
8/28/23	-	-	-	-	3,365.44	-	-	13.72	14.43	-	0.71	3,366.21	3,352.49	3,351.78	-	19.92	-	-	3,366.21	-	3,346.29
9/6/23	-	-	-	-	3,365.44	-	-	20.81	22.72	-	1.91	3,366.21	3,345.40	3,343.49	-	19.85	-	-	3,366.21	-	3,346.36
9/11/23	-	-	-	-	3,365.44	-	-	25.95	28.75	-	2.80	3,366.21	3,340.26	3,337.46	20.00	20.20	-	0.20	3,366.21	3,346.21	3,346.01
9/19/23	-	-	-	-	3,365.44	-	-	22.45	29.10	-	6.65	3,366.21	3,343.76	3,337.11	-	19.78	-	-	3,366.21	-	3,346.43
10/2/23	-	-	-	-	3,365.44	-	-	12.10	13.00	-	0.90	3,366.21	3,354.11	3,353.21	19.95	29.02	-	9.07	3,366.21	3,346.26	3,337.19
10/9/23	-	-	-	-	3,365.44	-	-	22.60	29.97	-	7.37	3,366.21	3,343.61	3,336.24	-	19.95	-	-	3,366.21	-	3,346.26
10/16/23	-	-	-	-	3,365.44	-	-	-	-	-	-	3,366.21	-	3,366.21	-	20.21	-	-	3,366.21	-	3,346.00
10/23/23	-	-	-	-	3,365.44	-	-	27.80	27.92	-	0.12	3,366.21	3,338.41	3,338.29	-	-	-	-	3,366.21	-	3,366.21
10/30/23	-	-	-	-	3,365.44	-	-	-	22.00	-	-	3,366.21	-	3,344.21	-	20.31	-	-	3,366.21	-	3,345.90
11/6/23	-	-	-	-	3,365.44	-	-	-	-	-	-	3,366.21	-	3,366.21	-	-	-	-	3,366.21	-	3,366.21
11/13/23	-	-	-	-	3,365.44	-	-	-	18.22	-	-	3,366.21	-	3,347.99	-	20.50	-	-	3,366.21	-	3,345.71
11/20/23	-	-	-	-	3,365.44	-	-	-	-	-	-	3,366.21	-	3,366.21	-	-	-	-	3,366.21	-	3,366.21
11/27/23	-	-	-	-	3,365.44	-	-	23.00	23.54	-	0.54	3,366.21	3,343.21	3,342.67	-	21.60	-	-	3,366.21	-	3,344.61
12/4/23	-	-	-	-	3,365.44	-	-	-	26.71	-	-	3,366.21	-	3,339.50	-	20.54	-	-	3,366.21	-	3,345.67
12/11/23	-	-	-	-	3,365.44	-	-	-	-	-	-	3,366.21	-	3,366.21	-	-	-	-	3,366.21	-	3,366.21
12/18/23	-	-	-	-	3,365.44	-	-	-	-	-	-	3,366.21	-	3,366.21	-	-	-	-	3,366.21	-	3,366.21
12/27/23	-	-	32.00	-	3,365.44	-	-	-	22.62	19.60	-	3,366.21	-	3,343.59	-	21.03	-	-	3,366.21	-	3,345.18

Page 1646 of 1657

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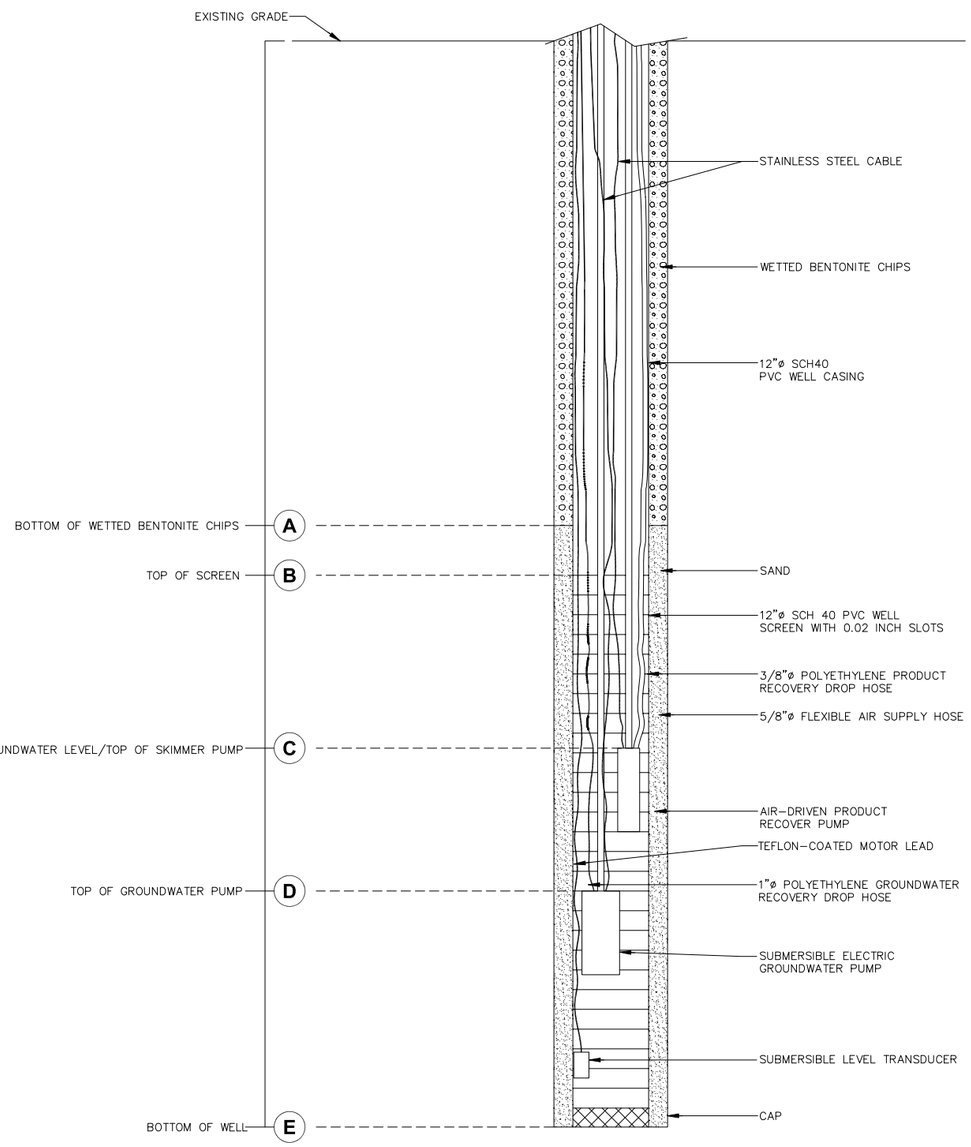
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Appendix E.2 - Recovery System Gauging Data
2023 Annual Groundwater Monitoring Report
HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, NM

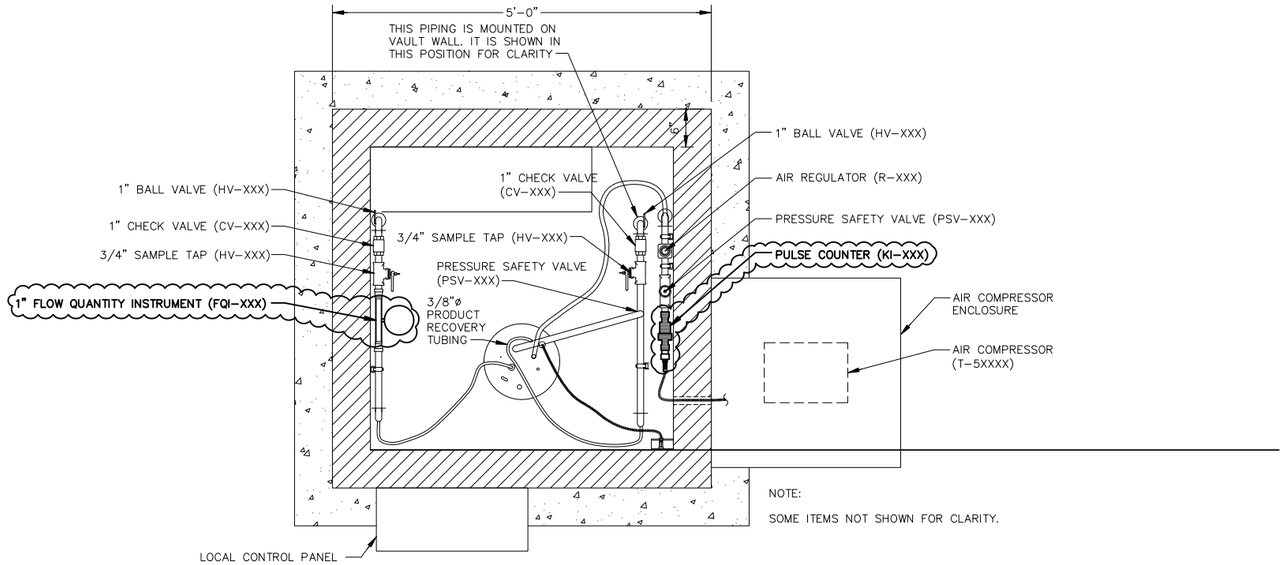
Well	KWB-6						
Date:	Depth to PSH (feet btoc)	Depth to Water (feet btoc)	Product Pump (feet btoc)	PSH Thickness (feet)	TOC Elevation (feet)	PSH Elevation (feet)	Water Elevation (feet)
12/27/22	-	-	-	-	3,366.21	-	3,366.21
1/3/23	-	-	-	-	3,366.21	-	3,366.21
1/9/23	-	-	-	-	3,366.21	-	3,366.21
1/16/23	-	-	-	-	3,366.21	-	3,366.21
1/23/23	-	-	-	-	3,366.21	-	3,366.21
1/30/23	-	-	-	-	3,366.21	-	3,366.21
2/6/23	-	-	-	-	3,366.21	-	3,366.21
2/13/23	-	-	-	-	3,366.21	-	3,366.21
2/20/23	-	-	-	-	3,366.21	-	3,366.21
2/27/23	-	-	-	-	3,366.21	-	3,366.21
3/6/23	-	-	-	-	3,366.21	-	3,366.21
3/13/23	-	-	-	-	3,366.21	-	3,366.21
3/20/23	-	-	-	-	3,366.21	-	3,366.21
3/27/23	-	-	-	-	3,366.21	-	3,366.21
4/3/23	-	-	-	-	3,366.21	-	3,366.21
4/10/23	-	-	-	-	3,366.21	-	3,366.21
4/17/23	-	-	-	-	3,366.21	-	3,366.21
4/24/23	-	-	-	-	3,366.21	-	3,366.21
5/1/23	-	-	-	-	3,366.21	-	3,366.21
5/8/23	-	-	-	-	3,366.21	-	3,366.21
5/15/23	-	-	-	-	3,366.21	-	3,366.21
5/22/23	-	-	-	-	3,366.21	-	3,366.21
5/30/23	-	-	-	-	3,366.21	-	3,366.21
6/5/23	-	-	-	-	3,366.21	-	3,366.21
6/12/23	-	-	-	-	3,366.21	-	3,366.21
6/19/23	-	-	-	-	3,366.21	-	3,366.21
6/26/23	-	-	-	-	3,366.21	-	3,366.21
7/3/23	-	-	-	-	3,366.21	-	3,366.21
7/10/23	-	-	-	-	3,366.21	-	3,366.21
7/24/23	-	22.31	-	-	3,366.21	-	3,343.90
7/25/23	22.35	22.93	-	0.58	3,366.21	3,343.86	3,343.28
8/1/23	22.40	23.15	-	0.75	3,366.21	3,343.81	3,343.06
8/7/23	22.45	23.25	-	0.80	3,366.21	3,343.76	3,342.96
8/17/23	22.70	23.70	-	1.00	3,366.21	3,343.51	3,342.51
8/21/23	23.57	24.57	-	1.00	3,366.21	3,342.64	3,341.64
8/28/23	22.45	23.55	-	1.10	3,366.21	3,343.76	3,342.66
9/6/23	22.40	23.50	-	1.10	3,366.21	3,343.81	3,342.71
9/11/23	22.50	23.70	-	1.20	3,366.21	3,343.71	3,342.51
9/19/23	22.40	23.55	-	1.15	3,366.21	3,343.81	3,342.66
10/2/23	22.45	23.80	-	1.35	3,366.21	3,343.76	3,342.41
10/9/23	22.45	23.83	-	1.38	3,366.21	3,343.76	3,342.38
10/16/23	22.55	24.05	-	1.50	3,366.21	3,343.66	3,342.16
10/23/23	22.72	24.01	-	1.29	3,366.21	3,343.49	3,342.20
10/30/23	22.75	24.10	-	1.35	3,366.21	3,343.46	3,342.11
11/6/23	-	-	-	-	3,366.21	-	3,366.21
11/13/23	20.85	21.30	-	0.45	3,366.21	3,345.36	3,344.91
11/20/23	-	-	-	-	3,366.21	-	3,366.21
11/27/23	23.00	24.60	-	1.60	3,366.21	3,343.21	3,341.61
12/4/23	23.07	24.58	-	1.51	3,366.21	3,343.14	3,341.63
12/11/23	-	-	-	-	3,366.21	-	3,366.21
12/18/23	-	-	-	-	3,366.21	-	3,366.21
12/27/23	23.42	24.85	-	1.43	3,366.21	3,342.79	3,341.36

Page 1647 of 1657

CITY:SYRACUSE, NY DIV/GROUP:ENV/CAD DB:K.SARTORI LD:(OPT) PIC:P.KRUEGER PM:P.KRUEGER TM:P.KRUEGER LYR:(OPT)ON=*;OFF=*REF*
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PROFILE
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NOTE:
SOME ITEMS NOT SHOWN FOR CLARITY.

PLAN
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SECTION	WELL ID	DEPTH (FT BGS)
A	RW-12	13.0
	RW-13	12.0
	RW-14	12.0
	RW-15	8.0
	RW-19	11.0
	RW-20	3.0
	RW-22	11.5
B	RW-12	15.0
	RW-13	15.0
	RW-14	15.0
	RW-15	15.0
	RW-19	15.8
	RW-20	5.0
	RW-22	14.0
C	RW-12	25.0
	RW-13	21.0
	RW-14	18.0
	RW-15	13.0
	RW-19	26.0
	RW-20	18.0
	RW-22	22.0
D	RW-12	32.0
	RW-13	31.0
	RW-14	28.0
	RW-15	13.0
	RW-19	28.0
	RW-20	21.0
	RW-22	34.0
E	RW-12	30.0
	RW-13	35.0
	RW-14	35.0
	RW-15	35.0
	RW-19	40.0
	RW-20	25.0
	RW-22	34.0

NOTES:

1. SPECIFICATIONS FOR PHASE I PUMPS, VALVES, PIPING AND INSTRUMENTATION ARE PROVIDED ON DRAWING 25.
2. CONCRETE PAD BENEATH PRECAST CONCRETE VAULT INSTALLED IN ACCORDANCE WITH DETAIL ON DRAWING 21.
3. DEPTHS SHOWN IN TABLE ARE SUBJECT TO CHANGE BASED ON CURRENT GROUNDWATER ELEVATION.
4. DETAILS FOR AIR COMPRESSOR ENCLOSURE ARE PROVIDED ON DRAWING 20.
5. HDPE PENETRATION OF EXTRACTION WELL VAULT FLOOR MADE IN ACCORDANCE WITH DETAIL 3 ON DRAWING 21.
6. **PULSE COUNTER AND FLOW QUANTITY INSTRUMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE PIPING AND INSTRUMENTATION DIAGRAMS.**
7. **SPECIFICATIONS FOR PHASE II EQUIPMENT ARE PROVIDED ON DRAWING 35.**

XREFS: 00871X00
IMAGES:

NOTES

REFERENCE DRAWINGS

NO.	REVISIONS	BY	CHK.	DATE	APPR.	APPR.
8	PHASE II RECORD	SAB		7/2014		
7	PHASE II FINAL DESIGN	SAB		8/2013		
6	PHASE II 95% DESIGN	SAB		6/20/13		
5	REVISED EQUIP NO'S CHANGED TO UNIT 90	DGJ		4/17/13		
4	PHASE I RECORD	SAB	TEM	4/2012		
3	REVISED 100% DESIGN	SAB	TEM	10/2011		
2	100% DESIGN	SAB	TEM	7/2011		
1	90% DESIGN	SAB	TEM	6/2011		

DRAWING TITLE

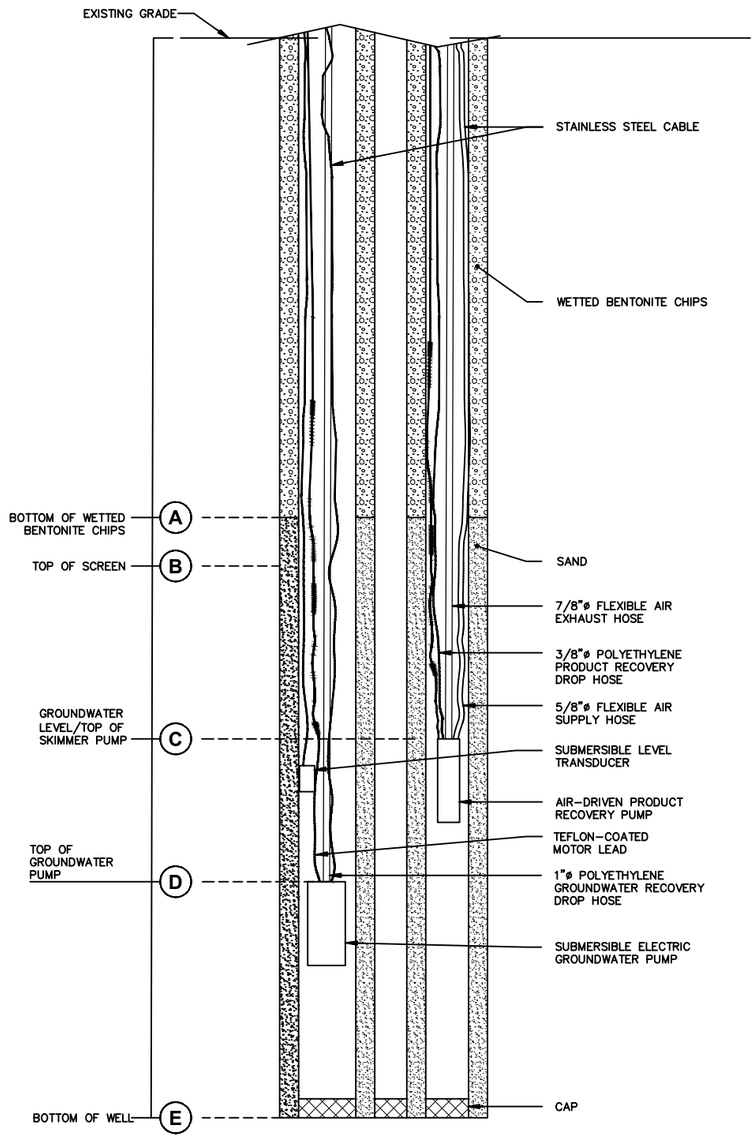
TYPICAL OFF-SITE RECOVERY WELL PLAN AND PROFILE - PHASE I

ARCADIS
ARCADIS U.S., INC.
2929 BRIARPARK DRIVE, SUITE 300
HOUSTON, TEXAS 77042 TEL. 713.953.4800

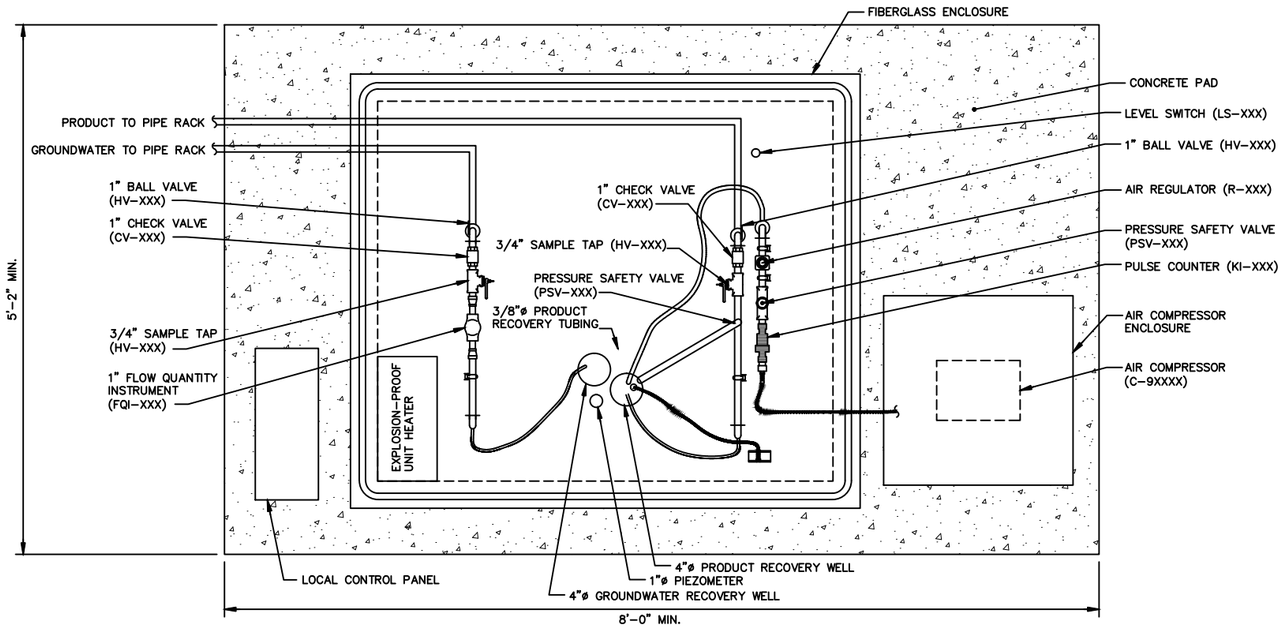
NAVAJO REFINING CO.
ENGINEERING DEPARTMENT
P.O. DRAWER 159
ARTESIA, NEW MEXICO

DRAWN BY	CHK'D BY	SCALE
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DATE	APPR BY	DRAWING NUMBER / REV.
JULY 2014	TEM	16 / 5

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PROFILE
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PLAN
NOT TO SCALE

SECTION	WELL ID	DEPTH (FT BGS)
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	RW-2	5.0
	RW-4	5.0
	RW-6	4.0
	RW-7	3.0
	RW-8	3.0
B	RW-1	6.0
	RW-2	7.0
	RW-4	13.0
	RW-6	6.0
	RW-7	5.0
	RW-8	5.0
C	RW-1	9.0
	RW-2	10.0
	RW-4	15.0
	RW-6	14.0
	RW-7	11.0
	RW-8	11.0
D	RW-1	14.0
	RW-2	15.0
	RW-4	20.0
	RW-6	19.0
	RW-7	14.0
	RW-8	14.0
E	RW-1	21.0
	RW-2	22.0
	RW-4	27.0
	RW-6	26.0
	RW-7	17.0
	RW-8	17.0

NOTES:

1. SPECIFICATIONS FOR PUMPS, VALVES, PIPING AND INSTRUMENTATION ARE PROVIDED ON DRAWING 34.
2. CONCRETE PAD TO BE INSTALLED IN ACCORDANCE WITH DETAIL 1 ON DRAWING 29.
3. DEPTHS SHOWN IN TABLE ARE SUBJECT TO CHANGE BASED ON CURRENT GROUNDWATER ELEVATION.
4. DETAILS FOR AIR COMPRESSOR ENCLOSURE ARE PROVIDED IN DETAIL 1 ON DRAWING 28.
5. SANITARY WELL SEALS TO BE PROVIDED FOR GROUNDWATER AND PRODUCT RECOVERY WELLS IN ACCORDANCE WITH DETAILS 2 AND 3 ON DRAWING 28.
6. ALL PIPING, VALVES, AND INSTRUMENTATION INSIDE OF FIBERGLASS ENCLOSURE SHALL BE SUPPORTED ON FREE-STANDING FIELD FABRICATED UNI-STRUT SUPPORTS.

ARCADIS
ARCADIS U.S., INC.
2929 BRIARPARK DRIVE, SUITE 300
HOUSTON, TEXAS 77042 TEL. 713.953.4800

NOTES

REFERENCE DRAWINGS

NO.	REVISIONS	BY	CHK.	DATE	APPR.	APPR.
7	PHASE II FINAL DESIGN	SAB		8/2013		
6	PHASE II 95% DESIGN	SAB		6/20/13		
5	REVISED EQUIP NO'S CHANGED TO UNIT 90	DGJ		4/17/13		
4	PHASE I AS-BUILT	SAB	TEM	4/2012		
3	REVISED 100% DESIGN	SAB	TEM	10/2011		
2	100% DESIGN	SAB	TEM	7/2011		
1	90% DESIGN	SAB	TEM	6/2011		

DRAWING TITLE

TYPICAL RECOVERY WELL PLAN AND PROFILE – PHASE II

NAVAJO REFINING CO.
ENGINEERING DEPARTMENT
P.O. DRAWER 159
ARTESIA, NEW MEXICO

DRAWN BY	CHK'D BY	SCALE	
KLS	SAB	NOT TO SCALE	
DATE	APPR BY	DRAWING NUMBER	REV.
AUGUST 2013	TEM	26	5

CITY:SYRACUSE, NY DIV/GROUP:ENV/CAD DB:K.SARTORI LD:(OPT) PIC:P.KRUEGER PMP:P.KRUEGER TM:P.KRUEGER LYR:(OPT)ON=*;OFF=*REF*
G:\ENV\CAD\SYRACUSE\ACTIVE\00871\100\04\000\02\DWG\LNAPL-PHASE II\00871G26.dwg LAYOUT: 26 SAVED: 8/23/2013 2:25 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTCONT.CTB PLOTTED: 8/23/2013 2:25 PM BY: SARTORI, KATHERINE
XREFS: 00871X00 IMAGES: PROJECTNAME: ----

APPENDIX E.4 RECOVERY SYSTEM PHOTOGRAPHS



Photograph 1: Outside view of typical Phase I recovery well vault (RW-5 shown).

APPENDIX E.4 RECOVERY SYSTEM PHOTOGRAPHS



Photograph 2: Outside view of typical Phase II recovery well vault (RW-4 shown).

APPENDIX E.4 RECOVERY SYSTEM PHOTOGRAPHS



Photograph 3: View of typical recovery system skid area within Refinery fenceline (Skid T-9003 shown)

APPENDIX E.4 RECOVERY SYSTEM PHOTOGRAPHS



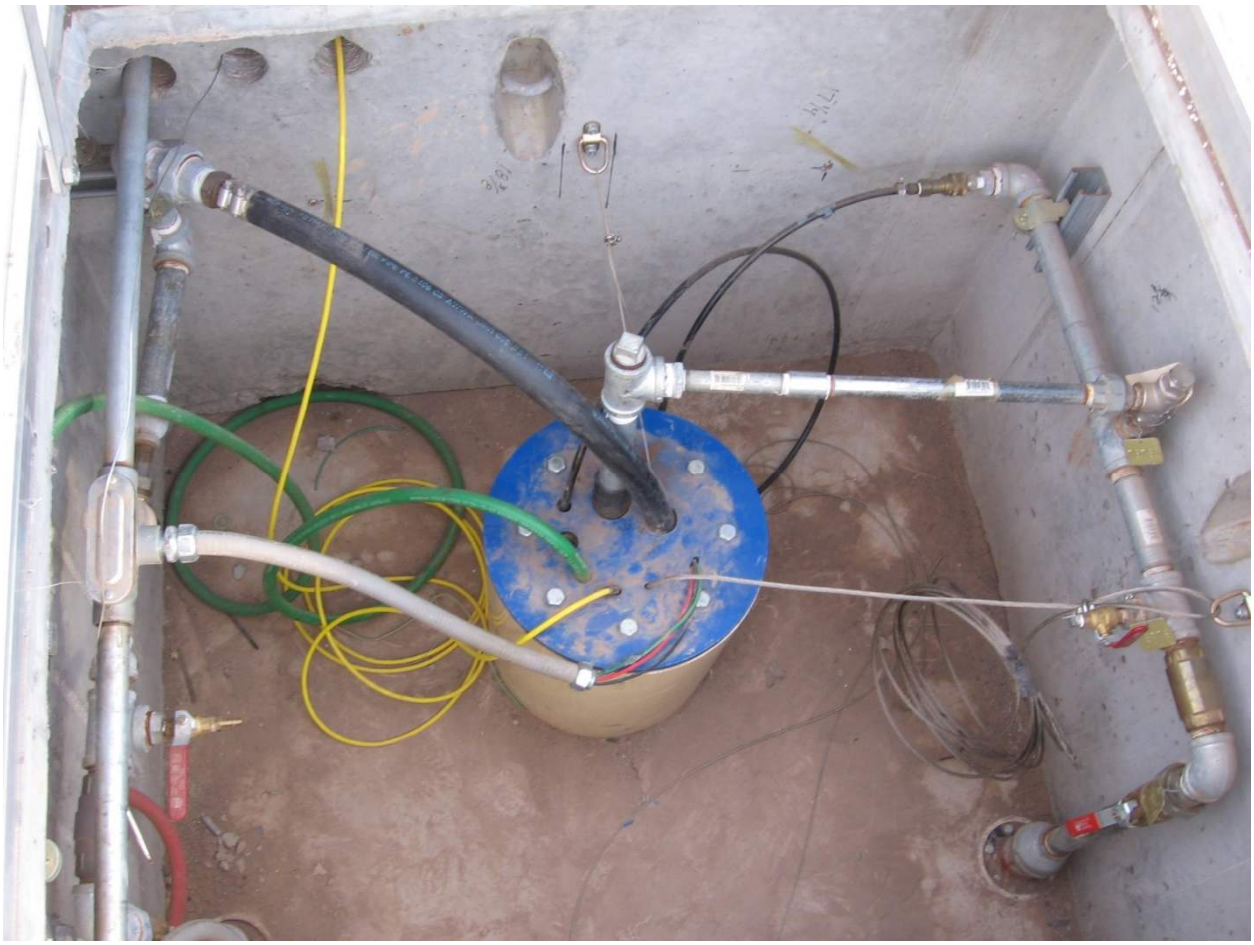
Photograph 4: View inside recovery system skid area T-9020 along Bolton Road

APPENDIX E.4 RECOVERY SYSTEM PHOTOGRAPHS



Photograph 5: View of typical recovery system pump station control panel (Pump Station T-9003 shown)

APPENDIX E.4 RECOVERY SYSTEM PHOTOGRAPHS



Photograph 6: Inside view of typical Phase I recovery well vault (RW-13 shown).

APPENDIX E.4 RECOVERY SYSTEM PHOTOGRAPHS



Photograph 7: Inside view of typical Phase II recovery well vault (RW-1 shown).

District I
1625 N. French Dr., Hobbs, NM 88240
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District II
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Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 353478

CONDITIONS

Operator: HF Sinclair Navajo Refining LLC ATTN: GENERAL COUNSEL Dallas, TX 75201	OGRID: 15694
	Action Number: 353478
	Action Type: [UF-DP] Discharge Permit (DISCHARGE PERMIT)

CONDITIONS

Created By	Condition	Condition Date
joel.stone	None	6/28/2024